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**Annual Environmental Report.
(Period 1st January 2008 to 31st December 2008)**

**Dean Waste Company
Limited.
Waste Recycling and
Transfer Facility
Greenhills Road
Walkinstown,
Dublin 12.
Waste Licence Register
No. W0045-01**

**Submitted to:
Dr. Ted Nealon
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Broomhill Road
Dublin 24**

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1.0 INTRODUCTION

The reporting period for this Annual Environmental Report (AER) is from 1st January 2008 to 31st December 2008.

Please note that the Annual Environmental Report (AER) enclosed herewith is furnished in discharge of the legal obligation to submit same to the Agency imposed by Condition 2.8 of Waste Licence Register No. W0045-01 and the provisions of the Waste Management Act, 1996.

2.0 WASTE ACTIVITY

2.1 Waste Management Activities Carried Out At The Facility

Waste management activities carried out at the site in accordance with Waste Licence Register No. W0045-01 are listed in Tables 2.1 and 2.2 below.

Table 2.1: Licensed Disposal Activities.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996 to 2003.	
Class 11	Blending or mixture 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.

Table 2.2: Licensed Recovery Activities.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996 to 2003.	
Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes)
Class 3	Recycling or reclamation of metals and metal compounds
Class 4	Recycling or reclamation of other inorganic materials
Class 13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

The waste acceptance and holding procedures are generally as follows;

- Incoming lorries carrying wastes proceed to an on-site weigh-scale where they are weighed and assessed.
- Wastes are tipped in Waste Transfer and Recycling Buildings ('the Waste Buildings'). Wastes are further assessed, with regard to acceptability, and reloaded if unacceptable.
- Unacceptable wastes are either turned away at the weigh-scale or after reloading at the Waste Buildings.
- Wastes are sorted and in some cases shredded; and
- Wastes are loaded onto transfer vehicles and taken away from the facility for further recovery or disposal activities.

2.2 Quantity and Composition of Wastes Received

Table 2.3 lists details of incoming wastes that were received at the site during the reporting period. Data from 2003, 2004, 2005 and 2006 are also included as required by Schedule B of the Waste Licence.

2.3 Destinations of Waste Sent Off Site

Table 2.4a and 2.4b list quantities of wastes brought in and sent out at the facility during 2008. Data from 2004, 2005, 2006 and 2007 is also included as required by Schedule B of the Waste Licence.

Table 2.3a: Wastes IN between 2004 and 2008

Location of Facilities	Type of Waste	Licence /Permit No./EWC Code	2004 (tonnes)	2005 (tonnes)	2006 (tonnes)	2007 (tonnes)	2008 (tonnes)
Greenhills Road	C&D	W0047-02 170904	87,422	71,560	111,401	108,040	101,253.79
Greenhills Road	C&I Mixed Packaging	W0047-02 150106	6,202	4,874	4,216	3,838	4,737.09
Greenhills Road	C&D Wood	W0047-02 170201	234	2,186	0	11	189.98

Greenhills Road	Recycled Waste (Green Waste)	W0047-02 200201	1,867	0	0	53	0.48
Greenhills Road	Municipal Wastes	W0047-02 200301	-	-	-	-	1.22
Greenhills Road	Metal	W0047-02 191202	-	-	-	711	0
Greenhills Road	Metal	WDP-32 191202	3,986	4,020	80	0	0
C.J. Sheeran,	Wood	WMP-021 170201	12	0	0	0	0
Conroy Recycling Co., Slanebeg, Mullingar, Co. Westmeath.	Wood	WP04/2002 170201	1,111	0	0	0	0
Barina Pallets Ltd., The Grange, Newcastle Rd., Lucan Co. Dublin.	Wood	WPR 037 170201	679	0	0	0	0
Weyerhaeuser Europe Ltd., Clonmel, Co. Tipperary.	Wood	IPC 27 170201	286	0	0	0	0
Mrs. Gertrude Byrne, Ballykelly, Monasterevin Co. Kildare.	Inert	96/2002 170504	31,968	0	7,557	0	0
Greenhills Road	Metals	W0047-02 191202	0	0	1020	0	0
Tobertynan, Longwood, Co. Meath	Inert	WCP/MH/2004/18B 170504	0	0	377	0	0
Crossmorris	Inert	WP/185/2004 170504	0	0	7894	0	0
Greenhills Road	C&D (Other Fractions)	W0047-02 200199	0	0	0	150	157.66
Total Taken IN			127,565	125,405	128,329	108,965	106,340.22

Table 2.3b: Wastes Sent OUT Site for Disposal between 2004 and 2008.

Location of Waste Facilities	Type of Waste	Licence /Permit No. EWC Code.	2004 (tonnes)	2005 (tonnes)	2006 (tonnes)	2007 (tonnes)	2008 (tonnes)
Greenhills Road	C&D	W0047-02 170904	-	-	-	-	103,707.92
Greenhills Road	Metal	W0047-02 200140	-	-	-	-	87.36
Greenhills Road	Plastic Packaging	W0047-02 150102	-	-	-	-	50.9
Greenhills Road	Other Fractions	W0047-02 200199	-	-	-	-	2,419.82
Greenhills Road	Green Wastes	W0047-02 200201	-	-	-	-	74.22
Whiteriver Landfill Site, Dunleer, Co. Louth.	C&I	W060-02 200301	0	4,744	4,424	2,537	0
Fingal County Council, Baleally Landfill	C&I	W009-02 200301	6,773	0	0	-	0
Ballinasloe	C&I	W027-02 200301	0	0	20	-	0
Ballydonnagh Landfill	C&I	W0047-02 200301	0	0	0	37	0
Scotch Corner Landfill	C&I	W0020-01 200301	0	0	0	245	0
Total sent OUT for disposal at Neiphin			6,773	4,744	4,244	2,819	106,340.22

2.4 Quantity of Non-Acceptable Wastes

Table 2.5 lists details of non-acceptable wastes received at the site.

Table 2.4: Non-Acceptable wastes sent off-site during 2008.

Non Acceptable Waste	Amount	Licensed Contractor
25lb Gas Cylinders	75	Calor Distributor, Tolka Quay Rd., Dublin 1.
75lbs Gas Cylinders	25	
Batteries	0	National Recycling, John F. Kennedy Drive, Naas Road, Dublin 12.
Refrigerators	19	National Recycling, John F. Kennedy Drive, Naas Road, Dublin 12.

3.0 REPORT ON ENVIRONMENTAL MONITORING AND EMISSIONS

Table 3.1 lists details of monitoring and reporting requirements in compliance with the Waste Licence *Schedule E: Monitoring*.

Table 3.1: Monitoring and Reporting Requirements.

Media	Parameter	Monitoring Frequency	Reporting Frequency
Dust Monitoring	Levels	Quarterly	Quarterly
Noise Monitoring	Levels	Bi-annually	Bi-annually
Monitoring of Emissions to Sewers	Quality	Quarterly	Quarterly
Monitoring of Flow to Sewers	Flow	Quarterly	Quarterly

Figure 01, Rev. H, Appendix 1 depicts monitoring locations for the Greenhills Facility. Table 3.2 presents the Grid Reference for each monitoring location.

Table 3.2: Monitoring Points and Grid Reference Locations.

Media	Location	Eastings	Northings
Dust	D1	310573.0	230442.0
	D3	310628.0	230428.0
	D4	310618.0	230417.0
Noise	N1	310591.0	230444.0
	N2	310618.0	230486.0
	N3	310628.0	230428.0
	N4	310583.0	230401.0
	N5	310578.0	230432.0
	N6	310578.0	230413.0
	N7	310623.0	230469.0
Sewer	S1	310625.0	230425.0

3.1 Dust Monitoring

3.1.1 Introduction

A summary of the dust deposition rates at the site for quarterly dust monitoring during the reporting period is presented in Table 3.3. Full interpretive details are contained in Quarter 1 to 4 Environmental Reports.

Table 3.3 Dust Deposition Rates at Greenhills Road.

Sampling Point	Dust Deposition Rate mg/m ² /day			
	Q1 2008	Q2 2008	Q3 2008	Q4 2008
D-1	609.8	2164.7	859.3	720.7
D-3	1197.5	2044.1	426.9	515.6
D-4	864.8	1515.8	587.6	693.0

Note: Location D-2 has been excluded from the scope of the dust survey since Quarter 1 of 2003. This was agreed by the Agency in correspondence dated 17 April 2003.

3.1.2 Summary of Results

The Waste Licence has an Emission Limit Value (ELV) for dust emissions from the facility of 350mg/m²/day as specified in Schedule F.2 of Waste Licence Register Number W00045-01.

The high dust deposition rate is attributed to renovations being carried out at the site, general site activities, activities on adjoining sites and passing traffic on the Greenhills Road. Monitoring locations are depicted on Figure 01 Rev. H, Appendix 1.

3.1.3 Mitigation Measures

Mitigation measures were implemented in 2001 and have been utilised throughout the 2002 to 2007 period. The yard is swept regularly and hardstands are regularly wetted down.

The licensee will continue to enhance mitigation measures to reduce on-site dust generation. Enhancements will include:

- Additional flaps and sprinkler systems at building doors;
- Additional sweeping of yard; and
- Additional wetting down of yard during dry periods.

3.2 Noise Monitoring

3.2.1 Introduction

Noise monitoring was carried out on two occasions during the reporting period in compliance with the Waste Licence, namely Quarter 2 (27th September 2007) and Quarter 4 (6th December 2007).

All monitoring locations were chosen to comply with the *ISO 1996: Acoustics – Description and Measurement of Environmental Noise Guidelines*. Monitoring locations N1 – N7 are located outside each of the four boundary walls of the facility – refer to Figure 1 Rev. H, Appendix 1 for details of these locations. Emission Limit Values of 55 dB(A) during the day-time and 45 dB(A) during the night-time are imposed by Schedule F.3 of the licence.

Tables 3.4 and 3.5 list details of day-time and night-time noise monitoring results for the reporting period.

Table 3.4 Noise Levels at Greenhills Road (day time).

Monitoring Location	N1	N2	N3	N4	N5	N6	N7
Quarter 3 - (3rd September 2008) ^{Note 1} (08:00 to 14:35hrs)							
Noise Level							
L Aeq, 30min dB (A)	68	79	64	62	60	74	57
Quarter 4 - (15th December 2008) ^{Note 2} (08:00 to 14:45hrs)							
Noise Level							
L Aeq, 30min dB (A)	72	72	78	75	69	72	66

Note 1: Complete results can be found in the Quarter 3 – 2007 Environmental Report.

Note 2: Complete results can be found in the Quarter 4 – 2007 Environmental Report.

Table 3.5 Noise Levels at Greenhills Road (night time).

Monitoring Location	N1	N2	N3	N4	N5	N6	N7
Quarter 3 - (01 September 2008) ^{Note 1} (04:15 to 07:45hrs)							
Noise Level							
L Aeq, 15min dB (A)	65	66	NDP	NDP	59	66	NDP
Quarter 4 - (15th December 2008) ^{Note 1} (05:00 to 07:45hrs)							
Noise Level							
L Aeq, 15min dB (A)	63	62	NDP	NDP	56	63	NDP

Note 1: Monitoring locations N-3, N-4, and N-7 were not monitored due to time and access constraints.

3.2.2 Interpretation

The area around the Greenhills Road waste transfer facility is dominated by industrial processes and road traffic. The main Greenhills Road passes the main entrance to the facility and is almost constantly busy. Business premises at the rear of the waste facility include a wood processing business and the associated noise from the saws etc add considerably to the overall ambient noise level. The figures as presented are above the specified licence limit values of 55 dB(A) during the day-time and 45 dB(A) during the night-time. However, in light of the associated surrounding contributory noises, the elevated noise levels cannot be attributed solely to activities at the transfer station.

3.2.3 Mitigation Measures

The main method for noise abatement at the site is to ensure that noise abatement equipment (i.e. mufflers) on plant and lorries are operating properly. In addition the flaps installed at the building doors will help to attenuate noise emissions from the plant operating in the building.

3.3 Sewer Monitoring

3.3.1 Introduction

Emissions to the Sewer are monitored quarterly as required by the *Schedule E.1: Emissions to Sewer* of Waste Licence. Table 3.6 lists details of the sewer monitoring results. Monitoring of the emission to sewer is carried out at a sampling chamber located approximately 2 metres downstream (to north) of the Class II interceptor – refer to Figure 01 Rev. H, Appendix 1 for location.

Table 3.6: Results on Emissions to Sewer.

Parameter	Unit	ELV Note 1	2008			
			Q1	Q2	Q3	Q4
Flow to sewer	m ³ /day	50	34.58	65.79*	15.19	31.8
BOD	mg/l	2,500	28	7	<2	114
COD	mg/l	7,500	216	27	24	92
Ammoniacal Nitrogen	mg/l	100	2.8	3.8	5.0	2.3
Suspended Solids	mg/l	1,000	19	459	<10	<10
Sulphates (as SO ₄)	mg/l	400	298	221	102	111
Fats, Oil, Grease	mg/l	100	1	<1	2	<1
Detergents (as MBAS)	mg/l	100	0.6	0.2	0.2	0.4
pH	Units	-	6.76	7.82	7.13	7.15
Conductivity	µS/cm	-	1117	787	800	912

Note 1: ELV = Emissions Limit Value (for a grab sample)

*: The flow unit was found to be faulty and was replaced on the 10th of June 2008. The figure presented is an average of usage from 01/04/08 to 24/06/08.

3.3.2 Summary of Results

Emissions levels at the facility were below the ELVs for all monitoring events undertaken during the monitoring period 1st January 2008 to 31st December 2008.

A flow meter was also installed in December 2003 and the calculated daily average usually remains well below the emission limit flow value of 50 m³/day. However, the faulty flow metre detected in June 2008 meant that an elevation was detected. The fault was detected and replaced immediately.

3.3.3 Mitigation Measures

No mitigation measures are planned at this time.

3.4 Vermin Monitoring

Vermin control is carried out on the site by L. G. Vaughan & Sons (Rathfarnham, Dublin 16). The monitoring included regular site assessments and the maintenance (examining and replenishing) of bait boxes placed in fixed locations around the site.

The Vermin Control Plan is included in the Environmental Management Programme (EMP) of January 2002 (Issued February 2003).

4.0 RESOURCE AND ENERGY CONSUMPTION SUMMARY

Table 4.1 provides details of energy consumption at the site between 2004 and 2008.

Table 4.1: Resource and Energy consumption at the site between 2004 and 2008.

Energy source	2004	2005	2006	2007	2008
Water	786 m ³	872 m ³	826 m ³	1,732 m ³	1,804 m ³
Gas oil	266 m ³	259 m ³	124 m ³	68 m ³	63.55 m ³
Electricity	77,671 units	73,289 units	76,040 units	67,900 units	50,540 units

5.0 REPORT ON DEVELOPMENT WORKS

5.1 Works for the Preceding Year

During the reporting period the licensee has completed various development works. These works are listed in Table 5.1.

Table 5.1: Development Works - 2008

Item	Works
1	Conversion of facility from a processing plant to a transfer station with the removal of much of the processing plant and equipment.

5.2 Works for the Coming Year 2009

No works are currently planned for 2009.

6.0 SCHEDULE OF OBJECTIVES AND TARGETS

A review of the Schedule of Objectives and Targets will be undertaken annually and achievement of targets during the previous twelve months measured.

Overall responsibility for managing the Schedule of Objectives and Targets rests with the company General Manager and the Facility Manager.

6.1 Schedule of Objectives and Targets for 2008

There were no new Objectives and Targets in 2008. Previously proposed Objectives and Targets were addressed.

7.0 DESCRIPTION OF PROCEDURES DEVELOPED IN 2008

Procedures, which have been implemented at the site, were developed in 2001 (see AER/EMP 2001). These procedures are reviewed annually and amended as required.

During 2008, 3 no. procedures were developed and are outlined below:

Waste Acceptance Procedure – Weighbridge Operating Procedures
Waste Acceptance Procedure – On-site Verification of Waste
Waste Acceptance Procedure – Handling & Transfer of Gypsum Wastes

8.0 TANK, DRUM, PIPELINE AND BUND TESTING AND INSPECTION REPORT

Underground pipes and sumps were inspected and their integrity assessed during 2001. There were no tests carried out during 2008.

9.0 REPORTED INCIDENTS AND COMPLAINTS SUMMARIES

Condition 10.6 of Waste Licence Register No. W0045-01 requires a notification of the Agency in case an incident has, or may have, taken place at the facility. Incidents are described in Condition 3.1 of the Licence as follows:

“3.1 The Licensee shall make written records of the following incidents:

- a) Any nuisance caused by the activity*
- b) Any emission which does not comply with the requirements of this licence*
- c) Any trigger level specified in this licence which is attained or exceeded*
- d) Any indication that environmental pollution has, or may have, taken place*
- e) Any emergency.”*

The Licence sets Emission Limit Values (ELV) for dust, noise and emissions to sewer. Table 9.1 below outlines the incidents that occurred during 2008.

Table 9.1: Elevations during the reporting period.

Date	Incident	Action
Quarter 1	Dust level limit exceeded	Notified Agency in Quarter 1 Report 2008
Quarter 2	Dust level limit exceeded	Notified Agency in Quarter 2 Report 2008
Quarter 3	Dust level and noise level limit exceeded	Notified Agency in Quarter 3 Report 2008
Quarter 4	Dust level and noise level limit exceeded	Notified Agency in Quarter 4 Report 2008

There were no complaints received at the facility during the reporting period.

10.0 REVIEW OF NUISANCE CONTROLS

The Licence requires a weekly inspection of the facility and its immediate surroundings for nuisance caused by vermin, birds, flies, mud, dust and odours. The Facility Manager carries out these inspections. A written report of each inspection is filed and kept at the facility office.

10.1 Nuisances caused by Vermin

Pest control is carried out on the site by L.G. Vaughan & Sons, 205 Grange Road, Rathfarnham, Dublin 16. A revised vermin control plan was included in the Environmental Management Programme (EMP) of February 2003.

10.2 Nuisances caused by Birds

Birds have not been identified on the site as a nuisance. In the occurrence of a bird related problem a licensed pest controller for birds will be employed. A revised vermin control plan was included to the EMP of February 2003.

10.3 Nuisances caused by Mud and Dust

Monitoring for dust emissions on the site are carried out quarterly as requested in the Waste Licence. A quarterly report is prepared and sent to the Agency, which includes details of dust monitoring results. A revised dust minimisation plan was included in the EMP of February 2003.

10.4 Nuisances caused by Odours

Odours have not been identified on the site as a nuisance.

11.0 FINANCIAL PROVISIONS

A report on Financial Provisions was prepared as a once – off report “Nine Months after Grant of Licence”.

In summary there are two potential scenarios for which a Financial Provision, available for use by the Agency, may be needed:

Site decommissioning.

In the event of a decommissioning of the site it would probably be for the purposes of a trade sale and the Licensee undertakes to instruct the Company Solicitor to undertake to withhold sufficient funds from sale proceeds to discharge whatever costs arise from decommissioning.

Environmental nuisance and pollution events.

An Environmental Liabilities Risk Assessment (Condition 11.2.1) was prepared and submitted as part of the “Six Months After Grant Licence Report”.

The licensee has put in place an Environmental Site Liability policy with Chubb Insurance of Europe to cover unexpected pollution events.

12.0 MANAGEMENT AND STAFFING STRUCTURE

The management structure was included in the Environmental Management Programme (EMP) of February 2003. No amendments were made to the management structure in 2008.

13.0 PROGRAMME FOR PUBLIC INFORMATION

A Communications Programme was developed for the facility.

The specific objectives of the programme are as follows:

- To ensure that the general public is aware of how to contact facility and company management;
- To encourage liaison between the Licensee and local residents and those who may be affected by the facility operations;
- To make available Environmental Performance Data relating to the Waste Recycling and Transfer Facility at Greenhills Road at all reasonable times.

The communications programme focuses on ensuring that the general public knows how to access relevant information, facilitate personal contact with site management and facilitate site visits. Any complaints regarding the site operation can be forwarded to the facility manager who will log them.

APPENDICES

Appendix 1

Figure 1 Rev. H. Monitoring Locations

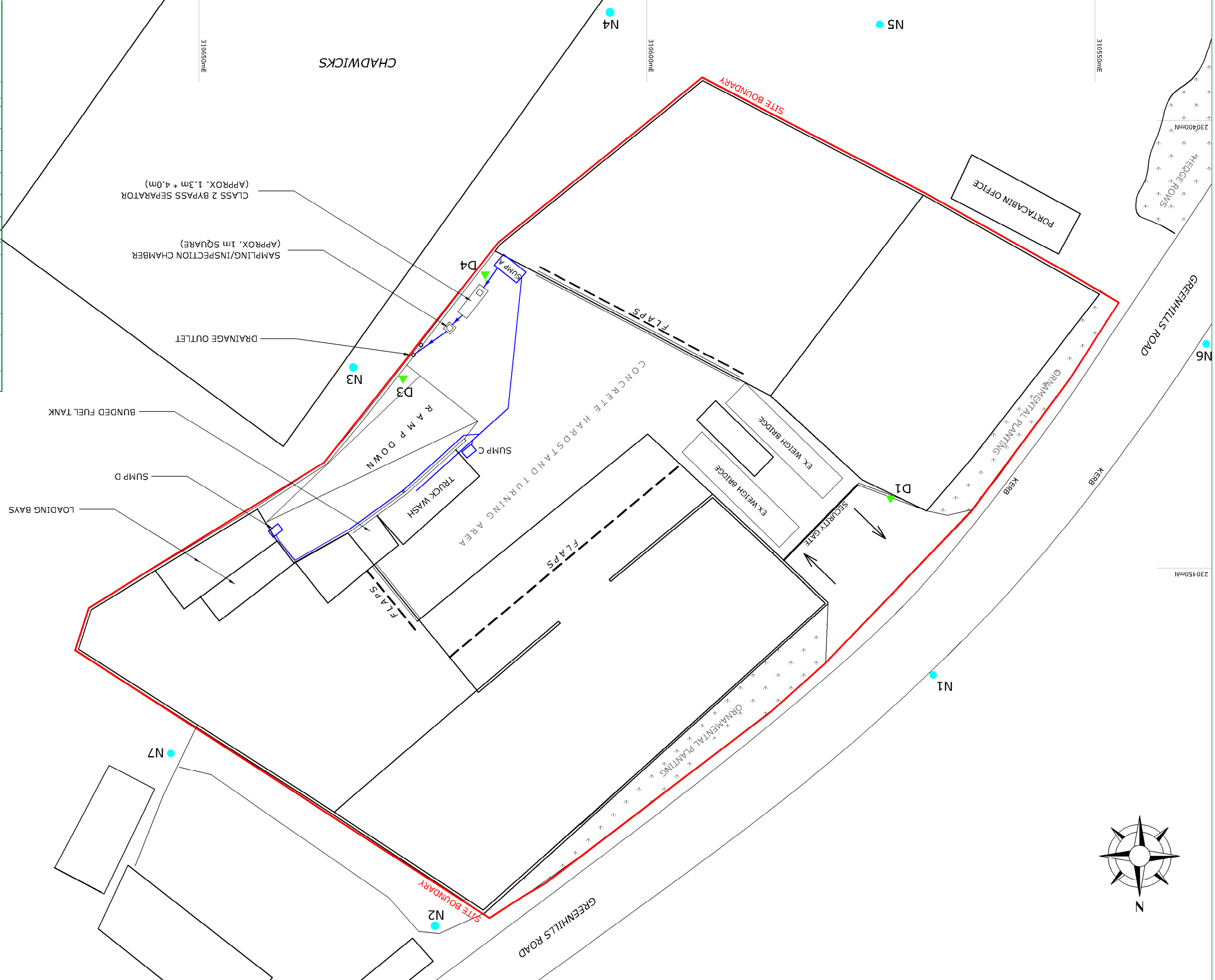
Appendix 2
Objectives & Targets

Client DEAN WASTE CO. LTD.
Project GREENHILLS RD, WASTE RECYCLING AND TRANSFERT FACILITY
Location GREENHILLS ROAD
Title MONITORING LOCATIONS

Engineer	GP	01
Project No.	GP	01
Created by	GP	
Reviewed by	GP	01
Issue	Date	Description
D	29/03/06	ISSUE TO EPA WITH AER 2006
E	02/07	ISSUE WITH 4th Q 2007
F	10/08	ISSUE WITH 3rd Q 2008
G	10/01/09	ISSUE WITH 4th Quarter 2008 Report
H	30/03/09	ISSUE WITH AER 2008

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LEGEND

▲ DUST MONITORING LOCATION
 ● NOISE MONITORING LOCATION

NOTES

1. ALL SUMPS ARE DIAGRAMATIC ONLY.
 2. PRELIMINARY SURVEY SUBJECT TO VERIFICATION.
 3. DO NOT SCALE FROM DRAWING.