

**Waste Transfer and Recycling Facility
Six Cross Roads Business Park,
Waterford City**

**Annual Environmental Report
2008**

Veolia Environmental Services (Ireland) Limited

Environmental Protection Agency Licence W0177-03

E.P.A. Headquarters
Johnstown Castle Estate
Wexford

Veolia Environmental Services (Ireland) Limited

Waste Transfer and Recycling Facility

Waterford

Annual Environmental Report

For the reporting period

1st January 2008 to 31st December 2008

Prepared by:

Garrett Walsh
Environmental Officer
30th March 2009

| | PAGE |
|--|-------------|
| 1.0 INTRODUCTION | 4 |
| 1.1 Veolia Environment Services Limited Environmental Policy | 5 |
| 2.0 WASTE ACTIVITIES OF THE SITE | 6 |
| 3.0 WASTE RECEIVED AND CONSIGNED FROM THE FACILITY | 7 |
| 3.1 Waste-In Composition | 7 |
| 3.2 Waste & Recovery Quantities | 7 |
| 3.3 Unacceptable Waste | 9 |
| 3.4 Rejected Waste Loads | 10 |
| 4.0 MONITORING AND EMISSIONS SUMMARY | 11 |
| 4.1 Emissions to Surface Water | 11 |
| 4.2 Emissions to Foul Sewer | 13 |
| 4.3 Noise | 14 |
| 4.4 Air Quality and Climate | 16 |
| 5.0 RESOURCE AND ENERGY CONSUMPTION | 17 |
| 6.0 SITE INFRASTRUCTURE & DEVELOPMENT WORKS | 19 |
| 7.0 SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS | 20 |
| 7.1 Definitions | 20 |
| 7.2 Structure of Objectives & Targets | 20 |
| 7.3 Schedule of 2009 Objectives & Targets | 21 |
| 8.0 ENVIRONMENTAL MANAGEMENT PROGRAMME | 23 |
| 9.0 PROCEDURES DEVELOPED BY LICENCEE | 28 |
| 10.0 TANK INSPECTION AND BUND TESTING | 30 |
| 11.0 INCIDENTS AND COMPLAINTS SUMMARY | 31 |
| 11.1 Incidents Summary | 31 |
| 11.2 Complaints Summary | 31 |
| 12.0 REVIEW OF NUISANCE CONTROLS | 32 |
| 13.0 MANAGEMENT COMMITMENT | 33 |
| 13.1 Financial Provision | 33 |
| 13.2 Management Structure | 33 |
| 13.3 Communications Programme | 34 |
| 14.0 VOLUME OF WASTEWATER PRODUCED | 35 |
| 14.1 Volume of wastewater produced | 35 |
| 14.2 Volume of wastewater transported off-site. | 35 |
| 15.0 OTHER ITEMS | 36 |
| Appendices | |

1.0 INTRODUCTION

Veolia Environment Services (Ireland) Limited (previously trading as ONYX Ireland Ltd.), were issued a Waste Licence (Reg No. W0177-01) on the 14th November 2003 to operate a Waste Transfer and Recycling Facility at the Six Cross Roads Business Park, Waterford City.

The company has since been awarded two further licence amendments, W0177-02, awarded 10th February 2006, and the current W0177-03, awarded 24th August 2006. This report meets the contents requirements of the latest waste licence, W0177-03. In accordance with the requirements of Schedule F of the latter Waste Licence, an Annual Environmental Report (AER) for the facility must be submitted to Environmental Protection Agency.

Major Developments in 2008:

The site installed a new shredder-granulator in late November 2008 to process hard plastics. This should allow greater tonnages to be delivered per dispatch, increasing total process energy efficiency and reducing impact on the environment.

ISO 14001/ ISO 9001/ OHSAS 18001 accreditation was successfully achieved through audit in March 2008, the culmination of a number of years' preparation. The management systems continue to develop to ensure the environment is protected, health & safety is preserved and customers' requirements are met.

Reporting period

In this, our seventh AER, covering the calendar year 2008, comparisons will be made, where possible, to the calendar year 2007.

The facility is located at:-

Veolia Environmental Services (Ireland) Limited
Waste Transfer and Recycling Facility
Six Cross Roads Business Park
Waterford City

Tel. (051) 333922

Fax. (051) 333945

1.1 Environmental Policy

Veolia Environmental Services (Ireland) Limited is fully committed to the operation of its facilities to the highest environmental standards and fully supports and adheres to that policy.

It is the policy of Veolia Environmental Services (Ireland) Limited to protect the local environment and to minimise the impact of the operation on the environment. To achieve this objective it is committed to:

- Adhering to all relevant environmental legislation and relevant statutory obligations that relate to its activities both on and off site.
- Ensuring that all operations carried out by the company are done in a manner which ensures that environmental protection is taken into account.
- Providing and maintaining site facilities that are designed, constructed, operated and maintained to encompass the principles of good environmental practice.
- Striving to achieve a continuous improvement in efficiency of operations and environmental performance.
- Striving to minimise the quantity of waste disposed of at landfill and increasing the amount of material recycled / recovered.
- Providing environmental information to the community and responding positively to queries or complaints.
- Providing adequate training to all employees on environmental awareness and resource management.

(Signed Morgan Toner, Managing Director, Veolia Environmental Services (Ireland) Ltd, 01/10/07.)

2.0 WASTE ACTIVITIES OF THE SITE

The Waste Transfer and Recycling facility is located at the Six Cross Roads Business Park, Waterford City within an area zoned for industrial development. The Site location plan is shown in the Appendix. The facility is surrounded in the industrial estate by various commercial and industrial buildings and is adjacent to the Green Road on the western boundary.

In 2008 waste handling activities at the facility consisted of accepting and bulk loading of commercial industrial and municipal waste for transfer to licensed disposal sites.

The site inspects and sorts segregated recyclables (cardboard, C&D waste, paper, timber, glass, plastic and metal). In addition, where possible, recyclable wastes were recovered from the waste streams and sent for recycling. Recycling of hard plastics (PVC & Polypropylene) takes place on site for transport as raw material for plastic goods manufacturers.

The waste handling activities, permitted under the Third and Fourth Schedule of the Waste Management Act (1996), are detailed below;

Third Schedule, Class 12. Repackaging prior to submission to activity referred to in a preceding paragraph of this Schedule.

Third Schedule, Class 13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Third Schedule, Class 11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this schedule.

Fourth Schedule, Class 2. Recycling or reclamation of organic substances (including composting and other biological transformation processes) which are not used as solvents.

Fourth Schedule, Class 3. Recycling or reclamation of metals and metal compounds.

Fourth Schedule, Class 4. Recycling or reclamation of other inorganic materials.

Fourth Schedule, Class 13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

It is considered that the activities carried out at the facility do not have an adverse impact upon local environmental conditions due to the enclosed nature of the facility and operational controls.

Local environmental conditions do not significantly influence the facility. Annual Rainfall records for the area indicate an average annual rainfall of 1000mm. The surface water drainage system is designed with an adequate capacity for high rainfall events at the site. Prevailing winds are from a south-westerly direction. In 2008 there were approximately 29 people based at the facility.

3.0 WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

3.1 Waste In Composition

Waste accepted at the Waste Transfer and Recycling Facility consists of Industrial, Commercial, Municipal, Construction & Demolition and Household. A breakdown of the waste and the relative tonnages for the reporting period can be described in Table 3.1. More detail on waste-in composition for 2008 will be found in the (electronic) E-PRTR submitted previously (Appendix III).

Table 3.1 Waste Received at the Waterford Facility 2008 v 2007

| Quantity & composition of the waste received at the Waterford Facility | | Stream Percentage of Waste | | Tonnage | | |
|--|--------|----------------------------|------------|--------------|--------------|----------|
| Materials | EWC | 2008 | 2007 | 2008 | 2007 | % Change |
| Cardboard | 150101 | 9.9 | 7.7 | 5171 | 4046 | +28% |
| Paper | 200101 | 3.7 | 2.1 | 1958 | 1080 | +81% |
| Plastic Packaging | 150102 | 0.3 | 0.2 | 169 | 101 | +67% |
| Mixed Packaging | 150106 | 10.5 | 10.2 | 5471 | 5293 | +3% |
| Wood | 200138 | 3 | 3.7 | 1572 | 1932 | -18% |
| Metal | 200140 | 0.6 | 0.4 | 321 | 232 | +38% |
| Aluminium | 170402 | 0 | <0.1 | 0 | 5 | -100% |
| Glass | 200102 | 2 | 1.0 | 1060 | 524 | +102% |
| C&D | 170107 | 4.2 | 2.3 | 2183 | 1199 | +82% |
| Mixed Municipal Waste | 200301 | 62 | 69.6 | 32308 | 36213 | -11% |
| Biodegradable Waste (rejected) | 200108 | 0.5 | 0 | 255 | 0 | - |
| Textiles | 200111 | 0 | <0.1 | 0 | 22 | -100% |
| Electronic Waste | 200136 | <0.1 | <0.1 | 2.41 | 1 | +141% |
| Plastics (PP & PVC) | 200139 | 2.1 | 2.1 | 1070 | 1113 | -4% |
| Grain Chaff | 020705 | 0.3 | 0.1 | 167 | 57 | +193% |
| Bottom Ash (Wood) | 100101 | 0.7 | 0.5 | 346 | 235 | +47% |
| TOTAL | | 100 | 100 | 52055 | 52054 | - |

3.2 Waste and Recovery Quantities

Veolia received a Waste Licence (W0177-03), on the 24th August 2006 for the facility at Six Cross Roads Business Park. In accordance with this licence the waste intake was limited to 50,000 tonnes per annum of non-hazardous waste, with an increase to 80,000 tonnes sanctioned after Agency-agreed infrastructural developments. These developments were completed and Agency-approved during 2007. The total waste received at the facility during the 2008 period amounted to 52,055 tonnes, unchanged on 2007.

The hard recyclable wastes were received separately or recovered on-site from the waste stream and the wood, glass, metal, aluminium and C&D were stockpiled for transfer to appropriate recycling facilities. Soft recyclables were baled in the high compression baler and shipped to recyclers. Non-recyclable waste was bulk loaded and transferred to off-site licensed disposal facilities. As previously mentioned, hard plastic (PP & PVC) recycling takes place on site for transport as raw material to plastic goods manufacturers.

The relative quantities of waste accepted and disposed of at the facility, including the amount of materials recovered, during the reporting period are set out in Table 3.2(a) and 3.2(b) below.

Table 3.2(a) Summary of waste quantities for disposal out of Waterford Depot 2008 v 2007

| Description | EWC Code | Waste Out of Facility (Tonnes) 2008 | Waste Out of Facility (Tonnes) 2007 | % Change |
|-----------------------|-----------------|--|--|-----------------|
| Bottom Ash (Wood) | 10 01 01 | 248 | 212 | +17% |
| Mixed Waste Municipal | 20 03 01 | 31851 | 34595 | -8% |
| TOTAL | - | 32099 | 34807 | -8% |

Waste collected and brought to the Waste Transfer and Recycling Facility and deemed non-recyclable was disposed of in licensed or permitted facilities. The MWM total out above includes the rejected biodegradable waste input (Please see Appendix 3 for details).

* In addition to the 32,099 tonnes of material disposed in 2008, approximately 78 tonnes of disposable material was held on site at the end of December 2008.

Table 3.2(b) Summary of recyclable material recovered from Waterford Depot.

| Description | EWC Code | Recovered in Facility (Tonnes) 2008 | Recovered in Facility (Tonnes) 2007 | % Change |
|--------------------|-----------------|--|--|-----------------|
| Paper | 200101 | 744 | 1110 | -33% |
| Cardboard | 150101 | 9410 | 7407 | +27% |
| Mixed Packaging | 150106 | 817 | 0 | - |
| Textiles | 200111 | 90 | 0 | - |
| Plastic | 150102 | 497 | 426 | +17% |
| Wood | 200138 | 1864 | 2019 | -8% |
| Glass | 200102 | 929 | 506 | +84% |
| Metal | 200140 | 433 | 352 | +23% |
| Aluminium | 170402 | 4 | 21 | -81% |
| Electronic Waste | 200136 | 15 | 0 | - |
| C & D | 170107 | 4096 | 3794 | +8% |
| Grain Chaff | 020705 | 61 | 0 | - |
| Plastic(PP & PVC) | 200139 | 1152 | 1094 | +5% |
| TOTAL | - | 20113 | 16729 | +20% |

All of the above materials have been sent to Licensed and Permitted facilities during 2008. See Appendix 3 for more detail.

*In addition to the 20,113 tonnes of material recycled during 2008, approximately 368 tonnes of recyclable materials were contained on-site at the end of December 2008.

3.1 & 3.2 Analysis

The overall business was static in 2008 compared with 2007. Within the static tonnage input, the main trend seen throughout 2008 was the solid increase in pre-sorted recyclables (especially glass, paper, card, soft plastic, mixed packaging) and the significant reduction in mixed waste municipal, highlighting the company's commitment to increasing its market share of the recyclables business.

Client-site developments: This was achieved through offering more segregated recyclables equipment (balers, bins, compactors) to our clients on their sites and developing our weekly bale area runs (cardboard/paper/plastic). A new mixed dry recyclable service (bags) for REL collection for companies regularly producing relatively small amounts of individual recyclable waste types was also instituted. Finally, Veolia has implemented projects for larger clients whereby their general waste streams have had their least recyclable wastes concentrated in a second ('wet') general waste stream for disposal, leaving a 'dry' general waste stream (overwhelmingly of packaging wastes) that is suitable for treatment at an MRF (with a high recovery rate).

On-site developments: Addressing the sorting and segregating activities on our site, by comparing the waste-in categories with the disposal/recovery categories, among the more notable achievements are:

- Reduction of mixed waste municipal/rejected biodegradable waste tonnage by 712 tonnes.
- Exclusion of 1913 tonnes of construction and demolition wastes from the mixed waste municipal stream, preserving landfill capacity.
- Recovery of an extra 291 tonnes of wood and 112 tonnes of metal over inputs.

Continuing progress towards increased sorting and recovery operations both on our site and at source is apparent in the increase in recovered waste tonnages (+20%, table 3.2 b) and decline in wastes sent to landfill (-8%, table 3.2 a). We believe that these are significant achievements, set against the background of increased competition and economic uncertainty.

3.3 Unacceptable Waste

During the twelve-month period any waste that was deemed to be unacceptable and/or hazardous waste is removed to the Waste Quarantine Area prior to removal off-site for proper disposal where possible. One unacceptable load was deposited in the facility during 2008.

On the 25th August a veterinary products manufacturer's general waste skip contents were inspected on the floor of the waste transfer building and found to contain significant quantities of fully-packaged in-date or recently out of date veterinary medicines or vitamin supplements. The Environmental Officer was called. None of the boxes were labelled as hazardous. No spills were detected. The boxes were quarantined, the customer was contacted and the customer collected the boxes and returned them to their own site the same day.

3.4 Rejected Waste Loads

There were no rejected loads *per se* at the facility during the reporting period. On occasion loads have been re-categorised (e.g. from C&D to Mixed Waste Municipal) if found to contain excessive levels of non-hazardous contaminants. Records are maintained, the customer notified, the waste sorted and the customer re-charged as required.

4 MONITORING AND EMISSION SUMMARY

Environmental monitoring results for the reporting period are outlined in the following sections. An interpretation of the results and impacts on the environment are also presented. A site plan showing the position of each monitoring location is included in the Appendix.

4.1 Emissions to Surface Water

Site emissions to surface water were addressed in Conditions 6 and Schedules B & C of W0177-03. The Licence requires weekly testing at four monitoring points (when there is an available flow). The samples were tested for Ammonia, Conductivity and daily visual inspection. All sampling is carried out by trained VES personnel and analysis carried out by Envirolab Laboratories, Christendom, Waterford City.

Quarterly averages of the results are given in Tables 4.1(a) for yard drainage and 4.2(b) for roof drainage points below. All individual results have been forwarded to the Agency.

Table 4.1(a) Emissions to Surface Waters 2008, Yard Drainage SW1 & 3

| | <i>SW1 Ammonia mg/l NH₃N</i> | <i>SW1 Conductivity µS/cm</i> | <i>SW3 Ammonia mg/l NH₃N</i> | <i>SW3 Conductivity µS/cm</i> |
|---------|---|-----------------------------------|---|-----------------------------------|
| Q1 2008 | 1.31 | 374 | 1.93 | 375 |
| Q2 2008 | 0.61 | 185 | 1.18 | 159 |
| Q3 2008 | 0.67 | 280.6 | 1.13 | 311.6 |
| Q4 2008 | 2.85 | 396.2 | 0.73 | 85.9 |

Note: All samples were grab samples.

Table 4.1(b) Emissions to Surface Waters 2008, Roof Drainage SW 2 & 4

| | <i>SW2 Ammonia mg/l NH₃N</i> | <i>SW2 Conductivity µS/cm</i> | <i>SW4 Ammonia mg/l NH₃N</i> | <i>SW4 Conductivity µS/cm</i> |
|---------|---|-----------------------------------|---|-----------------------------------|
| Q1 2008 | 2.09 | 70 | 0.41 | 76 |
| Q2 2008 | 1.1 | 43 | 0.56 | 30 |
| Q3 2008 | 1.18 | 298.3 | 0.62 | 65.6 |
| Q4 2008 | 0.84 | 50.6 | 0.51 | 36.7 |

Note: All samples were grab samples.

Analysis: No ELVs were set for the surface water parameters, so a Warning Limit of 2.0 mg/l / 466 µS/cm and an Action Limit of 4.4 mg/l / 774 µS/cm was set respectively for each parameter. See Charts No1 & 2 showing graphs of weekly results. The conductivity action limit was not breached during the year, but the ammonia action limit was breached on two occasions. In each case low rainfall and stagnating water were identified as the source and cleaning shores (and resumption of rainfall) improved results in subsequent tests.

Chart 1 2008 Surface Water Monitoring (Ammonia)

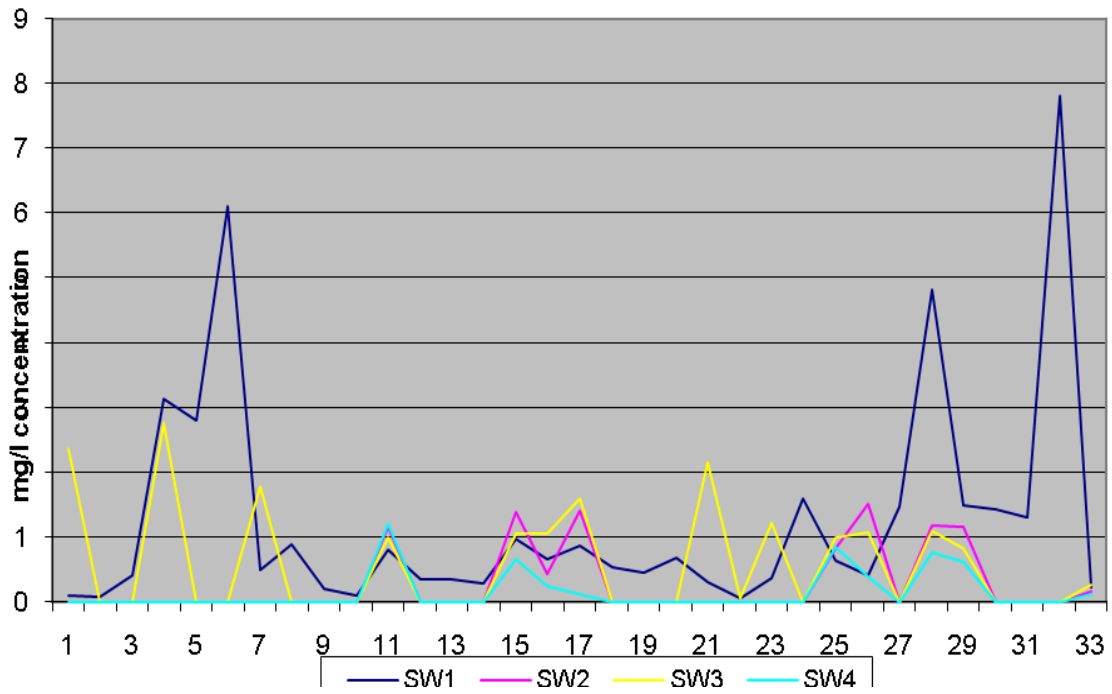
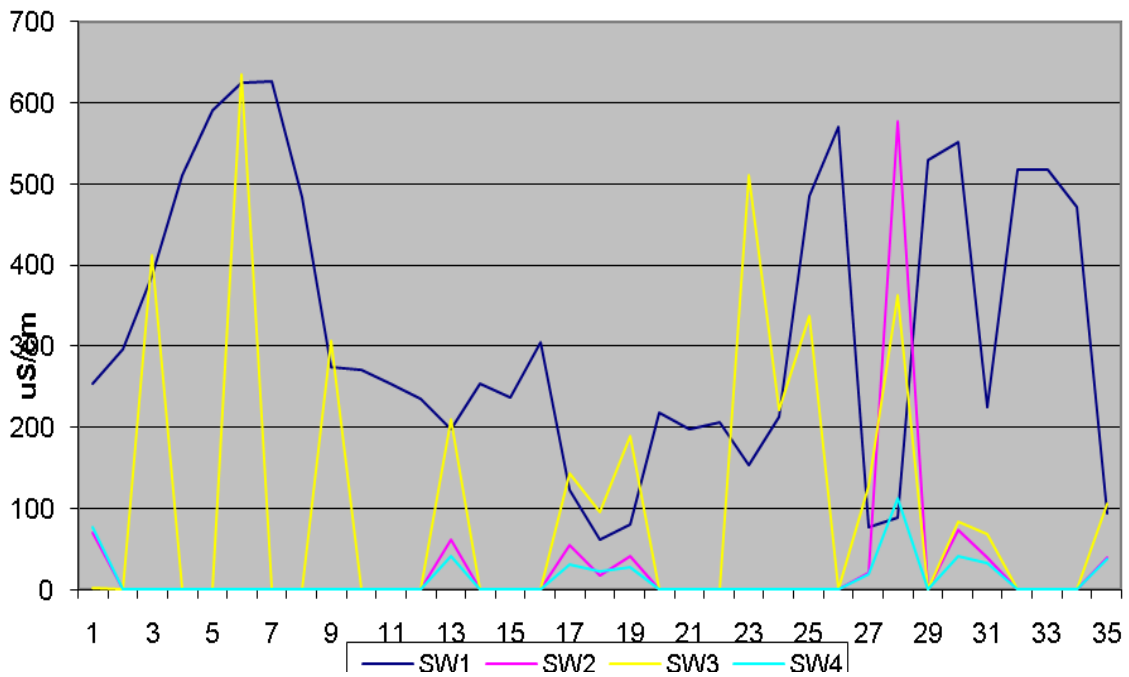


Chart 2 2008 Surface Water Monitoring (Conductivity)



4.2 Emissions to Foul Sewer

Site emissions to Foul Sewer are addressed in Condition 6 and Schedules B & C of Waste Licence W0177-03. Effluent from the truck wash area is collected and passed through two grit traps and an oil interceptor trap, then discharged to Waterford City Council's foul sewer. The runoff from the concrete apron at the front of the Materials Handling Building is also collected and passed through this interceptor and discharged to foul sewer. The Licence requires that emissions to foul sewer be measured quarterly. ELVs are expressed as concentrations and (in certain cases) mass balances. All sampling was carried out by trained VES personnel and analysis carried out by Envirolab Ltd. A summary of the results is given in table 4.2.

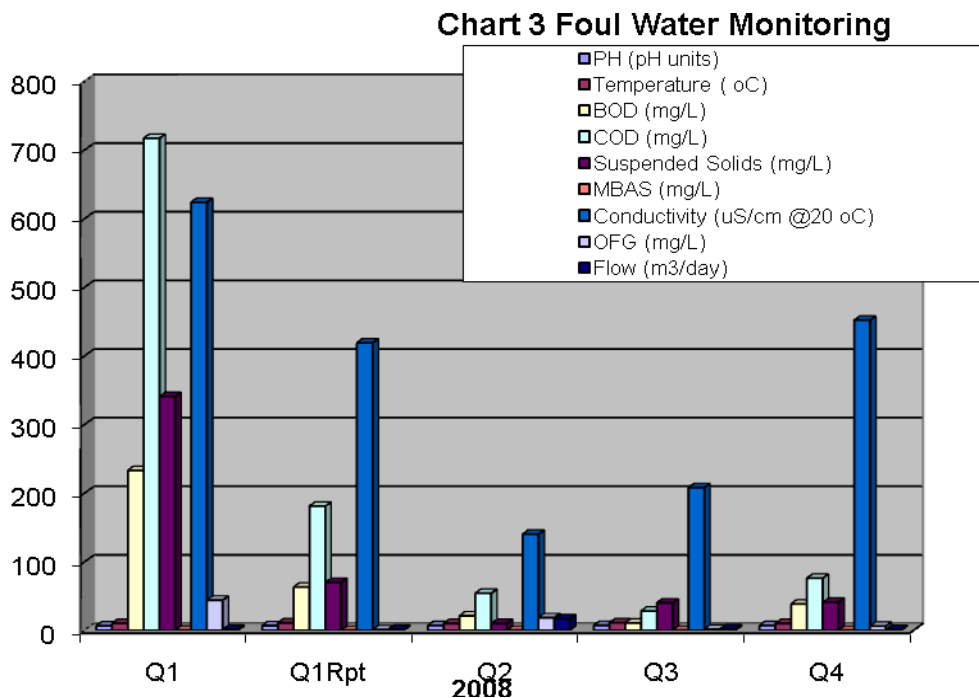
Table 4.2 Emissions to Foul Sewer 2008.

| Point FW 1 | pH | Cond. uS/cm | Temp. °C | OFG mg/L | OFG kg/day | SS mg/L | SS kg/day | BOD mg/L | BOD kg/day | COD mg/L | COD kg/day | MBAS mg/L |
|---------------|-----|----------------|-------------|-------------|---------------|------------|--------------|-------------|---------------|-------------|---------------|--------------|
| ELV | 6-9 | 1,500 | 18 | 10 | 0.5 | 300 | 1.0 | 400 | 1.0 | 1,100 | 2.7 | 0.2 |
| 18/01/08 | 6.5 | 623.8 | 10.1 | 44 | 0.07 | 341 | 0.53 | 233 | 0.36 | 717 | 1.1 | 0.13 |
| 18/02/08 | 6.8 | 419 | 10.9 | <1 | .0016 | 70 | 0.115 | 63 | 0.103 | 181 | 0.29 | 0.04 |
| 18/06/08 | 7 | 140.2 | 10 | 18.5 | 0.31 | 10 | 0.17 | 21.1 | 0.36 | 54 | 0.91 | <0.02 |
| 02/10/08 | 7.2 | 208 | 11 | 1.6 | .0033 | 40 | 0.082 | 10.7 | 0.022 | 28 | 0.06 | <0.02 |
| 29/10/08 | 7.0 | 452 | 10 | 6.2 | .008 | 41 | 0.053 | 38.4 | 0.05 | 76 | 0.1 | 0.03 |

Note: All samples were grab samples.

Analysis:

Foul water tests were largely compliant throughout 2008, with the exception of OFGs on two occasions and TSS once (all in concentration terms only). Drain and filter cleaning operations were stepped up to compensate, leading to the satisfactory results obtained in subsequent tests. Please see Chart 3 below for quarterly foul water graph.



4.3 Noise

Condition 4 and Schedules B & C specify that Noise Monitoring must be carried out on an annual basis at the facility.

The Southern Region Environmental Manager, Mr Charles McPeake and the local Environmental Officer carried out the noise monitoring at the facility and noise sensitive locations on 23rd December 2008 and conducted night-time and daytime noise monitoring surveys as per Conditions of Waste Licence W0177-03.

Noise measurements were recorded at the northern (N1), Southern (N2) and Western (N3) site boundaries and at 2 locations outside of the facility to the Northeast and North West of the site, as outlined in Table 4.3(a). The locations of the noise monitoring points are given in Appendix 1. Noise levels at the site boundary monitoring positions were compared to the 55 dB(A) daytime and 45 dB(A) night-time sound pressure levels specified the Waste Licence for the facility's noise sensitive locations. Measurements were also made of the LAeq, LA10, LA90 data.

Table 4.3(a) Noise Monitoring Locations

| Measurement No. | Reference No. | Monitoring Period | Description |
|-----------------|---------------|----------------------|------------------------|
| 1 | N1 | Day-time/ Night-time | Northern Site Boundary |
| 2 | N2 | Day-time/ Night-time | Southern Site Boundary |
| 3 | N3 | Day-time/ Night-time | Western Boundary |
| 4 | NS1 | Day-time/ Night-time | North West of Site |
| 5 | NS2 | Day-time/ Night-time | North east of Site |

The noise levels recorded at each monitoring location, including noise sensitive locations for night-time and daytime monitoring requirements are presented in Table 4.3(b) (below).

Noise Monitoring Conclusions:

The results of the noise measurements carried out show that the site is located in a high noise environment. Traffic noise during both day and night-time monitoring was a significant source of noise at all of the measurement locations.

The environmental noise assessment carried out at the site examined the background noise in the region and the noise generated by the waste management operations on the site. The following conclusions have been reached:

- The site is located in a high noise area, where traffic noise dominates.
- The nearest noise sensitive locations, (NS1 & NS2) is subject to significant traffic noise passing on the Ring road and this overrides any noise impact from the facility. This is

highlighted by the night-time noise levels since the Veolia site was not operating at this time and the L_{Aeq} recorded was still over 60dBA.

- The on-site measurement locations are also affected by other activities on adjacent premises.

In general, the noise emissions from the site are consistent with the general noise regime in the area. During the daytime, there were a diffuse range of noise sources from the industrial/commercial area around the site particularly from the high volumes of traffic in the area. The main noise source on-site was from traffic movements in the yard. No noise was audible from the waste transfer building. The dominant noise source in the locality, however, was from traffic on the near-by Ring road, with the exception of the monitoring at N2 where a power washer in an adjacent premises dominated proceedings.

Table 4.3(b) Nighttime and Daytime Noise Measurements recorded at Veolia Environmental Services (Ireland) Ltd., Waste Transfer Station - Six Cross Roads Business Park, Carrignard, Co. Waterford (23 & 24 December 2008).

| Reference No. | Description | End Time | $L_{Aeq\ 15mn}$ dB(A) | $L_{A10\ 15mn}$ dB(A) | $L_{A90\ 15mn}$ dB(A) |
|-------------------|------------------------|----------|--------------------------|--------------------------|--------------------------|
| Night-time | | | | | |
| N1 | Northern Site Boundary | 23:53 | 41.3 | 42.9 | 39.6 |
| N2 | Southern Site Boundary | 22:55 | 46.82 | 48.5 | 39.4 |
| N3 | Western Site Boundary | 23:33 | 42.45 | 44 | 35 |
| NS1 | North West of Site | 22:03 | 63.37 | 62.5 | 42.1 |
| NS2 | North East of Site | 22:16 | 62.25 | 62.2 | 37.9 |
| Day-time | | | $L_{Aeq\ 15mn}$ dB(A) | $L_{A10\ 15mn}$ dB(A) | $L_{A90\ 15mn}$ dB(A) |
| N1 | Northern Site Boundary | 14:54 | 62 | 62.6 | 57.4 |
| N2 | Southern Site Boundary | 14:22 | 66.52 | 50 | 59.5 |
| N3 | Western Site Boundary | 13:42 | 62.7 | 63.2 | 51 |
| NS1 | North West of Site | 16:06 | 66.72 | 67.4 | 44.7 |
| NS2 | North East of Site | 16:37 | 67.4 | 71.9 | 43.8 |

4.4 Air Quality and Climate

The two potential sources that could cause concern to the neighbouring businesses are unpleasant odours and excessive dust levels. Veolia Environmental Services has installed an odour neutralising system that greatly reduces the impact caused by fugitive odours. This system can be operated at the discretion of the Environmental Officer.

Three dust monitoring surveys were carried out during 2008, in compliance with Schedules B & C of the Waste Licence W0177-03 to determine the impact of site operations on the surrounding environment. Results of this monitoring are detailed in Table 4.4.

Table 4.4 Dust Monitoring locations

| <i>Monitoring Location</i> | <i>Results (mg/m2/day)</i> | | | <i>Waste Licence W0177-03 ELV (mg/m2/day)</i> |
|----------------------------|----------------------------|----------------------------|----------------------------|---|
| | <i>July 08</i> | <i>August-September 08</i> | <i>October-November 08</i> | |
| D1 North Eastern Boundary | 31.2 | 32.1 | <5 | 350 |
| D2 Northern Boundary | 43.0 | 52.4 | 12.2 | 350 |
| D3 Western Boundary | 46.9 | <5 | 10.4 | 350 |

Summary

Results were very satisfactory again in 2008, with all points well below ELVs. This shows the benefit of regular use of the road sweeper on site. There were no building works on site this year and all surrounding units and their associated surfaces in the business park are also completed. Additionally, the adjacent compost site (nearest D3) completed refurbishment of buildings and landscaping and developed their own road-sweeping routine. Finally, last year was particularly wet during the summer. All of these factors helped keep dust-sources to a minimum.

5.0 RESOURCE AND ENERGY CONSUMPTION

Resources consumed at the facility include electricity, diesel fuel, water and, to a lesser extent, steel wire and hydraulic oil. The major consumers of energy at the facility are as follows:

- Baling and ancillary (Electricity, Hydraulic Oil)
- Mobile Plant (Diesel, Hydraulic Oil)
- Road Fleet (Diesel)

Major items of energy and resource consumption at the facility during 2008, in comparison to 2007, is summarised in table 5.1, which follows. Annual throughput is taken to mean tonnages of waste in, i.e. tonnes of waste processed. In 2007, therefore, throughput was 52,054 tonnes. In 2008, throughput was virtually unchanged, 52,055 tonnes.

Table 5.1 – Resource Usage and Efficiency 2008 v 2007.

| Resource Category | 2008 | 2007 | % Change | 2008 Consumption per tonne throughput | 2007 Consumption per tonne throughput | % Change |
|------------------------------|---------|---------|----------|---------------------------------------|---------------------------------------|----------|
| Diesel Oil (litres) WTS only | 40,932 | 28,332 | +44% | 0.78 | 0.54 | +45% |
| Electricity (MWH) | 350.4 | 279.3 | +25% | 0.0067 | 0.0054 | +25% |
| Water Usage (litres) | 359,490 | 315,310 | +14% | 6.91 | 6.06 | +14% |

Analysis:

The installation of the baler during 2007 fundamentally altered the use of resources on site. 2008 was the first full year of operation. Likewise, late 2008 saw the addition of a shredder-granulator for hard plastics. We now produce high-compaction bales/IBC bags of shredded plastics of recyclables immediately ready for transport to a recycler, without intermediate destinations. Greater handling is required by lifting vehicles on site. However, fewer, heavier dispatches direct to recyclers - rather than shipped in loose bales for re-baling elsewhere prior to sending to recyclers - leads to transport fuel and energy savings to the entire recycling process.

However, as dispatch transport is contracted out, there is little scope for *measuring* energy savings to the account of Veolia Waterford WTS. In summary, 2008's electricity figures show an apparent deterioration, which hide an actual resource saving to the *entire* recycling process. Key performance indicators for average weights of outward shipments (see EMP14, Section 8) show the indirect benefits of these processes. It is also the case that (table 3.2) throughput of those recyclables undergoing the above compaction/shredding processes (i.e. card, paper, plastics) increased by 18% in 2008 v. 2007.

In the light of the 18% growth in relevant throughput and the greater efficiency in average dispatch weights, the electricity and diesel figures are acceptable. 2009 should produce a new full year of operation baler plus shredder-granulator baseline figure for our resource usage.

The **diesel** oil usage tracks that used on site by diggers, grabs and forklifts. There was a 44% rise in usage. Greater handling requirements account for this rise. Following review of vehicle requirements, one FLT was returned to the lessor in September.

The use of **water** is relatively fixed on this site and increasing throughput will cause very little extra demand. This year's figures were influenced by the numerous cleaning and flow-meter test runs required by the former foul water flow-meter installation (see Section 14).

As expected, **electricity** usage increased significantly in 2008 for the reasons stated above.

Energy efficiency audit/Water and Raw material usage reduction report.

Condition 7 of W0177-03 requires the completion of an energy efficiency/water reduction and raw materials usage minimisation audit within 12 months of the grant of the latest licence, i.e. by September 2007. Veolia added this as a target to be achieved through an environmental management project. The above is summary of the data assembled for this audit. See section 7 of this report.

6.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS.

Works completed in 2008

Following 2007's installation of a dry recyclables baler and the building of an extension to the dry recyclables area and the concurrent erection of a dedicated general waste handling area, infrastructural works were limited to installing an updated shredder/granulator system for our hard plastics intake.

The new granulator has the benefit of increasing the average weight of hard plastics that can be shipped in a container for use as raw material. The development was undertaken as part of our Objectives and Targets (see EMP14, Section 8).

Works planned for 2009

Veolia plans to improve its confidential shredding service in early 2009 through provision of a dedicated shredder (formerly shared with the hard plastics operation) and a neater internal processing area for this waste.

Operating and Standby Capacity

Further works undertaken to increase waste processing capacity and the provision of standby capacity at the site during the reporting period are summarised hereunder;

- Veolia maintains a sufficient number of contract transfer trailers to take waste to landfill from the facility. As described elsewhere, Veolia has an ongoing project (EMP14) to maximise the tonnage of dispatches in order to minimise the number of dispatches required. While this project minimises the unused capacity in each trailer, the number of trailers actually contracted during 2008 allowed an annual tonnage capacity of the trailers of approximately 32,750 tonnes (at our best monthly payloads in 2008) versus 31,850 tonnes actually shipped. This provided a sufficient operating capacity. In addition, our transport contractor has always proven capable of providing an extra trailer at a few hours notice, allowing an extra theoretical standby capacity of 7,650 tonnes (one 25 tonne load per day, six days per week, 51 weeks per year).
- A loading shovel is available at all times on-site in the case of a breakdown of the grab machine. It is unlikely that both machines will breakdown at the same time, however if such an event arises a replacement loading shovel can be provided the same day.

7.0 SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS

7.1 Definitions

Emissions: Any discharges or noise generated by activities at the Veolia Environment Services Limited facility at Six Cross Roads Business Park, Waterford City.

Targets: Goals or aims, which when achieved will result in a reduction in emissions from the facility or general improvement in the overall environmental performance of the facility.

Objectives: The means or actions by which targets will be achieved. This will include a measurable range of activities.

Target Date: The date or timeframe by which the ultimate target (aim or goal) will be achieved. Target dates may also be set for the completion of the objectives.

Responsible Person: Employee(s) with the overall responsibility of ensuring that the targets and objectives are completed on schedule.

7.2 ON THE STRUCTURE AND CHOICE OF OBJECTIVES & TARGETS 2009

EPA Licence W0177-03 (Condition 2.2) requires the following four objectives be included in the schedule:

- (i) Energy & Resource Efficiency,
- (ii) Use of Cleaner Technology,
- (iii) Cleaner Production and,
- (iv) Prevention, Reduction and Minimization of Waste.

The first is appropriate for inclusion as it stands. Furthermore, a specific target is required under this objective (Condition 7), i.e. performance of an audit of energy & resource efficiency (covering energy, water and raw material usage).

Given the nature of our business, we believe it is appropriate to merge the last three specified objectives, with the understanding that the subordinate targets will also likely have an energy and resource efficiency impact.

The final objectives fall under the separate headings of Environmental Monitoring and Environmental Management, identified as continuing objectives for this year. A new target under the environmental monitoring objective is set by an Agency directive of February 2009.

Under the environmental management objective, Site Environmental Reviews have identified Legislative Compliance as a permanent O&T going forward. These Objectives & Targets for 2009 were formally agreed at the Management Review of March 2009.

7.3 Schedule of 2009 Objectives & Targets:

What follows is the summary of 2009’s Environmental Objectives & Targets. We add the Environmental Management Programme project numbers which are dealt with in Section 8.0 and which will detail the progress made to date in achieving these objectives and targets.

Energy & Resource Efficiency

| Activity/Emission | Objective | Target | EMP Numbers: | Target Date | Status | Person Responsible |
|-------------------|--|---|--------------|---------------|---------|---|
| Energy Usage | Make 2008 energy efficiency audit data a permanent monitoring procedure. | Complete audit and identify appropriate KPIs for future years | EMP 08 | December 2009 | Ongoing | EHSO/Yard Supervisor Operations Supervisor |
| | Increase energy efficiency of fleet | Expand use of AdBlue diesel additive. | EMP 11 | End 2010 | Ongoing | |
| Water Usage | Identify opportunities for water use reduction | Reduce water usage where opportunity identified. | EMP 08 | December 2009 | Ongoing | EHSO |

Use of Cleaner Technology/Cleaner Production/Prevention, Reduction, Minimization of Waste

| Activity/Emission | Objective | Target | EMP Numbers: | Target Date | Status | Person Responsible |
|----------------------|--|---|--------------|---------------|-------------------------------|--|
| Process improvements | Improve confidential waste processing | Construct internal dedicated area to process confidential waste, utilising old shredder. | EMP 16 | May 2009 | Completed early February 2009 | Yard Supervisor |
| | Increase efficiency of operations | KPI: average weight of dispatch of MWM and Soft Recyclables – add specific KPI for hard plastics. | EMP 14 | December 2009 | Ongoing | Depot Manager/ Ops & Yard Supervisors |
| | Reduce recyclables losses / Maximise recyclables gains | KPI of Soft Recyclable process losses KPI of Hard Recyclable process gains improving on 2008’s results | EMP 15 | December 2009 | Ongoing | Depot Manager/ Ops & Yard Supervisors |

Environmental Monitoring

| Activity/Emission | Objective | Target | EMP Numbers: | Target Date | Status | Person Responsible |
|------------------------------|--|--|--------------|-------------|-------------------------------------|--------------------------|
| Groundwater | Complete comprehensive hydro-geological investigation of site. | Agree frequency and test parameters with Agency going forward after submission of second groundwater analysis. | EMP 12 | May 2009 | Ongoing. | Consultant/EHSO |
| Monitoring Quality Assurance | Improve quality of self-monitoring data. | Review documented procedures, interpretation condition, staff training & records, etc as per Agency circular 13/02/09. | EMP 17 | June 2009 | Ongoing | EHSO/Contract Laboratory |
| | | Complete installation of new foul water flow meter. | | May 2009 | Flume & power ready for connection. | |

Environmental Management

| Activity/Emission | Objective | Target | EMP Numbers: | Target Date | Status | Person Responsible |
|---------------------------------|------------------------|----------------------|----------------|---------------|---------|--------------------|
| Environmental Management System | Legislative Compliance | Zero non-compliances | All Activities | December 2009 | Ongoing | Management Team |

8.0 Environmental Management Programme

The projects in previous Environmental Management Programmes, designed to achieve pre-2008 Objectives and Targets were as follows:

EMP 1 – Improve Site Housekeeping.

EMP 2 - Maximise Quality of Emissions to Waters

EMP 3 – Expand processing of dry recyclables and organics

EMP 4 – Optimise truck movements (Energy Efficiency).

EMP 6 – Complete Waste Licence Review & Amendment.

EMP 7 – Develop training programmes.

EMP 9 – Complete construction of extensions to processing areas.

EMP 10 – Install modern high compression recyclables baler.

EMP 13 – Develop and establish a data management system for monitoring data.

Status: These projects were completed prior to 2008. Please see previous AERs for more details.

In accordance with Schedule F of Waste Licence W0177-03, the EMP progress report on completing 2008's Objectives & Targets (see previous AER) and our project proposals for 2009 are detailed below.

EMP 5 – Continue achievement of ISO-accredited integrated management systems (including environmental).

Report: The Veolia Group set itself the objective of implementing, ISO 14001 (environmental management) and OHSAS 18001 (health & safety) in an integrated management system across all its sites. Thus far, for the ISO 14001 element, environmental management system was reviewed and documents re-issued where necessary (Environmental Manual September 2005; Policy June 2005; Legal & Other Requirements November 2005; Objectives & Targets & Environmental Management Programme December 2005; Management Structure July 2005; Standard Operating Procedures June 2005; Emergency Preparedness & Response June 2005).

Completion of achievement of accreditation for ISO 9001 – 14001 & OHSAS 18001 was set for end 2007 in last year's O&T, but the loss of the National Health & Safety Manager towards the end of the year delayed preparations for the audit. However, progress continued to be made, and we were successful in achieving recommended accreditation to all three standards in the audit in early March 2008.

Target Completion Date: Commence March 2005, Complete July 2006 (when this EMP was originally set in 2005 O&T).

Actual Completion Date: March 10th 2008.

Proposal 2008 O&T: Continue progress towards achieving accreditation status in March 2008.

Status: **Completed in 2008.**

EMP 8 – Audit and assess energy and resource usage.

Report: As detailed in Section 5 of this AER, Veolia completed the initial study regarding energy usage in June 2008. The Licence also requires a study to assess the opportunities for water reduction and also for raw materials use. Summary findings included:

1. Electricity usage would continue to rise as 2008 would be the first full year of baler operation. Information not available at the time included the growth in baler-bound recyclables in 2008 (+18%) and the decision to install a shredder-granulator indoors for the hard plastics line. These increased the overall demand for electricity.
2. Gains to the environment due to the above compacting-shredding operations are not directly measurable, but are already indirectly measured elsewhere (EMP14).
3. Raw material usage was identified as baler wire alone. Data showed that usage was in line with production. Broken wire, necessitating re-baling, is rare. The small amount of waste wire thus produced is diverted to the scrap metal bay and not lost. No further work studying raw material usage was deemed worthwhile.
4. Diesel usage was increasing rapidly. The on-site vehicles using this facility were 2 x 360o Grabs, 2 x Manitou Teleporters, 2 x FLT's. Review of vehicle capacity as a result of the energy audit identified the opportunity to return one FLT to the lessor. This took place in September 2008.
5. Stricter control of access to the truck wash was identified as an opportunity to reduce water usage. In addition, a higher pressure truck wash unit would allow quicker completion of truck washing, with the expectation that less water would be used per cleaning. A hose repair here was identified as another corrective action. These works were completed in January 2009. Information not available at the time was the blockage caused by the old foul water flow meter system, necessitating repeated system cleanings, as well as flow trials in the vain attempt to get a calibration for that flow meter system.
6. It was agreed by the management team that the resource usage monitoring be continued and improved going forward.

Target Completion Dates: June 2008.

Actual Completion Date: June 2008.

Proposal 2009 O&T: Continue monitoring annually. Intention is to make this a permanent target.

Status: **Complete/Renewed.**

EMP 11 – Install & commence use of AdBlue exhaust treatment chemical.

Report: Latest generation trucks require (under EURO IV/V emission standards) the addition of a second tank supplying urea to the exhaust chambers of diesel trucks, converting oxides of nitrogen to pure nitrogen gas and water. Bunded tanks were supplied and installed and use of the system commenced once 2007-model trucks were purchased. The system promises to cut fuel costs by up to 5% once all the fleet has been replaced, so as the fleet is replaced over the next few years, NOx emission levels and energy efficiency will improve.

The facility will eventually have an all-AdBlue (or equivalent) fleet in the future and it has been decided (2008 O&T) to renew this project until complete fleet renewal (some years into the future). One extra vehicle was added to the fleet in January 2008 and another in May 2008.

Proposal 2008 O&T: Continue renewal of fleet with AdBlue-fitted models.

Proposal 2009 O&T: Continue renewal of fleet with AdBlue-fitted models.

Target Completion Date: As fleet is replaced with 2007 and later model vehicles.

Status: **Ongoing**.

EMP 12 – Perform comprehensive hydrogeological investigation.

Report: Condition 6.11 of W0177-03 requires the carrying out of a comprehensive hydrogeological investigation of the site. The scope, detail and structure of the report must be agreed in advance by the Agency. Veolia originally arranged with external consultants to prepare a submission to the Agency by July 2007, with completion of required survey (following Agency approval of the submission) by September 2007. However, numerous follow-up communications between the Agency and Veolia were required in the latter half of 2007 before a mutually-agreed plan of campaign was forthcoming. Permission was given to merge this project with an identical requirement of the adjacent Waterford City Council Compost Facility's Licence, sharing an up-gradient borehole with that adjoining site.

Borehole infrastructure was completed in February 2008, samples taken thereafter and very satisfactory groundwater results received at end-March. The first report was submitted April 2008. The initial reaction of the Inspector was to query the downstream borehole siting. However, in discussions with the Inspector in October 2008, we explained the necessity – due to access problems (both under and over ground) - for siting the borehole on our site, adjacent to the compost facility. We took a second set of samples in December 2008. Results were again satisfactory. Submission of this report is outstanding.

Target Completion Dates: 2008

Actual Completion Date: December 2008, Report submission due.

Status: **Ongoing**. Conclusion imminent.

EMP 14 – Increase efficiency of operations.

Report: Implementation of ISO procedures caused the identification of this objective in 2008 O&T. This project seeks to measure and maximise the process efficiency of general waste and 'soft' recyclable (cardboard, papers, plastic packaging) treatment on site. For 2009, we intend to add hard plastics (separate from hard recyclables) to the monitoring programme to measure the benefits of the new granulator.

We identified key performance indicators (KPIs) for measuring this: target average dispatch weights for each category of waste mentioned. These average dispatch weights are measured and assessed monthly.

They measure, among other activities, the success in compaction of general waste on loading and the success in producing standard weight/size bales of soft recyclables, having identified the ideal specifications that maximise use of dispatch container space.

Benefits to the environment include the minimisation of numbers of dispatches per tonne of 'product' shipped. Records of this (commercially sensitive) project are held on site for the Agency's consideration.

Target Completion Dates: Expected to be ongoing.

Proposal 2009 O&T: Continue to measure the identified – and expanded - KPIs and take action to improve them, where possible.

Status: **Ongoing.**

EMP 15 – Reduce recyclables process losses and maximise recyclables process gains.

Report: Implementation of ISO procedures also caused the identification of this objective in 2008 O&T. This project seeks to measure and maximise the process efficiency of general waste, ‘soft’ recyclable and ‘hard’ (wood, C&D, metal, glass etc) recyclables treatment on site.

We have also identified key performance indicators (KPIs) for measuring this.

They measure, among other activities, the success in retrieval of hard recyclables from general waste inputs and the success in minimising process losses of soft recyclables.

Benefits to the environment include the maximisation of recycling rate and minimisation of landfill. Records of this (commercially sensitive) project are held on site for the Agency’s consideration.

Target Completion Dates: Expected to be ongoing.

Proposal 2009 O&T: Continue to measure the identified KPIs and take action to improve them, where possible.

Status: **Ongoing.**

EMP 16 – NEW - Improve confidential waste processing.

Report: This new project, under the Cleaner Production O&T classification, was designed to inaugurate a dedicated confidential waste stream, utilising the former plastics and confidential shredder. Benefits to the environment are less risk of cross contamination and consequently to permit greater recycling of shred product, rather than its disposal. Internal installation of the current shredder minimises litter and noise risks.

Key to the development was the creation of a lockable store for the waste allowing for neater storage and processing in larger batches more efficiently.

Fitting out of the area was completed ahead of plan in February. Procedural review has still to be undertaken with the goal of complying with the terms of BS8470:2006 Destruction of Confidential Material.

Target Completion Date: May 2009

Status: Structural works complete February. **Ongoing.**

EMP 17 – NEW – Improve Environmental Monitoring.

Report: This new project, under the Environmental Monitoring O&T classification, was required to comply with directives from the Agency.

1. To review the relevant conditions of our Licence and the current environmental monitoring system (sampling, analysis, reporting, procedures, training/qualifications) to assure the quality of the monitoring system. Agency circular of 16/02/09.
2. To complete the installation of the new flow meter for the foul water line as required by the Licence. Inspection non-compliance October 2008.

Target Completion Date: June & May 2009

Status: **Ongoing.**

9.0 SUMMARY OF PROCEDURES DEVELOPED BY THE LICENSEE.

With the implementation of ISO procedures numerous amendments were made to the existing documentation during 2007. In certain cases site-specific documents were issued of formerly national Veolia group documents, in others nationally-approved common procedures were agreed, replacing the historic local issue SOPs.

A summary list of operating/environmental procedures for the facility (virtually all of which were reviewed or issued/re-issued in 2007) is described below. New or amended procedures during 2008 are highlighted in bold (excepting title change of Technical Manager).

Environmental Policy
Environmental Manual
Site Management Structure & Responsibilities (Environmental)
Site Environmental Review/Register of Environmental Impacts & Aspects
Schedule of Objectives & Targets (as Section 7)
Environmental Management Programme Project Reports (as Section 8)

Environmentally-Relevant Veolia Procedures and Flow Charts:

VP001 Document & Data Control Procedure
VP002 Control of Records
VP003 Management Review Procedure
VP005 Internal Audit Procedure
VP006 Control of Unacceptable Waste
VP007 Procedure for determination of significance of Environmental Aspect
VP008 Objective & Target Setting
VP010 Environmental Aspect Identification
VP011 Internal & External Communication Procedure
VP012 Documentation requirements for Waste Movements (Update to account for Dublin City Council – issued TFS brokerage registration and Annex VII documents from June 2008. Consequent non-applicability of Duty of Care documentation in these cases.)
VP014 Legislation Register
VP015 Corrective & Preventative Action Procedure
VP017 Environmental Incident Investigation & Reporting
VP018 Environmental Complaints
VFC002 Work Allocation – Customer Orders (local issue of procedure)
VFC003 Docket Processing (local issue of procedure)
VFC005 Yard Operation & Recycling (local issue of procedure)
VFC006 Maintenance of Equipment (local issue of procedure)
VFC008 Human Resources

Retained/New Issue Local Issue SOPs:

| | |
|------------------------------------|--------|
| Weekly Bund Inspection | EP 001 |
| Weekly Foul Interceptor Inspection | EP 002 |
| Weekly Surface Water Inspection | EP 003 |
| Environmental Monitoring | EP 004 |
| Weekly Nuisance Inspections | EP 005 |
| Loading of Waste Bins | EP 006 |
| Spillage Procedure | EP 007 |
| Weighbridge Operation | EP 008 |

Housekeeping
Emergency Response Procedures

EP 009
ERP

Condition 8.2 of the Waste Licence requires that a set of Emergency Response Procedures (ERP) be implemented at the facility. A document describing this procedure was last reviewed in September 2007 and was submitted to the Agency 03/10/07. Emergencies have been defined as unexpected events, which prohibit the transfer operation or reduce transferring capacity, or any occurrence resulting in non-compliance with the conditions of the Waste Licence. Potential emergencies at the facility can be grouped under the following headings:-

- Unable to load waste to transfer trailers.
- Unable to transfer waste to Landfill or Baling Station.
- Threats to worker health and safety.
- Threats to the environment – (e.g. spillages, fire, breaches of ELV)
- Emergency situations outside normal working hours.

The ERP document, which is maintained in the facility office, contains detailed procedures and a list of contact numbers to be used in the event of an emergency. The document is currently (March 2009) completing review in association with the National Health & Safety Manager.

New Procedures 2008, 2009 Plans

No entirely new procedures were instituted in 2008. For 2009, reviews will include the ERP. As referred to in the Objectives & Targets and EMP (Sections 7 & 8) the bulk of the “EP” series of local issue SOPs will be reviewed in the context of EMP17 project, while a new SOP for confidential waste handling is envisaged under EMP16, with a related amendment of VFC005 flow chart/diagrammatic procedure.

10. TANK DRUM PIPELINE AND BUND INSPECTIONS.

Condition 6.7 of the Waste Licence W0177-03 requires that the integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee at least once every three years. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

There are two bunds on-site which contain Waste Oil, Lubricant Oil, Engine Oil tanks and Diesel Oil and Odour Neutralising Solution tanks respectively. A weekly bund inspection is carried out for the presence of liquid from these tanks and leaks. The results of these inspections are maintained on file at the depot.

Re-test was due and performed in January-February 2006. The next test is due for 2009.

A copy of the latest (2006) Bund Integrity Certification can be found in Appendix 2.

11. REPORTED INCIDENTS AND COMPLAINTS SUMMARY.

11.1 Incidents Summary

Condition 11 of the Waste Licence requires that the Licence holder make written records of the environmental incidents. One incident was recorded during the reporting period and a summary of this is presented in Table 11.1. An outline of steps taken to minimise the emissions, prevent recurrence of future potential emissions and remedial actions undertaken is also presented.

Table 11.1 Recordable Incidents during 2008

| <i>Date</i> | <i>Record No.</i> | <i>Nature and ELV Exceedance</i> | <i>Cause</i> | <i>Corrective Action</i> |
|--|-------------------|---|---|--------------------------|
| 18/01/08 (laboratory report 14/02/08) | EI 2008-01 | Breaches in concentration (not mass) ELVs in Q1 Foul Water test. TSS = 341mg/l (ELV 300), OFG = 44mg/l (ELV 10). | Recent cleaning of foul water traps system or flow meter works had contaminated sample point itself with mud. | See (a) below |
| 18/06/08 (laboratory report 04/07/08) | EI 2008-02 | Flow breach of 16.85m ³ (ELV 2.5m ³ /day) in Foul Water test. OFG also over ELV, 18.5 mg/l (ELV 10) – latter unnoticed at time. | Heavy rainfall. | See (b) below |

Corrective Action

- (a) Informed Agency 15/02/08. Sample point already cleaned out 04/02/08. Re-sampled 18/02/08. Satisfactory results.
- (b) Informed Agency 16/07/08. Flow put down to rainfall and oft-stated impossibly low flow ELV of 2.5m³/day set by Agency in last Review (previously 763.2m³). Discussed with Inspector October 2008, who suggested we get opinion of Sanitary Authority. Despite numerous attempts to interest the latter in the issue, no communication has been forthcoming. On the OFG breach, extensive cleanouts of the system had taken place afterward and all results since have been satisfactory.

11.2 Complaints Summary

All complaints received at the facility are acknowledged, replied to verbally and /or in writing and recorded in the Complaints file on-site. There were no complaints received at the facility during the reporting period.

12.0 REVIEW OF NUISANCE CONTROLS.

Nuisance Control at Facility.

In compliance with condition 6.16 of the waste licence, weekly nuisance and litter inspections are carried out at the facility by the Environmental Officer. The site is inspected for evidence of vermin, odour, litter, mud, dust birds, flies. Each inspection is recorded, including any corrective action that may be taken as a result of the inspections.

Veolia has an on-going contract with *Prevent a Pest* (formerly *Pestguard Environmental Services*) for the control of vermin and fly control at the facility. This includes the provision and maintenance of twenty nine bait boxes for the control of rats and mice at the facility and 5 treatments annually for the treatment of insects at the facility between the months of May to September inclusive. **Pest control** includes the site offices, transfer and recycling building and any other area, which may be affected.

During the reporting period bait had been occasionally taken from some of the external bait boxes but there were no major infestations of vermin on site. Medium levels of activity occurred (and are expected) during winter at perimeter boxes, while for other times of the year activity was light or not detected. The contract was renewed in February 2007.

Litter picks occur on a daily basis by yard operators in the course of their daily duties, in compliance with condition 6.12. If **dust** is found to be a nuisance at the facility, the concrete surfaces of the yard are sprinkled periodically with water to suppress dust levels. **Mud** is removed from the facility by sweeping the yard with a road sweeper with wetting capabilities on a regular basis.

Odours are controlled on site by the removal of waste from the MHRB as soon as possible. There is also an odour control system in operation at the facility. The system can be operated automatically or manually by the environmental Officer and Operations Supervisor as needed. The system was used throughout the year.

The nuisance controls in place were found to be effective in preventing nuisance to the public. No complaints were received from the public on these (or other) issues in 2008.

13.0 REPORTS ON FINANCIAL PROVISION/MANAGEMENT STRUCTURE/ COMMUNICATIONS PROGRAMME

13.1 Financial Provision

In accordance with Condition 12 of the Waste Licence, Veolia Environmental Services Limited submitted an Environmental Liabilities Risk Assessment (performed June 2004) for the approval of the Agency on March 15th 2006. Measures taken by Veolia to prevent environmental damage have been highlighted elsewhere in this AER and were addressed in the risk assessment under the following headings:

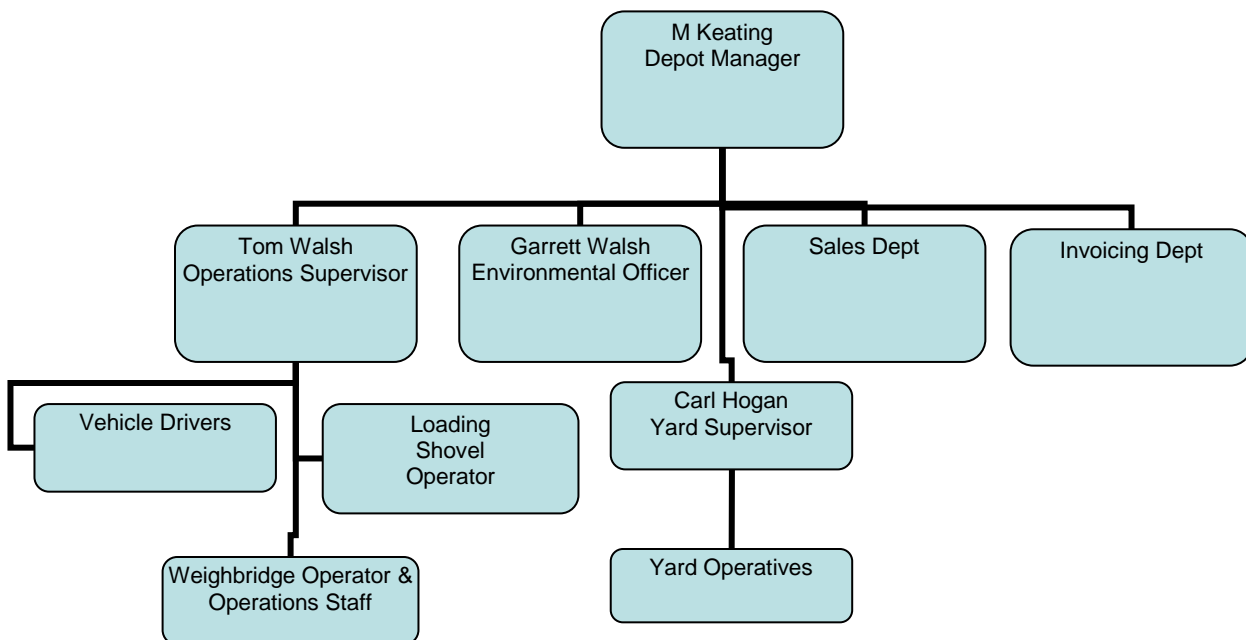
- Emissions to Air, Surface Water, Groundwater, Noise.
- Equipment Breakdown or Temporary Site Closure.
- Significant Spillages on Site.
- Fire at the facility.
- Decommissioning.

The submitted Environmental Liabilities Risk Assessment (to the UK DEFRA Guidelines) recommended that the company set aside 130,000 Euro as a financial provision to cover worst case of abnormal operations at the facility. This could be in the form of a bond, financial allocation or an insurance premium or another form agreed with the Agency, which will guarantee the availability of funds for potential liabilities arising from:

- Emergency situations occurring from the operation of the site
- Closure and decommissioning of the site.

The Agency approved this submission with the award of the current waste licence W0177-03 on 24th August 2006. In a request for information in August 2008, the Agency sought clarification of the status of the site's ELRA (and subsidiary reports). The request was answered in September 2008, summarising the previous submissions. The Agency has not yet responded to the submission.

13.2 Management Structure 2008



13.3 Communications programme

In compliance with condition 2.2.2.7 of the waste licence, a communications programme is maintained to ensure that members of the public can obtain information on the environmental performance of the company at all times. During the reporting period there were no requests from members of the public to inspect any of the records and files listed below. During customer audits however, environmental records, such as incident files, complaints files etc were inspected. Company brochures listing a range of services and company history are also available on request.

The list of documents available for inspection is as follows:

- Training Records
- Communication Records
- Environmental Monitoring Results
- Complaints Register
- Non-Compliance Records
- Corrective Action Records
- Unacceptable Waste Records
- Pest/Vermin Control Records
- Daily transactions for incoming and outgoing vehicles
- Current Waste Licence
- Waste Licences of Destination Facilities
- Waste Collection Permits of Hauliers
- Veolia Safety Statement
- Daily/Weekly Inspection Reports
- Emergency Response Procedures
- Environmental Procedures
- Tonnage Records
- Recycling Information
- Material Safety Data Sheets

All telephone and written requests are answered verbally if this is sufficient or in writing if required. In any case the Environmental Officer will reply to all such requests within 5 working days. All public visits for inspection of records must be prearranged with the Environmental Officer. Information regarding the company can also be found on the company's web site at www.veolia.ie, or by contacting

The Environmental Officer, Veolia Environment Services Limited (Ireland), Six Cross Roads Business Park, Waterford City.

14.0 VOLUME OF WASTEWATER PRODUCED AND TRANSPORTED OFF SITE.

14.1 Volume Wastewater Produced

The volume of wastewater produced on site for the reporting period was, an increase of 42% on 2007's figure of 842.45m³. Two factors caused this increase. Firstly, rainfall – the main determinant of our flow – was at record levels last year. Secondly, the flow meter system originally fitted caused obstructions to the foul water flow, necessitating major cleanouts until disconnected from the system late in the year. The liquid material was transferred off site via the foul water drainage network system to the municipal treatment system.

| Month | Volume (m³) |
|--------------|-------------------------------|
| January 08 | 105.34 |
| February 08 | 62.76 |
| March 08 | 88.33 |
| April 08 | 64.31 |
| May 08 | 71.21 |
| June 08 | 113.33 |
| July 08 | 134.41 |
| August 08 | 144.18 |
| September 08 | 123.54 |
| October 08 | 151.15 |
| November 08 | 68.72 |
| December 08 | 69.78 |
| TOTAL | 1197.06 |

14.2 Volume Wastewater Transported off-site

Permanent hiring of the road sweeper (which also has a drain cleaning function) has allowed much more frequent cleaning of shores and grit traps, with solids disposal to general waste. This has maintained the shore & trap efficiency and minimised silt deposition in the final sump on each drainage line, the oil-water separator. In past years both silt and oil-water interceptor contents were pumped into a tanker for co-disposal.

Frequent shore and grit trap cleanouts that are now possible have greatly increased the length of time between oil-water separator emptying. The latter was performed in February 2008 and included the full replacement of separator filters and improvements to debris traps. The minor volume of oil removed from the three oil-water separator cylinders was disposed into the on-site waste oil bund.

15.0 OTHER ITEMS SPECIFIED BY THE AGENCY.

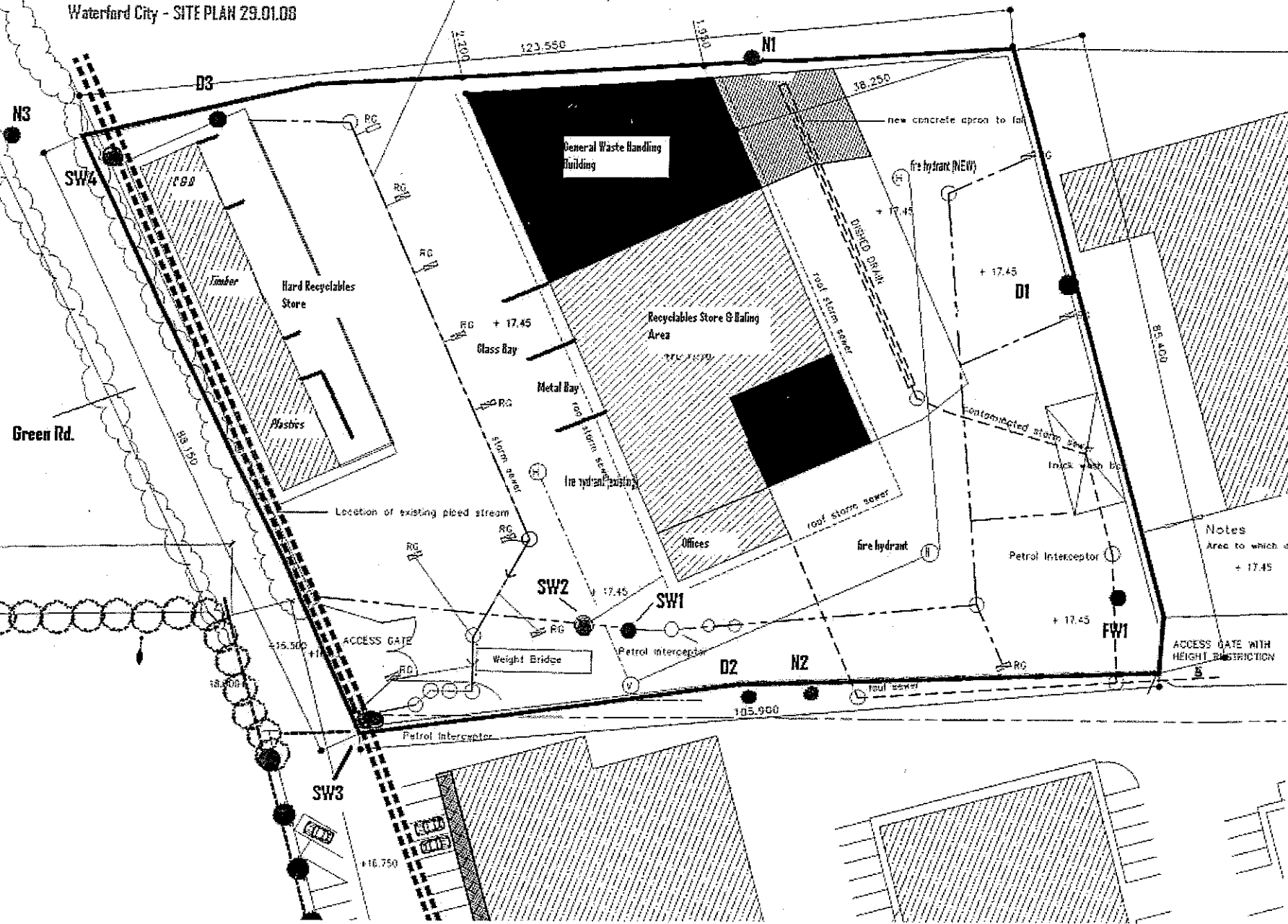
There were no other items specified by the Agency for the reporting period.

APPENDIX I

Site Plans

Veolia Environmental Services (Ireland) Ltd
 Six Cross Roads Business Park
 Waterford City - SITE PLAN 29.01.08

all yard storm water to be collected connected to petrol
 interceptor prior to discharge into storm water network



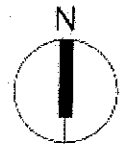
NOTE:
 all works to be checked on site by the contractor before and after completion
 throughout the life period of the structure/structure
 Final drawings may be issued from the office

Surface Water Monitoring Points:
 SW1 258328 E, 109461 N
 SW2 258317 E, 109461 N
 SW3 258326 E, 109463 N
 SW4 258353 E, 109506 N

Foul Water Monitoring Point:
 FW1 258381 E, 109463 N

Road Monitoring Points:
 D1 258372 E, 109463 N
 D2 258336 E, 109448 N
 D3 258269 E, 109514 N

Noise Monitoring Points:
 N1 258326 E, 109519 N
 N2 258352 E, 109463 N
 N3 258243 E, 109511 N



Notes
 Area to which application relates indicate in colour
 + 17.45

| # | ADDITIONAL TIME REQUIRED | DATE | BY |
|---|--------------------------|----------|----|
| 1 | 20/01/08 | 20/01/08 | JC |
| 2 | 20/01/08 | 20/01/08 | JC |

STAGE:
 PRELIMINARY TENDER
 PLANNING CONSTRUCTION
 FIRE CERT AS BUILT

STATUS
 FIRE CERT Further Information

WORK
 EXPANSION OF WASTE TRANSFER FACILITY AT SIX CROSS ROADS BUSINESS PARK WATERFORD

TITLE
 SITE PLAN

SCALE 1:250
 DATE 18.07.07
 DRAWN BY J.C. JOHNSON
 PROJ NO BR03
 1.02B

MICHAEL AHEARNE & ASSOCIATES LTD
 Consulting Engineers
 100 THE PLAZA, GARDIN, 100 THE PLAZA, GARDIN, 100 THE PLAZA, GARDIN
 051 200000 Fax 051 200000
 051 200000 Fax 051 200000

APPENDIX II

Bund Integrity Certificate

WILLIAM HOGAN & Associates Architects

St. Catherines Hall, Catherine Street, Waterford.
Tel: (051) 853633 • Fax: (051) 841242 • Mobile: 087 2227652 • wfhog@eircom.net

Mr. Michael Storan
ONYX Ireland Ltd.,
Six Cross Roads Business Park
Kilbarry
WATERFORD

14/2/06

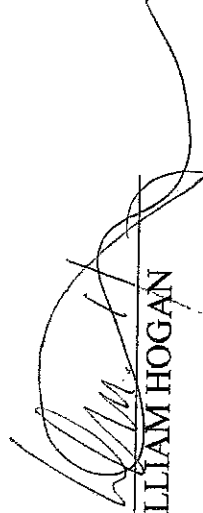
Re: ONYX Ireland Ltd, - Bunding to Oil Tanks
Our Ref: 694/97

Dear Mr. Storan,

I, William Hogan, Architect hereby confirm that I carried out a visual inspection at the above building on Tuesday 14th February 2006.

I further confirm that the said bunding is leakproof, a flooding test having been carried out over a 1 month period.

Yours sincerely,


WILLIAM HOGAN

APPENDIX III

E-PRTR 2008 (pp5)



Environmental Protection Agency

AER Returns Worksheet

Version 1.1.03

| | |
|-----------------------|------|
| REFERENCE YEAR | 2008 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|---|
| Parent Company Name | Veolia Environmental Services (Ireland) Limited |
| Facility Name | Veolia Environmental Services (Ireland) Limited |
| PRTR Identification Number | W0177 |
| Licence Number | W0177-03 |

Waste or IPPC Classes of Activity

| No. | class name |
|------|---|
| 3.12 | Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule. |
| 3.13 | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. |
| 4.2 | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). |
| 4.3 | Recycling or reclamation of metals and metal compounds. |
| 4.4 | Recycling or reclamation of other inorganic materials. |
| | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. |
| 4.13 | Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule. |

| | |
|---|------------------------------|
| Address 1 | Carrighard |
| Address 2 | Six Cross Roads |
| Address 3 | Business Park |
| Address 4 | Waterford City |
| Country | Ireland |
| Coordinates of Location | 0.000 |
| River Basin District | IE-South Eastern |
| NACE Code | 382 |
| Main Economic Activity | Waste treatment and disposal |
| AER Returns Contact Name | Garrett Walsh |
| AER Returns Contact Email Address | garrett.walsh@veolia.ie |
| AER Returns Contact Position | Environmental Officer |
| AER Returns Contact Telephone Number | 051-333922 / 051-382270 |
| AER Returns Contact Mobile Phone Number | 086-1705034 |
| AER Returns Contact Fax Number | 051-333945 |
| Production Volume | 52200.0 |
| Production Volume Units | tonnes |
| Number of Installations | |
| Number of Operating Hours in Year | 4380 |
| Number of Employees | 28 |
| User Feedback/Comments | |
| Web Address | www.veolia.ie |

2. PRTR CLASS ACTIVITIES

| | |
|-----------------|---|
| Activity Number | Activity Name |
| 5c | Installations for the disposal of non-hazardous waste |

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

| | |
|--|--|
| Is it applicable? No | |
| Have you been granted an exemption? No | |
| If applicable which activity class applies (as per Schedule 2 of the regulations)? | |
| Is the reduction scheme compliance route being used? | |

4.3 RELEASES TO WASTEWATER OR SEWER

PRTR : W0177 Facility Name : Veolia Environmental Services (Ireland) Limited | Form No : W0177 | 30/03/2019 16:39

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER

| No. Annex I | Name | M/C/E | Method Code | Description or Designation | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
|-------------|------|-------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| QUANTITY | | | | | | | | |
| | | | | | | 0.0 | 0.0 | 0.0 |

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER

| Pollutant No. | Name | M/C/E | Method Code | Description or Designation | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
|---------------|------------------------|-------|-------------|---|------------------|-------------------|------------------------|----------------------|
| METHOD | | | | | | | | |
| Method Used | | | | | | | | |
| 303 | BOD | M | PER | Annual average (5 day) based on APHA 2005 4500 OC 5210B) x annual foul water flow | EW1 | 87.87 | 0.0 | 0.0 |
| 306 | COD | M | PER | Annual average (Lab in-house method based on APHA 2005 5220-D) x annual foul water flow | EW1 | 262.82 | 0.0 | 0.0 |
| 308 | Chemicals (as MPAS) | M | PER | Focus method based on HMSTO Blue Book) x annual foul water flow | EW1 | 0.057 | 0.0 | 0.0 |
| 314 | Fats, Oils and Greases | M | PER | Annual average (Calculation APHA 2005 5220-D) x annual foul water flow | EW1 | 17.07 | 0.0 | 0.0 |
| 240 | Suspended Solids | M | PER | Annual average (Gravimetric method based on APHA 2005 2540-D) x annual foul water flow | EW1 | 120.08 | 0.0 | 0.0 |

Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

PRTR#: W0177 | Facility Name: Veolia Environmental Services (Ireland) Limited | Ename: W0177_2006.xls | Return Year: 2006

| Transfer Destination | European Waste Code | Hazardous | Quantity T/Year | Description of Waste | Waste Treatment | Method Used | |
|----------------------|---------------------|-----------|-----------------|----------------------|-----------------|-------------|-------------|
| | | | | | | M/C/E | Method Used |

| | | | | | | | | | | | | | | | | | |
|--------------------|----------|----|----------|--------------------------------------|---|-----|--------------------|---------------------------|-------------------------|--------------------|--------------------|---------------|--------------------|---|----------|--|--|
| Within the Country | 10 01 01 | No | 247.62 | Bottom Ash from wood-fuelled furnace | M | | Offsite in Ireland | W0129-02 | Naull, Co Dublin | McCurmish Landfill | Offsite in Ireland | W0129-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 17 01 07 | No | 4095.86 | Construction & Demolition Wastes | M | R11 | Offsite in Ireland | (Joseph Murphy) WPS1/07 | Dunhill, Co Waterford | | Offsite in Ireland | 02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 03 01 | No | 20697.18 | Mixed Waste Municipal | M | D1 | Offsite in Ireland | Cork County Council W0068 | Youghal, County Cork | | Offsite in Ireland | 02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 03 01 | No | 1126.67 | Mixed Waste Municipal | M | D1 | Offsite in Ireland | Carlow County Council | Powerstown, Co Carlow | | Offsite in Ireland | W0025-01 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 03 01 | No | 26.94 | Mixed Waste Municipal | M | R12 | Offsite in Ireland | W0082-02 | Dock Road, Limerick | | Offsite in Ireland | W0082-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 02 07 01 | No | 61.22 | Grain chaff from mill | M | R3 | Offsite in Ireland | 01 | Cappoquin, Co Waterford | | Offsite in Ireland | 01 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 36 | No | 2.99 | WEEE | M | R12 | Offsite in Ireland | Fermit 02/2008B | Adry, Co Kildare | | Offsite in Ireland | W019-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 36 | No | 12.36 | WEEE | M | R12 | Offsite in Ireland | KMK Metals W0113-03 | Tullamore, Co Offaly | | Offsite in Ireland | W019-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 01 | No | 27.08 | Cardboard Packaging | M | R3 | Abroad | VIETNAM | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 01 | No | 519.8 | Cardboard Packaging | M | R3 | Abroad | NETHERLANDS | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 01 | No | 1221.34 | Cardboard Packaging | M | R3 | Abroad | NETHERLANDS | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 01 | No | 6296.31 | Cardboard Packaging | M | R3 | Abroad | CHINA | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 01 | No | 1168.31 | Cardboard Packaging | M | R3 | Abroad | INDIA | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 02 | No | 80.82 | Plastic Packaging | M | R3 | Abroad | CHINA | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 02 | No | 398.04 | Plastic Packaging | M | R3 | Abroad | CHINA | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 02 | No | 18.6 | Plastic Packaging | M | R3 | Abroad | NETHERLANDS | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 06 | No | 526.22 | Mixed Packaging | M | R3 | Offsite in Ireland | Recycling) WMMW/1205 | Tipperary | | Offsite in Ireland | W0082-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 06 | No | 291.26 | Mixed Packaging | M | R3 | Offsite in Ireland | W0082-02 | Dock Road, Limerick | | Offsite in Ireland | W0082-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 11 | No | 90.48 | Textiles (Carpet offcuts) | M | R3 | Offsite in Ireland | W0082-02 | Dock Road, Limerick | | Offsite in Ireland | W0082-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 07 | No | 829.96 | Glass Packaging | M | R5 | Offsite in Ireland | 015/05/WPT/CL | Clare | | Offsite in Ireland | 015/05/WPT/CL | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 01 | No | 429.78 | Paper | M | R3 | Abroad | NETHERLANDS | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 01 | No | 133.1 | Paper | M | R3 | Abroad | NETHERLANDS | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 01 | No | 70.72 | Paper | M | R3 | Abroad | INDIA | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 01 | No | 50.74 | Paper | M | R3 | Abroad | GERMANY | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 03 | No | 16.34 | Wooden Packaging (shred) | M | R10 | Offsite in Ireland | W0191-01 | Wexford County Council | | Offsite in Ireland | W0191-01 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 03 | No | 11.46 | Wooden Packaging | M | R3 | Offsite in Ireland | W0082-02 | Dock Road, Limerick | | Offsite in Ireland | W0082-02 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 15 01 03 | No | 1835.92 | Wooden Packaging | M | R3 | Offsite in Ireland | WMMW/06/07 | Tipperary | | Offsite in Ireland | WMMW/06/07 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 17 04 02 | No | 4.32 | Aluminium | M | R4 | Offsite in Ireland | 02/2008 | Kilkenny | | Offsite in Ireland | 02/2008 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 40 | No | 313.54 | Mixed Metals | M | R4 | Offsite in Ireland | 02/2008 | Kilkenny | | Offsite in Ireland | 02/2008 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 40 | No | 119.52 | Mixed Metals | M | R4 | Offsite in Ireland | 20/4/05 | Dublin Hill, Cork City | | Offsite in Ireland | 20/4/05 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 39 | No | 357.02 | Hard plastic production offcuts | M | R3 | Offsite in Ireland | 07/04 | Coolhill, Co Cavan | | Offsite in Ireland | 07/04 | Offsite in Ireland | M | Weighted | | |
| Within the Country | 20 01 39 | No | 630.46 | Hard plastic production offcuts | M | R3 | Abroad | FRANCE | | | Abroad | | Offsite in Ireland | M | Weighted | | |
| To Other Countries | 20 01 39 | No | 151.82 | Hard plastic production offcuts | M | R3 | Abroad | CHINA | | | Abroad | | Offsite in Ireland | M | Weighted | | |

| Transfer Destination | European Waste Code | Hazardous | Quantity T/Year | Description of Waste | Waste Treatment Operation | M/C/E | Method Used | Location of Treatment | Name and Licence / Permit No. of Recoverer / Disposer | Address of Recoverer / Disposer / Broker | Recovery / Disposal Site (HAZARDOUS WASTE ONLY) | Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|-----------------|----------------------|---------------------------|-------|-------------|-----------------------|---|--|---|--|
| | | | | | | | | | | | | |

To Other Countries: 20:01:39

No 13.06 Hard plastic production offcuts

R3 M Weighed Abroad UNITED KINGDOM UNITED KINGDOM

Method Used

Select a row by double-clicking the Description of Waste then click the delete button