

**Chemical Waste Treatment Centre**  
**Operation Report**  
**Jan 97 - Jun 97**

**I. INTRODUCTION**

This Operation Report is prepared by EPD for the Environment and Planning Committee (EPC) of the Provisional Kwai Tsing District Board. It outlines the activities of the Chemical Waste Treatment Centre (CWTC) and provides a summary of environmental performance of the plant.

The environmental performance summary as shown in Section II of this report covers the result of environmental monitoring from January 97 to June 97.

**II. ENVIRONMENTAL PERFORMANCE SUMMARY**

Enviropace are required to undertake regular checks on environmental performance of the operation of the plant. These include the following:

- Effluent discharge monitoring
- Stack gas monitoring
- Stabilised residue monitoring

**Effluent Discharge**

Effluent from the CWTC treatment processes has to meet very strict discharge limits on pollutant concentration. Multiple processes are employed inside the CWTC to treat all liquid wastes to ensure a safe waste management system. Automatic monitoring of pH and temperature are conducted to facilitate immediate warning on any significant change detected in the composition of the effluent, such that prompt corrective response can be effected.

Effluent from the plant is discharged in batches. Each batch is sampled and analyzed, and discharges are permitted only if limits are met. Tables 1 to 6 show the summary of effluent quality from January 97 to June 97. No exceedances in effluent discharge limits were observed.

**Stack Gas**

Air emissions from the incineration system are closely monitored by a comprehensive management and monitoring programme to ensure that the system is operating safely and in an environmentally acceptable manner.

A continuous monitoring system on key parameters is installed in the incinerator stack to ensure combustion and air pollutant removal processes are functionally well. Furthermore, the incinerator is equipped with an automatic waste feed cut-off system. In the event that the continuous monitoring system picks up any potential sign of exceedance of any of the control parameters, waste feed to the incinerator will be stopped automatically. The result for Stack Gas Monitoring from January 97 to June 97 are attached in Tables 7 to 12 and compliance in all stack gas control parameters has been achieved.

### Stabilised Residue

All solid wastes and process residues at the CWTC are detoxified, chemically stabilized and physically immobilized to an environmentally benign state. Samples of the stabilized materials have to pass a series of analytical tests, proven to be innocuous before being sent to an off-site landfill for final disposal.

The summaries of result for Stabilized Residue from January 97 to June 97 are attached in Tables 13 to 18. All of the test parameters fell within the control limits and no exceedances occurred.

Table 1

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( January 1997 )

| Parameters                     | Control Limits     | Result       | Mean         |
|--------------------------------|--------------------|--------------|--------------|
| pH                             | 6-10               | 7.1 - 9.9    | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 33.6       | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2          | N/A          |
| Total Sulphate (mg/l)          | 2000               | 277.7-1014.9 | 685.1        |
| Total Sulphides (mg/l)         | 10                 | < 7.3        | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.03       | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 82.8       | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 15.7       | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.34       | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 0.80       | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3          | N/A          |
| Dissolved TOC (mg/l)           | 200                | <109.2       | N/A          |
| Temperature (°C)               | 43                 | 20 - 37      | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected | Not detected |
| Toxic Metals :                 |                    |              |              |
| Arsenic (mg/l)                 | 2                  | < 0.1        | N/A          |
| Barium (mg/l)                  | 5                  | < 1          |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1        |              |
| Chromium (mg/l)                | 1                  | < 0.6        |              |
| Copper (mg/l)                  | 2                  | < 0.5        |              |
| Lead (mg/l)                    | 2                  | < 1          |              |
| Manganese (mg/l)               | 5                  | < 0.2        |              |
| Mercury (mg/l)                 | 0.05               | < 0.05       |              |
| Nickel (mg/l)                  | 2                  | < 1          |              |
| Silver (mg/l)                  | 2                  | < 0.4        |              |
| Tin (mg/l)                     | 5                  | < 1          |              |
| Zinc (mg/l)                    | 2                  | < 1          |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 6.73       |              |
| Boron (mg/l)                   | 5                  | < 2.8        |              |
| Iron (mg/l)                    | 10                 | < 2          |              |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.

Table 2

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( February 1997 )

| Parameters                     | Control Limits     | Result       | Mean         |
|--------------------------------|--------------------|--------------|--------------|
| pH                             | 6-10               | 7 - 9.7      | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 30.3       | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2          | N/A          |
| Total Sulphate (mg/l)          | 2000               | 329.6-1245.4 | 826          |
| Total Sulphides (mg/l)         | 10                 | < 5.6        | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.09       | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 70.4       | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 18.1       | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.4        | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 0.60       | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3          | N/A          |
| Dissolved TOC (mg/l)           | 200                | < 200        | 76.6         |
| Temperature (°C)               | 43                 | 20 - 39      | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected | Not detected |
| Toxic Metals :                 |                    |              |              |
| Arsenic (mg/l)                 | 2                  | < 0.1        | N/A          |
| Barium (mg/l)                  | 5                  | < 1          |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1        |              |
| Chromium (mg/l)                | 1                  | < 0.4        |              |
| Copper (mg/l)                  | 2                  | < 1.9        |              |
| Lead (mg/l)                    | 2                  | < 1          |              |
| Manganese (mg/l)               | 5                  | < 0.2        |              |
| Mercury (mg/l)                 | 0.05               | < 0.05       |              |
| Nickel (mg/l)                  | 2                  | < 1          |              |
| Silver (mg/l)                  | 2                  | < 0.4        |              |
| Tin (mg/l)                     | 5                  | < 1          |              |
| Zinc (mg/l)                    | 2                  | < 1          |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 8.1        |              |
| Boron (mg/l)                   | 5                  | < 2.6        |              |
| Iron (mg/l)                    | 10                 | < 2          | N/A          |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.

Table 3

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( March 1997 )

| Parameters                     | Control Limits     | Result       | Mean         |
|--------------------------------|--------------------|--------------|--------------|
| pH                             | 6-10               | 6.9 - 9.8    | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 65.2       | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2          | N/A          |
| Total Sulphate (mg/l)          | 2000               | 107.6-1378.3 | 789.3        |
| Total Sulphides (mg/l)         | 10                 | < 2.5        | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.09       | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 47         | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 15         | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.5        | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 0.7        | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3.5        | N/A          |
| Dissolved TOC (mg/l)           | 200                | < 85.2       | N/A          |
| Temperature (°C)               | 43                 | 21 - 42      | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected | Not detected |
| Toxic Metals :                 |                    |              |              |
| Arsenic (mg/l)                 | 2                  | < 0.1        | N/A          |
| Barium (mg/l)                  | 5                  | < 1          |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1        |              |
| Chromium (mg/l)                | 1                  | < 0.8        |              |
| Copper (mg/l)                  | 2                  | < 1.13       |              |
| Lead (mg/l)                    | 2                  | < 1          |              |
| Manganese (mg/l)               | 5                  | < 0.2        |              |
| Mercury (mg/l)                 | 0.05               | < 0.05       |              |
| Nickel (mg/l)                  | 2                  | < 1          |              |
| Silver (mg/l)                  | 2                  | < 1.3        |              |
| Tin (mg/l)                     | 5                  | < 1          |              |
| Zinc (mg/l)                    | 2                  | < 1          |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 7.2        |              |
| Boron (mg/l)                   | 5                  | < 2.4        |              |
| Iron (mg/l)                    | 10                 | < 2          |              |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.



Table 4

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( April 1997 )

| Parameters                     | Control Limits     | Result       | Mean         |
|--------------------------------|--------------------|--------------|--------------|
| pH                             | 6-10               | 7 - 7.9      | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 20         | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2          | N/A          |
| Total Sulphate (mg/l)          | 2000               | 135.9-1240.3 | 572.6        |
| Total Sulphides (mg/l)         | 10                 | < 3.1        | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.03       | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 55.5       | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 15         | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.4        | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 1          | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3          | N/A          |
| Dissolved TOC (mg/l)           | 200                | < 105        | N/A          |
| Temperature (°C)               | 43                 | 22 - 42      | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected | Not detected |
| Toxic Metals :                 |                    |              |              |
| Arsenic (mg/l)                 | 2                  | < 0.1        | N/A          |
| Barium (mg/l)                  | 5                  | < 1          |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1        |              |
| Chromium (mg/l)                | 1                  | < 0.5        |              |
| Copper (mg/l)                  | 2                  | < 0.8        |              |
| Lead (mg/l)                    | 2                  | < 1          |              |
| Manganese (mg/l)               | 5                  | < 0.2        |              |
| Mercury (mg/l)                 | 0.05               | < 0.05       |              |
| Nickel (mg/l)                  | 2                  | < 1          |              |
| Silver (mg/l)                  | 2                  | < 0.4        |              |
| Tin (mg/l)                     | 5                  | < 1          |              |
| Zinc (mg/l)                    | 2                  | < 1          |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 6.7        |              |
| Boron (mg/l)                   | 5                  | < 1.4        |              |
| Iron (mg/l)                    | 10                 | < 2          |              |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.

Table 5

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( May 1997 )

| Parameters                     | Control Limits     | Result        | Mean         |
|--------------------------------|--------------------|---------------|--------------|
| pH                             | 6-10               | 6.1 - 9.8     | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 20          | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2           | N/A          |
| Total Sulphate (mg/l)          | 2000               | 340.6- 1087.2 | 673.2        |
| Total Sulphides (mg/l)         | 10                 | < 8.7         | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.03        | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 51.3        | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 15          | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.3         | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 0.6         | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3           | N/A          |
| Dissolved TOC (mg/l)           | 200                | < 80          | 72.3         |
| Temperature (°C)               | 43                 | 28 - 42       | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected  | Not detected |
| Toxic Metals :                 |                    |               |              |
| Arsenic (mg/l)                 | 2                  | < 0.1         | N/A          |
| Barium (mg/l)                  | 5                  | < 1           |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1         |              |
| Chromium (mg/l)                | 1                  | < 0.3         |              |
| Copper (mg/l)                  | 2                  | < 1           |              |
| Lead (mg/l)                    | 2                  | < 1           |              |
| Manganese (mg/l)               | 5                  | < 0.2         |              |
| Mercury (mg/l)                 | 0.05               | < 0.05        |              |
| Nickel (mg/l)                  | 2                  | < 1           |              |
| Silver (mg/l)                  | 2                  | < 0.4         |              |
| Tin (mg/l)                     | 5                  | < 1           |              |
| Zinc (mg/l)                    | 2                  | < 1           |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 7.1         |              |
| Boron (mg/l)                   | 5                  | < 1.4         |              |
| Iron (mg/l)                    | 10                 | < 2           |              |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.

Table 6

Chemical Waste Treatment Centre  
Effluent Discharge Summary ( June 1997 )

| Parameters                     | Control Limits     | Result       | Mean         |
|--------------------------------|--------------------|--------------|--------------|
| pH                             | 6-10               | 7.1 - 10     | N/A          |
| Total Kjeldahl Nitrogen (mg/l) | 100                | < 20.4       | N/A          |
| Total Phosphate (mg/l)         | 10                 | < 2          | N/A          |
| Total Sulphate (mg/l)          | 2000               | 495.8-1316.8 | 795.9        |
| Total Sulphides (mg/l)         | 10                 | < 1.7        | N/A          |
| Total Cyanide (mg/l)           | 0.1                | < 0.03       | N/A          |
| Total Suspended Solids (mg/l)  | 100                | < 43.1       | N/A          |
| Oil and Grease (mg/l)          | 20                 | < 15         | N/A          |
| Total Phenols (mg/l)           | 0.5                | < 0.3        | N/A          |
| Total Residual Chlorine (mg/l) | 1                  | < 0.7        | N/A          |
| Anionic Detergents (mg/l)      | 15                 | < 3          | N/A          |
| Dissolved TOC (mg/l)           | 200                | 80           | N/A          |
| Temperature (°C)               | 43                 | 30 - 41      | N/A          |
| Floatable Substances (mg/l)    | Not to be detected | Not detected | Not detected |
| Toxic Metals :                 |                    |              |              |
| Arsenic (mg/l)                 | 2                  | < 0.1        | N/A          |
| Barium (mg/l)                  | 5                  | < 1          |              |
| Cadmium (mg/l)                 | 0.1                | < 0.1        |              |
| Chromium (mg/l)                | 1                  | < 0.3        |              |
| Copper (mg/l)                  | 2                  | < 0.8        |              |
| Lead (mg/l)                    | 2                  | < 1          |              |
| Manganese (mg/l)               | 5                  | < 0.2        |              |
| Mercury (mg/l)                 | 0.05               | < 0.05       |              |
| Nickel (mg/l)                  | 2                  | < 1          |              |
| Silver (mg/l)                  | 2                  | < 0.4        |              |
| Tin (mg/l)                     | 5                  | < 1          |              |
| Zinc (mg/l)                    | 2                  | < 1          |              |
| Total Toxic Metals # (mg/l)    | 10                 | < 7          |              |
| Boron (mg/l)                   | 5                  | < 1.3        |              |
| Iron (mg/l)                    | 10                 | < 2          |              |

| Parameters                      | Control Limits | Result  | Mean |
|---------------------------------|----------------|---------|------|
| Pesticides :                    |                |         |      |
| Aldrin (mg/l)                   | 0.01           | < 0.01  | N/A  |
| BHCS (mg/l)                     | 0.01           | < 0.01  |      |
| DDT (mg/l)                      | 0.01           | < 0.01  |      |
| Semi-volatile<br>Compounds :    |                |         |      |
| Benzo (A) Pyrene (mg/l)         | 0.1            | < 0.1   | N/A  |
| Volatile Compounds :            |                |         |      |
| 1,1,1-Trichloroethane<br>(mg/l) | 0.05           | < 0.05  | N/A  |
| Polychlorinated<br>Biphenyls :  |                |         |      |
| Total PCBs (mg/l)               | 0.003          | < 0.003 | N/A  |
| Radioactive Substances :        |                |         |      |
| Gross (pc/l)                    | 10000          | < 10000 | N/A  |
| Radium-226 (pc/l)               | 30             | < 30    |      |
| Strontium-90 (pc/l)             | 100            | < 100   |      |

# Total toxic metals include: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, Tin, Zinc.

Table 7

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( January 1997 )

| Parameters   | Control Limits | Result       | Mean  |
|--|----------------|--------------|-------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.5 - 5.5    | 2.1   |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 4          | N/A   |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.4        | N/A   |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | Not detected | N/A   |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | 18.6 - 29    | 21.9  |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | 65.3 - 265.6 | 142.8 |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | 5.1 - 10.3   | 8.2   |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 1.63       | N/A   |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 0.9        | N/A   |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 0.9        | N/A   |
| Toxic Metals I :   |                |              |       |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.079      | N/A   |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.064      |       |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.458      |       |
| Toxic Metals II :  |                |              |       |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.543      | N/A   |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.326      |       |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.005      |       |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.326      |       |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.046      |       |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 1.377      | N/A   |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.008        | N/A   |

Table 8

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( February 1997 )

| Parameters   | Control Limits | Result       | Mean  |
|--|----------------|--------------|-------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.2 - 1.4    | 0.9   |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 3.4        | N/A   |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.4        | N/A   |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | 0.9 - 1      | 1     |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | 10.8 - 22.9  | 17.3  |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | 17.3 - 378.6 | 174.5 |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | < 20.3       | N/A   |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 0.6        | N/A   |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 0.9        | N/A   |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 0.9        | N/A   |
| Toxic Metals I :   |                |              |       |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.72       | N/A   |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.051      |       |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.506      |       |
| Toxic Metals II :  |                |              |       |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.6        | N/A   |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.08       |       |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.006      |       |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.12       |       |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.081      |       |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 2.1        | N/A   |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.015        | N/A   |



Table 9

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( March 1997 )

| Parameters   | Control Limits | Result    | Mean |
|--|----------------|-----------|------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.6 - 3.4 | 1.45 |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 4.2     | N/A  |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.4     | N/A  |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | < 2.3     | N/A  |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | 10.3 - 46 | 33.8 |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | < 374.4   | N/A  |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | < 28.1    | N/A  |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 0.618   | N/A  |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 0.9     | N/A  |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 0.9     | N/A  |
| Toxic Metals I :   |                |           |      |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.057   | N/A  |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.052   |      |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.522   |      |
| Toxic Metals II :  |                |           |      |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.618   | N/A  |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.071   |      |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.006   |      |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.124   |      |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.052   |      |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 1.473   | N/A  |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.0135    | N/A  |

Table 10

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( April 1997 )

| Parameters   | Control Limits | Result       | Mean |
|--|----------------|--------------|------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.7 - 2      | 1.2  |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 3.9        | N/A  |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.4        | N/A  |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | Not detected | N/A  |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | 37.5 - 69.8  | 49.5 |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | < 688.8      | N/A  |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | 24.9 - 28.5  | 26.7 |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 0.662      | N/A  |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 1          | N/A  |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 0.9        | N/A  |
| Toxic Metals I :   |                |              |      |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.079      | N/A  |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.056      |      |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.558      |      |
| Toxic Metals II :  |                |              |      |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.662      | N/A  |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.077      |      |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.007      |      |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.132      |      |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.056      |      |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 1.473      | N/A  |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.0067       | N/A  |

Table 11

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( May 1997 )

| Parameters   | Control Limits | Result       | Mean |
|--|----------------|--------------|------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.4 - 2.4    | 1.6  |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 4.2        | N/A  |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.4        | N/A  |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | Not detected | N/A  |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | < 13.8       | N/A  |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | < 75.9       | N/A  |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | < 24.1       | N/A  |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 0.72       | N/A  |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 1          | N/A  |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 1          | N/A  |
| Toxic Metals I :   |                |              |      |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.018      | N/A  |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.061      |      |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.607      |      |
| Toxic Metals II :  |                |              |      |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.72       | N/A  |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.076      |      |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.007      |      |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.144      |      |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.061      |      |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 1.69       | N/A  |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.048        | N/A  |

Table 12

Chemical Waste Treatment Centre  
Stack Gas Monitoring Summary ( June 1997 )

| Parameters   | Control Limits | Result    | Mean |
|--|----------------|-----------|------|
| Particulates (mg/m <sup>3</sup> )                                    | 75             | 0.5 - 2.5 | 1.6  |
| Chlorine and Compounds<br>(as Cl <sub>2</sub> ) (mg/m <sup>3</sup> ) | 100            | < 3.3     | N/A  |
| Fluorine and Compounds<br>(as HF) (mg/m <sup>3</sup> )               | 25             | < 0.3     | N/A  |
| Hydrogen Sulphide (mg/m <sup>3</sup> )                               | 5              | 1.7       | N/A  |
| Acidity (as Sulphuric Acid)<br>(mg/m <sup>3</sup> )                  | 100            | < 3.1     | N/A  |
| Sulphur Dioxide (mg/m <sup>3</sup> )                                 | 750            | < 39.1    | N/A  |
| Hydrochloric Acid (mg/m <sup>3</sup> )                               | 38             | < 11.2    | N/A  |
| Total Phosphorus (as P)<br>(mg/m <sup>3</sup> )                      | 7.5            | < 0.604   | N/A  |
| Hydrogen Fluoride (mg/m <sup>3</sup> )                               | 7.5            | < 0.9     | N/A  |
| Hydrogen Bromide (mg/m <sup>3</sup> )                                | 7.5            | < 0.9     | N/A  |
| Toxic Metals I :   |                |           |      |
| Mercury (mg/m <sup>3</sup> )   | 3              | < 0.009   | N/A  |
| Cadmium (mg/m <sup>3</sup> )   | 3              | < 0.051   |      |
| Antimony (mg/m <sup>3</sup> )  | 3              | < 0.511   |      |
| Toxic Metals II :  |                |           |      |
| Lead (mg/m <sup>3</sup> )  | 10             | < 0.604   | N/A  |
| Copper (mg/m <sup>3</sup> )  | 10             | < 0.07    |      |
| Arsenic (mg/m <sup>3</sup> )   | 10             | < 0.006   |      |
| Nickel (mg/m <sup>3</sup> )  | 10             | < 0.121   |      |
| Chromium (mg/m <sup>3</sup> )  | 10             | < 0.051   |      |
| Total of Toxic Metals I & II<br>(mg/m <sup>3</sup> )                 | 10             | < 1.422   | N/A  |
| Dioxin (ng/m <sup>3</sup> )  | 0.1            | 0.0926    | N/A  |

Table 13

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( January 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 11.4 - 12.9 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 60.5 - 100  | 83.9 |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.02      |      |
| Total Chromium (ppm)                      | 10               | < 0.5       |      |
| Copper (ppm)                              | -                | < 9         |      |
| Nickel (ppm)                              | -                | < 0.5       |      |
| Lead (ppm)                                | -                | < 22.3      |      |
| Zinc (ppm)                                | -                | < 2         |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 24.9      |      |
| Iron (ppm)                                | 20               | < 9.7       | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 4.5       | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2         | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |

Table 14

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( February 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 11.3 - 13.2 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 54.5 - 100  | 81.2 |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.04      |      |
| Total Chromium (ppm)                      | 10               | < 1.27      |      |
| Copper (ppm)                              | -                | < 5.03      |      |
| Nickel (ppm)                              | -                | < 2.15      |      |
| Lead (ppm)                                | -                | < 22.6      |      |
| Zinc (ppm)                                | -                | < 1.7       |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 24.2      |      |
| Iron (ppm)                                | 20               | < 2.59      | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 6         | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2         | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |

Table 15

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( March 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 11.7 - 12.9 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 58.4 - 100  | 84   |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.056     |      |
| Total Chromium (ppm)                      | 10               | < 1.3       |      |
| Copper (ppm)                              | -                | < 14.7      |      |
| Nickel (ppm)                              | -                | < 3.5       |      |
| Lead (ppm)                                | -                | < 17        |      |
| Zinc (ppm)                                | -                | < 6.4       |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 20.7      |      |
| Iron (ppm)                                | 20               | < 6.2       | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 5.3       | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2         | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |

Table 16

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( April 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 10.6 - 12.8 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 39.5 - 100  | 80.9 |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.054     |      |
| Total Chromium (ppm)                      | 10               | < 0.57      |      |
| Copper (ppm)                              | -                | < 13        |      |
| Nickel (ppm)                              | -                | < 2         |      |
| Lead (ppm)                                | -                | < 11.2      |      |
| Zinc (ppm)                                | -                | < 7         |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 23        |      |
| Iron (ppm)                                | 20               | < 5.4       | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 5.9       | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2         | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |



Table 17

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( May 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 10.8 - 12.7 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 37.1 - 99.5 | 81.1 |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.02      |      |
| Total Chromium (ppm)                      | 10               | < 1.4       |      |
| Copper (ppm)                              | -                | < 6.7       |      |
| Nickel (ppm)                              | -                | < 1.1       |      |
| Lead (ppm)                                | -                | < 7.9       |      |
| Zinc (ppm)                                | -                | < 2.9       |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 15.5      |      |
| Iron (ppm)                                | 20               | < 3         | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 4         | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2.3       | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |

Table 18

Chemical Waste Treatment Centre  
Stabilised Materials Summary ( June 1997 )

| Parameters                                | Control Limits   | Result      | Mean |
|---|------------------|-------------|------|
| Section A                                 |                  |             |      |
| pH (water)                                | 8 (lower limit)  | 11.3 - 12.8 | N/A  |
| % Solids (%)                              | 30 (lower limit) | 48.5 - 99.9 | 79.4 |
| Toxic Metals :                            |                  |             |      |
| Cadmium (ppm)                             | 0.5              | < 0.5       | N/A  |
| Mercury (ppm)                             | 0.1              | < 0.02      |      |
| Total Chromium (ppm)                      | 10               | < 0.5       |      |
| Copper (ppm)                              | -                | < 3         |      |
| Nickel (ppm)                              | -                | < 0.5       |      |
| Lead (ppm)                                | -                | < 21.3      |      |
| Zinc (ppm)                                | -                | < 0.9       |      |
| Total of copper, nickel, lead, zinc (ppm) | 25               | < 24.1      |      |
| Iron (ppm)                                | 20               | < 2.2       | N/A  |
| Sulphide (ppm)                            | 10               | < 5         | N/A  |
| Ammoniacal Nitrogen (ppm)                 | 10               | < 9.8       | N/A  |
| Cyanide (ppm)                             | 5                | < 5         | N/A  |
| Section B                                 |                  |             |      |
| Volatile Organic Contents (ppm)           | 5000             | < 15        | N/A  |
| Total Organic Halides (ppm)               | 10               | < 2         | N/A  |
| Total Chloro Phenols (ppm)                | 2                | < 2         | N/A  |
| Polychlorinated Biphenyls (ppm)           | 1                | < 1         | N/A  |
| TCDD equivalent (ITEF method) (ppb)       | 1                | < 1         | N/A  |