



Wyeth Nutritionals Ireland

ANNUAL ENVIRONMENTAL REPORT 2009

Wyeth

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1.0 OPENING COMMENTS

The site's Integrated Pollution Prevention and Control licence requires that an Annual Environmental Report is submitted to the Environmental Agency each year.

This report for 2009 outlines the environmental performance of Wyeth Nutritionals Ireland and also sets out a programme of work to be completed during 2010.

It is submitted along with additional data required under S.I. No. 123 of 2007, *European Communities (European Pollutant Release and Transfer Register) Regulations 2007*, requiring the reporting of data through a web-facilitated reporting system.

Copies of the web-facilitated reports for 2009 are included Appendix 1.

Brian Shiel
EHS Manager

2.0 REPORT

2.1 INTRODUCTION

This is the fourth Annual Environmental Report (AER) submitted by Wyeth Nutritionals Ireland in compliance with Condition 2.9.2 of its Integrated Pollution and Prevention Control (IPPC) Licence Register No. P0395-02. Previous reports were submitted in compliance with conditions of its Integrated Pollution Control (IPC) licences Register No's. 678 and 395.

The report is compiled with regard to the *Guidance Note for Annual Environmental Report* issued by the Environmental Protection Agency (EPA) and summarises the company's environmental performance from January 1, 2009 to December 31, 2009.

Since the report frequently refers to conditions and schedules contained in the IPPC licence, it is recommended that it be read in conjunction with the licence and amendments, which can be obtained from the Environmental Protection Agency web site at: <http://www.epa.ie/>.

2.1.1 Licence Register Number

P0395-02 (The initial IPC licence for the site {Reg No. 395} was issued on October 27th, 2000. IPC licence Reg. No. 678 was issued on January 23rd, 2004 and two amendments have been made with amendment A added during 2006 and Technical Amendment B added during 2007.

2.1.2 Classes of Activity

Principle Class of Activity

– The manufacture of dairy products where processing capacity exceeds 50 million gallons of milk equivalent per year.

Other Classes of Activity

– The burning of any fuel in a boiler or furnace with a nominal heat output exceeding 50 MW.

2.1.3 Site Name

AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland

2.1.4 Address

Askeaton
Co. Limerick
Ireland

2.1.5 Activities at the Site

Wyeth Nutritionals Ireland commenced operations with a staff of just 70 employees in 1974 and since then over ten major expansion projects have been implemented across the site resulting in a 400,000 sq. ft. production facility on a 36-acre site today.

It's a state of the art manufacturing facility and the constant upgrading over the years has kept the manufacturing process as one of the most sophisticated operations of its kind. The plant is highly automated from Warehousing through Processing, Drying and Packaging and is operated by a team of around 600 highly skilled and trained people.

Wyeth produces a full line of nutritional products, including infant formulas, follow-on formulas, growing-up milks, and prenatal and adult supplements. The nutritional products are manufactured to pharmaceutical standards, and research is carried out to develop new and

improved products to meet the needs of both the healthy and nutritionally compromised infants the world over. The site at Askeaton currently has a capacity to manufacture approximately 52 million kilograms of powdered formula on an annual basis.

Products are produced in powder and liquid form and come in different pack presentations:

- Powdered formula in cans
- Powdered formula in sachets
- Liquid nutritional products in bottles
- Liquid nutritional products in Tetra bricks.

The liquid nutritional products or ready-to-feed (RTF) formulas are mainly supplied to Maternity Hospitals all over the world and are used either to supplement breast-feeding or, as the main source of nutrition.

Manufacturing at the site is divided into (1) Powder Production and Packaging, and (2) Liquid Production and Packaging.

(1) Powder Production

Powder manufacturing involves the eduction of batches of dry powders into compounding tanks where they are reconstituted with fat blend, water and added essential minerals. The compounded formula is filtered, homogenised, pasteurised, cooled and stored for a period in holding tanks where water-soluble vitamins are added before pumping through an evaporator and into a dryer. The evaporator and dryer increases the solids content producing an agglomerated powder. Steps of this process are shown in *Fig. 1* below.

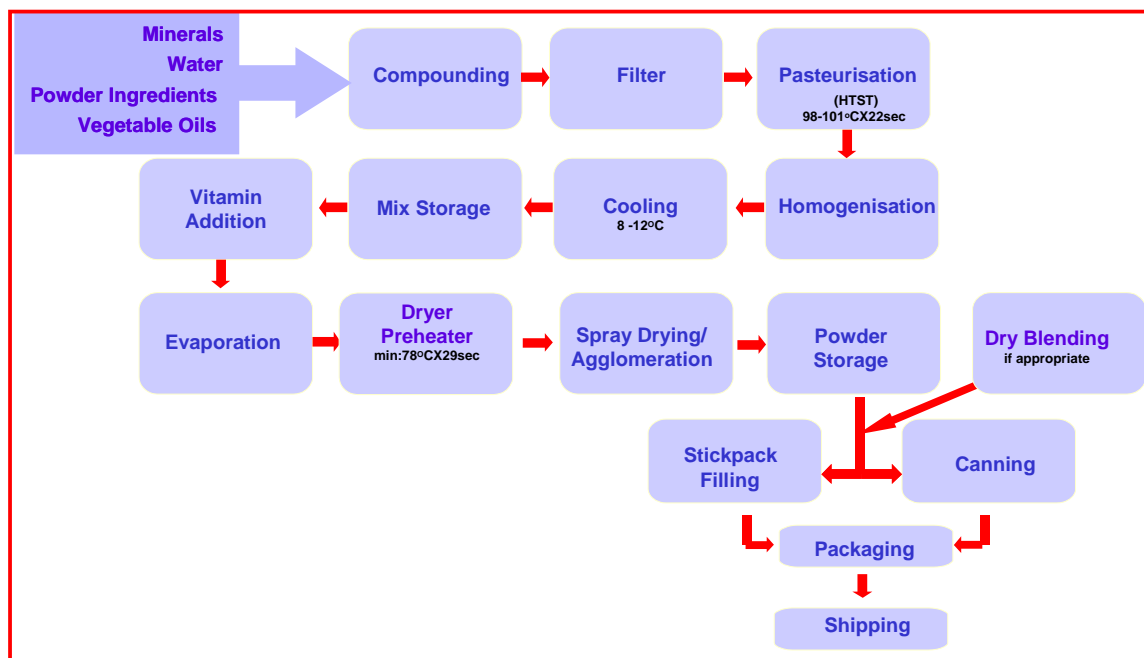


Figure 1: Powder production process

The powder is filled into easy-open cans along with a plastic scoop. Air in the can is removed and replaced with nitrogen before each can is hermetically sealed and packaged for shipment. In addition to filling into cans, the powder is also packaged in sachets.

Most of the cans used to package the product are produced on site from sheets of tin plate.

(2) Liquid Production

Liquid formula production starts by adding skim milk powder to deionised water in a compounding tank. Fat oil blends and bulk powder ingredients are added in a defined sequence and the mix is agitated at high speed. The compounded mix is pasteurised and cooled prior to double homogenisation.

After overnight storage the mix is standardised to desired total solids and vitamins are added before being sterilised, homogenised and stored in aseptic storage tanks.

The sterilised product is either filled into 250ml aseptic tetra packs or 100ml pre-sterilised glass bottles, which are labeled, boxed and palletised for shipping. The steps of this process are shown in *Fig. 2* below.

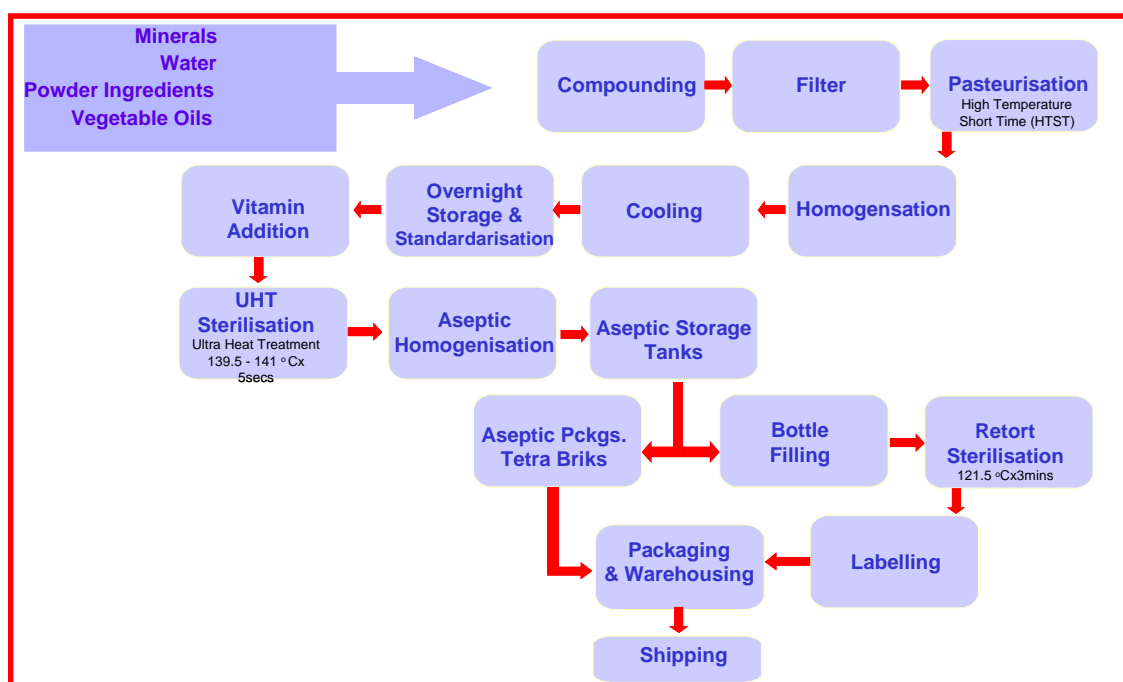


Figure 2: Liquid production process

Support Activities

To support the manufacturing operations on the site, a number of on-site utilities are required to provide the raw materials, special conditions and services necessary for the manufacturing process. These include: Water Treatment, Steam Raising, Chilled Water, Waste Water Treatment, HVAC, Compressed Air and Nitrogen Storage. In addition, there is a Combined Heat and Power (CHP) Plant on the site to efficiently generate electricity and raise steam from natural gas.

2.1.6 Environmental Policy

Wyeth

Wyeth Nutritionals Ireland, Environmental Policy

Wyeth Nutritionals Ireland recognises its responsibility to reduce the environmental impact of its activities and to ensure the sustainability of its operations. It is committed to conducting its activities in an environmentally responsible manner.

This is achieved by developing its environmental stewardship towards best practice and minimising any adverse impacts of its operations on the environment while developing, manufacturing and distributing high quality Nutritional Products.

To fulfill this commitment Wyeth Nutritionals Ireland will:

- continually improve raw material utilisation efficiency through modifying process design, materials elimination, substitution, minimisation, reuse and recycling;
- encourage resource conservation and waste avoidance;
- comply with or exceed applicable legal requirements and other requirements that relate to the environmental aspects of its activities, products and services;
- use energy responsibly and efficiently;
- sustain and develop emergency preparedness and response capability;
- maintain and enhance an environmental management programme for continual improvement, set objectives and, perform regular evaluation and verification of environmental performance;
- prevent pollution through emission minimisation, abatement, monitoring and control;
- through awareness and training, promote environmental responsibility across all levels of the organization to ensure that personnel working for and on its behalf are aware of this policy and individual obligations.

This policy will be made available to members of the public and other interested parties.

Signed: _____

Jim Shorten
Managing Director

Date: 04/07/06

2.1.7 Environmental Management Organisation

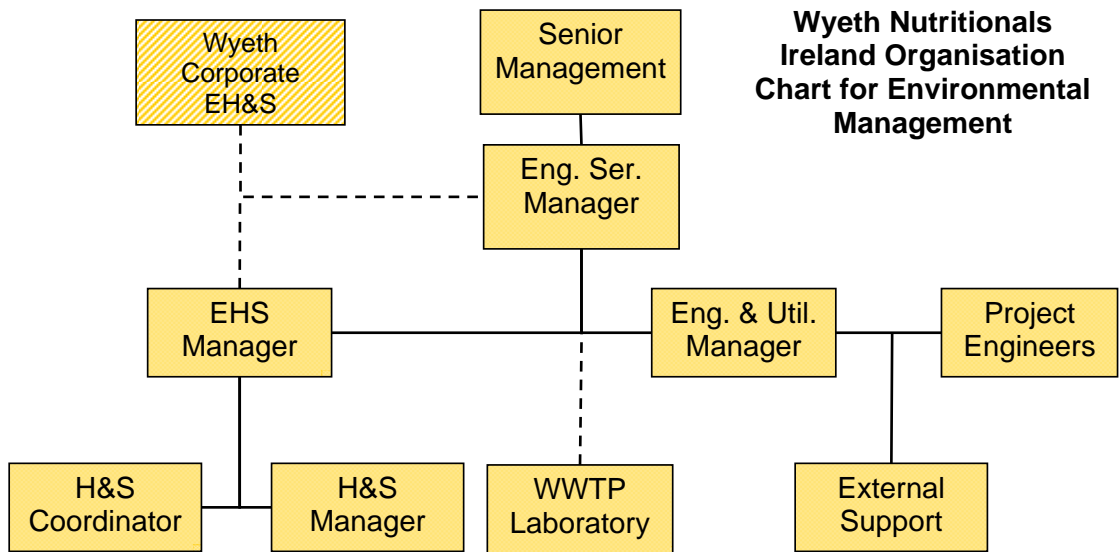


Figure 3: Organisation chart for environmental management

2.2 SUMMARY INFORMATION

2.2.1 Comparative Analyses

Data for emissions to both water (effluent) and atmosphere in 2009 are compared below with data from 2002 to 2008 (inclusive). In all other cases, year-to-year comparisons are made over as many years as possible.

2.2.2 Emissions to Water

Wyeth's emission to surface water consists of waste from its process operations and site sewage, which is treated prior to discharge to the River Deel. Monitoring of control parameters in the Waste Water Treatment Plant (WWTP) is carried out in accordance with *Schedule 2(ii)* of the IPC licence.

At final discharge, parameters such as flow and pH are monitored continuously. A flow proportional composite sample is taken each day over a 24-hour period and analysed in accordance with *Schedule 2(iii)* of the licence, which identifies parameters to be monitored and their monitoring frequency.

The average daily value for physical parameters and the annual mass emissions to water for the reporting period are summarized below in *Table 1* and *Table 2*, respectively. All values are corrected to one place of decimal (where possible).

| Parameter | Year | | | | | | | | Emission Limit Value |
|---------------------------------------|------|------|------|------|------|------|------|------|----------------------|
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| Avg. Volume (daily) (m ³) | 1423 | 1409 | 1368 | 1730 | 1868 | 1875 | 2017 | 2072 | 2800 |
| Avg. pH | 8.2 | 8.4 | 8.3 | 7.9 | 7.9 | 7.9 | 7.9 | 8.1 | 6-9 |

Table 1: Average daily value of physical parameters since 2002

| Parameter | Mass Emission (kg) | | | | | | | | Licenced Mass Emissions (kg) |
|--------------------------------|--------------------|-------|-------|-------|--------|--------|--------|--------|------------------------------|
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| BOD | 5149 | 5143 | 6591 | 8014 | 6771 | 9162 | 10475 | 9183 | 36500 |
| Sus. Solids | 14803 | 12343 | 12977 | 11713 | 13096 | 11538 | 12476 | 12214 | 51100 |
| Total Nitrogen | *1 | 3261 | 3345 | 3833 | 3420 | 4258 | 5578 | 4702 | 15330 |
| Total Phosphorus (as P) | 416 | 206 | 250 | 229 | 202 | 248 | 193 | 210 | 2044 |
| Oils, Fats and Greases | 3064 | 2725 | 3645 | 3216 | 6425*2 | 6714*2 | 7039*2 | 7230*2 | 15330 |
| Ammonia (as N) | 4726 | 1389 | 1298 | 1077 | 860 | 1111 | 881 | 864 | 10220 |

*1 no data available

*2 10mg/l limit of detection was used to estimate result.

Table 2: Summary of annual mass emissions to surface water since 2002.

The above information is depicted graphically in Fig. 4

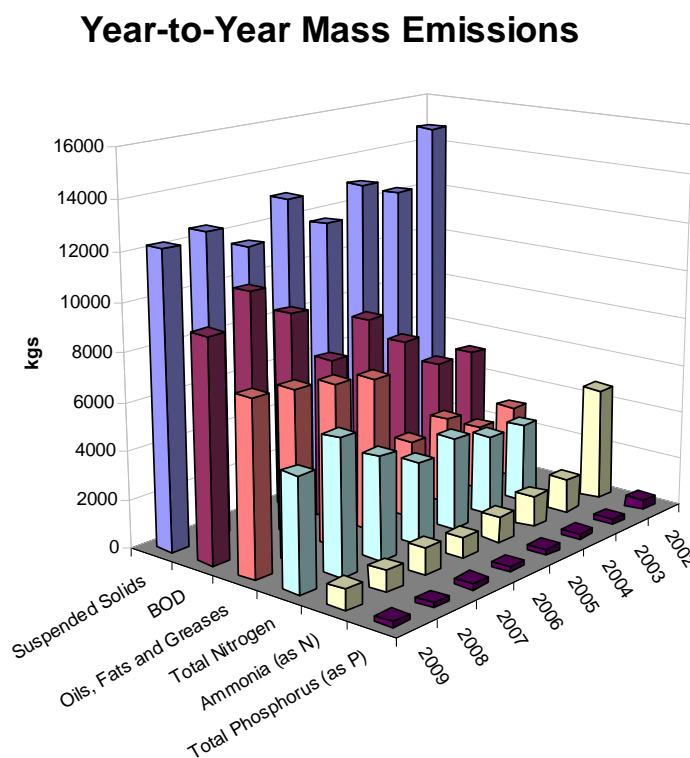


Figure 4: Effluent mass emissions to surface water since 2002 (8 years).

Comparing the results for 2009 with those of previous years shows no significant change in the physical parameters while total phosphorus and oils, fats & greases have increased, BOD, suspended solids, total nitrogen and ammonia (as N) have reduced. These changes were due to a variation in production output.

All results for oils, fats and greases during 2006 to 2009 inclusive were below the level of detection of 10mg/l, which was used to estimate the emissions for those years.

There were three non-compliances for emissions to water during the reporting period. The first occurred during the 24-hour period beginning at 8:00 am on June 17th and was due to an exceedence of the emission limit value for BOD (54.94 mg/l versus an emission limit value [ELV] of 40 mg/l).

The second non-compliance occurred during the 24-hour period beginning at 8:00 am on June 20th and was also due to an exceedence of the ELV for BOD (60.25 mg/l versus an ELV of 40 mg/l).

The third non-compliance occurred during the 24-hour period beginning at 8:00 am on November 16th and was due to an exceedence of the ELV for Ammonia (as N) (16.0 mg/l versus an ELV of 10 mg/l).

The causes of the non-compliances were investigated and corrective actions have been put in place to prevent re-occurrences.

2.2.3 Emissions to Atmosphere

Emissions to atmosphere consist of process emission and emissions from combustion plant. These are discharged through the emission points listed in *Schedule 1 (i-iii)* of the IPC licence and are broken down into the products of combustion and particulates.

Table 3 summarises these mass emissions to atmosphere. The values given are corrected within two places of decimal.

| Parameter | Mass Emissions (kg x 10 ³) | | | | | | | |
|---------------------------|----------------------------------------|--------|-------|-------|-------|---------------------|---------------------|---------------------|
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| NOx (as NO ₂) | 286.97 | 199.26 | 91.16 | 52.45 | 47.11 | 34.88 | 41.00 | 44.86 |
| Total Particulates | 61.23 | 9.20 | * | 17.16 | 33.96 | 54.63 | 50.98 | 39.28 |
| CO | 6.13 | 4.17 | 0.26 | 15.88 | * | 19.19 ^{*1} | 18.27 ^{*1} | 18.15 ^{*1} |

* no data available

^{*1} Measured boiler emissions combined with estimated CHP Plant emissions

Table 3: Summary of annual mass emissions to atmosphere since 2002.

The above information is depicted graphically in *Fig. 5* below.

Year-to-Year Mass Emissions

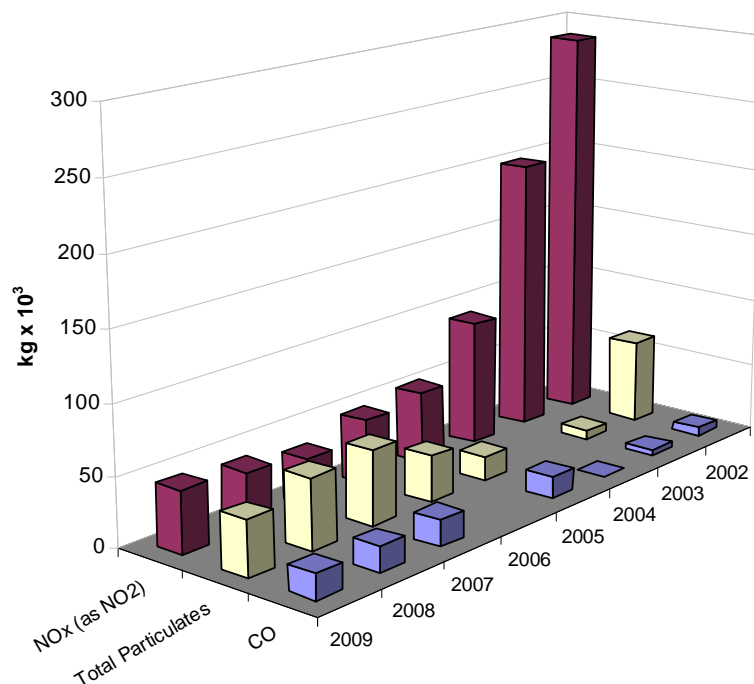


Figure 5: Mass emissions to atmosphere since 2002 (8 years).

Comparing NOx emissions for 2009 with previous years shows an increase over 2008 emissions but is significantly lower than the previous years reported.

Particulate emissions are lower than those measured during 2008 and CO emissions while mostly estimated, show a decrease over those reported during 2007.

There was one non-compliance for emissions to atmosphere during the reporting period. The non-compliance was due to an exceedence of the emission limit value for particulates (52.3 mg/Nm³ versus an ELV of 50 mg/Nm³) and was detected during routine emission monitoring on one of the process exhaust outlets during February.

2.2.4 Waste Management

Non-Hazardous Waste

A total of 7518 tonnes of non-hazardous waste was generated from normal site operations during the reporting period. Approximately 67% (5017 tonnes) was sent off site for recovery and the remaining 33% (2500 tonnes) was landfilled. A record of the data relating to this type of waste from site operations (Condition 7 of the IPC licence) and information concerning the management of this waste is presented in *Tables 4-6*.

| EWC Code | | | | | | Haz (Y/N) | Description of Waste | Quantity (Tonnes/annum) | Method of Disposal/ Recovery | Location of Disposal/ Recovery | Name of Disposal/ Recovery Contractor |
|----------|---|---|---|---|---|-----------|--------------------------------------|-------------------------|------------------------------|--------------------------------|---------------------------------------|
| 2 | 0 | 0 | 1 | 0 | 1 | N | Paper | 17.87 | R3 | (b) Dublin | DMG Services |
| 2 | 0 | 0 | 1 | 0 | 1 | N | Cardboard and plastic packaging | 544.23 | R3 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 1 | 0 | 1 | N | Plastic packaging | 50.95 | R3 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 1 | 0 | 1 | N | Cardboard | 27.90 | R3 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 1 | 4 | 0 | N | Metal | 721.88 | R4 | (b) Limerick | Veolia Environmental Services Ltd. |
| 1 | 5 | 0 | 1 | 0 | 7 | N | Glass Packaging | 19.86 | R5 | (b) Limerick | Veolia Environmental Services Ltd. |
| 0 | 2 | 0 | 5 | 0 | 2 | N | Sludge | 3133.44 | R3 | (b) Waterford | Molaisin Compost Ltd. |
| 2 | 0 | 0 | 1 | 4 | 0 | N | Metal | 42.64 | R4 | (b) Limerick | Hegarty Metal Recycling |
| 0 | 2 | 0 | 5 | 9 | 9 | N | Waste liquid product incl. packaging | 156.16 | R3 | (b) Carlow | Mr. Joeseeph Waddock |
| 2 | 0 | 0 | 3 | 0 | 1 | N | General food and office waste | 659.47 | D1 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 3 | 0 | 1 | N | Waste product and raw materials | 1841.24 | D1 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 1 | 2 | 5 | N | Used cooking oil | 2.08 | R1 | (b) Galway | Frylite (Ireland) Ltd. |
| 0 | 2 | 0 | 3 | 0 | 4 | N | Waste veg. oil | 116.26 | R3 | (b) Cork | McGill Env. Systems (Irl.) Ltd. |
| 1 | 9 | 0 | 9 | 0 | 1 | N | C & D Waste | 178.4 | R3 | (b) Limerick | Veolia Environmental Services Ltd. |
| 2 | 0 | 0 | 1 | 3 | 8 | N | Timber | 6.18 | R3 | (b) limerick | Veolia Environmental Services Ltd. |

Table 4: AER Summary of non-hazardous waste generated on site during 2009

| Waste Transporters | Permit / Licence Details | Issuing Authority | Issue/Review Date |
|------------------------------------|--------------------------|----------------------|-------------------|
| DMG Services T/A Shred-It | WCP/LK/021/08d | Limerick Co. Council | 12/12/08 |
| Veolia Environmental Services Ltd. | WCP-DC-08-1120-01 | Dublin City Council | 01/05/09 |
| Hegarty Metal Recycling | WCP-LK-08-589-01 | Limerick Co. Council | 25/02/09 |
| Frylite (Ireland) Ltd. | WCP/MO/090624/01 | Mayo Co. Council | 20/06/07 |
| Agrilife Ltd. | WCP/LK/128/08d | Limerick Co. Council | 05/08/08 |
| STL Logistics | WCP/LK/447/07(b) | Limerick Co. Council | 14/12/07 |
| County Wide Drain Services Ltd. | WCP/LK/558/08(b) | Limerick Co. Council | 03/07/08 |

Table 5: Waste Transporter permit details

| Waste Contractor | Permit / Licence Details | Issuing Authority | Issue/Review Date |
|-----------------------------------------|--------------------------|-----------------------|-------------------|
| DMG Services T/A Shred-It | WFP-DC-09-0011-01 | Dublin City Council | 17/12/09 |
| Veolia Environmental Services Ltd. | W0082-02 | EPA | 06/11/03 |
| Hegarty Metal Recycling | WP 05-04 | Limerick City Council | 01/01/07 |
| Frylite (Ireland) Ltd. | WR/77 | Galway Co. Council | 10/01/05 |
| Molasin Compost Ltd. | WP 66/08 | Waterford Co. Council | 11/09/08 |
| Mr. Joeseeph Waddock | W.P. 02/08 | Carlow Co. Council | 25/06/08 |
| McGill Environmental Systems (Irl) Ltd. | W0180-01 | EPA | 17/02/04 |

Table 6: Waste Contractor permit details

Hazardous Waste

During the reporting period a total of 50.4 tonnes of hazardous waste was generated on site. A record of the data relating to this type of waste, as outlined under *Condition 7* of the IPC licence and information concerning the management of this waste is presented in *Tables 7-9*.

| EWC Code | | | | | | Haz (Y/N) | Description of Waste | Quantity (Tonnes/annum) | Method of Disposal/ Recovery | Location of Disposal/ Recovery | Name of Disposal/Recovery Contractor |
|----------|---|---|---|---|---|-----------|----------------------------|-------------------------|------------------------------|--------------------------------|--------------------------------------|
| 2 | 0 | 0 | 1 | 3 | 5 | Y | WEEE | 2.685 | R4 | (b) Kildare | Irish Lamp Recycling |
| 2 | 0 | 0 | 1 | 2 | 1 | Y | Fluorescent lamps | 0.554 | R5 | (b) Kildare | Irish Lamp Recycling |
| 2 | 0 | 0 | 1 | 3 | 3 | Y | Batteries | 0.090 | R11 | (b) Kildare | Irish Lamp Recycling |
| 0 | 7 | 0 | 1 | 0 | 4 | Y | Mixed solvents | 2.079 | R1 | (c) Germany | Enva |
| 1 | 5 | 0 | 1 | 1 | 0 | Y | Used drums | 2.122 | D9, R1, R3, R4 | (b) Shannon (c) Germany | Enva |
| 1 | 5 | 0 | 2 | 0 | 2 | Y | Used filters and wipes | 0.950 | R1 | (c) Germany | Enva |
| 1 | 6 | 0 | 5 | 0 | 4 | Y | Aerosol cans | 0.016 | R4 | (b) Portlaoise | Enva |
| 1 | 6 | 0 | 5 | 0 | 6 | Y | Waste laboratory chemicals | 2.809 | R1, D9, | (b) Shannon (c) Germany | Enva |
| 1 | 6 | 0 | 5 | 0 | 7 | Y | Water treatment chemicals | 1.109 | D9, R1 | (b) Shannon (c) Germany | Enva |
| 2 | 0 | 0 | 1 | 2 | 5 | N | Edible oil and fat | 4.181 | R1 | (c) Germany | Enva |
| 2 | 0 | 0 | 1 | 2 | 6 | Y | Vegetable fat | 3.382 | R1, R3 | (c) Germany | Enva |
| 1 | 8 | 0 | 1 | 0 | 3 | Y | Sharps | 0.012 | D9 | (b) Dublin | Sterile Technologies Ireland. |
| 1 | 5 | 0 | 1 | 0 | 2 | Y | Used drum | 0.001 | D9 | (b) Shannon | Enva |
| 1 | 6 | 0 | 5 | 0 | 9 | Y | Vitamins and Minerals | 8.406 | R1, D9 | (c) Germany (b) Shannon | Enva |
| 2 | 0 | 0 | 1 | 3 | 0 | Y | Detergent | 0.026 | R1 | (c) Germany | Enva |
| 0 | 6 | 0 | 2 | 0 | 5 | Y | Waste chemical | 0.843 | R1 | (c) Germany | Enva |
| 0 | 8 | 0 | 3 | 1 | 2 | Y | Waste ink | 0.010 | R1 | (c) Germany | Enva |
| 0 | 8 | 0 | 4 | 0 | 9 | Y | Waste adhesive | 0.012 | R1 | (c) Germany | Enva |
| 1 | 3 | 0 | 1 | 1 | 3 | Y | Waste oil | 0.298 | R1 | (c) Germany | Enva |
| 1 | 6 | 0 | 5 | 0 | 8 | Y | Vitamins and minerals | 2.845 | R1 | (c) Germany | Enva |
| 1 | 3 | 0 | 2 | 0 | 8 | Y | Waste oil | 8.039 | R9 | (b) Portlaoise | Enva |
| 1 | 3 | 0 | 8 | 0 | 2 | Y | Waste oil | 0.111 | R9 | (b) Portlaoise | Enva |
| 1 | 3 | 0 | 7 | 0 | 3 | Y | Waste oil | 9.569 | R9 | (b) Portlaoise | Enva |

Table 7: Summary of hazardous waste generated on site during 2009

| Waste Receiver | Permit / Licence Details | Issuing Authority | Issue Date |
|-----------------------------------|--------------------------|---------------------|------------|
| Irish Lamp Recycling | WFP-KE-08-0348-01 | Kildare Co. Council | 25/02/09 |
| Enva | W0041-1 | EPA | 05/05/00 |
| Enva | W0184-1 | EPA | 16/01/04 |
| Sterile Technologies Ireland Ltd. | W0055-02 | EPA | 01/08/03 |

Table 8: Waste Broker permit details

| Waste Transporter | Permit / Licence Details | Issuing Authority | Issue Date |
|-----------------------------------|--------------------------|----------------------|------------|
| Irish Lamp Recycling | WCP-DC-08-1115-01 | Dublin City Council | 03/03/09 |
| Enva Ireland Ltd. | WCP-DC-08-1116-01 | Dublin City Council | 07/04/09 |
| Sterile Technologies Ireland Ltd. | WCP/LK/117/07(c) | Limerick Co. Council | 20/07/07 |
| Tradaree Transport | WCP-LK-08-0405-02 | Limerick Co. Council | 22/01/09 |

Table 9: Waste Transporter permit details

2.2.5 Surface Water Discharge Monitoring

Surface water discharged from the site is monitored weekly in accordance with *Schedule 4(i)* of the IPC Licence. All site surface water is discharged to the River Deel and a sample is taken from a single point (agreed with the EPA) and analysed.

A summary of the monitoring results for surface water pH, BOD, Total NH₃ and Total N with the highest, lowest and average pH and concentrations recorded is in *Tables 10*, below.

| pH | | | BOD (mg/l) | | Total NH ₃ (mg/l) | | Total N (mg/l) | |
|------|-----|------|------------|------|------------------------------|------|----------------|------|
| High | Low | Avg. | High | Avg. | High | Avg. | High | Avg. |
| 8.6 | 7.2 | 7.9 | 50.0 | 11.0 | 1.1 | 0.3 | 4.5 | 1.8 |

Table 10: Summary of surface water pH, BOD, Total NH₃ and Total N.

There were a number of exceedences of the internal action limit for BOD (15 mg/l) during the reporting period. Towards the beginning of the year, the exceedences were as a result of incorrect sampling methodology which was corrected. Towards the end of the year the exceedences of the action limit was thought to be as a result of natural organic matter deposited and breaking down in various locations of the drainage system. An action to correct this was implemented at the beginning of 2010.

2.2.6 Summary of Agency Monitoring and Enforcement

EPA representatives paid a number of visits to Wyeth Nutritionals during 2009. The purposes of each visit are given in *Table 11* below.

| Visit Date | Purpose |
|---------------------------|----------------------------------------------------------------|
| February 3 rd | To sample emissions to water |
| March 6 th | To perform a site inspection |
| May 19 th | A reconnaissance visit for emissions to atmosphere monitoring. |
| August 25 th | To sample emissions to water |
| November 11 th | To sample emissions to atmosphere |

Table 11: Summary of visits to WNI by the Agency (EPA) during 2009.

For emissions to water sampling, there was a difference in results for BOD between the analysis carried out by the site and the analysis carried out by the Agency. The difference in BOD results has been investigated and a revised analytical methodology by the in-house laboratory is currently being drafted.

No report has been received from the Agency for the emissions to atmosphere sampling.

2.2.7 Energy and Water Use

Wyeth primarily used electricity and natural gas to provide energy for its operation during the reporting period. A summary of energy consumption per source for is provided in *Table 12*.

| Energy Source | Consumption |
|---------------|-------------|
| Natural Gas | 229,274 MWh |
| Electricity | 37,783 MWh |

Table 12: Energy consumption summary for 2009.

Electricity

The site's annual electricity consumption since 2002 is shown in *Fig. 6*.

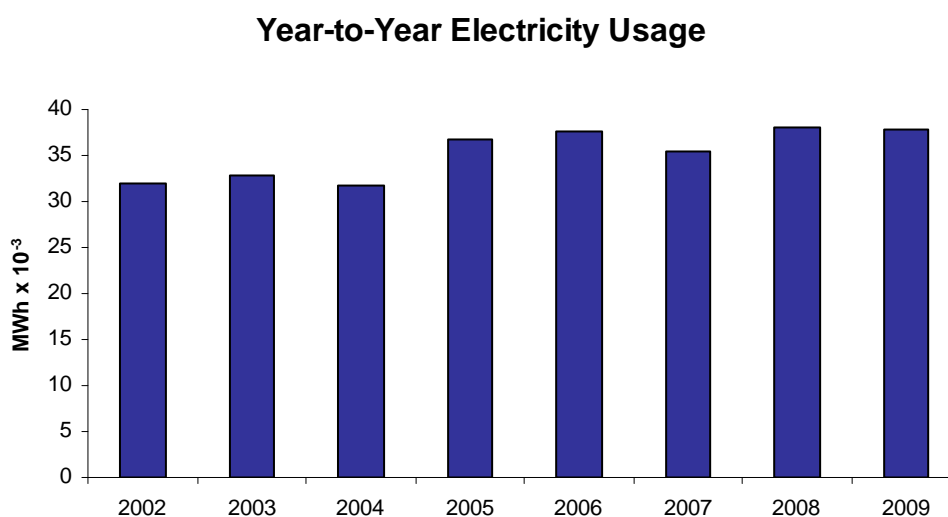


Figure 6: Annual electricity consumption since 2002 (8 years)

Natural Gas

In 2005 natural gas was introduced to the site as a primary source of energy. Natural gas is combusted in a Combined Heat and Power (CHP) Plant on site that uses a gas turbine to generate electricity. The exhaust gasses from the turbine are supplementary fired in a boiler with additional natural gas to generate steam for use in the manufacturing process.

In addition, one of the existing boilers on site was decommissioned and the remaining two boilers were converted from burning HFO to natural gas and are now mainly used to supplement steam demand provided by the CHP Plant.

The site's annual natural gas consumption since 2004 is shown in *Fig. 7* and shows a decrease in consumption of 3.3% (due to a decrease in production output) over 2008.

Year-to-Year Natural Gas Usage

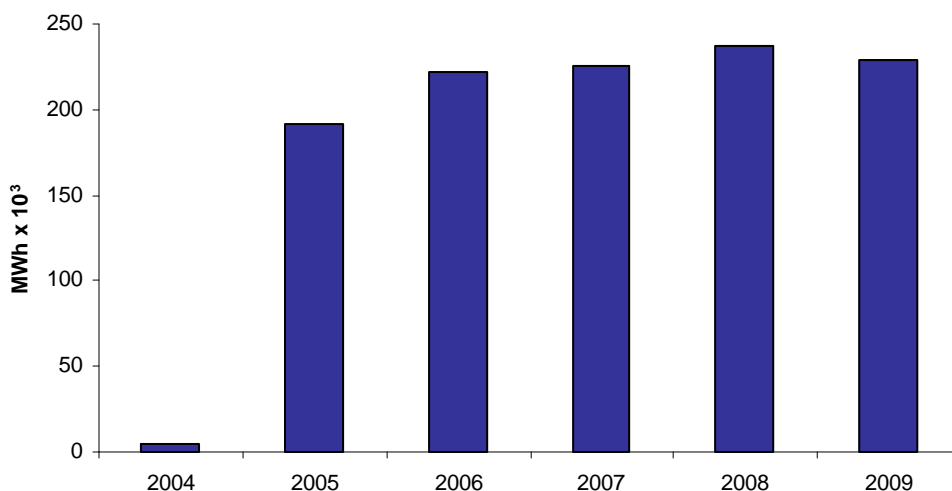


Figure 7: Annual natural gas consumption since 2004 (6 years)

Water

Water for site operations is abstracted from the River Deel upstream from the site and is pumped to the on-site Water Treatment Plant where it is treated to potable water standards. Softening of water also takes place to prevent the build up of lime scale on heated surfaces of the manufacturing process equipment.

A total of 939,240 m³ of water was used on site during the reporting period, a decrease of 1.5% when compared with 2008. Annual water usage since 2003 is shown in Fig. 8.

Year-to-Year Water Usage

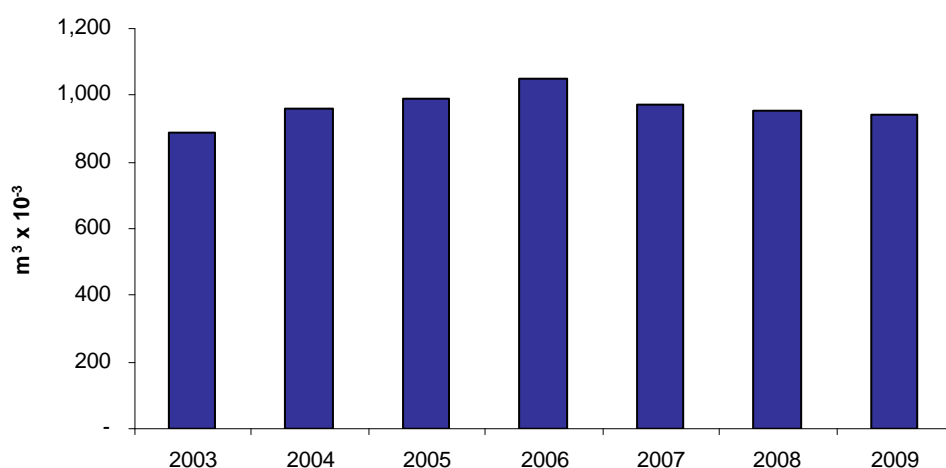


Figure 8: Annual water usage since 2003 (7-years)

2.2.8 Environmental Incidents and Complaints

Incidents

Four incidents were recorded during the reporting period and are listed in *Table 13* below.

| Incident | Date | Actions Taken | Authorities Contacted |
|-----------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|-----------------------|
| Emission point A2-1; Particulates exceedence (52.3 mg/Nm ³ vs ELV of 50.0 mg/Nm ³) | February 24, 2009 | Incident investigation and changes made to operations. | EPA |
| Emission point SW1; BOD exceedence (54.94 mg/l vs ELV of 40.0 mg/l) | June 17 th , 2009 | Incident investigated and laboratory analytical methodology reviewed. | EPA, LCC, SRFB. |
| Emission point SW1; BOD exceedence (60.25 mg/l vs ELV of 40.0 mg/l) | June 20 th , 2009 | Incident investigated and laboratory analytical methodology reviewed. | EPA, LCC, SRFB. |
| Emission point SW1; Ammonia (as N) exceedence (16.0 mg/l vs ELV of 10 mg/l) | November 11 th , 2009 | Incident investigated and procedures put in place for control modification changes. | EPA, LCC, SRFB. |

EPA = Environmental Protection Agency
 LCC = Limerick County Council
 SRFB = Shannon Regional Fisheries Board
Table 13: Summary of incidents

Complaints

There were seven complaints received during the reporting period, see *Table 14* below.

| Complaint Class | Noise | Odour | Water | Dust | Procedural | Miscellaneous |
|-----------------|-------|-------|-------|------|------------|---------------|
| Total | 7 | None | None | None | None | None |

Table 14: Summary of complaints.

2.3 MANAGEMENT OF THE ACTIVITY

2.3.1 Schedule of Environmental Objectives and Targets for 2009

The schedule of objectives and targets for the reporting period is in *Table 15* below:

| No. | Objective | Target |
|-----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1 | Improve internal material transport and storage to reduce risk. | Review internal hazardous material transfer and storage, and implement recommendations to reduce risk. |
| 2 | Improve monitoring and control of emissions to atmosphere | Improve data collection and control of emissions to atmosphere. |
| 3 | Improve control of emissions to water | Improve the robustness of waste water discharge sampling arrangements and improve WWTP control. |
| 4 | Maintain the integrity of the underground drainage networks. | Inspect, test and remediate as necessary the underground drainage networks to ensure integrity is maintained. |
| 5 | Increase energy efficiency and reduce carbon dioxide emissions. | Reduce the normalised direct and indirect emissions of carbon dioxide by 10% by 2012 over the 2007 normalised emissions |
| 6 | Reduce waste generation and divert waste from landfill. | Reduce the normalised net waste by 10% over the 2007 normalised value by 2012 |
| 7 | Reduce water consumption. | Reduce the normalised annual consumption of water by 10% by 2012 over the 2007 normalised consumption volume. |
| 8 | Reduce site noise. | Identify and implement measures necessary to ensure a noise nuisance does not arise. |

Table 15: Schedule of objectives and targets for 2009

2.3.2 Environmental Management Programme (EMP) Report

Objective No. 1 Improve internal material transport and storage to reduce risk.

Target: Review internal hazardous material transfer and storage to reduce risk.

Programme:

1. Confirm the absence of PCBs in oil in the oil-filled circuit breakers.
2. Complete an asbestos survey and implement necessary precautions for any asbestos contained in materials on site.
3. Continue the installation of high level alarms consisting of an alarm system and automatic fill shut-off on the main chemical storage tanks.
4. Implement the new delivery system for disinfectant to the process areas that will reduce vapour emissions and risk of spillage.

5. Develop a plan to install a new delivery system for CIP chemicals to one of the wet process areas to reduce the hazards from transporting and storing in drums.

Programme Report:

1. The oil-filled circuit breakers were sampled and the analysis results were negative for the presence of PCBs.
2. A type 2 asbestos survey was carried out in all accessible parts of the plant. The survey identified asbestos containing materials and made recommendations on how to manage the material.
3. The bulk chemical storage tanks and delivery systems were surveyed to determine how to retrofit high level alarms with automatic shut-off on each tank.
4. A new delivery system for the delivery of disinfectant to the process areas was designed and installed. This new system eliminated the risks associated with the storage, handling and transport of 200 liter drums of the material.
5. The process area was surveyed and a scope of work, and plan was developed to install a new delivery system for CIP chemicals to one of the wet process areas.

Objective No. 2. Improve monitoring and control of emissions to atmosphere.

Target: Improve data collection and control of emissions to atmosphere.

Programme:

1. Proceed with the development of plans to install continuous measuring instrument for particulate emissions from the dryers and establish the benefits of installing such instrumentation.
2. Upgrade the direct digital combustion controls (DDCC) on Boiler No. 3 to reduce emissions by increasing combustion efficiency.

Programme Report:

1. Plans were developed to install continuous measuring instruments for particulate emissions from the dryers, however, an analysis of the benefits did not justify the cost of such a project at this time.
2. It was decided not to proceed with an upgrade of the DDCC on Boiler No. 3 as the operating hours of this equipment was reduced and plans are to reduce them further during 2010.

Objective No. 3 Improve control of emissions to water.

Target: Improve the robustness of waste water discharge sampling arrangements and improve WWTP control.

Programme:

1. Replace the water composite sampler with a refrigerated composite sampler including the capability to store more than one sample at any time.
2. Assess all self-monitoring compliance data, onsite procedures and quality controls for the waste water laboratory to ensure that the quality of all self monitoring data submitted to the EPA is in accordance with the relevant conditions of the site's IPPC licence.

Programme Report:

1. The replacement of the flow proportionate composite sampler has been deferred due to budget constraints and instead will be included in the EMP for 2010.
2. The assessment of all the self-monitoring compliance data, on-site procedures and quality controls for the wastewater laboratory started during the reporting period. A report on the assessment will be issued during 2010.

Objective No. 4

Maintain the integrity of the underground drainage networks.

Target:

Inspect, test and remediate as necessary the underground drainage network to ensure their integrity is maintained.

Programme:

1. Remediate the sections of the underground drainage network that have been highlighted as having deficiencies during the phase 2 of inspection and testing.
2. Remediate the single outstanding deficiency from phase 1.
3. Continue with the next phase of testing and inspection of the underground drainage network once phase 2 is completed.

Programme Report:

1. Inspection, testing and remediation of sections of the underground drainage network continued and focused on the drains in the liquid product manufacturing area.
2. The single outstanding deficiency from phase 1 was completed during the summer shutdown.
3. Phase 2 of the testing and inspection of the underground drainage network is not completed and this work will continue as part of the EMP in 2010.

Objective No. 5

Increase energy efficiency and reduce carbon dioxide emissions.

Target:

Reduce the normalised direct and indirect emissions of carbon dioxide by 10% by 2012 over the 2007 normalised emissions.

Programme:

1. Complete the assessment of identified process equipment energy conservation projects.

2. Continue with the replacement of old steam traps with the new type traps.
3. Continue to improve energy use reporting and information by installing new electrical metering, connected to the energy monitoring system to facilitate the measuring of electricity use by each business unit.
4. Gather and analyse all of the current energy management initiatives with a view to implementing and building a formal energy management system for the site.

Programme Report:

1. The assessment of the identified process equipment energy conservation is not completed.
2. Two steam trap surveys were completed to assess the condition of the steam traps during the reporting period. The assessment estimated that almost 3000 tonnes of steam was being lost through the older-type traps and the installation of the new-type steam traps continued. About 10% of the total number of steam traps on site have now been replaced.
3. Additional electrical metering was installed and connected to the central monitoring system. This is the first phase of metering that measure electricity use that will eventually be used to measure the quantity of electricity used by each individual business unit.
4. The current energy management initiatives were examined to determine if a formal energy management system should be implemented. From the analysis it was decided not to introduce a formal system and to continue to set energy-related objectives as part of the EMP.

Objective No. 6 Reduce waste generation and divert waste from landfill.

Target: Reduce the normalised net waste by 10% over the 2007 normalised value by 2012.

Programme:

1. Identify alternative outlets to divert waste from landfill. Obtain agreement from the EPA and Wyeth Corporate to use any new outlets.
2. Review the new waste categories introduced since the start of the year and ensure optimum methods are used for recycling.

Programme Report:

1. Alternative outlets were identified for two categories of waste and three sites were visited to ensure they could meet expectations. Two of these sites were selected and agreement was obtained from the EPA and Wyeth Corporate to use them.
2. The recycling of new waste categories was reviewed to ensure the optimum methods for recycling are used. The

review found an alternative method of recycling for one category that is more environmentally benign and has a reduced cost.

Objective No. 7 Reduce water consumption.

Target: Reduce the normalised annual consumption of water by 10% by 2012 over the 2007 normalised consumption volume.

Programme:

1. Carry out the planned upgrades to the water treatment plant to improve its water treatment efficiency.
2. Modify the pipework and begin fitting water meters to the distribution network to aid in measuring water use per individual business unit.
3. Install new controls at the water abstraction pump station to improve flexibility in operation.

Programme Report:

1. Upgrades to the water treatment plant started during the reporting period and are scheduled to finish in 2010. Tie-ins were installed during the summer shutdown to accommodate the new infrastructure.
2. There was no work carried out on the water distribution system to facilitate the installation of water meters.
3. New controls to improve the flexibility of operating the water abstraction pumps are planned for completion during 2010 as part of the water treatment plant upgrade project.

Objective No. 8 Reduce site noise.

Target: Identify and implement measures necessary to ensure a noise nuisance does not arise.

Programme:

1. Review outdoor equipment that may be a potential source of noise nuisance.
2. Implement measures to prevent potential nuisance noise.

Programme Report:

1. Outdoor equipment was reviewed and those that could be a potential source of noise were identified.
2. Measures were identified to reduce the source of noise from outdoor equipment and work on implementing these measures begun at the end of the reporting period and will continue as part of the EMP in 2010.

2.3.3 Environmental Management Programme Proposal

The proposed schedule of objectives and targets for 2010 is in *Table 16* below:

| No. | Objective | Target |
|-----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1 | Improve control of emissions to water | Improve the robustness of waste water discharge sampling arrangements and improve WWTP control. |
| 2 | Maintain the integrity of the underground drainage networks. | Inspect, test and remediate as necessary the underground drainage networks to ensure integrity is maintained. |
| 3 | Increase energy efficiency and reduce carbon dioxide emissions. | Reduce the normalised direct and indirect emissions of carbon dioxide by 10% by 2012 over the 2007 normalised emissions |
| 4 | Reduce waste generation and divert waste from landfill. | Reduce the normalised net waste by 10% over the 2007 normalised value by 2012 |
| 5 | Reduce site noise. | Identify and implement measures necessary to ensure a noise nuisance does not arise. |

Table 16: Proposed schedule of objectives and targets for 2010.

Objective No. 1 Improve control of emissions to water.

Target: Improve the robustness of waste water discharge sampling arrangements and improve WWTP control.

Programme:

1. Review available technology for use in monitoring the quality of the influent to the wastewater treatment plant that is capable of indicating when shock chemical and organic loads occur.
2. Investigate available technology to measure activated sludge bacterial performance for process optimization, toxicity tracking and to monitor sludge health.
3. Replace the water composite sampler with a refrigerated composite sampler including the capability to store more than one sample at any time.
4. Implement any recommendations from the report on the assessment of all the self-monitoring compliance data, on-site procedures and quality checks in the wastewater laboratory.

Objective No. 2 Maintain the integrity of the underground drainage networks.

Target: Inspect, test and remediate as necessary the underground drainage network to ensure their integrity is maintained.

Programme:

1. Remediate the sections of the underground drainage network that have been highlighted as having deficiencies during the phase 2 of inspection and testing.
2. Continue with the next phase of testing and inspection of the underground drainage network once phase 2 is completed.

- Objective No. 3** Increase energy efficiency and reduce carbon dioxide emissions.
- Target:** Reduce the normalised direct and indirect emissions of carbon dioxide by 10% by 2012 over the 2007 normalised emissions.
- Programme:**
1. Review boiler operation requirements to identify and implement operation changes to reduce fuel use.
 2. Review boiler operation settings and implement changes to reduce the number of 24-hour cycles when the boiler(s) are in hot stand-by.
 3. Change the controls of the refrigeration compressors to enable compressor operation to match the refrigeration demand.
 4. Review the operation of the refrigeration plant to identify areas where improvements could be made that will improve the plants coefficient of performance.
-
- Objective No. 4** Reduce waste generation and divert waste from landfill.
- Target:** Reduce the normalised net waste by 10% over the 2007 normalised value by 2012.
- Programme:**
1. Where possible, identify recycle outlets for waste currently landfilled. Assess the capability of these outlets to comply with the legal and in-house requirements. Obtain corporate and EPA agreement to use these identified sites.
 2. Where possible, identify improved recycle outlets with reduced environmental impact for materials that are currently recycled. Obtain corporate and EPA agreement to use these identified sites.
-
- Objective No. 5** Reduce site noise.
- Target:** Identify and implement measures necessary to ensure a noise nuisance does not arise.
- Programme:**
1. Implement noise reduction measures on outdoor equipment that have been identified as potential noise sources.

2.3.4 Pollution Emission Register (PER)

All materials used or generated on site during the reporting period were compared with the PERL (Pollution Emission Register List). These are listed in *Table 17* below along with their corresponding threshold limits from the European Pollution Emission Register (EPER).

| Pollutants/Substances | Identification | Emissions from WNI in 2009 | | EPER Thresholds | |
|-----------------------|--------------------|----------------------------|---------------|-----------------|---------------|
| | | Atmos. kg/year | Water kg/year | Atmos. kg/year | Water kg/year |
| CO ₂ | | 42,804,674 | - | 100,000,000 | - |
| NO _x | as NO ₂ | 44,860 | - | 100,000 | - |
| Total – Nitrogen | as N | - | 4702 | - | 50,000 |
| Total – Phosphorus | as P | - | 210 | - | 5,000 |

Table 17: PERL of substances emitted during 2009 compared with EPER thresholds.

A comparison of emissions since 2002 for each of the substances listed above with the exception of CO₂ is made in *Table 2* and *Table 4* for emissions to water and emissions to atmosphere respectively.

Annual CO₂ emissions since 2002 are shown in *Fig. 9* below which shows an overall decrease of 30% when the 2007 emissions are compared with the CO₂ emissions in 2002. The negative emissions shown for 2007, 2008 and 2009 represent CO₂ from exported electricity.

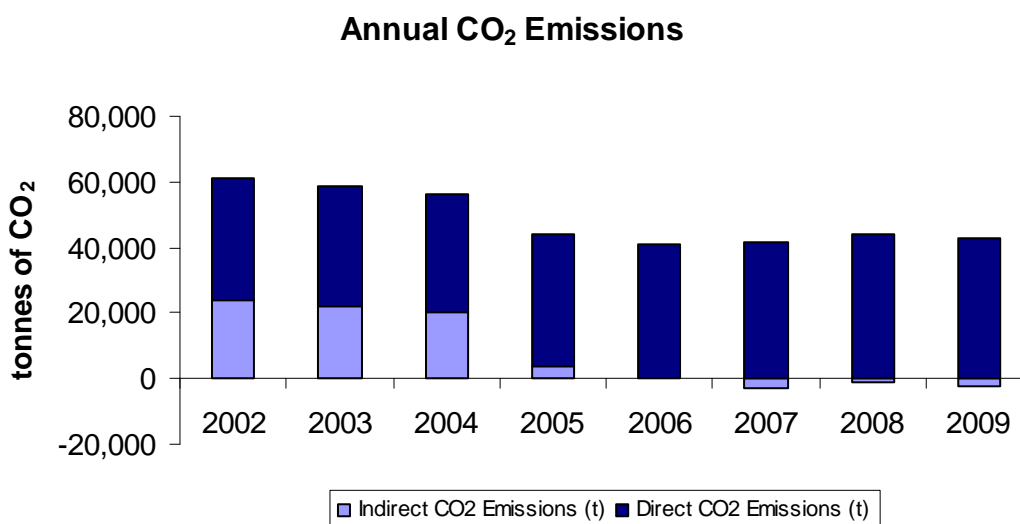


Figure 9: Annual CO₂ direct and indirect emissions since 2002 (8 years).

2.3.5 Other Significant Environmental Aspects and Audits

Wyeth Nutritionals continues to operate its Environmental Management System (EMS) to the ISO 14001 Standard. Surveillance audits conducted by SGS Ireland Ltd. took place in during April and October of the reporting period and the audit findings were that the site could continue to be registered.

Wyeth Nutritionals Ireland remains as a participant in the Eco-management and Audit Scheme. An audit of its environmental statement took place on September 24th 2009.

A total of five waste management sites used by Wyeth Nutritionals were visited to observe their operation and check documentation to ensure their compliance with Wyeth requirements.

2.4 LICENCE SPECIFIC REPORTS (Summaries)

2.4.1 Noise Monitoring

In accordance with the requirements of its IPC Licence, Wyeth Nutritionals is required to carry out a noise survey of the site operations annually.

Noise measurements were recorded at six representative noise sensitive locations (houses) and at a boundary reference position (west) during the daytime and nighttime on the 9th/10th June 2009. The site was operating normally during this period.

The survey methodology followed the Environmental Protection Agency *Environmental Noise Survey Guidance Document (2003)*, Environmental Protection Agency *Guidance Note for Noise in Relation to Scheduled Activities (2006)* and ISO 1996 *Description and measurement of environmental noise*.

The measurement parameters L_{Aeq} , L_{A90} , L_{A50} and L_{A10} are reported for all locations.

During the survey the specific noise levels due to noise emissions from the site were established, based on the noise level statistics. This was supplemented, when necessary, by examination of the noise profile (noise levels logged at 10 second intervals). The method of determining the specific noise level is summarized in *Table 18* below.

| Description of the Noise | Parameter best representing specific noise from the site |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plant noise dominant, no other significant noise sources. | L_{Aeq} |
| Intermittent interfering noise (e.g. traffic, birds, wind), with underlying plant noise audible. | L_{A90} if plant noise steady and audible in lulls in traffic/interference. or L_{A50} if plant not audible and slowly varying, with occasional interference from other noise sources. |
| Plant barely audible (i.e. not immediately noticeable, unless actively listening) | $<L_{A90}$ (up to 5 dB lower) |
| Plant not audible. | $<<L_{A90}$ (more than 5dB lower than L_{A90}) |
| The plant specific noise is established during the survey by correlating the live sound meter readings with the audible sounds, as described above. The plant specific noise is verified by examining the profile of logged noise levels. | |

Table 18: Methodology for determination of plant specific noise.

Measurement Locations

Noise measurements were recorded at six house locations and one reference boundary location. These are indicated in *Fig. 10* below.

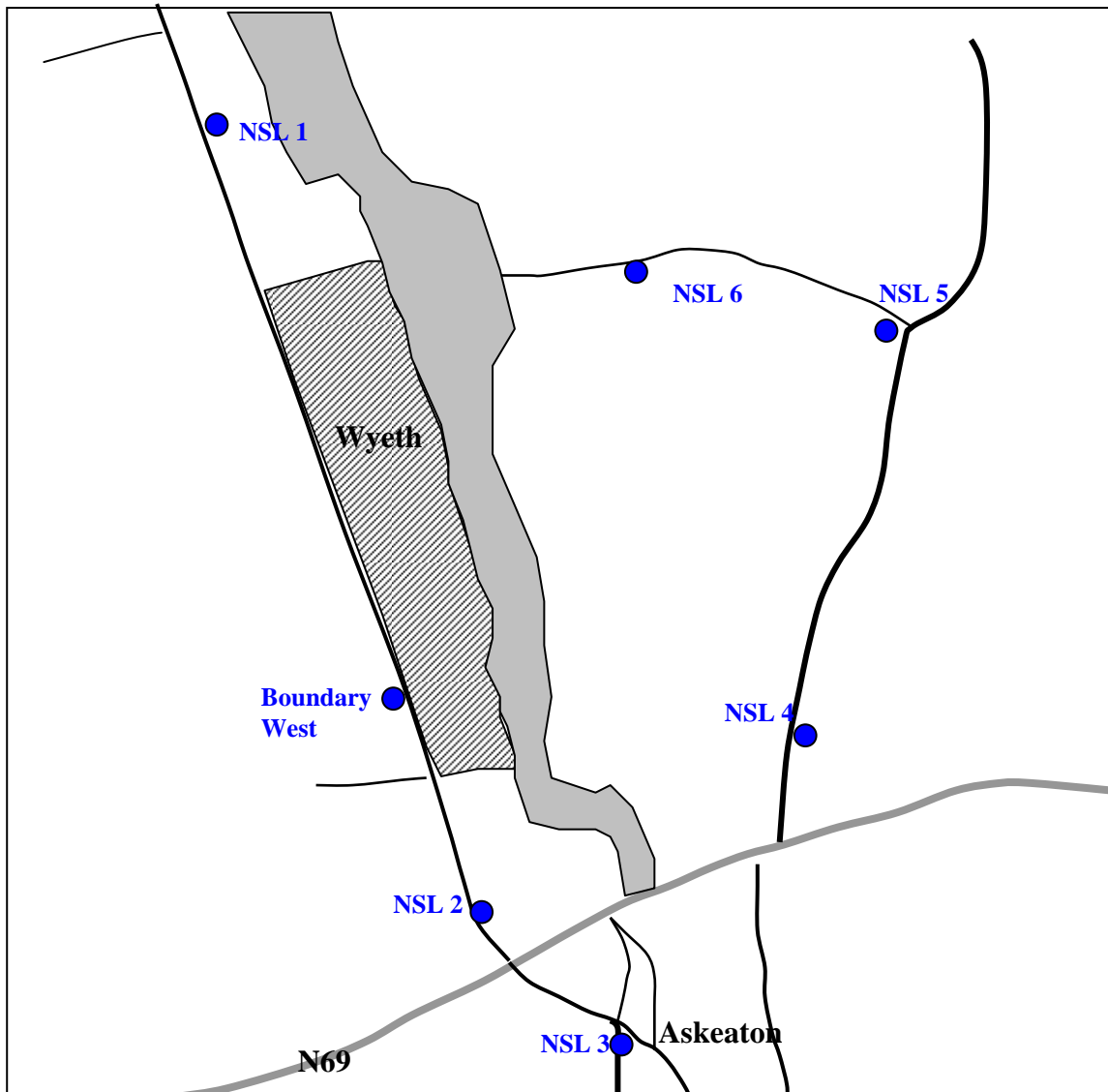


Figure 10: Noise measurement locations

Summary of Results Assessment

The noise level during the day period, 0800 to 2200 hours, and night period 2200 to 0800 hours, is summarised in *Table 19* below.

| Location | Time | Measured Noise Level dB(A) | | | | Specific Noise* ¹ | Comments, Audible Sounds |
|------------------|-------|----------------------------|------------------|------------------|------------------|------------------------------|---------------------------------------------------------------------------------------|
| | | L _{Aeq} | L _{A90} | L _{A50} | L _{A10} | | |
| Daytime | | | | | | | |
| NSL 1 | 12.40 | 56 | 28 | 32 | 41 | 34 | Occasional local sounds, birds, occasional car, very low level plant noise |
| | 12.55 | 52 | 31 | 34 | 42 | | |
| NSL 2 | 13.20 | 55 | 44 | 49 | 57 | 46 | Local and distant traffic, low level plant noise |
| | 13.35 | 61 | 46 | 54 | 61 | | |
| NSL 3 | 13.30 | 65 | 39 | 47 | 66 | <<39 | Local and distant traffic, Wyeth not audible |
| | 13.45 | 64 | 39 | 49 | 66 | | |
| NSL 4 | 15.35 | 57 | 44 | 53 | 59 | 49 | Continual traffic, birds, low level plant noise |
| | 15.50 | 58 | 49 | 56 | 61 | | |
| NSL 5 | 14.40 | 53 | 37 | 40 | 49 | 37 | Local traffic, aircraft, birds, very low level plant noise |
| | 14.55 | 42 | 37 | 39 | 43 | | |
| NSL 6 | 14.25 | 55 | 36 | 40 | 48 | 40 | Low level plant noise, farm machinery, birds, aircraft |
| | 14.40 | 52 | 36 | 38 | 46 | | |
| Boundary West | 12.30 | 57 | 48 | 50 | 54 | 50 | Plant noise, occasional local traffic |
| | 12.45 | 57 | 47 | 49 | 52 | | |
| Nighttime | | | | | | | |
| NSL 1 | 22.35 | 47 | 30 | 33 | 42 | <30 | Two cars, voices, industrial noise from northwest, distant traffic, Wyeth not audible |
| | 22.50 | 32 | 29 | 31 | 34 | | |
| NSL 2 | 23.20 | 49 | 42 | 44 | 51 | 43 | Distant traffic, occasional local traffic, plant noise |
| | 23.35 | 53 | 43 | 45 | 52 | | |
| NSL 3 | 23.25 | 57 | 43 | 46 | 57 | 43 | Occasional local traffic, distant traffic, plant noise |
| | 23.40 | 50 | 43 | 45 | 48 | | |
| NSL 4 | 01.00 | 52 | 45 | 48 | 55 | 45 | Occasional traffic, dogs, plant noise |
| | 01.15 | 51 | 45 | 47 | 54 | | |
| NSL 5 | 00.10 | 41 | 39 | 40 | 42 | 41 | Plant noise, two cars |
| | 00.25 | 44 | 39 | 41 | 43 | | |
| NSL 6 | 00.15 | 44 | 43 | 44 | 46 | 44 | Plant noise |
| | 00.30 | 43 | 41 | 43 | 44 | | |
| Boundary West | 22.30 | 63 | 50 | 51 | 57 | 51 | Plant noise, occasional vehicles |
| | 22.45 | 59 | 50 | 51 | 53 | | |

*¹ Specific noise level attributable to Wyeth (higher noise level of two readings)
 Table 19: Measured noise levels on 9th/10th June 2009.

Comparison with Previous Surveys

A comparison of nighttime noise levels (specific industrial component of noise (dB (A)) attributable to Wyeth Nutritionals site operations) since 2003 is in Table 20 below.

| Location | | Nighttime Specific Noise Levels | | | | | |
|--------------------------|---------------|---------------------------------|------|------|------|------|------|
| Type | Label | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| Noise Sensitive Location | NSL 1 | <31 | 42 | 33 | 40 | 39 | <30 |
| | NSL 2 | 43 | <40 | 45 | 43 | 45 | 43 |
| | NSL 3 | 45 | 40 | 45 | 42 | 38 | 43 |
| | NSL 4 | 36 | 40 | 30 | 41 | 30 | 45 |
| | NSL 5 | - | - | 43 | <34 | 41 | 41 |
| | NSL 6 | - | - | - | - | - | 44 |
| Boundary | Boundary West | 52 | 52 | 50 | 49 | 52 | 51 |

Table 20: Comparison of nighttime specific noise levels since 2003.

The historical comparison is confined to nighttime specific noise levels, due to the difficulty detecting plant noise during the daytime surveys.

Changes of a few dB can be expected from survey to survey, due to measurement precision and variations in site operating conditions. For measurement locations distant from the site there can be larger variations due to differing wind and atmospheric propagation conditions.

The noise levels at the noise sensitive locations were in general consistent with levels measured in previous surveys, with plant noise generally within the historical range.

The significant changes relative to 2008 were a reduction at NSL 1 (house to north) in excess of 9 dB and an increase of 7 dB at NSL 4 (southeast Ballysteen Road).

However, these variations can be explained by meteorological conditions. There was no significant change at the other noise sensitive locations and no significant change at the boundary reference position. Overall there is no evidence of a systematic change in plant noise since 2008.

Overall Assessment

The daytime noise limit of 55 dB(A) was complied with at all noise sensitive locations (houses). The specific noise from site operations component ranged from 34 dB(A) to 49 dB(A) at the noise sensitive locations.

The nighttime noise limit of 45 dB(A) was complied with at all noise sensitive locations. The specific noise from site operations component ranged from <30 dB(A) to 45 dB(A) at the noise sensitive locations.

(A 2 dB margin is permitted in the licence in interpreting limit exceedences.)

There was no noticeable measurable tonal, or impulsive component in the noise at the noise sensitive locations.

2.4.2 Groundwater Monitoring

In accordance with its IPC Licence, Wyeth Nutritionals is required to monitor groundwater on its site on a biannual basis. These monitoring events normally take place around March – April and September – November each year. However, following spill incidents 2006 where the corrective action included the monitoring of total and fecal coliforms in groundwater, the EPA requested that sampling the river upstream and downstream of the site and the discharge from the wastewater treatment plant.

During the monitoring period groundwater samples were extracted from five monitoring wells at various locations around the site. One well (101) was installed in 1998 as part of a due diligence assessment project and the remaining four wells (201 to 204) were installed in 2001 for the purpose of groundwater monitoring.

Samples were also taken from the nearby River Deel upstream and downstream of the site and from the wastewater discharge point. The locations of the wells and other sample locations are shown in *Fig. 11* below.

Sampling took place on the dates listed in the *Table 21* below:

| Sample Period Number | Date |
|----------------------|---------------------------|
| 1 | 30 th March |
| 2 | 7 th September |

Table 21: Dates for groundwater sampling in 2009.

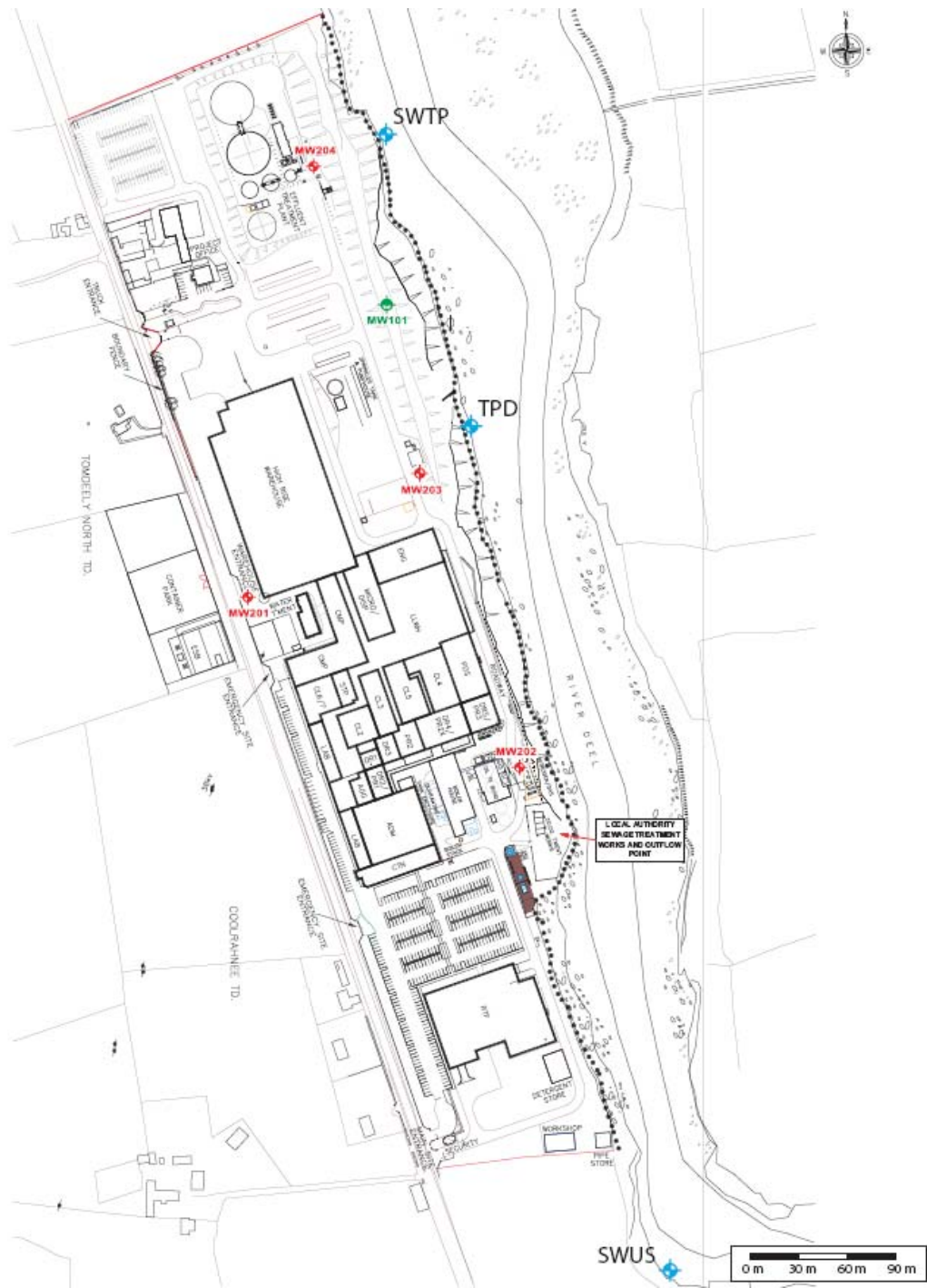


Figure 11: Locations of the monitoring wells and other sample points around the site.

Samples were obtained from each of the wells on both occasions and the results of field measurements and analysis are in *Tables 22 – 24* below.

| Parameter | Period | Sample ID | | | | |
|----------------------------------------------|--------|-----------|-------|-------|-------|-------|
| | | 101 | 201 | 202 | 203 | 204 |
| Nitrate as NO ₃ (mg/l) | 1 | 6.1 | 1.4 | - | 0.3 | - |
| | 2 | 6.9 | 2.8 | 0.7 | 0.4 | 0.8 |
| Chloride (mg/l) | 1 | 365 | 49 | 59 | 34 | 351 |
| | 2 | 536 | 61 | 113 | 33 | 376 |
| Sodium (mg/l) | 1 | 148 | 28 | 28 | 360 | 374 |
| | 2 | 267 | 37 | 87 | 23 | 429 |
| Calcium (mg/l) | 1 | 227 | 67 | 82 | 32 | 33 |
| | 2 | 234 | 91 | 67 | 129 | 39 |
| Fluoride (mg/l) | 1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 |
| | 2 | <0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| Magnesium (mg/l) | 1 | 39 | 8 | 12 | 6 | 6 |
| | 2 | 45 | 9 | 11 | 10 | 6 |
| Sulphate (soluble) (mg/l) | 1 | 82 | 17 | 15 | - | 17 |
| | 2 | 101 | 21 | 27 | 13 | 18 |
| Iron (mg/l) | 1 | - | - | - | - | - |
| | 2 | <0.5 | <0.5 | 1.4 | 7.2 | <0.5 |
| Manganese (mg/l) | 1 | 0.075 | 0.012 | 0.035 | 3.19 | 0.307 |
| | 2 | 0.074 | 0.015 | 1.38 | 2.190 | 0.251 |
| Nitrite as NO ₂ (mg/l) | 1 | - | - | - | - | - |
| | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 0.8 |
| Ortho-Phosphate as PO ₄ (mg/l) | 1 | 5.1 | 0.8 | 0.2 | - | - |
| | 2 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 |
| Potassium (mg/l) | 1 | 13 | 4 | 15 | 27 | 28 |
| | 2 | 16 | 5 | 9 | 12 | 24 |
| Total Alkalinity (CaCO ₃) (mg/l) | 1 | 523 | 239 | 245 | 310 | 655 |
| | 2 | 526 | 224 | 241 | 408 | 544 |
| COD (mg/l) | 1 | 26 | 50 | - | - | 32 |
| | 2 | 47 | <20 | <20 | <20 | 31 |

- below the limit of detection

Table 22: Inorganic analysis and COD results for samples

| Parameter | Period | Sample ID | | | | | | | |
|-------------------------------|--------|-----------|-----|------|-----|-----|-------|-------|------|
| | | 101 | 201 | 202 | 203 | 204 | SWUS | SWTP | TPD |
| BOD (mg/l) | 1 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2 | - | -* | 8 | - | - | -* | 6 | -* |
| Total Coliforms (mpn/100 ml) | 1 | 9 | 9 | 9300 | 93 | 9 | 230 | 93 | 90 |
| | 2 | 6 | 4 | 9330 | 44 | 50 | 41060 | 20140 | 1733 |
| Faecal Coliforms (mpn/100 ml) | 1 | - | - | 9300 | - | - | 40 | 93 | 90 |
| | 2 | - | - | 63 | - | - | 2660 | 2420 | - |

- below the limit of detection

-*indicates BOD not detected above lower detection limit of 2 mg/l

Table 23: BOD and bacteriological results for samples.

| Sample ID | Period | Depth to Water (mbtoc)* ¹ | Well Casing Elevation (mASD)* ² | Total Depth (mbtoc)* ¹ | Groundwater Elevation (mASD)* ² | Purged Volume (L) | Dissolved Oxygen (mg/l) | pH | Redox Potential (mV) | Electrical Conductivity (µS/cm) | Temp. (°C) |
|-----------|--------|--------------------------------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-------------------|-------------------------|------|----------------------|---------------------------------|------------|
| 101 | 1 | 11.43 | 15.92 | 15.5 | 4.49 | 24 | 3.9 | 7.21 | 88 | 1809 | 10.5 |
| | 2 | 10.88 | | | 5.04 | 30 | 3.63 | 7.25 | 68 | 2135 | 11.5 |
| 201 | 1 | 4.74 | 18 | 19.9 | 13.26 | 90 | 3.1 | 7.84 | 82 | 524 | 12.5 |
| | 2 | 4.24 | | | 13.76 | 105 | 4.72 | 8.12 | 43 | 250 | 14.6 |
| 202 | 1 | 11.38 | 15 | 14.72 | 3.62 | 18 | 2.6 | 7.72 | 10 | 547 | 13.5 |
| | 2 | 11.84 | | | 3.16 | 20 | 0.70 | 7.84 | -142 | 759 | 14.9 |
| 203 | 1 | 8.45 | 14.8 | 14.08 | 6.35 | 63 | 1.42 | 7.37 | 77 | 713 | 12.2 |
| | 2 | 6.53 | | | 8.28 | 95 | 1.24 | 7.95 | -112 | 530 | 12.3 |
| 204 | 1 | 3.21 | 8.44 | 7.18 | 5.23 | 24 | 1.89 | 7.68 | 68 | 1704 | 12.5 |
| | 2 | 2.77 | | | 5.68 | 33 | 0.52 | 8.17 | -72 | 1848 | 14.4 |
| swus | 1 | NA | NA | NA | NA | NA | 2.19 | 7.71 | 11 | 2818 | 8.6 |
| | 2 | NA | NA | NA | NA | NA | 5.7 | 8.7 | 54 | 1159 | 13.9 |
| swtp | 1 | NA | NA | NA | NA | NA | 3.7 | 6.65 | 101 | >3999 | 8.5 |
| | 2 | NA | NA | NA | NA | NA | 5.48 | 8.7 | 46 | 1984 | 14.0 |
| TPD | 1 | NA | NA | NA | NA | NA | 4.98 | 7.90 | 91 | 756 | 18.5 |
| | 2 | NA | NA | NA | NA | NA | 5.41 | 8.42 | 7 | 1695 | 23.3 |

*¹ meters below top of casing

*² meters above site datum

NA = Not Applicable

Table 24: Results of field measurements taken at each sample location.

Summary of Report Conclusions

Water levels during the reporting periods were consistent with previous monitoring data from the site and the inferred groundwater flow pattern remains from west to east across the site.

While there was expected variance in the levels for the different parameters measured, the combined sampling and analysis of groundwater and surface water samples illustrates the interaction between the groundwater and surface water along the site's eastern boundary.

There is considered to be a degree of mixing between groundwater and surface water close to the tidal River Deel estuary. During high tide in the river, the gradient of water flow is expected to be from the river outwards into the surrounding limestone aquifer, reversing under low tide conditions.

There appears to be a negative impact on the groundwater quality adjacent to the river in terms of bacteriological quality, due to a discharge from local authority sewage treatment facility within the WNI site.

This influence on groundwater quality is illustrated by the elevated total and faecal coliforms results for groundwater from well BH202, adjacent to the outfall from this sewage facility.

2.4.3 Bund Test Inventory

Bunds on the site are regularly tested in accordance with Condition 9 of the IPC licence. An inventory of retention facilities for the storage of potentially polluting substances, including bunds, is in *Table 25* below along with dates of previous testing and due dates for future testing.

| No. | Description | Last Recorded Test | Result | Test Due | Comment |
|-----|--------------------------------|--------------------|--------|----------------|--------------------------------------------------------------------------------------|
| 1 | Nitric Acid/HCL Bund | February, 2009 | Pass | February, 2012 | - |
| 2 | Main Caustic Storage Bund | October, 2008 | Pass | October, 2011 | - |
| 3 | RTF Acid Bund | October, 2007 | Pass | October, 2010 | - |
| 4 | RTF Acid Bund (SS Lined) | October, 2007 | Pass | October, 2010 | - |
| 5 | Ferric Sulphate Bund (WWTP) | October, 2007 | Pass | October, 2010 | - |
| 6 | Urea Storage Bund (WWTP) | October, 2007 | Pass | October, 2010 | - |
| 7 | Phosphoric Acid Bund | N/A | N/A | N/A | Decommissioned |
| 8 | RTF Products | N/A | N/A | N/A | Vessels used to store water and area is remotely connected to the foul sewer network |
| 9 | Effluent Waste Products Tank | N/A | N/A | N/A | Remote containment through connection to foul sewer network |
| 10 | Oil Storage Tanks Bund | May, 2007 | Pass | October, 2010 | - |
| 11 | DI Plant (Boilers) | N/A | N/A | N/A | Remote containment through connection to foul sewer network |
| 12 | Mix Process Tanks – Process 1 | August, 2007 | Pass | August, 2010 | New bund constructed |
| 13 | Mix Process Tanks – Process 2 | December, 2007 | Pass | December, 2011 | New bund constructed |
| 14 | Mix Process Tanks – Process 2X | December, 2007 | Pass | December, 2011 | New bund constructed |
| 15 | Mix Process Tanks – Process 3 | August, 2007 | Pass | August, 2010 | New bund constructed |

Table 25: Retention facilities on site for the storage of potentially polluting substances.

2.4.4 Closure Restoration and Aftercare Management Plan (CRAMP)

In accordance with Condition 14 of the IPPC licence, the CRAMP was reviewed taking into account any changes in infrastructure, productivity and waste disposal costs which may have occurred during the calendar year of 2009.

A summary of the review is as follows:

There were no structural changes or process changes on the site during 2009.

One new piece of equipment (chemical distribution system) was installed and no existing equipment was decommissioned during 2009.

The following cost updates were included in the CRAMP for the calendar year 2009:

- Quantities and costs for the removal of non-hazardous waste were reviewed and revised to reflect realistic current rates;
- An asbestos survey carried out the reporting period provided the basis for a more accurate estimate for asbestos removal and disposal.
- An estimate for the removal of waste oil was removed as it is considered that waste oil is included in the costs associated with hazardous waste disposal.
- Cost for the removal and disposal of fluorescent tubes was revised to reflect current pricing.

From the revised plan it was estimated that, in the very unlikely event of site closure involving complete cessation of all production activities by Wyeth Nutritionals, an allowance of €2, 079,182 would be required to confirm the site to an environmentally safe (inert) condition.

The CRAMP is reviewed annually.

2.4.5 Environmental Liabilities Risk Assessment (ELRA)

In accordance with Condition 15 of the IPPC licence, the ELRA was reviewed to reflect changes on the site during 2009.

There were no significant structural changes or process changes to the site nor any significant changes to abatement systems or other environmental protection systems took place. On this basis, no new risks were identified.

The existing risks were re-assessed and several changes were made both to occurrence ratings and severity ratings. These changes were made in order to increase consistency between risks. For example, for similar types of environmental impacts, the same severity rating should be given. Also, ratings were compared for different risks, for example, various hazardous chemical/fuel spills related risks had the same severity rating as dust/odour risks. However, a dust/odour nuisance event would have a much lower impact on the environment than would a chemical or fuel spill and so the severity risk should be lower. These changes did not result in a shift in any risk level so no additional environmental protection measures are required.

Other minor changes were made to the document to reflect the site's change of ownership, non-compliances that occurred during the reporting period and groundwater monitoring results which were added to the document.

After considering the changes outlined above no changes to the current financial provisions were deemed necessary.

2.4.6 Tank and Pipeline testing and Inspection Report

Following surveys of the foul sewer network during the years 2004 to 2006 inclusive, it was decided that from 2007 on, future surveys should not only include a CCTV survey but also include a hydrostatic test.

The underground foul sewer network on the site consists of several hundred meters of pipework, including manholes and floor gullies. However, there are only short windows of opportunity throughout the year when breaks in production allows for such work to be carried out safely and hygienically. With this in mind, it was decided to break the network into three distinct areas, with one area scheduled for inspection and testing each year over a three-year rotation.

During the July-August plant shutdown of the reporting period, additional outstanding remediation work was completed on section 2 of the network.

More work has to be completed on areas of the network in section 2 identified during the survey and it is planned to continue this during 2010.

Appendix 1



| PRTR# : P0395 | Facility Name : AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | Filename : P0395_2009.xls | Return Year : 2009 |

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AER Returns Worksheet

Version 1.1.10

| | |
|-----------------------|------|
| REFERENCE YEAR | 2009 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|-------------------------------------------------------|
| Parent Company Name | AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland |
| Facility Name | AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland |
| PRTR Identification Number | P0395 |
| Licence Number | P0395-02 |

Waste or IPPC Classes of Activity

| No. | class name |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 7.2.1 | The treatment and processing of milk, the quantity of milk received being greater than 200 tonnes per day (average value on a yearly basis). |
| 2.1 | The operation of combustion installations with a rated thermal input equal to or greater than 50MW |

| | |
|------------------------------------------------|----------------------------------------|
| Address 1 | Askeaton |
| Address 2 | County Limerick |
| Address 3 | |
| Address 4 | |
| Country | Ireland |
| Coordinates of Location | -8.98231 52.6095 |
| River Basin District | IEGBNISH |
| NACE Code | 1051 |
| Main Economic Activity | Operation of dairies and cheese making |
| AER Returns Contact Name | Brian Shiel |
| AER Returns Contact Email Address | ShielB@wyeth.com |
| AER Returns Contact Position | EHS Manager |
| AER Returns Contact Telephone Number | 061-392168 |
| AER Returns Contact Mobile Phone Number | |
| AER Returns Contact Fax Number | 061-392440 |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | 0 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 0 |
| User Feedback/Comments | |
| Web Address | |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|-----------------|-----------------------------------------------------------|
| 8(c) | Treatment and processing of milk |
| 1(c) | Thermal power stations and other combustion installations |

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? | |

4.1 RELEASES TO AIR

| PRTR#: P0395 | Facility Name : AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | Filename : P0395_2009.xls | Return Year : 2009 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| RELEASES TO AIR | | | | | | | | | | | |
|-----------------|---------------------------|-------|-------------|----------------------------|--------------------|------------------|------------------|------------------|-------------------|------------------------|----------------------|
| No. Annex II | POLLUTANT Name | M/C/E | METHOD | | ADD EMISSION POINT | | | | QUANTITY | | |
| | | | Method Code | Designation or Description | A1-1 | A1-2 | A1-4 | Site | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | Emission Point 1 | Emission Point 2 | Emission Point 3 | Emission Point 4 | | | |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D2 | Carbon monoxide (CO) | C | OTH | ISO 12039 | 17766.0 | 373.5 | 8.87 | 0.0 | 18148.37 | 0.0 | 0.0 |
| D3 | Carbon dioxide (CO2) | C | ETS | | 0.0 | 0.0 | 0.0 | 42805000.0 | 42805000.0 | 0.0 | 0.0 |
| D8 | Nitrogen oxides (NOx/NO2) | M | ISO 10849 | | 43679.0 | 891.42 | 295.37 | 0.0 | 44865.79 | 0.0 | 0.0 |

ADD NEW ROW | DELETE ROW * * Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

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

ADD NEW ROW | DELETE ROW * * Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

| RELEASES TO AIR | | | | | | | | | | | | | |
|-----------------|----------------|-------|-------------|----------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------------|----------------------|
| Pollutant No. | POLLUTANT Name | M/C/E | METHOD | | ADD EMISSION POINT | | | | | | QUANTITY | | |
| | | | Method Code | Designation or Description | A2-1 | A2-2 | A2-3 | A2-4 | A2-5 | A2-6 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | Emission Point 1 | Emission Point 2 | Emission Point 3 | Emission Point 4 | Emission Point 5 | Emission Point 6 | | | |
| 210 | Dust | M | ISO 9096 | | 3153.0 | 164.083 | 7457.0 | 14006.0 | 318.37 | 14188.0 | 39266.453 | 0.0 | 0.0 |

ADD NEW ROW | DELETE ROW * * Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T (Total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:
Please enter summary data on the quantities of methane flared and / or utilised

| T (Total) kg/Year | M/C/E | METHOD | | Facility Total Capacity m3 per hour |
|--------------------------------------------------------|-------|-------------|----------------------------|-------------------------------------|
| | | Method Code | Designation or Description | |
| AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | | | | |
| Total estimated methane generation (as per site model) | 0.0 | | | N/A |
| Methane flared | 0.0 | | | 0.0 (Total Flaring Capacity) |
| Methane utilised in engine/s | 0.0 | | | 0.0 (Total Utilising Capacity) |
| Net methane emission (as reported in Section A above) | 0.0 | | | N/A |

4.2 RELEASES TO WATERS

| PRTR#: P0395 | Facility Name: AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | Filename: P0395_2009.xls | Return Year: 2009 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR

| RELEASES TO WATERS | | | | | | | | | |
|--------------------|------------------|--------------|-------------|-------------------------------------------------------------------------------------------------|--------------------|-------------------|------------------------|----------------------|-----|
| POLLUTANT | | Method Used | | | ADD EMISSION POINT | QUANTITY | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year | |
| 12 | Total nitrogen | M | PER | 1007 Colorimetric-Hach Method | SW1 | 4702.0 | 4702.0 | 0.0 | 0.0 |
| 13 | Total phosphorus | M | PER | 8190 Colorimetric-Hach Method | | 210.0 | 210.0 | 0.0 | 0.0 |
| ADD NEW ROW | | DELETE ROW * | | * Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button | | | | | |

| RELEASES TO WATERS | | | | | | | | | |
|--------------------|------|--------------|-------------|-------------------------------------------------------------------------------------------------|--------------------|-------------------|------------------------|----------------------|-----|
| POLLUTANT | | Method Used | | | ADD EMISSION POINT | QUANTITY | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year | |
| | | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| ADD NEW ROW | | DELETE ROW * | | * Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button | | | | | |

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

| RELEASES TO WATERS | | | | | | | | | |
|--------------------|------------------------|-------------|-------------|-----------------------------------|--------------------|-------------------|------------------------|----------------------|-----|
| POLLUTANT | | Method Used | | | ADD EMISSION POINT | QUANTITY | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year | |
| 301 | Acetate | M | PER | 10031 Colorimetric-Hach Method | | 864.0 | 864.0 | 0.0 | 0.0 |
| 303 | BOD | M | PER | 5-day BOD test | | 9183.0 | 9183.0 | 0.0 | 0.0 |
| 314 | Fats, Oils and Greases | E | Estimate | | | 7230.0 | 0.0 | 0.0 | 0.0 |
| 240 | Suspended Solids | M | PER | Standard method | | 12214.0 | 12214.0 | 0.0 | 0.0 |

4.3 RELEASES TO WASTEWATER OR SEWER

| PRTR# : P0395 | Facility Name : AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | Filenan 23/03/2010 16:29

SECTION A : PRTR POLLUTANTS

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | | | | |
|----------------------------------------------------------------------------|------|--------|-------------|----------------------------|--------------------|-------------------|------------------------|----------------------|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | | 0.0 | 0.0 | 0.0 |

ADD NEW ROW | DELETE ROW * | * 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 | | METHOD | | | ADD EMISSION POINT | QUANTITY | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | | 0.0 | 0.0 | 0.0 |

4.4 RELEASES TO LAND

| PRTR# : P0395 | Facility Name : AHP Manufacturing B.V. t/a Wyeth Nutritionals Ireland | Filename : P0395_2009.xls | Return Year : 2009 |

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SECTION A : PRTR POLLUTANTS

| RELEASES TO LAND | | | | | | | |
|------------------|------|--------|-------------|----------------------------|--------------------|-------------------|------------------------|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year |
| | | | | | | 0.0 | 0.0 |

ADD NEW ROW DELETE ROW * * 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)

| RELEASES TO LAND | | | | | | | |
|------------------|------|--------|-------------|----------------------------|--------------------|-------------------|------------------------|
| POLLUTANT | | METHOD | | | ADD EMISSION POINT | QUANTITY | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year |
| | | | | | | 0.0 | 0.0 |

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRODR: P0295] Facility Name: A/P Manufacturing D.V. 59 Wyeth Nutritionals Ireland | File name: P0295_2009.xls | Return Year: 2009 |

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| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | M/C/E | Method Used | Location of Treatment | HSE Waste - Name and Licence/Permit No. of Next Destination Facility | | Name and License / Permit No. and Address of Final Recycler / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|------------------------------------------|---------------------------|-------|-------------|-----------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| | | | | | | | | | HSE Waste - Name and Licence/Permit No. of Recycler/Disposer | HSE Waste - Address of Next Destination Facility | | |
| Within the Country | 20 01 01 | No | 17.07 | Paper | R3 | M | Weighed | Onsite in Ireland | DMG Services T/A Shred It, WFP-DC-09-0011-01 | Parkwest Ind Est., Dublin, 12, Ireland | | |
| Within the Country | 20 01 01 | No | 544.23 | Cardboard and plastic packaging | R3 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 01 | No | 50.95 | Plastic Packaging | R3 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 01 | No | 27.9 | Cardboard | R3 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 40 | No | 721.88 | Metal | R4 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 15 01 07 | No | 19.86 | Glass Packaging | R5 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 02 05 02 | No | 3133.44 | Sludge | R3 | M | Weighed | Onsite in Ireland | Molasin Compost Ltd., WP 66/08 | Kilmolash, Cappoquin, Co. Waterford, Ireland | | |
| Within the Country | 20 01 40 | No | 42.64 | Metal | R4 | M | Weighed | Onsite in Ireland | Onsite ES Metals (Ir.) Ltd T/A Hegarty Metals, WPO5-04 | Ballysimon Road, Limerick, Ireland | | |
| Within the Country | 02 05 99 | No | 156.16 | Waste liquid product including packaging | R3 | M | Weighed | Onsite in Ireland | Mr. Joseph Waddock, W/P 02/08 | Killamaster, Co. Carlow, Ireland | | |
| Within the Country | 20 03 01 | No | 659.47 | General food and office waste | D1 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 03 01 | No | 1841.24 | Waste product and raw materials | D1 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 25 | No | 2.08 | Used cooking oil | R1 | M | Weighed | Onsite in Ireland | Frylite Ltd., WR/77 | Kilcolgan, Co. Galway, Ireland | | |
| Within the Country | 02 03 04 | No | 116.26 | Waste vegetable oil | R3 | M | Weighed | Onsite in Ireland | McGill Environmental Systems, W0180-01 | Croom, Camrangan/Glenville, Co. Cork, Ireland | | |
| Within the Country | 19 09 01 | No | 178.4 | C&D waste | R3 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 30 | No | 6.18 | Timber | R3 | M | Weighed | Onsite in Ireland | Veolia Environmental Services Ltd., W0082-02 | Ballykeefe Towland, Dock Road, Limerick, Ireland | | |
| Within the Country | 20 01 35 | Yes | 0.002685 | WEEE | R4 | M | Weighed | Onsite in Ireland | Inish Lamp Recycling Ltd., WFP-KE-08-0348-01 | Woodstock Ind Est., Athy, Co. Kildare, Ireland | Woodstock Ind Est., Athy, Co. Kildare, Ireland | |
| Within the Country | 20 01 21 | Yes | 0.000554 | Fluorescent lamps | R5 | M | Weighed | Onsite in Ireland | Inish Lamp Recycling Ltd., WFP-KE-08-0348-01 | Woodstock Ind Est., Athy, Co. Kildare, Ireland | Woodstock Ind Est., Athy, Co. Kildare, Ireland | |
| Within the Country | 20 01 33 | Yes | 0.00009 | Batteries | R11 | M | Weighed | Onsite in Ireland | Inish Lamp Recycling Ltd., WFP-KE-08-0348-01 | Woodstock Ind Est., Athy, Co. Kildare, Ireland | Woodstock Ind Est., Athy, Co. Kildare, Ireland | |
| To Other Countries | 07 01 04 | Yes | 2.079 | Mixed solvents | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 15 01 10 | Yes | 0.082 | Used drums | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| Within the Country | 15 01 10 | Yes | 2.04 | Used drums | D9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0041-1, Smithstown Ind Est., Shannon, Co. Clare, Ireland | Smithstown Ind Est., Shannon, Co. Clare, Ireland |
| Within the Country | 16 05 04 | Yes | 0.016 | Aerosol cans | R4 | M | Weighed | Onsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |
| Within the Country | 16 05 06 | Yes | 0.223 | Waste laboratory chemicals | D9 | M | Weighed | Onsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Smithstown Ind Est., Shannon, Co. Clare, Ireland |
| To Other Countries | 16 05 06 | Yes | 2.586 | Waste laboratory chemicals | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 16 05 07 | Yes | 0.008 | Waste water treatment chemicals | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| Within the Country | 16 05 07 | Yes | 1.101 | Waste water treatment chemicals | D9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0041-1, Smithstown Ind Est., Shannon, Co. Clare, Ireland | Smithstown Ind Est., Shannon, Co. Clare, Ireland |
| To Other Countries | 20 01 25 | No | 4.181 | Edible oil and fat | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 20 01 26 | Yes | 3.362 | Vegetable fat | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| Within the Country | 18 01 03 | Yes | 0.012 | Sharps | D9 | M | Weighed | Offsite in Ireland | Sterile Technologies Ireland Ltd., W0055-02 | Unit 420-430 Beech Road, Western Ind Est., Naas Road Dublin 12, Ireland | Unit 420-430 Beech Road, Western Ind Est., Naas Road Dublin 12, Ireland | |
| Within the Country | 15 01 02 | No | 0.001 | Used drums | D9 | M | Weighed | Onsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |
| To Other Countries | 16 05 09 | No | 7.856 | Vitamins and minerals | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| Within the Country | 16 05 09 | No | 0.55 | Vitamins and minerals | D9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |
| To Other Countries | 20 01 30 | No | 0.026 | Detergent | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 06 02 05 | Yes | 0.843 | Waste chemical | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 08 03 12 | Yes | 0.01 | Waste ink | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 08 04 09 | Yes | 0.012 | Waste adhesive | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 13 01 13 | Yes | 0.258 | Waste oil | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| To Other Countries | 16 05 08 | Yes | 2.845 | Vitamins and minerals | R1 | M | Weighed | Abroad | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | Umweltservice, E97096037 K rombacher Strabe 42-46, 57223, Kreuztal, Germany | Krombacher Strabe 42-46, 57223, Kreuztal, Germany |
| Within the Country | 13 02 08 | Yes | 8.039 | Waste oil | R9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |
| Within the Country | 13 08 02 | Yes | 0.111 | Waste oil | R9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |
| Within the Country | 13 07 03 | Yes | 9.569 | Waste oil | R9 | M | Weighed | Offsite in Ireland | ENVA Ireland Ltd., W0041-1 | Smithstown Ind Est., Shannon, Co. Clare, Ireland | ENVA Ir. Ltd., W0184-1, Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland | Clonminam Ind Est., Portlaoise, Co. Laoise, Ireland |

