



ANNUAL ENVIRONMENTAL REPORT 2009
SUBMITTED TO ENVIRONMENTAL PROTECTION AGENCY

REPORTING PERIOD: JANUARY - DECEMBER 2009

SUBMITTED: MARCH 2010

ENVA
JFK Road,
Naas Road,
Dublin 12

WASTE LICENCE NUMBER W0196-1



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ENVIRONMENTAL, HEALTH, SAFETY & QUALITY POLICY



Health, Safety & Environmental Policy


ENVA is a leading supplier of specialist waste & wastewater related products/services in Ireland and the UK. Our capabilities include waste treatment within our own sites, waste handling, emergency response services, the production and supply of chemical products for water treatment and other purposes, the design/installation of water treatment systems at customer sites, the provision of analytical services as well as other products and services associated with the above.

ENVA operates to OHSAS 18001 and ISO 14001 standards for occupational health and safety and environmental management. Compliance with all applicable legal HSE requirements are only a minimum starting point as we are committed to continually improving our performance in relation to health, safety and the environment.

We seek to do this by:

- Consulting our HSE committee (selected by our employees) on HSE matters.
- Identifying safety hazards including chemical hazards, assessing and managing these so as to minimise risk as far as practicable.
- Seeking to prevent ill health and occupational injury especially those arising from occupational exposure, manual handling, use of equipment/tools, slips, trips and falls.
- Minimising the need for and risks associated with confined space entry and hazardous materials.
- Providing safe places of work and healthy working conditions for employees and visitors.
- Promoting the provision of recovery options for waste in preference to direct disposal.
- Preventing pollution to any environmental media and minimising the environmental impact of emissions to water, land and air.
- Communicating with customers to ensure necessary information is provided and precautions are taken when collecting and handling waste, providing treatment or other services for customers..
- Being prepared for reasonably foreseeable emergency situations.
- Assessing and considering the performance of third parties used by us who may have potential for significant environmental impact.
- Using energy and natural resources efficiently.
- Communicating appropriately with our employees in relation to HSE matters and providing appropriate information and training
- Expecting the cooperation of our employees in relation to HSE management.

We will set improvement objectives and targets on an annual basis in order to achieve goals consistent with the above and monitor the implementation of these.


Declan Ryan, Managing Director

15/6/09
Date.

1.0 INTRODUCTION

1.1. General Description

Enva Ireland is located in JFK Road, Naas Road, Dublin 12. This site is licenced since 2004. Waste activities carried out on site include the storage of waste for onward movement and the processing of oily waters and waste waters.

1.2 Waste Management Activities carried out at the Facility.

Third Schedule

Class 7. Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule (including evaporation, drying and calcination).



Class 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph to this schedule.

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

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

Fourth Schedule

Class 3. Recycling or reclamation of other inorganic metals and metal compounds

Class 4. Recycling or reclamation of other inorganic materials.

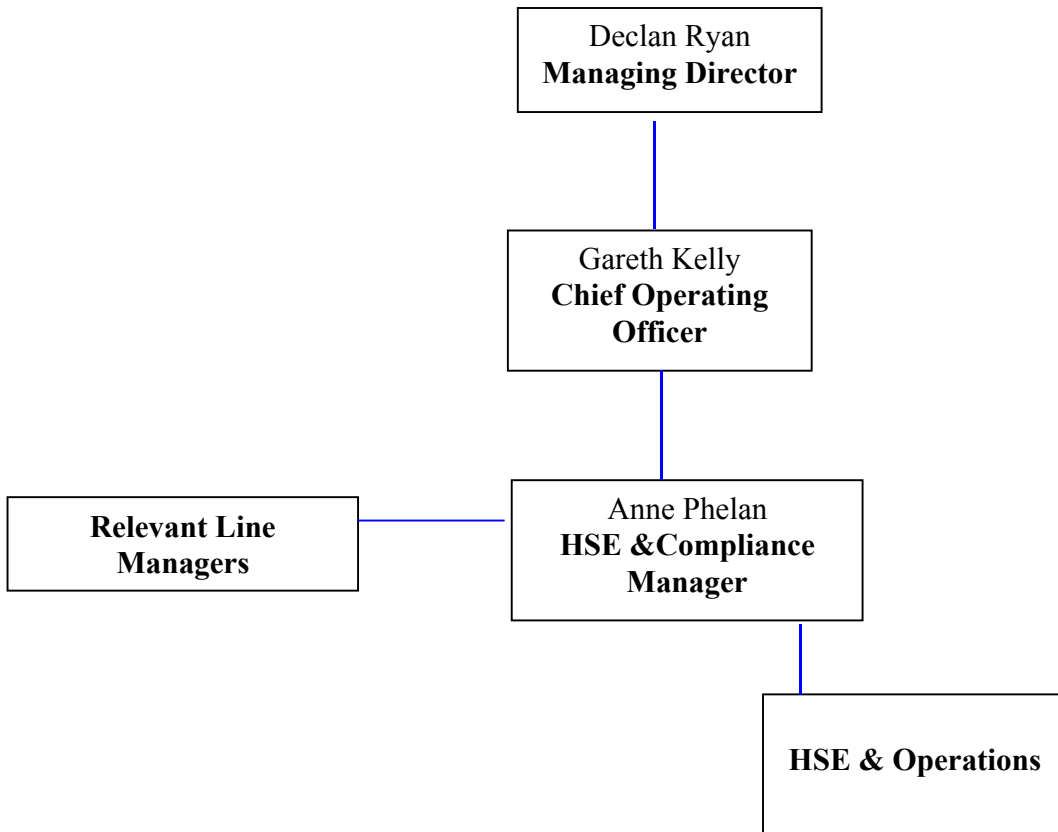
Class 6 Recovery of components used for pollution abatement.

Class 8. Oil re-refining or other re-uses of oil.

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



1.3 Management Structure





2.0 WASTE ACTIVITIES

Quantities of waste to be accepted on site as detailed in Schedule A of waste licence W0196-1.

Table 1

Waste Type	Quantity (tonnes per annum) Schedule A of W0196-1	Quantity (tonnes per annum) 2009
Hazardous	35,250	1578.83
Industrial waste	150	
Total	35,400	1578.83

2.1 Waste Volumes Received

Waste description	EWC Codes	2009(tonnes) Received
Contaminated wood	17 02 04*	23.64
Waste waters	01 05 04	70.76
Waste oils	13 01 03*	0.4
Waste oils	13 02 08*	1.06
Waste oils	13 03 07*	3.46
Waste oils	13 04 03*	7.86
Solids from oil water separators	13 05 01*	5.54
Liquid oily sludge's from oil/water separators	13 05 02*	22.07
Interceptor sludge's/solids	13 05 03*	41.84
Oil from oil/water separators	13 05 06*	6.98
Oily water from oil water separators	13 05 07*	695.81
Mixtures of waters from grit chambers	13 05 08*	99.72
Waste oil/Fuel Mix	13 07 01*	11.82
Emulsions of oils and oily waters	13 08 02*	682.27
Aqueous liquid waste	16 10 02	14.86
Landfill leachate	19 07 03	678.86
Street cleaning residues	20 03 03	12.54



Grease trap waste	02 03 04	10.12
Total volume accepted on site.		2389.61

2.2 Waste sent off site

Waste description	EWC Codes	2009(tonnes) sent off site
Waste oily water	13 05 07*	342.42
Waste oils	13 03 07*	46
Oily sludge	13 05 02*	25.74
Grease trap waste	02 03 04	45.07
Contaminated wood	17 02 04*	24
Separated solids from oil water separation	13 05 01*	119.56

3.0 EMISSIONS

3.1 Surface water emissions monitoring

Quarter 1.

Representative sample could not be obtained from the out flow of the interceptor for the reporting period due to extremely low flow on the out fall. This has also been experienced by the Agency staff upon site sampling visits.

Quarter 2

Parameter	Date sampled	Result
pH	27/04/09	8.33
BOD (mg/l)*Note	27/04/09	1.43
COD (mg/l)	27/04/09	23.5
Suspended solids (mg/l)	27/04/09	<6
Mineral oils (ug/l)	27/04/09	<10

Quarter 3

Parameter	Date sampled	Result
pH	02/09/09	7.6
BOD (mg/l)*Note	02/09/09	1.47
COD (mg/l)	02/09/09	30.3
Suspended solids (mg/l)	02/09/09	7.5



Mineral oils (ug/l)	02/09/09	5
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Quarter 4

Parameter	Date	Result
pH	22/10/09	7.8
BOD (mg/l)	22/10/09	2.78
COD (mg/l)	22/10/09	30
Suspended solids (mg/l)	22/10/09	7.5
Mineral oils (ug/l)	22/10/09	0.49

3.2 Waste water emissions

Table 3.2 a: Volume, COD & BOD of monthly effluent released

Date	Volume	COD mg/l	COD kg/day	BOD mg/l	BOD Kg/day
January	No release				
13.02.09	45	484	21.78	75	3.38
25/03/2009	44	238	10.47	88	3.87
20/04/2009	42	520	21.84	240	10.08
26/05/2009	42	582	24.44	164	6.88
02/06/2009	40.625	417	16.94	168	6.83
08/07/2009	43.344	320	13.87	112	4.85
10/08/2009	41.818	323	13.51	96.9	4.05
10/09/2009	50.318	239	12.03	173	8.71
08/10/2009	48.194	218	10.51	81.3	3.91
17/11/2009	48.868	241	11.78	101	4.94
11/12/2009	11.275	172	1.94	84.8	0.96

Table 3.2 b: SS, Sulphates & Zinc

Date	SS (mg/l)	SS(kg/day)	SO 4(mg/l)	SO4(kg/day)	Zn (mg/l)	Zn(kg/day)
January	No release					
13.02.09	12	0.54	101.4	4.56	0.2218	0.0100
25/03/2009	137	6.03	210.4	9.29	0.0319	0.0014
20/04/2009	128	5.38	86.1	3.62	0.2027	0.0085
26/05/2009	132	5.54	402.2	16.89	0.1468	0.0062
02/06/2009	58	2.36	64.7	2.63	0.3443	0.0140
08/07/2009	19	0.26	21	0.04	0.084	0.0036
10/08/2009	230	9.67	0.1	0.00	0.267	0.0111
10/09/2009	10	0.50	105.5	5.31	0.1623	0.0082



08/10/2009	46	2.22	379.3	18.28	0.0009	0.0000
17/11/2009	10	0.49	66.1	3.23	0.1073	0.0052
11/12/2009	81	0.91	318.4	3.59	2.8921	0.0326

Table 3.2 c: Copper, Phosphates, pH and Temperature

Date	Cu (mg/l)	Cu (kg/day)	PO4P(mg/l)	PO4P (kg/day)	pH	Temp.°C
January	No release					
13.02.09	0.018	0.0008	14	0.63	6.68	15.1
25/03/2009	0	0.0000	0.08	0.00352	7.4	14.3
20/04/2009	0.004	0.0002	0.08	0.00336	7.58	15.5
26/05/2009	0.036	0.0015	0.476	0.02	7.13	21.5
02/06/2009	0.039	0.0016	0.8	0.032	7.51	23
08/07/2009	0.026	0.0011	2.84	0.098	7.54	18.5
10/08/2009	0.046	0.0019	0.08	0.0033	7.7	19.3
10/09/2009	0.051	0.0026	0.08	0.0033	7.57	20.4
08/10/2009	0.016	0.0008	0.08	0.0033	7.66	12.1
17/11/2009	0.017	0.0008	0.08	0.0033	7.48	16.4
11/12/2009	0.089	0.0010	<0.03	0.0003	7.81	10.9

Table 3.2 d: Mineral oil, detergents, Toluenes & o/m/p Xylenes

Date	Mineral Oil (mg/l)	Mineral oil (kg/day)	Detergents (mg/l)	Detergents (kg/day)	Toluenes (mg/l)	Toluenes (kg/day)	o/m/p Xylenes mg/l	o/m/p Xylenes kg/day
January	No release							
13.02.09	1.736	0.078	0.7	0.0315	1	0.0450	1	0.045
25/03/2009	11	0.484	0.91	0.04004	0.46	0.0202	0.73	0.032
20/04/2009	2.1	0.0882	1.6	0.0672	0.028	0.0012	0.044	0.002
26/05/2009	1.84	0.0773	0.8	0.034	0.04	0.0017	0.201	0.008
02/06/2009	1.24	0.0503	1.1	0.044	0.022	0.0000	0.117	0.005
08/07/2009	1.23	0.0533	3.1	0.134	0.076	0.0033	0.043	0.002
10/08/2009	2.03	0.0849	13.9	0.581	0.508	0.0212	0.543	0.023
10/09/2009	1.59	0.08	6.11	0.307	0.327	0.0164	0.931	0.047
08/10/2009	5.03	0.2424	2.65	0.128	0.178	0.0009	0.0783	0.004
17/11/2009	2.65	0.1295	5.18	0.253	0.0711	0.0035	0.1193	0.006
11/12/2009	15.8	0.1781	3.16	0.0356	0.0748	0.0008	0.1016	0.001

Table 3.2 e: Volume of waste water produced

Year	Volume of effluent released (tonnes)
2009	1818.63

3.3 Groundwater monitoring

Quarter 1

Table 1: Groundwater monitoring for January.

Parameter	Date sampled	Result
Visual	29.01.09	Greyish cloudy
Electrical conductivity (μ S)	29.01.09	817

Table 2: Groundwater monitoring for February

Parameter	Date sampled	Result
Visual	18/02/09	Greyish cloudy
Electrical conductivity (μ S)	18/02/09	890
pH	18/02/09	6.4
Temp ($^{\circ}$ C)	18/02/09	13
Mineral Oil (ug/l)	18/02/09	<10
BTEX	18/02/09	<10
Groundwater Level	18/02/09	2.96

Table 3: Groundwater monitoring for March

Parameter	Date sampled	Result
Visual	30.03.09	Greyish cloudy
Electrical conductivity (μ S)	30.03.09	867

Quarter 2

Table 4: Groundwater monitoring for April.

Parameter	Date sampled	Result
Visual	22/04/09	Greyish
Electrical conductivity (μ S)	22/04/09	684
pH	22/04/09	7.4
Temp ($^{\circ}$ C)	22/04/09	16.7
Mineral Oil (ug/l)	22/04/09	<10
BTEX	22/04/09	<10
Groundwater Level	22/04/09	2.75
DO (mg/l)	22/04/09	6.48



Table 5: Groundwater monitoring for May

Parameter	Date sampled	Result
Visual	27/05/09	Greyish
Electrical conductivity (μ S)	27/05/09	837

Table 6: Groundwater monitoring for June

Parameter	Date sampled	Result
Visual	23/06/09	Greyish
Electrical conductivity (μ S)	23/06/09	823

Quarter 3

Table 7: Groundwater monitoring for July.

Parameter	Date sampled	Result
Visual	29.07.09	Greyish Cloudy
Electrical conductivity (μ S)	29.07.09	784
pH	29.07.09	7.18
Temp ($^{\circ}$ C)	29.07.09	14.7
Mineral Oil (ug/l)	29.07.09	<10
BTEX (ug/l)	29.07.09	<10
Groundwater Level	29.07.09	2.79
DO (mg/l)	29.07.09	6.45

Table 8: Groundwater monitoring for August

Parameter	Date sampled	Result
Visual	31.08.09	Greyish Cloudy
Electrical conductivity (μ S)	31.08.09	840

Table 9: Groundwater monitoring for September

Parameter	Date sampled	Result
Visual	22.09.09	Greyish Cloudy
Electrical conductivity (μ S)	22.09.09	793

Quarter 4

Table 10: Groundwater monitoring for October.

Parameter	Date sampled	Result
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Visual	30/10/2009	Clear
Electrical conductivity (μ S)	30/10/2009	794
pH	30/10/2009	7.29
Temp ($^{\circ}$ C)	30/10/2009	13.9
Mineral Oil (ug/l)	30/10/2009	<10
BTEX (ug/l)	30/10/2009	<10
Groundwater Level	30/10/2009	2.9
DO (mg/l)	30/10/2009	3.11

Table 11: Groundwater monitoring for November.

Parameter	Date sampled	Result
Visual	27/11/2009	Greyish
Electrical conductivity (μ S)	27/11/2009	796

Table 12: Groundwater monitoring for December.

Parameter	Date sampled	Result
Visual	21/12/09	greyish
Electrical conductivity (μ S)	21/12/09	860

3.4 Noise Monitoring

Appendix 1 includes the noise monitoring report carried out for the site in 2009. No significant noise sources were identified which attributable to any on site activities.

3.5 Monitoring Locations

Appendix 2 indicates the site monitoring locations, noise monitoring locations are attached to the noise monitoring report.

4.0 ENVIRONMENTAL MANAGEMENT

4.1 Environmental Management programme.

Appendix 3 details the status of objectives and targets for the site



4.2 Summary of Standard Operating Procedures since January 2009

The following procedures have been drafted/ revised in 2009:

- Waste acceptance procedure
- Release of effluent
- Unloading of liquid waste into the tank farm
- Operation of filter press
- Acceptance, handling and storage of packaged wastes
- Determination of Chemical Oxygen Demand
- Determination of Suspended solids.

5.0 NON-CONFORMANCES

There were 3 non conformances reported from an Agency audit carried out on the 15th of February 2008. Corrective actions have been put in place for all incidents.

There was one non-conformance with regard to an elevated level of mineral oil present in the effluent release.

6.0 PUBLIC INFORMATION

Please see Appendix 4 for the Enva Communications procedure

7.0 OEE METHODOLOGY FOR DETERMINATION OF ENFORCEMENT CATEGORIES

Submitted to the Agency as per Appendix 5

8.0 PRTR

Submitted to the Agency as per Appendix 6

9.0 REVIEW OF NUISANCE CONTROLS.

A weekly site inspection is carried out to ensure that all bunds are good condition and that there are no nuisances present on site.

APPENDIX 1



CONFIDENTIAL REPORT

Client

Enva Ireland Ltd
Clonminam Industrial Estate
Portlaoise
Co. Laois
Attn. Ms. Anne Phelan

Title

Annual Environmental Noise Survey
2009
Enva Ireland Ltd. – Dublin
EPA Waste Licence Reg. No. 196-1

Report Ref: 1025

Report by: Frances Wright
BSc. Pg Dip. Env., Dip S&H
Frances Wright

Date recd:

Approved by: Paddy Wright
BSc. Pg.Dip.Chem.Eng., BOHS Cert.

Paddy Wright

Copies to:

Date: 11th June 2009

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1. INTRODUCTION:

Enva Ireland Ltd. operate a waste recovery facility at JFK Industrial Estate, JFK Road, Naas Road, Dublin 12 which is licensed under the EPA Waste Licence system (Reg. No. 196-1). Schedule D of the company's licence requires an annual Environmental Noise Survey to be undertaken.

At the request of Ms. Anne Phelan of Enva Ireland Ltd., Wright Environmental Services carried out this Noise Survey on the 2nd June 2009.

This report presents and interprets the results of the survey with reference to the companies waste licence noise limits. The methodology used for the survey is described in Appendix I. Instrumentation and calibration is described in Appendix II. Monitoring locations are shown in the site map in Appendix III. Appendix IV presents the 1/3 octave band analysis of the noise at monitoring locations.

2. SUMMARY

Wright Environmental Services carried out the day (08:00 – 22:00) and night (22:00 – 08:00) Environmental Noise Survey on the 2nd June 2009.

The dominant noise at the sampling locations was external industrial noise and traffic noise from the busy industrial road (JFK Road). The main activity onsite during the daytime survey was tank repairs and the occasional vehicle moving in/out and around the site. There was no activity or noise from the facility during the night time monitoring period.

The noise sensitive location, NSL 1, is located beside the busy JFK road in the industrial estate. Noise levels at NSL 1, were above the criterion levels set in the waste licence. However, noise levels are mainly affected by the high volume of traffic passing this location and extraneous industrial noise from the surrounding area. Except for one car leaving the site, there was no noise audible from Enva Ireland Ltd.

There was no tone audible in the noise emission from the activity at the monitoring locations. One third octave band analysis of the noise is presented in Appendix IV. A tonal feature was measure at NSL 1 at 50Hz (daytime) and NB 4 at 63Hz. Extraneous noise from the surrounding industrial estate was the dominant noise source during the one third octave band monitoring. This is the more likely source of the tone.

It is therefore concluded that Enva Ireland are in compliance with the noise requirements of their licence.

3. MONITORING RESULTS AND DISCUSSION:

Wright Environmental Services carried out the day (08:00 – 22:00) and night (22:00 – 08:00) Environmental Noise Survey on the 2nd June 2009. The monitoring locations are described below and are shown in the site map in Appendix III.

- Location **NB 1**: This is a boundary location to the south/east of the site.
- Location **NB 2**: This is a boundary location to the east of the site.
- Location **NB 3**: This is a boundary location to the north/east of the site.
- Location **NB 4**: This is a boundary location to the west of the site.
- Location **NSL 1**: This noise sensitive locations is the neighbouring facility to the west. It is near the roadside on the busy JFK road in the JFK industrial estate. The neighbouring facility is a place of worship.

Enva Ireland do not operate during night time (22:00 – 08:00). Noise monitoring was therefore carried out at all locations during the daytime survey and at the noise sensitive location only during the night time survey.

The following "A-Weighted" data was determined for each discrete sampling period.

- L_{eq}** : The equivalent continuous noise level for the measurement period.
(This is defined as the sound level of a steady sound having the same energy as a fluctuating sound over the specified measuring period).
- L₍₁₎** : The noise level exceeded for 1% of the measurement period.
(This parameter gives a good indication of typical maximum levels.)
- L₍₁₀₎** : The noise level exceeded for 10% of the measurement period.
- L₍₉₀₎** : The noise level exceeded for 90% of the measurement period.
(This is taken to represent the background noise level).

Detailed results are presented in Table 1 and 2 below along with appropriate comments regarding noise in the monitoring environment.

Table 1

Boundary Locations Results – 2nd June 2009

Monitoring Position	Time	L _{eq} (dBA)	L ₁ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	Comments
NB 1	14:53 – 15:23	50	59	52	44	Activity onsite included: Tractor on idle, repair work on a tank. Dominant noise sources are external industrial noise from surrounding industrial estate and traffic noise. Noise from electrical generator from neighbouring (opposite) facility was clearly audible. Forklift operating in neighbours yard.
NB 2	15:24 – 15:54	47	55	49	42	Activity onsite included: . Repair work on a tank, chatting, van leaves yard. Dominant noise sources are external industrial noise from surrounding industrial estate and traffic noise.
NB 3	16:32 – 17:02	44	51	46	41	Activity onsite included: Yard quiet. Dominant noise sources are external industrial noise from surrounding industrial estate and traffic noise. Forklift operating in neighbours yard. Birds singing.
NB 4	15:58 – 16:28	56	68	54	45	Activity onsite included: HGV enters site and passes NB 4, occasional hiss from machine beside NB 4. Dominant noise sources are external industrial noise from surrounding industrial estate and traffic noise.

Table 2

Noise Sensitive Location Results - 2nd June 2009

Monitoring Position	Time	L _{eq} (dBA)	L ₁ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	Comments
NSL 1	14:16 – 14:48	63	71	66	53	Traffic passing is dominant noise - approximately 57 cars, 15 HGVs, 33 vans pass. Noise from electrical generator from neighbours (opposite) facility was clearly audible and people talking. Hum/Hiss from neighbouring facility to the east. 1 car leaves Enva site. No noise audible from Enva.
NSL 1	22:10 – 22:49	51	60	53	48	Hum/Hiss from neighbouring facility to the east. 7 cars and 1 truck pass. Distant road traffic audible. Airplane passes overhead. No Enva activity or noise.

In accordance with their waste licence, Enva Ireland Ltd are required to comply with maximum noise limit values. Criterion noise levels are set for day and night time and apply at noise sensitive locations. They are presented in the licence as follows:

C.1 Noise Emissions: (Measured at any noise sensitive location).

<i>Day</i>	<i>55 dB(A) LAeq(30 minutes)</i>
<i>Night</i>	<i>45 dB(A) LAeq(30 minutes)</i>

The dominant noise at the sampling locations was external industrial noise and traffic noise from the busy industrial road (JFK Road). The main activity onsite during the daytime survey was tank repairs and the occasional vehicle moving in/out or around the site. There was no activity or noise from the facility during the night time monitoring period.

Monitoring at the boundary locations resulted in L_{eq} noise levels of 50 dB(A) , 47 dB(A), 44 dB(A), 56 dB(A) at NB 1, NB 2, NB 3 and NB 4 respectively. As you can see from the comments in Table 1 above the noise levels at these boundary locations were mainly affected by industrial noise from surrounding industrial estate and traffic noise. These are however boundary locations and the limit level does not apply here.

Noise levels at the noise sensitive location, NSL 1 were 63 dB(A) during day time monitoring and 51 dB(A) during night time monitoring. During day time monitoring approximately 57 cars, 15 HGVs and 33 vans passed during the half hour sampling interval. Except for one car entering the site, there was no noise audible from Enva Ireland Ltd. During night time monitoring there was no activity onsite and no noise audible from Enva Ireland Ltd. The dominant noise source during the night time survey was a hum/hiss from the neighbouring facility to the east and intermittent road traffic.

Section 6.6 of the company's licence states that

“There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.”

There were no audible tonal component from the noise emission from Enva at the noise monitoring locations. One third octave band analysis of the noise was carried out at each location. A tone was detected at 50Hz at NSL 1 during the daytime monitoring which was not present at night. A tone was detected at 63 Hz at NB4 during the daytime monitoring. There was no tone audible from Enva activity during either of these monitoring periods. A portable generator was in operation in the yard opposite Enva while measurements were being made at NSL1. There was also an audible hiss from a neighbouring industrial activity to the east. This is the more likely source of the tone. There were no other tones measured. The analysis is presented in Appendix IV.

4. CONCLUSION:

In accordance with their EPA Waste Licence (Reg. No. 196), Enva Ireland Ltd are required have an annual noise survey undertaken to ensure compliance. Wright Environmental Services carried out this environmental noise survey on the 2nd June 2009.

The dominant noise at the sampling locations was external industrial noise and traffic noise from the busy industrial road (JFK Road). The main activity onsite during the daytime survey was tank repairs and the occasional vehicle moving in/out and around the site. There was no activity or noise from the facility during the night time monitoring period.

The noise sensitive location, NSL 1, is located beside the busy JFK road in the industrial estate. Noise levels at, NSL 1, were above the criterion levels set in the waste licence. However, noise levels are mainly affected by the high volume of traffic passing this location and extraneous industrial noise from the surrounding area. Except for one car leaving the site, there was no noise audible from Enva Ireland Ltd.

There were no tones audible in the noise emission from the activity at the monitoring locations. One third octave band analysis of the noise is presented in Appendix IV. A tonal feature was measure at NSL 1 at 50Hz (daytime) and NB 4 at 63Hz. Extraneous noise from the surrounding industrial estate was the dominant noise source during the one third octave band monitoring. This is the more likely source of the tone.

It is therefore concluded that Enva Ireland are in compliance with the noise requirements of their licence.

APPENDIX I

Methodology

METHODOLOGY

The methodology of the survey was based upon procedures set out in the International Standard, ISO 1996-2 (Acoustics – description and measurement of environmental noise). The following Environmental Protection Agency’s guidance documents were also referenced; “Environmental Noise Survey Guidance Document, 2003” and “Guidance Note For Noise In Relation To Schedule Activities, 2nd Edition , 2006”.

Environmental noise levels were determined by using a Pulsar Model 33 , Type 1 Real Time Sound Level Meter, with half inch condenser microphone. The instrumentation was calibrated directly before and after the noise measurements. Details of the instrumentation and external calibration are presented in Appendix II of this report. A series of 1/3 Octave Band level measurements were simultaneously taken using the Sound Level Analyser and this data was used to evaluate the presence of tones. This analysis is presented in Appendix IV.

Results reported were determined using the fast response, A-Weighting (ref. 20 μ Pa) and are rounded off to the nearest whole decibel. Monitoring was conducted in relatively calm, dry weather conditions during the day (08:00 – 22:00) and night (22:00 – 08:00). Throughout the monitoring, the microphone was situated 1.5 m above ground level, away from any reflective surfaces. The monitoring equipment was manned throughout the sampling intervals and comments were recorded in order to aid the interpretation of the results.

During the survey air temperature and humidity measurements were undertaken using a Delta Ohm Hygrometer HD 8501 H. Wind speed measurements were taken using a TSI VelociCalc and the wind direction was noted using a compass. Details of the weather conditions are presented in Table below.

Summary of Weather Conditions

Time	Air Temperature °C	Relative Humidity %	Wind Direction	Wind Speed m/s	General Conditions
15:30	26	36	S/E	1.7	Dry – no precipitation.
22:20	22	46	S/E	1.5	Dry – no precipitation.

APPENDIX II

Instrumentation and External Calibration Details

INSTRUMENTATION AND EXTERNAL CALIBRATION DETAILS

Instrumentation:

Pulsar Model 33 , Type 1 Real Time Sound Level Meter, with half inch condenser microphone, Serial Number T223417.

On-site calibrations were carried out before and after sampling with a Pulsar Calibrator – model 100B, Serial Number: 42171.

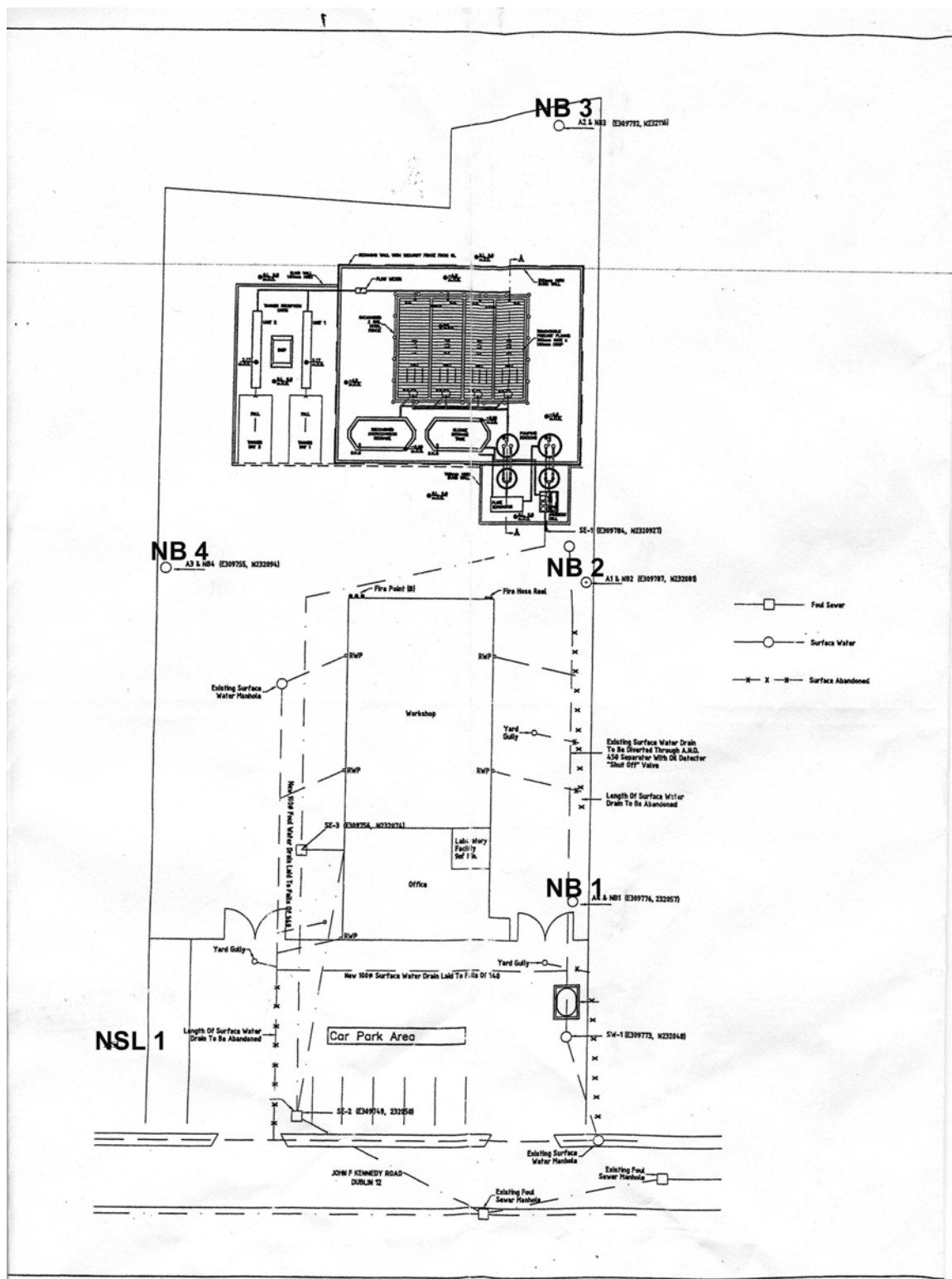
External Calibration:

External Calibration of instrumentation was undertaken by Pulsar Instruments Plc:

Unit	Date of Calibration	Calibration Certificate Number
Sound Level Meter Serial No. T223417	11 th November 2008	164696
Calibrator – Serial No. 42171	11 th November 2008	164697

APPENDIX III

Site Plan showing Noise Monitoring Positions



APPENDIX IV

1/3 Octave Band Analysis (OBA)

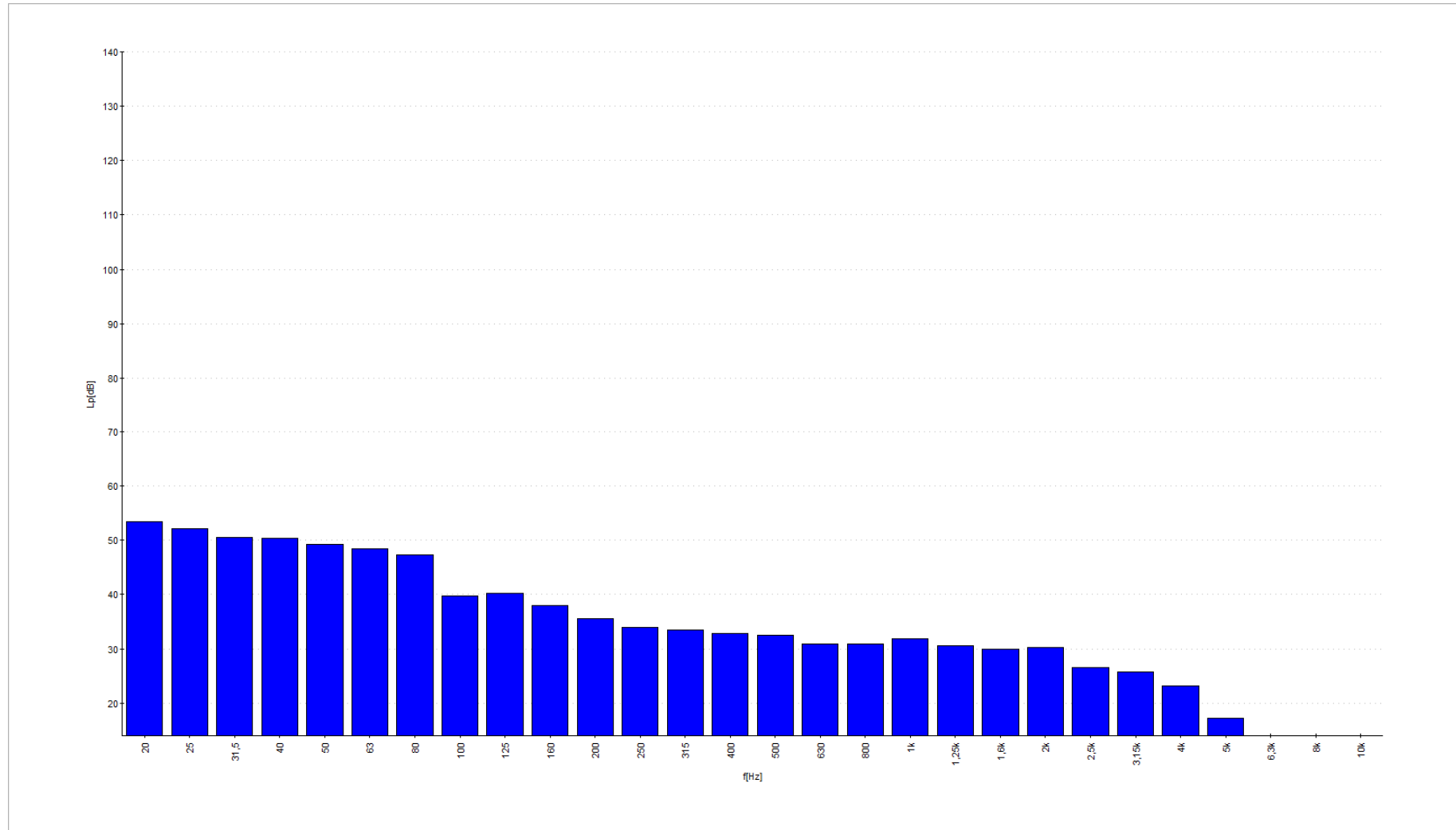


Figure 1: NB 1 - Daytime

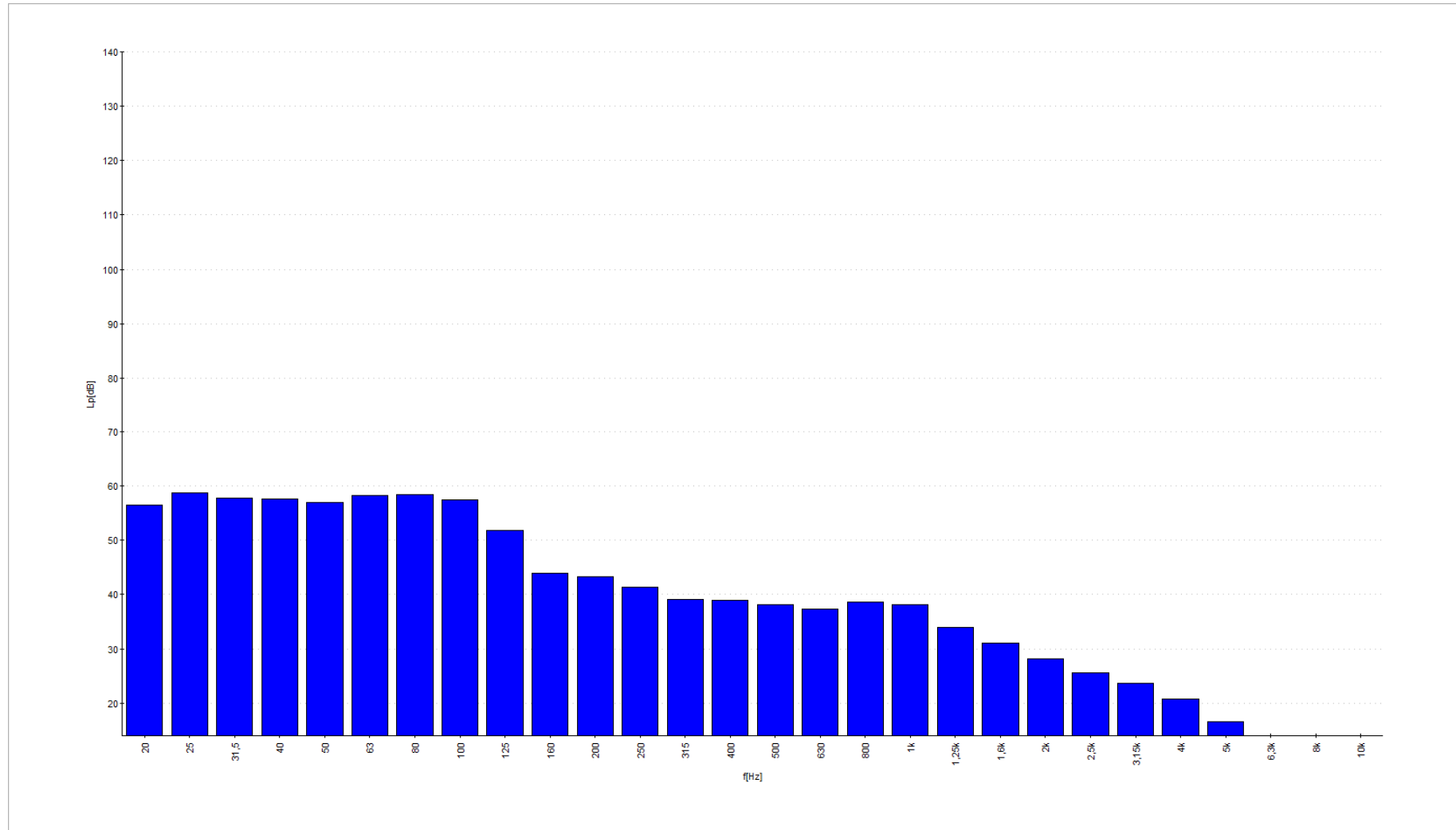


Figure 2: NB 2 - Daytime

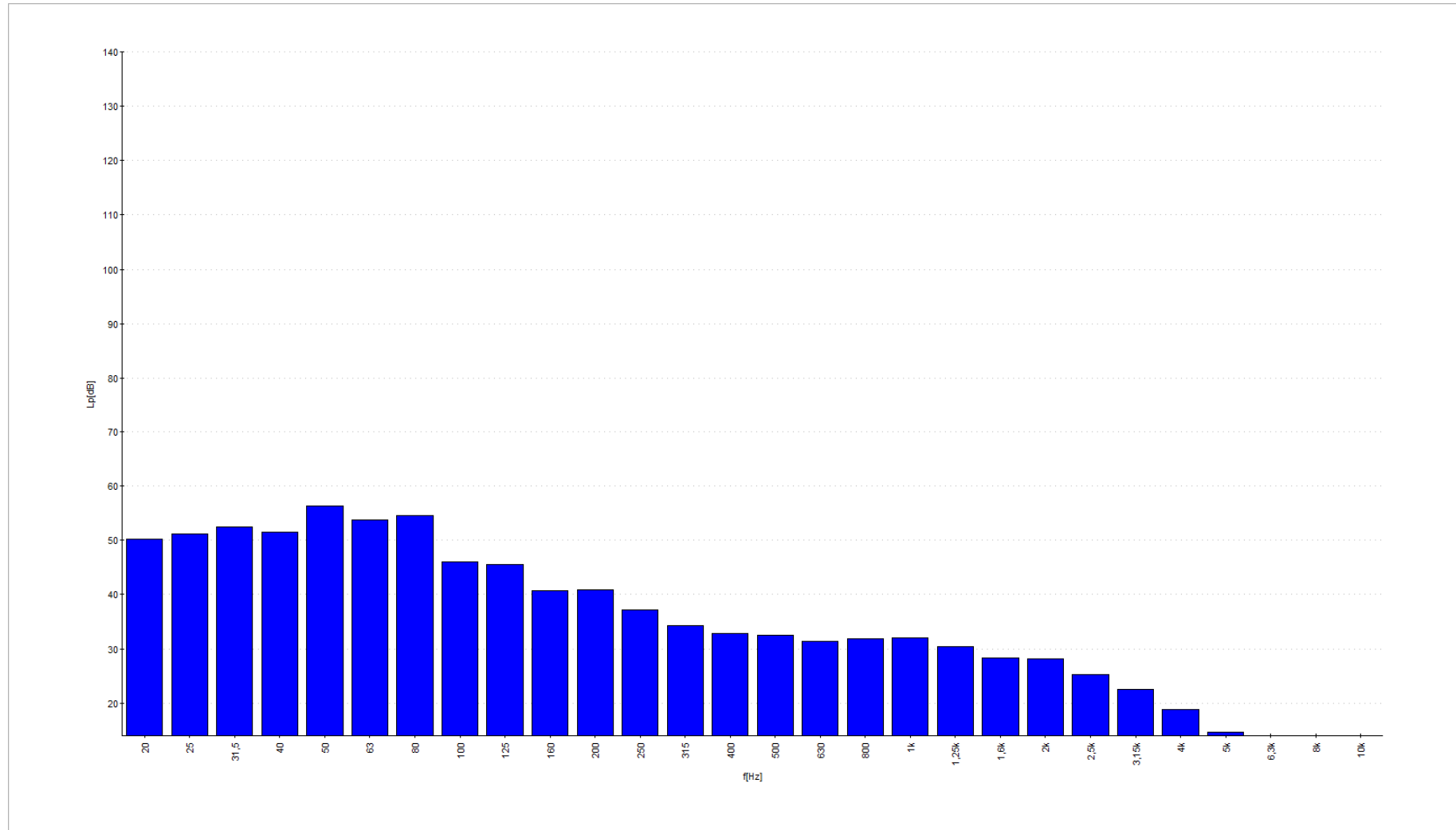


Figure 3: NB 3 - Daytime

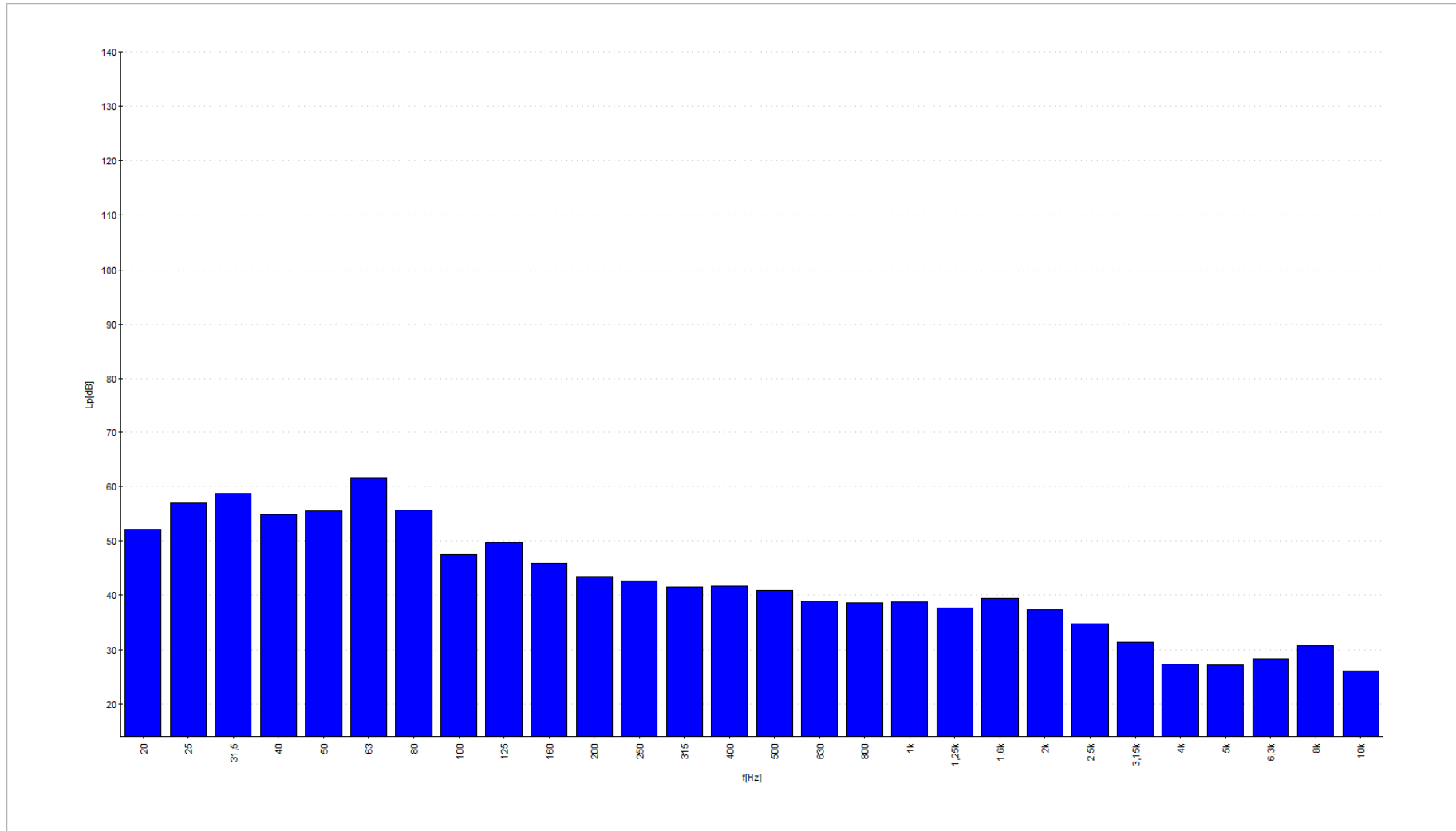


Figure 4: NB 4 - Daytime

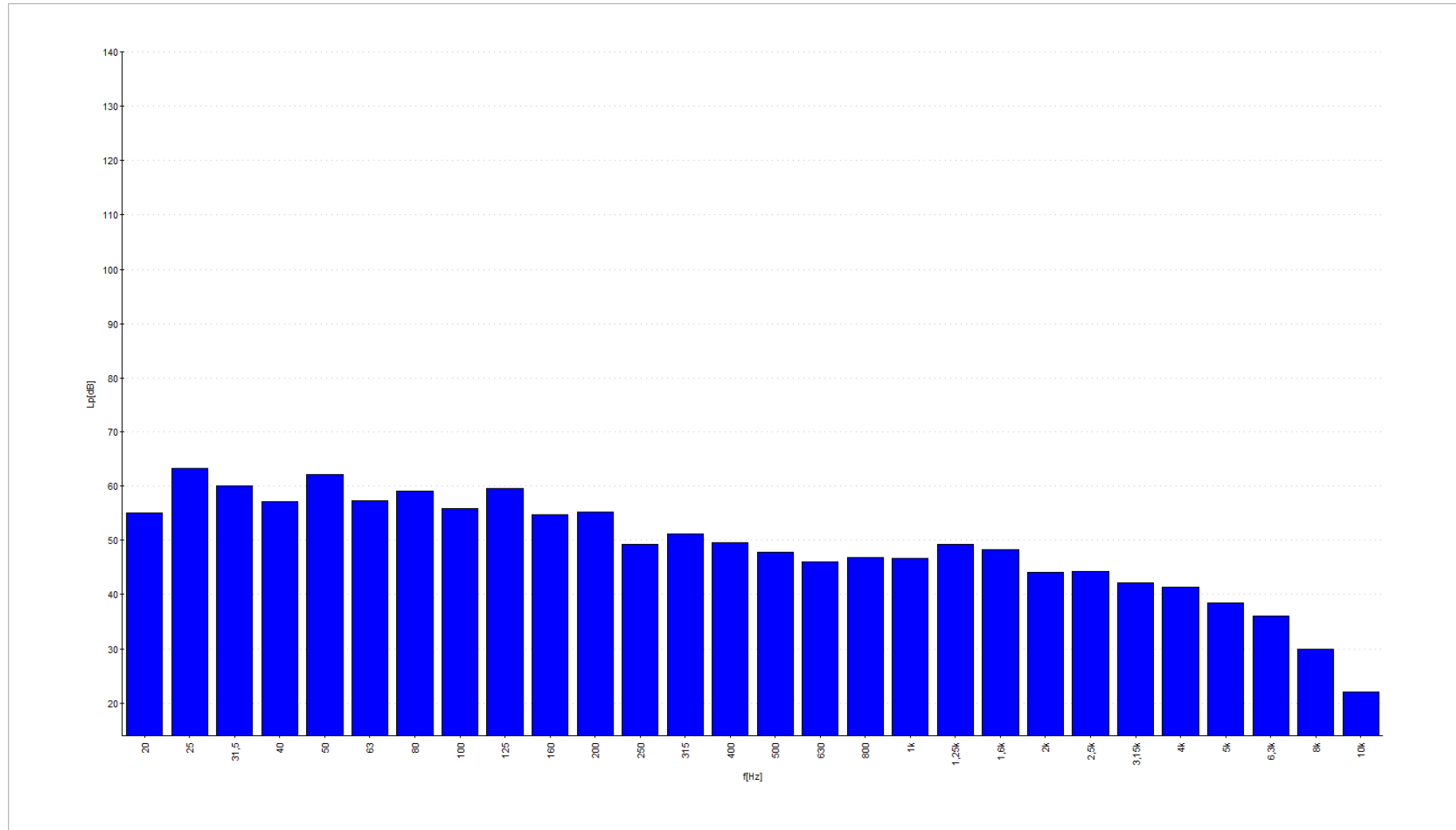


Figure 5: NSL 1 – Day time

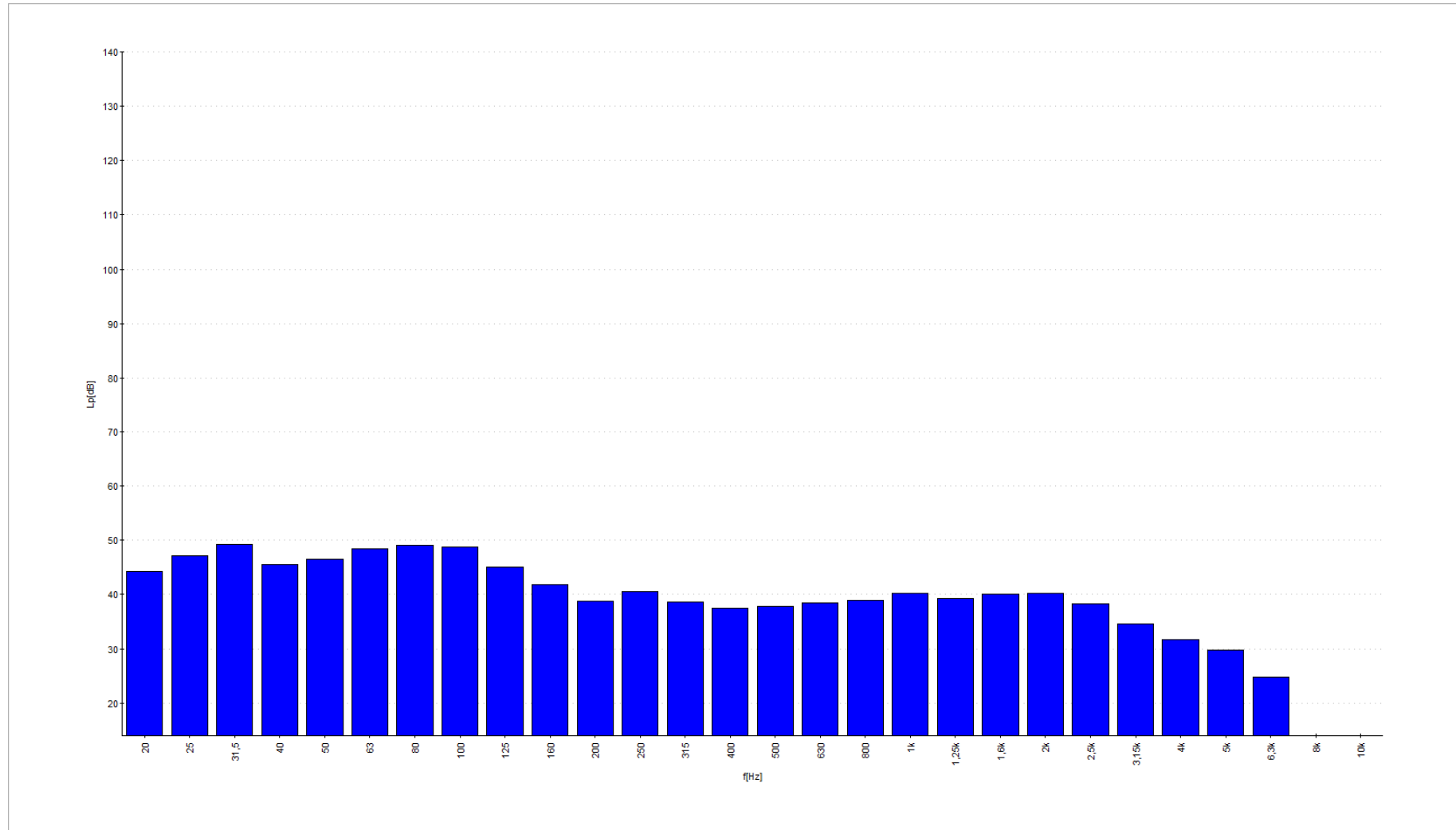
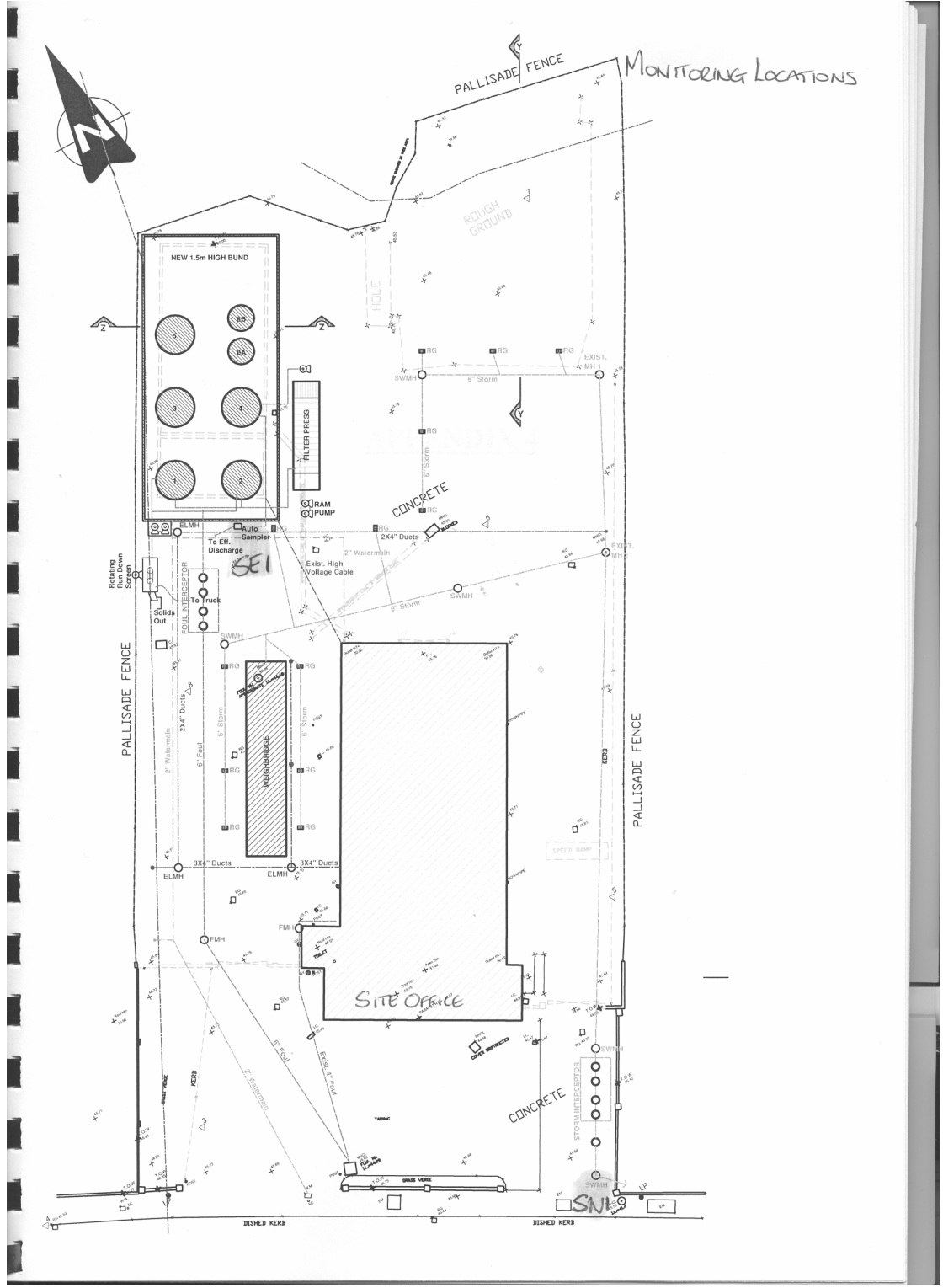


Figure 6: NSL 1 – Night time

APPENDIX 2



APPENDIX 3

ENVA Ireland Ltd., Dublin OBJECTIVES TARGETS

OBJECTIVE:			ACHIEVE BY:	
GP-01-2008	Provide a high level of Emergency Preparedness on the Enva site.			31/12/2011
RATIONALE:	While there is a high level of strong HSE management throughout Enva more focus is now possible for potential emergency situations.			
TARGET:			ACHIEVE BY:	
GP-01-01	Develop Site Specific Emergency Procedures and create appropriate awareness			31/12/2009
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	All Enva sites to review/develop an appropriate and consistent site specific emergency preparedness plan.	HSE & Operations	31/12/2008	Site emergency preparedness is in place for the site.
2	Carry out training and emergency drills for all staff.	HSE & Operations	30/12/2009	Ongoing
TARGET:			ACHIEVE BY:	
GP-01-02	Fire risk assessment are to be carried out for the site and all high risk areas to have fire detection/alarms and ensure appropriate segregation/compartimentalisation.			31/10/2009
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Fire risk assessment to be completed.	HSE	31/12/2008	Risk assessment in place for the site
2	Install fire detectors in all area identified in relevant fire risk assessments if required.	HSE & Operations	31/10/2009	Adequate fire protection is currently in place. Fire detection system was put in place in June 2008
TARGET:			ACHIEVE BY:	
GP-01-03	Install spill/level alarms in all bunds greater than 50,000 litres capacity.			31/12/2011
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Identify relevant bunds greater than 100,000 lt capacity and install level alarms.	HSE & Operations	31/12/2011	
2	Identify relevant bunds greater than 50,000 lt capacity and install level alarms.	HSE & Operations	31/12/2011	
COMMENTS / REVIEW DETAILS				

OBJECTIVE:				ACHIEVE BY:
GP-02-2008	Improve the management of waste arisings from both commercial and internal activities in line with the revised 5 step waste hierarchy.			30/12/2010
RATIONALE:	Improved waste management is one of the aims stated on the group HSE Policy document. Management of internal waste is highly visible to employees and can therefore help reinforce the strong environmental culture within Enva.			
TARGET:				ACHIEVE BY:
GP-02-01	Establish the baseline of waste production and set measurable improvement targets for landfill diversion/disposal and increased recovery/recycling.			30/12/2010
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Gather baseline data on types and volumes of wastes arising from commercial and internal sources and the costs associated with these.	HSE	31/03/2012	Waste volumes generated on site are currently insignificant due to the low activity rate on site -Re-set objective as a result of this
2	Identify priority target wastes based on volume arising, cost to Enva, ease of recovery/recycling.	HSE	30/12/2010	No targets identified as volumes of waste generated on site are very low. This will be reviewed again at the end of 2010 for feasibility.
3	Perform preliminary investigation into feasibility of landfill diversion / improved recovery.	HSE	30/06/2011	Target re-set due to low volumes generated up to 2010
4	Establish targets based on estimated approximate improvement achievable.	Operations	31/09/2009	Volume of waste generated on site is currently insignificant.
5	Implement measures to achieve targets	ALL	30/12/2011	Target re-set due to low volumes generated.
COMMENTS / REVIEW DETAILS				

OBJECTIVE:				ACHIEVE BY:
GP-03-2008	Ensure we are efficient in our use of energy & resource consumption.			31/03/2012
RATIONALE:	As an environmental service company we need to demonstrate good practice in this regard to our customers and also to our employees so as to assist in promoting a strong HSE conscience and culture.			
TARGET:				ACHIEVE BY:
GP-T03-1	Increase awareness towards the efficient use of resources & energy.			31/12/2010
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Develop an internal awareness campaign including erecting posters/reminders across all sites.	HSE	31/12/2008	Energy awareness teams have been developed throughout Enva however due to the low business activity this target will have to be re-assessed in the 2009 annual report.
2	Establish on each site an energy team to lead the Energy reduction programme.	HSE	31/12/2008	
3	Develop operations and office based initiatives relating to energy & resource use to promote efficiency culture.	Energy team	31/12/2010	
TARGET:				ACHIEVE BY:
GP-T03-2	Identification and Assessment of Energy consumption on each Enva site.			31/03/2012
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Establish current energy sources and assess the annual spend on energy.	Energy team	31/03/2012	Energy consumption within Enva Dublin is limited to office usage and processing of waste which commenced in February 2009. This will be reviewed by the end of 2010 as energy usage is still considerably low.
2	Develop a register of energy aspects which can be used to develop an energy management programme and assess the critical users of energy	Energy team	31/03/2012	
3	Review of existing tariffs in use throughout all sites.	Energy team	31/03/2012	
4	Establish Energy performance indicators applicable for use in Enva to allow for monitoring of annual consumption	Energy team	31/03/2012	
5	Establish an Energy reduction target.	Energy team	31/03/2012	
6	Implement energy reduction measures to achieve 40% of target	Energy team	31/03/2012	
7	Implement energy reduction measures to achieve 80% of target	Energy team	31/03/2012	
8	Implement energy reduction measures to achieve 100% of target	Energy team	31/03/2012	
TARGET:				ACHIEVE BY:
GP-T03-3	Identification and Reduction in water consumption			31/12/2010
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Establish the water usage for each site	Energy team	31/12/2008	Water usage is still insignificant on site and therefore this objective is not useful for the current site activities, this will be reviewed in 2011
2	Establish a register of water uses on site and identify the high demand users of water.	Energy team	21/12/2008	
3	Develop targets for reduction in water usage	Energy team	31/06/2009	
4	Implement water use reduction measures to achieve 50% of target	Energy team	31/12/2009	
5	Implement water use reduction measures to achieve 100% of target	Energy team	31/12/2010	
COMMENTS / REVIEW DETAILS				

OBJECTIVE:				ACHIEVE BY:
GP-04-2008	Develop a positive environmental & safety competent culture within Enva			31/12/2010
RATIONALE:	A strong environmental & safety culture benefits staff, the organisation and the environment.			
TARGET:				ACHIEVE BY:
GP-04 -T01	Development of a robust training programme for Enva activities			31/12/2009
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
	Establish roles and task specific training requirements for Enva personnel	HSE	21/09/2008	Role specific training has been established for operatives
	Develop existing Logix training software to implement all identified training requirements for each department.	HSE	31/09/2008	This was developed in September & October 2008 in conjunction with Enva PL
	Develop roles and training requirements on remaining Enva sites and populate training software.	HSE	31/12/2008	Relevant Enva Dublin staff have been placed on the logix software
	Develop common training courses for use across Enva.	HSE	31/06/2009	
	Consider accrediting training through FAS training programme.	HSE	31/12/2009	
TARGET:				ACHIEVE BY:
GP- 04-T02	Increase the HSE awareness and participation of senior members of staff.			31/03/2010
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
	Identify HSE training requirements for Super visors and Managers	HSE	31/03/2009	Training requirements for Super visors have been identified these include
	Develop training for senior staff to improve competency	HSE	31/07/2009	
	All senior members of staff to receive general HSE training	HSE	31/03/2010	Training was conducted with managers and Supervisors with regard to HSE aresponsibility wareness in October 2009. Further training to be carried out.
	All Directors to conduct two HSE site inspections per year and produce a brief report on the inspection.	Directors	31/03/2010	Ongoing.
TARGET:				ACHIEVE BY:
GP- 04-T03	Assessment of safety culture within Enva			31/12/2010
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
	Develop appropriate HSE KPIs to monitor the trends in HSE performance across Enva and on individual facilities.	AP, CH	31/12/2010	This Objective has been moved to the 31/12/10
	Investigate methods of good safety culture measurement	AP, CH	31/12/2010	
	Implement preferred safety culture assessment methodology to assess each Enva site.	AP,CH	31/12/2010	
COMMENTS / REVIEW DETAILS				

OBJECTIVE:				ACHIEVE BY:
PL 05-2008	Improvement in environmental performance and compliance.			31/03/2011
RATIONALE:	To ensure that activities from the site do not impact on the environment.			
TARGET:				ACHIEVE BY:
PL65T01	Establish monitoring as per site licence requirements			31/12/2008
STEP	IMPLEMENTATION PROGRAMME	RESP.	Target Date	STATUS
1	Carry out ELRA and Cramp for site to establish financial liabilities.	HSE	16.04.10	CRAMP and ELRA are currently being reviewed and will be submitted to the Agency by the 16th of April 2010
2	Seek approval for the acceptance of additional packaged wastes on site.	HSE/Operations	30.06.09	Completed.
3	Put in place procedures to enable a degree of analysis to be carried out on site.	HSE	30.06.09	Completed. SOPs are in place to carry out preliminary monitoring of waste being accepted and effluent released.
4	Put in place metal triangle on yard to identify the surface water gulleys, reducing the need to continually paint the gulleys.	Operations	31/03/2010	Enva have labelled all surface water with blue triangles. Alternative markings such as blue metal triangles have been trialled by Enva Portlaoise and have been found not to be as effective as originally thought. The use of stainless steel triangles is currently being trialled in Enva PL and will be transferred to Enva Dublin if successful and approved by the Agency.
6	Improve site bunding to ensure that all waste is stored in a bunded area.	Operations	31/03/2011	
COMMENTS / REVIEW DETAILS				

APPENDIX 4

1.0 PURPOSE

The purpose of this procedure is to ensure that environmental, health & safety information is communicated effectively to all external bodies and other parties and to ensure that environmental, health & safety concerns are effectively communicated and appropriately dealt with.

2.0 SCOPE

This procedure relates to any external environmental, health & safety communication with members of the public or with regulatory authorities or any requests for information regarding the environmental, health & safety performance of site operations within any of the Enva facilities in the Republic of Ireland.

It does not cover reporting of incidents/accidents/emergencies or training. These are dealt with under separate procedures. Customer complaints or dealing with customer requests is outside the scope of this procedure also.

3.0 RESPONSIBILITIES

It shall be the responsibility of the HSE Department to;

- Communicate environmental, health and safety information to all members of the public and regulatory authorities as necessary.
- Retain logs and records of external communications.
- Address requests for information from the public.
- Address and report complaints which relate to HSE performance.

4.0 PROCEDURE

4.1 The following documents are used to communicate environmental health and safety information to external parties

- HSE policy
- HSE manual
- EPA Annual Environmental Report
- Waste Collection Permit Reports
- DGSA report
- EPA waste licence
- Waste Collection Permits
- Contractor inductions
- External audits

Printed documents are uncontrolled and subject to change. Please check electronic document control system for current version of this document.

4.2. Communications with Regulatory Authorities

All communications with regulatory authorities such as the HSA, EPA, etc shall be entered into a communications log. This shall record the dates of the communication, persons involved, topic covered and close out of the communication. Copies of communications sent or received shall also be filed by the HSE Department.

4.3 Communications with other Interested External Parties

4.3.1 All enquiries regarding the environmental, health & safety performance of the site operations are to be directed to the HSE department.

4.3.2 Requests for information from the general public shall be directed to the HSE Department who shall deal with each request or enquiry as appropriate. Evna sites are required under their Waste Management licenses to maintain a file for public inspection which should as a minimum include:

- Monitoring results,
- Complaints records,
- Environmental incidents records,
- EPA communication files including audits and inspections,
- Annual Environmental Reports.

Copies of information shall only be given to the public on the authority of the Chief Operations Officer (C.O.O.) or Managing Director of Enva.

4.3.3 Any complaints relating to HSE matters (e.g. related to public safety, nuisances, environmental emissions etc) received by Enva shall be directed to the HSE department. The HSE Department shall record details of the complaint and initiate corrective action. As appropriate the complaint shall be reported to the relevant regulatory authorities (e.g. EPA/HSA). The HSE Department shall ensure an investigation takes place and shall respond (generally in writing) within one week of the complaint being received. A Corrective Action Requirement (CAR) shall be raised in relation to any complaint. . The person/ persons who have submitted the complaint shall be kept informed of any progress made in resolving the issue that gave rise to the complaint.

4.3.4 All enquiries regarding environmental, health & safety information shall be dealt with by the HSE department. Written requests shall be filed with the response attached.

4.3.5 If the request for information cannot be fulfilled over the telephone the HSE department may if appropriate invite the enquirer to the site to review any Printed documents are uncontrolled and subject to change. Please check electronic document control system for current version of this document.

appropriate documentation or records available on the public file. In such cases the C.O.O. must be notified.

- 4.3.6** All site tours associated with an enquiry should be scheduled where possible within one working week of receipt of request. In exceptional circumstances it may be arranged at shorter notice.

5.0 RELATED DOCUMENTS

Correspondence Logs
Records of complaints

6.0 REFERENCE

ISO14001:2004 Clause 4.4.3
OHSAS 18001 Clause 4.4.3

Printed documents are uncontrolled and subject to change. Please check electronic document control system for current version of this document.

APPENDIX 5

Enforcement Category Summary



Organisation Name	Enva Ireland
Case Number	196-1

Fixed Attributes	Enforcement Category
Complexity	High
Location	Mid

Enforcement Category due to Fixed Attributes	B3
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Sheet Reference	Enforcement Category
Complexity	High
Emissions	Mid
Location	Mid
Operator Management	Low
Enforcement Record	Low

Enforcement Category Based Upon Above 7 Attributes	B2
--	-----------

FINAL ENFORCEMENT CATEGORY FOR YOUR FACILITY ¹	A1
--	-----------

Note¹: If different from above, a default may have been applied.



APPENDIX 6



AER Returns Worksheet

Version 1.1.10

REFERENCE YEAR	2009
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1. FACILITY IDENTIFICATION

Parent Company Name	MacAnulty Specialist Underground Services Ltd
Facility Name	MacAnulty Clear Drains
PRTR Identification Number	W0196
Licence Number	W0196-01

Waste or IPPC Classes of Activity

No.	class_name
3.7	#####
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.6	Recovery of components used for pollution abatement.
4.8	Oil re-refining or other re-uses of oil.

Address 1	John F. Kennedy Industrial Estate
Address 2	John F. Kennedy Road
Address 3	Naas Road
Address 4	Dublin 12
Country	Ireland
Coordinates of Location	-6.35314 53.3279
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Anne Phelan
AER Returns Contact Email Address	aphelan@enva.ie
AER Returns Contact Position	HSE Manager
AER Returns Contact Telephone Number	086 3821830
AER Returns Contact Mobile Phone Number	0863821830
AER Returns Contact Fax Number	014568197
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	2
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(a)	Installations for the recovery or disposal of hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

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

Is it applicable?	No
Have you been granted an exemption?	
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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
POLLUTANT		METHOD			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

* 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								
POLLUTANT		METHOD			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

* 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		METHOD			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

* 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:

Please enter summary data on the quantities of methane flared and / or utilised	MacAnulty Clear Drains				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Used		
			Method Code	Designation or Description	
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

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 Reporting as this only concerns Releases from your facility

RELEASES TO WATERS									
POLLUTANT					QUANTITY				
No. Annex II	Name	M/C/E	Method Code	Method Used 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

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS									
POLLUTANT					QUANTITY				
No. Annex II	Name	M/C/E	Method Code	Method Used 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

* 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					QUANTITY				
Pollutant No.	Name	M/C/E	Method Code	Method Used 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

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

4.3 RELEASES TO WASTEWATER OR SEWER

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
20	Copper and compounds (as Cu)	C	PER	Standard methods for water and waste water	0.122	0.122	0.0	0.0
24	Zinc and compounds (as Zn)	C	PER	Standard methods for water and waste water	0.544	0.544	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER								
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
306	COD	C	PER	Standard methods for water and waste water	1078.11	1078.11	0.0	0.0
343	Sulphate	C	PER	Standard methods for water and waste water	214.9	214.9	0.0	0.0
240	Suspended Solids	C	PER	Standard methods for water and waste water	359.98	359.98	0.0	0.0
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

| PRTR# : W0196 | Facility Name : MacAnulty Clear Drains | Filename : W0196_2009(1).xls | Return Year : 2009 |

31/03/2010 17:02

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0196 | Facility Name : MacAnulty Clear Drains | Filename : W0196_2009(1).xls | Return Year : 2009 |

31/03/2010 17:02

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 05 07	Yes	342.42	Waste oily water	R1	M	Weighed	Onsite in Ireland	Enva Ireland,W0184-1	Clonminam Industrial Estate ,Portlaoise,Co. Laois,0,Ireland	Enva Ireland,W0184-1,Clonminam Industrial Estate ,Portlaoise ,Co Laois,,Ireland	Clonminam Industrial Estate ,Portlaoise ,Co Laois,,Ireland
Within the Country	13 03 06	Yes	46.0	Waste oils	R1	M	Weighed	Onsite in Ireland	Enva Ireland,W0184-1	Clonminam Industrial Estate ,Portlaoise,Co. Laois,0,Ireland	Enva Ireland,W0184-1,Clonminam Industrial Estate ,Portlaoise ,Co Laois,,Ireland	Clonminam Industrial Estate ,Portlaoise ,Co Laois,,Ireland
Within the Country	13 05 02	Yes	25.74	Oily sludge	R1	M	Weighed	Onsite in Ireland	Enva Ireland,W0184-1	Clonminam Industrial Estate ,Portlaoise,Co. Laois,0,Ireland	KG,471498089,Krombacher Strasse ,42-46,Kreutzal ,D57223,Germany	Krombacher Strasse ,42-46,Kreutzal ,D57223,Germany
Within the Country	02 03 04	No	45.07	Grease trap waste	R3	M	Weighed	Onsite in Ireland	Beoffs ,WMP 05/2005	Ballytobin ,Callan ,Kilkenny,Ireland	Reiling GmbH,E97897324,Weetfelder Strasse,59199,Bonen,,Germany	Weetfelder Strasse,59199,Bonen,,Germany
To Other Countries	17 02 04	Yes	24.0	Contaminated Wood	R1	M	Weighed	Abroad	Reiling GmbH,E97897234	Weetfelder Strasse 36 ,59199,Bonen,,Germany	Reiling GmbH,E97897324,Weetfelder Strasse,59199,Bonen,,Germany	Weetfelder Strasse,59199,Bonen,,Germany
Within the Country	13 05 01	Yes	119.56	Separated solids from oil water separation	R1	M	Weighed	Offsite in Ireland	Enva Ireland,W0184-1	Clonminam Industrial Estate ,Portlaoise,Co. Laois,0,Ireland	KG,471498089,Krombacher Strasse ,42-46,Kreutzal ,D57223,Germany	Krombacher Strasse ,42-46,Kreutzal ,D57223,Germany

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