

**RILTA**  
*Environmental  
Limited*



**Annual Environmental Report**  
**January 1<sup>st</sup> – December 31<sup>st</sup> 2013**

March 2014

TOBIN CONSULTING ENGINEERS



**TOBIN**  
Patrick J. Tobin & Co. Ltd.

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REPORT

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**PROJECT:** **Rilta Environmental Ltd,  
Site 14-A1**

**CLIENT:** **Rilta Environmental Ltd.**  
Site No. 14A1,  
Greenogue Business Park,  
Rathcoole,  
County Dublin.

**COMPANY:** **TOBIN Consulting Engineers**  
Block 10-4,  
Blanchardstown Corporate Park,  
Dublin 15.

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**DOCUMENT AMENDMENT RECORD**

<b>Client:</b>	<b>Rilta Environmental Ltd.</b>
<b>Project:</b>	<b>Rilta Site 14-A1</b>
<b>Title:</b>	<b>Annual Environmental Report – January 1<sup>st</sup> to December 31<sup>st</sup> 2013</b>

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PROJECT NUMBER: 5965				DOCUMENT REF: 5965 – 04 – 01			
Final	Annual Environmental Report (AER)	JQ	27/03/14	JAH	02/04/14	DG	02/04/14
<b>Revision</b>	<b>Description &amp; Rationale</b>	<b>Originated</b>	<b>Date</b>	<b>Checked</b>	<b>Date</b>	<b>Authorised</b>	<b>Date</b>
<b>TOBIN Consulting Engineers</b>							

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## 1 INTRODUCTION

The Environmental Protection Agency (EPA) issued Rilta Environmental Ltd. (Rilta) with Waste Licence Reg. No. W0185-01 for its facility at Site 14-A1, Greenogue Business Park, Rathcoole, County Dublin on 09<sup>th</sup> February 2010 (transfer of waste license). The facility is located within an industrial estate approximately 2km east of Newcastle village and approximately 2.5km west of Rathcoole village. Rilta have been operating at the facility since 2009. Rilta retained Tobin Consulting Engineers (TOBIN) to prepare the Annual Environmental Report (AER) for the reporting period January 2013 to December 2013. This report has been prepared in accordance with Condition 11.6 and Schedule E of the waste licence and a site layout map is provided in Appendix A.

This report addresses Condition 11.6 of the waste licence for the facility. Condition 11.6 states:

*11.6.1 - The licensee shall submit to the Agency for its agreement, by 31st March each year an Annual Environmental Report (AER).*

*11.6.2 - The AER shall include as a minimum the information specified in Schedule F: Content of Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the Agency.*

The format of the report follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013.

### 1.1 WASTE ACTIVITIES AND RECORDS

The RILTA facility at Site 14-A1 is a fully engineered and contained industrial site. It is licensed to accept 60,000 tonnes per annum as set out in Schedule A and summarised in Table 1.1 below.

**Table 1.1 Waste Acceptance - Categories and Quantities**

Waste Type	Maximum (Tonnes Per Annum) <sup>Note 2</sup>
Household	7,000
Sewage Sludge	2,000
Construction and Demolition (C&D)	1,000
Industrial Sludge	2,000
Commercial and Industrial Waste	15,000
Hazardous Waste as listed in Table E.2.2 entitled ‘Hazardous waste Types and Quantities’ of the application.	33,000
<b>TOTAL</b>	<b>60,000</b>

*Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act, 1996:*

**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);**

*This activity relates to the shredding of waste materials, including, household hazardous waste containers and metals, plastics, card and paper. Physico-chemical treatment may be carried out on effluents to meet discharge criteria.*

**Class 11:**          **Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule;**

*This activity relates to bulking-up of waste on-site prior to shipment of waste for disposal off-site.*

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

*This activity relates to the baling and repackaging of various waste types prior to disposal off-site.*

**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;**

*This activity relates to the storage of hazardous and non-hazardous waste at the facility prior to disposal off-site.*

*Licensed Waste Disposal Activities, Fourth Schedule of the Waste Management Act, 1996.*

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

*This activity relates to the recycling of various organic substances including, wood, paper/cardboard, textile materials and vegetable oils.*

**Class 3:**            **Recycling or reclamation of metals and metal compounds;**

*This activity relates to the dismantling, shredding, baling and recycling of various metal wastes.*

**Class 4:**            **Recycling or reclamation of other inorganic materials;**

*This activity is limited to the reclamation of refrigerator gasses.*

**Class 11:**          **Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:**

*This activity is to make provision for the acceptance on-site for transfer to an appropriate facility of waste that has been obtained from any activity referred to previously in the*

Schedule.

**Class 12: Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule;**  
This activity refers to the exchange of certain waste types and their packaging for further processing off-site

**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;**  
This activity is limited to the storage of waste at the facility prior to off-site recovery.

## 2 WASTES MANAGED

### 2.1 WASTE RECEIVED

Waste Data received for Rilta Site 14-A1 is summarised in Table 2.1 below.

**Table 2.1 Waste Received - 2013**

Waste Type	Tonnes	EWC Code
<b>Transformers</b>	1,094.52	16 02 13
<b>Redundant Equipment</b>	655.28	16 02 14
<b>WEE</b>	864.60	16 02 11

## 3 REPORT ON EMISSIONS/RESULTS AND INTERPRETATIONS OF ENVIRONMENTAL MONITORING

TOBIN implements a comprehensive environmental monitoring programme at Site 14-A1. This monitoring programme includes the assessment of:

- Surface Water;
- Groundwater;
- Wastewater;
- Noise; and,
- Dust.

All monitoring locations are indicated on Drawing 5695--1000 in Appendix A.

### 3.1 SURFACE WATER RUN OFF MONITORING

Assessment of surface water run-off was monitored on a quarterly basis during 2013. The monitoring point (SW1) is shown on Drawing 5695--1000 in Appendix A. Schedule D of the waste license requests that pH, electrical conductivity and chemical oxygen demand are analysed, however no emission limit values (ELV) have been set out in the licence. As no ELVs are set out comparison would be made to the relevant surface water standards.



The surface water run-off samples were collected during Q1, Q2, Q3 and Q4 monitoring events in 2013. The analytical results are presented in Table 3.1 below and the full laboratory report is included in *Appendix B*. Table 3.1 includes references to the Interim Guideline Values (IGVs) published by the EPA.

**Table 3.1 Surface Water Laboratory Results**

Parameter	Units	IGVs	SW1			
			Q1 2013	Q2 2013	Q3 2013	Q4 2013
pH	pH units	6.5-9.0	7.5	8.3	7.9	7.7
Conductivity	uS/cm	1000	119	460	255	165
COD	mg/L	-	5	18	12	18

The results during 2013 the monitoring event indicate that there is no evidence of contamination at the facility.

### 3.2 WASTEWATER MONITORING

The facility is designed to collect wastewater (foul) from floor wash downs in the warehouse building and discharge to it to the municipal sewer which serves the industrial estate. However, as putrescible wastes are not accepted at the facility and floor wash downs are not required, there is no wastewater discharge to sewer from the facility and no samples were present for collection from the monitoring point (FW1) during any monitoring event in 2013.

### 3.3 GROUNDWATER MONITORING

During 2013 groundwater monitoring was conducted quarterly and groundwater levels were recorded monthly at two monitoring points (GW1 & GW2) as shown on Drawing 5965-1000 (*see Appendix A*). Monitoring was conducted in accordance with Schedule D of the waste licence.

Schedule D of the waste license requests that groundwater is analysed for pH, electrical conductivity, dissolved oxygen, total organic carbon, sulphate and chloride on a quarterly basis and that List 1 & 2 organic substances and metals are analysed on an annual basis.

No groundwater ELVs have been set out in the licence. As no ELVs are set out comparison has been made to the relevant interim guideline values<sup>1</sup> (IGV) as published by the Agency. The results for both laboratory and field analysis of the groundwater during 2013 are in Appendix B of this report and summarised in Table 3.2 and Table 3.3 below.

<sup>1</sup> EPA Interim Report – ‘Towards setting guideline values for the protection of groundwater in Ireland’.

**Table.2 In-situ GW Monitoring Results - 2013**

Parameter	Units	IGV	Q1		Q2		Q3		Q4	
			GW-1	GW-2	GW-1	GW-2	GW-1	GW-2	GW-1	GW-2
<b>pH</b>	pH units	6.5 – 9.5	7.45	7.23	7.84	7.49	7.55	7.27	7.31	6.85
<b>Conductivity</b>	mS/cm	1.000	483.3	594	464	582	489.5	568	312	576
<b>Temperature</b>	°C	25	6.6	7.6	7.5	6.9	13.9	11.0	12.9	11.45
<b>Dissolved Oxygen</b>	mg/l	-	7.45	7.23	5.3	7.42	0.10	4.01	1.67	0.89

**Table 3.3 Laboratory Results– 2013**

Parameter	Units	IGV	Q1		Q2		Q3		Q4	
			GW1	GW 2	GW1	GW 2	GW1	GW 2	GW1	GW 2
<b>pH</b>	<i>pH units</i>	<i>6.5-9.0</i>	7.2	7.0	7.2	7.1	7.4	7.2	7.4	7.0
<b>Conductivity</b>	<i>mS/cm</i>	1.000	568	753	598	798	501	613	331	624
<b>Dissolved Oxygen</b>	<i>mg/l</i>	-	5.2	4.4	7.4	7.3	8.4	-	2.2	1.8
<b>Chloride</b>	<i>mg/l</i>	30	21.58	22.78	20.63	32.07	23.06	28.37	11.26	18.72
<b>Sulphate</b>	<i>mg/l</i>	200	88.70	125.86	79.92	127.07	68.54	105.62	35.45	84.49
<b>Total Organic Carbon</b>	<i>mg/l</i>	-	2.02	3.72	3.65	4.25	3.75	3.19	1.94	2.86
<b>SVOCs</b>	<i>µg/l</i>	-	-	-	-	-	-	-	-	-
<b>VOC</b>	<i>µg/l</i>	-	-	-	-	-	-	-	-	-
<b>Metals</b>	<i>µg/l</i>	<b>Note 1</b>	-	-	-	-	<IGV Limits*	<IGV Limits	-	-

**Note 1:** \*With the exception of Barium

Quarterly monitoring parameters pH, electrical conductivity, dissolved oxygen, chloride, sulphate, TOC were all below respective IGV limit levels, with the exception of Chloride at GW2 (32.07 mg/L) which was slightly higher than the 30mg/l IGV. Results are broadly similar to historic results from the site.

Groundwater levels recorded in 2013 are outlined in Figure 3.1 and Table 3.4 below.

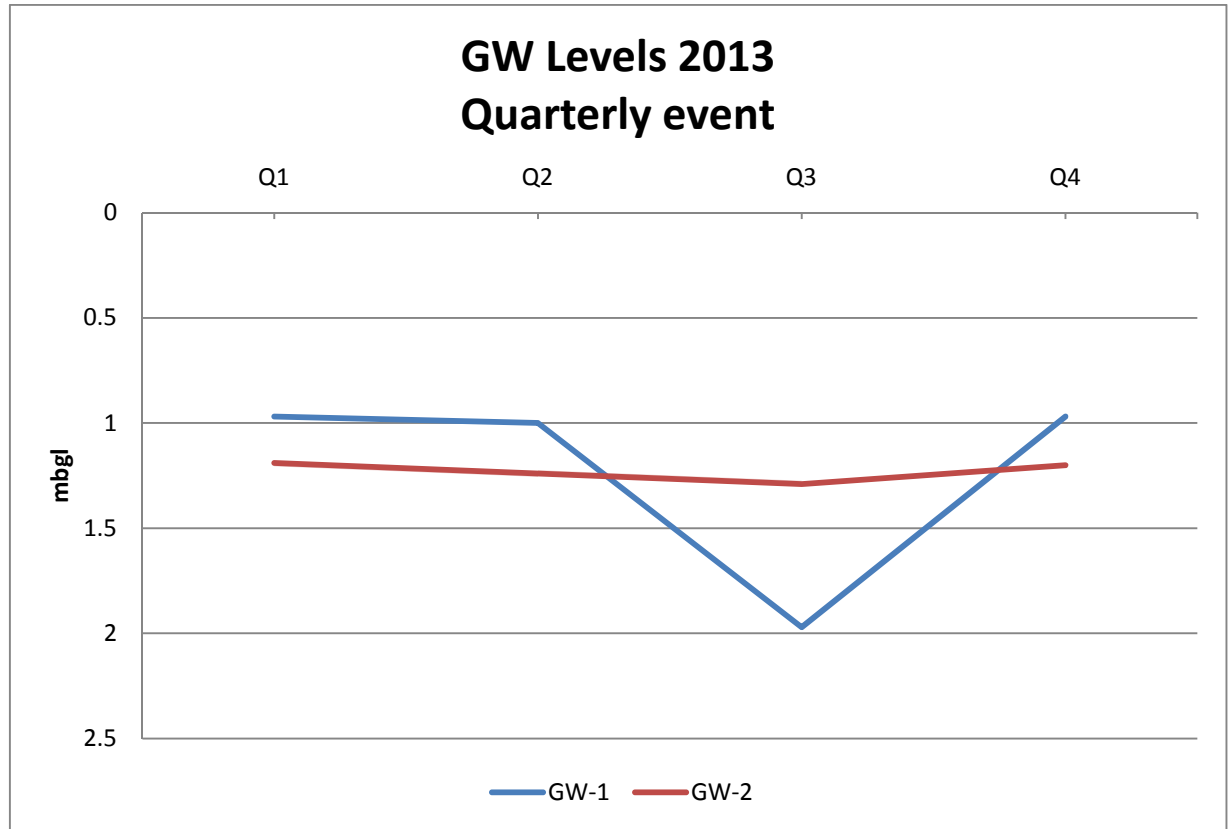


Figure 3.1 Groundwater Levels – 2013

Table 3.4 Groundwater Levels - 2013

Location	Units	Q1	Q2	Q3	Q4
GW-1	mbgl	0.97	1.00	1.97	0.97
GW-2	mbgl	1.19	1.24	1.29	1.20

### 3.4 NOISE MONITORING

Daytime and night time noise monitoring was carried out at approved noise monitoring locations (see Drawing 569-42-G006) on the 27<sup>th</sup> of November 2013 (daytime and night-time). The full noise monitoring report from 2013 detailing the noise environment at Site 14-A1 is contained in Appendix C. Noise monitoring results obtained from the day and night time surveys carried out at the RILTA facility during 2013 are summarised in Table 3.5 and Table 3.6 below.

**Table 3.5 Annual Daytime Noise Monitoring Survey - 2013**

DAY TIME						
Receptor	Time	Leq	Penalty Applied Leq	L10	L90	Notes
<b>N1</b>	15:50	53.70	<b>58.70</b>	57.61	43.81	Passing road traffic on adjacent road is the dominant noise source. Activities onsite were occasionally audible (some banging, radio) along with passing aircraft.
<b>N2</b>	15:15	50.30	50.30	54.19	39.40	Passing traffic and overhead aircraft were the dominant noise sources. Activities at adjacent facilities were also audible. Onsite activity was not audible at this location.
<b>N3</b>	14:34	55.10	<b>60.10</b>	57.20	42.54	The dominant noise source was activities at the site (people talking, radio and machinery (angle grinder and fork truck)). Passing traffic was also audible.

**Table 3.6 Annual Night Time Noise Monitoring Survey - 2013**

NIGHT TIME						
Receptor	Time	Leq	Penalty Applied Leq	L10	L90	Notes
<b>N1</b>	1:50	38.7	38.7	33.19	31.12	The noise sources included occasional traffic on internal estate roads. A banging noise from a neighbouring facility was audible in background levels. The site was not audible during night time monitoring.
<b>N2</b>	2:30	38.7	38.7	36.05	31.14	During night time monitoring the dominant noise source was traffic on internal estate roads. Distant traffic was audible and a low humming sound was audible from a neighbouring facility. The RILTA Facility was inaudible.
<b>N3</b>	3:00	33.2	33.2	33.32	31.14	The dominant noise source was traffic on internal estate roads. The site was not audible during night time monitoring.

The noise emission limits as per Schedule C of Waste Licence 0185 – 01 are 55 dB (A) for daytime and 45 dB (A) for night time. These levels specifically relate to noise emissions arising from the facility, measured at any noise sensitive location.

Noise levels recorded at the three no. EPA agreed noise monitoring locations contain noise emissions from adjacent industrial sites, low flying aircraft and traffic on the internal road network of the industrial estate. Noise emissions from the RILTA facility were audible at N1 and N3 during the daytime monitoring but were inaudible during the night time monitoring. Note that the EPA agreed noise monitoring locations are all on site and do not reflect emissions at noise sensitive locations.

The A-weighted equivalent continuous sound pressure level (LAeq, 30 min) recorded at the RILTA facility was above 55 dB(A) at N3 during the daytime monitoring event. The facility was highly audible

at N3 during the daytime monitoring event and it is therefore likely that this exceedance was as a result of the facility.

No noise emissions due to the RILTA facility were audible during the night time monitoring period. During the night time monitoring period the A-weighted equivalent continuous sound pressure level (LAeq, 30 min) was below 45 dB(A) (night time) at all monitoring locations.

There were no impulsive noise emissions audible at any of the monitoring locations during the daytime or night time monitoring period.

With regard to tonal emissions, during the day a pure tone was detected at N1 at 16Hz. At N3 two tones were detected at 25Hz and 1.25Hz. No tones were detected at N2.

During the daytime survey, the site was audible at N1 and highly audible at N3 (angle grinder, movement of materials/forklift and radio on). The tones observed at N1 and N3 during the day time survey were likely attributed to by on-site activities as opposed to traffic noise or any neighbouring facilities as these external factors were audible at N2, where the facility was not audible, and no tones were recorded. A 5dB(A) penalty has therefore been added to N1 and N3 resulting in an Leq of **58.7dB(A)** and **60.1dB(A)**, respectively.

During the night time survey, the site was not audible at any location and the Leq ranged between 33.2 (N3) and 38.7 (N1 and N2). It is likely that tonal components at 25Hz observed at N3 during both day and night time surveys were attributed to a neighbouring facility as a low hum was audible in the locality but the site was not audible during the night time survey when the facility was not in operation. No penalty has therefore been applied for the tone observed at N3 at 25Hz during the day or night.

Although no penalty was applied for the tone observed at N3 at 25Hz during the day or night, a 5dB(A) penalty was applied for the tone observed at 1.25Hz at N3 during the daytime. The resulting Leq of **60.1dB(A)** is above the noise emission limit of 55 dB(A) for daytime.

With the penalty applied at N1, the Leq **58.7dB(A)** at this location was also in excess of the limit of 55 dB(A) for daytime noise.

Full 1/3 octave frequency band analysis of all surveys is presented in Appendix C to this report.

### 3.5 DUST MONITORING

Dust monitoring was carried out at 4 no. monitoring locations (*see Drawing 569-42-G006*) during April-May and July-August 2013. The dust results for all 4 no. monitoring locations were below the required ELV (350mg/m<sup>2</sup>/day) set out in waste licence 185-02, during all monitoring events in 2013, exception of

D3 in Q1 and Q3. As the majority of works carried out at this facility are done so indoors and only one of four monitoring locations was above the mean daily deposition limit, it is likely that activities at a neighbouring facility are contributing to dust levels recorded at monitoring locations within Rilta. A full set of laboratory dust results from 2013 are contained in Appendix D and summarised in Table 3.7 below.

**Table 3.7 Dust Monitoring Results 2013**

Location	Q1 (mg/m <sup>2</sup> /day)	Q2 (mg/m <sup>2</sup> /day)	Q3 (mg/m <sup>2</sup> /day)
D1	162.51	171.95	92.79
D2	90.17	191.34	108.52
D3	<b>790.02</b>	132.63	<b>1967.45</b>
D4	70.25	93.84	132.63

### 3.6 AIR EMISSION MONITORING

The air emission point TfA1, is no longer in use and as such does not have a monitoring requirement.

### 3.7 FOUL WATER

There have been no emissions to foul sewer in 2013.

## 4 OBJECTIVES AND TARGETS OF ENVIRONMENTAL MANAGEMENT SYSTEM

### 4.1 SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS

Details of the Environmental Objectives and targets are outlined in the Environmental Management Programmes (EMP) for the RILTA Site 14-A1 facility are contained in Appendix E.

### 4.2 ENVIRONMENTAL MANAGEMENT PROGRAMME

Details of the 2013 and 2014 EMPs for the RILTA Site 14-A1 facility are contained in Appendix E.

## 5 POLLUTANT RELEASE AND TRANSFER REGISTER (PRTR)

Details of the 2013 and 2012 Pollutant Release Transfer Register (PRTR) for the RILTA facility 14-A1 are contained in Appendix F.

## 6 PROCEDURES

There were no new procedures for 2013.

## 7 REPORTING INCIDENTS AND COMPLAINTS SUMMARY

There were no incidents or complaints reported for Site 14-A1 during 2013.

## 8 REVIEW OF NUISANCE CONTROLS

There were no nuisance emissions were reported for Site 14-A1 during 2013. This will continue to be closely monitored going forward into 2013.

## 9 RESOURCE AND ENERGY CONSUMPTION SUMMARY

Resource consumption at the Rilta Site 14-A1 facility during 2011 is summarised in Table 9.1 below.

**Table 9.1 Resource Consumption Summary – 2012 & 2013**

Resource	Units	2012	2013
<b>Electricity</b>	<i>Kwh</i>	<i>52,800</i>	45,750
<b>Diesel</b>	<i>L</i>	<i>780</i>	800
<b>Water</b>	<i>m<sup>3</sup></i>	<i>320</i>	148

## 10 DEVELOPMENT AND INFRASTRUCTURAL WORKS

There were no developments or infrastructural works at the RILTA Site 14-A1 facility during 2013.

## 11 REPORTS ON FINANCIAL PROVISION MADE UNDER THIS LICENCE

Financial provision at the RILTA Site 14-A1 facility is currently under review.

### 11.1 MANAGEMENT AND STAFFING STRUCTURE

Details of the management and staffing structure are contained in Appendix G.

### 11.2 PROGRAMME FOR PUBLIC INFORMATION

RILTA maintains a 'Public File' which contains all correspondence between RILTA and the Agency, all waste data and monitoring data as required by waste licence W0185-01. This file is available for viewing during normal office hours.

## 12 ANY OTHER ITEMS SPECIFIED BY THE AGENCY

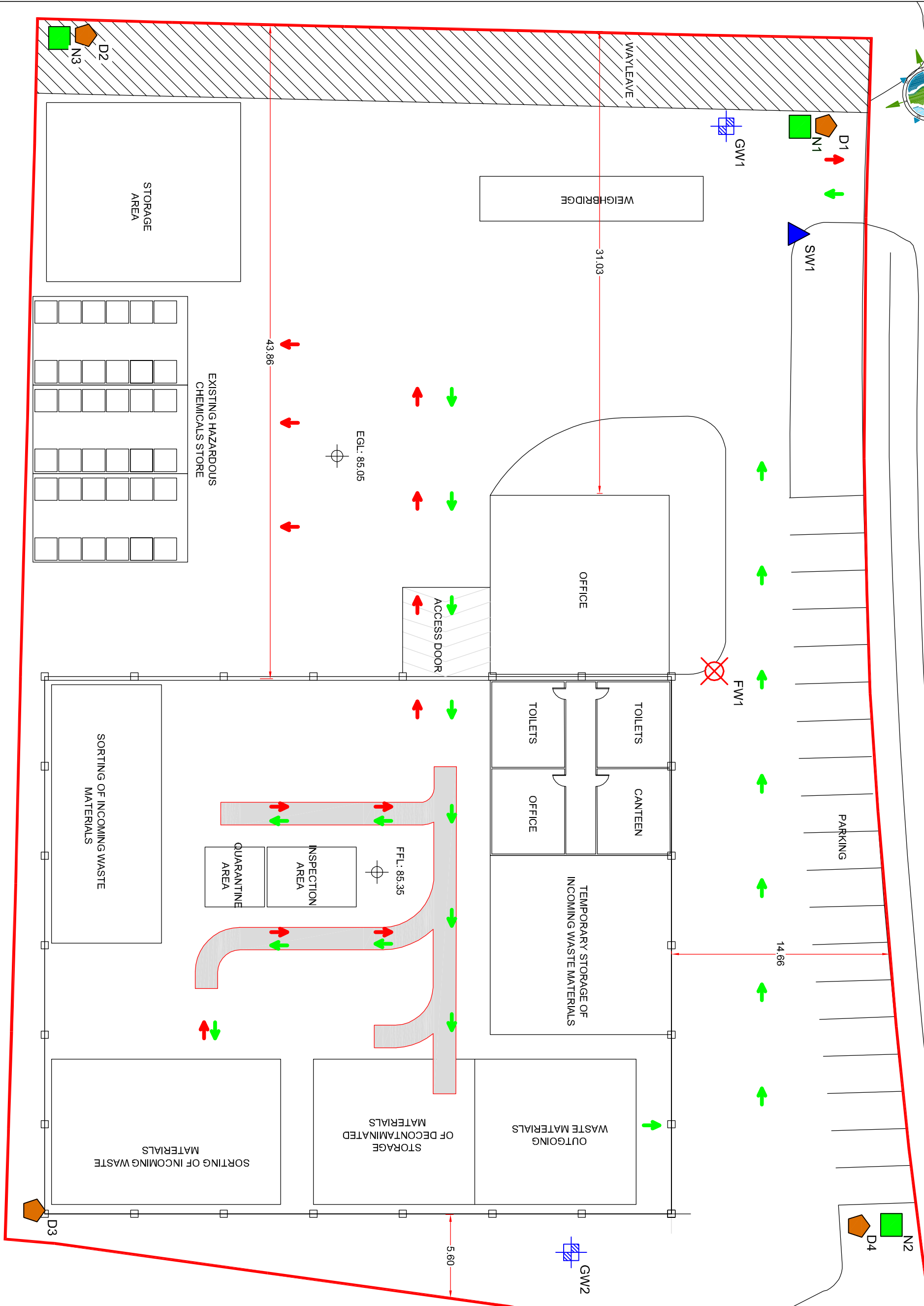
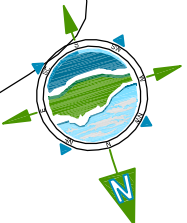
No additional requirements were specified by the agency during 2013.

# APPENDIX A

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## Site Map





- LEGEND:**
- SURFACE WATER DISCHARGE POINT
  - GROUNDWATER MONITORING WELL
  - NOISE MONITORING POINT
  - FOUL WATER MONITORING POINT
  - DUST MONITORING POINT

Rev	Date	Description	IAN	ST
D01	02.04.11	DRAFT ISSUE FOR REVIEW		

Client:  
 RILTA Environmental Limited

Project:  
 RILTA WASTE FACILITY AT GREENOUGE BUSINESS PARK

Title:  
 ENVIRONMENTAL MONITORING LOCATIONS

Scale @ A1:  
 1:125

Prepared by: M. Nolan  
 Checked: S. Tinnelly  
 Date: April 2011

Project Director: D. Grehan  
 Drawing Status: Draft

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Drawing No.: 5965-1000  
 Revision: D01

# APPENDIX B

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## Laboratory Results

A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/022/01
<b>Customer PO</b>		<b>Date of Receipt</b>	23/03/2013
<b>Customer Ref</b>	FW1 22 - 03 - 13	<b>Sampled On</b>	22/03/2013
<b>Ref 2</b>		<b>Date Testing Commenced</b>	23/03/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	27/03/2013
		<b>Sample Type</b>	Surface Water

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
COD (Surface Water)	107	Colorimetry	5	mg/L	UKAS
Conductivity (Surface Water at 20C)	112	Electrometry	119	uscmm -1@20C	UKAS
pH (Surface Water)	110	Electrometry	7.5	pH Units	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 27/03/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.

A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	<b>Colm Hussey</b> <b>Rilta Environmental Limited.</b> <b>Block 402 Grants Drive</b> <b>Grenogue Business Park</b> <b>Rathcoole</b> <b>Co. Dublin</b>	<b>Lab Report Ref. No.</b>	<b>1223/015/01</b>
<b>Customer PO</b>		<b>Date of Receipt</b>	<b>27/06/2013</b>
<b>Customer Ref</b>	<b>Storm Water 14A1</b>	<b>Sampled On</b>	<b>27/06/2013</b>
<b>Ref 2</b>		<b>Date Testing Commenced</b>	<b>27/06/2013</b>
		<b>Received or Collected</b>	<b>Delivered by Customer</b>
		<b>Condition on Receipt</b>	<b>Acceptable</b>
		<b>Date of Report</b>	<b>01/07/2013</b>
		<b>Sample Type</b>	<b>Surface Water</b>

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
COD (Surface Water)	107	Colorimetry	18	mg/L	UKAS
Conductivity (Surface Water at 20C)	112	Electrometry	460	uscmm -1@20C	UKAS
pH (Surface Water)	110	Electrometry	8.3	pH Units	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 01/07/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

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A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	<b>Colm Hussey</b> <b>Rilta Environmental Limited.</b> <b>Block 402 Grants Drive</b> <b>Grenogue Business Park</b> <b>Rathcoole</b> <b>Co. Dublin</b>	<b>Lab Report Ref. No.</b>	<b>1223/019/01</b>
<b>Customer PO</b>		<b>Date of Receipt</b>	<b>02/10/2013</b>
<b>Customer Ref</b>	<b>SW - Cedar 30/09/13</b>	<b>Sampled On</b>	<b>30/09/2013</b>
<b>Ref 2</b>		<b>Date Testing Commenced</b>	<b>02/10/2013</b>
		<b>Received or Collected</b>	<b>Delivered by Customer</b>
		<b>Condition on Receipt</b>	<b>Acceptable</b>
		<b>Date of Report</b>	<b>07/10/2013</b>
		<b>Sample Type</b>	<b>Surface Water</b>

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
COD (Surface Water)	107	Colorimetry	12	mg/L	UKAS
Conductivity (Surface Water at 20C)	112	Electrometry	255	uscmm -1@20C	UKAS
**pH (Surface Water)	110	Electrometry	7.9	pH Units	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 07/10/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/019/08
<b>Customer PO</b>		<b>Date of Receipt</b>	24/01/2013
<b>Customer Ref</b>	GW1 (Quarterly) 23/01/13	<b>Sampled On</b>	23/01/2013
<b>Ref 2</b>	Rilta Cedar Ref 5965	<b>Date Testing Commenced</b>	24/01/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	30/01/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	21.58	mg/L	UKAS
Conductivity (Ground Water at 20C)	112	Electrometry	568	uscm -1@20C	UKAS
Dissolved Oxygen (mg/l)	715	DO Meter	5.2	mg/L	
pH (Ground Water)	110	Electrometry	7.2	pH Units	UKAS
Sulphate (Ground Water)	119	Colorimetry	88.70	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	2.02	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 30/01/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/019/09
<b>Customer PO</b>		<b>Date of Receipt</b>	24/01/2013
<b>Customer Ref</b>	GW2 (Quarterly) 23/01/13	<b>Sampled On</b>	23/01/2013
<b>Ref 2</b>	Rilta Cedar Ref 5965	<b>Date Testing Commenced</b>	24/01/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	30/01/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	22.78	mg/L	UKAS
Conductivity (Ground Water at 20C)	112	Electrometry	753	uscm -1@20C	UKAS
Dissolved Oxygen (mg/l)	715	DO Meter	4.4	mg/L	
pH (Ground Water)	110	Electrometry	7.0	pH Units	UKAS
Sulphate (Ground Water)	119	Colorimetry	125.86	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	3.72	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 30/01/2013**

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/024/05
<b>Customer PO</b>		<b>Date of Receipt</b>	12/04/2013
<b>Customer Ref</b>	GW1 - 11/04/13	<b>Sampled On</b>	11/04/2013
<b>Ref 2</b>	Rilta Cedar Ref 5965	<b>Date Testing Commenced</b>	12/04/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	18/04/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	20.63	mg/L	UKAS
**Conductivity (Ground Water at 20C)	112	Electrometry	598	uscm -1@20C	
Dissolved Oxygen (mg/l)	715	DO Meter	7.4	mg/L	
**pH (Ground Water)	110	Electrometry	7.2	pH Units	
Sulphate (Ground Water)	119	Colorimetry	79.92	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	3.65	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 18/04/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/024/06
<b>Customer PO</b>		<b>Date of Receipt</b>	12/04/2013
<b>Customer Ref</b>	GW2 - 11/04/13	<b>Sampled On</b>	11/04/2013
<b>Ref 2</b>	Rilta Cedar Ref 5965	<b>Date Testing Commenced</b>	12/04/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	18/04/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	32.07	mg/L	UKAS
**Conductivity (Ground Water at 20C)	112	Electrometry	798	uscm -1@20C	
Dissolved Oxygen (mg/l)	715	DO Meter	7.3	mg/L	
**pH (Ground Water)	110	Electrometry	7.1	pH Units	
Sulphate (Ground Water)	119	Colorimetry	127.07	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	4.25	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 18/04/2013**

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<b>Customer</b>	<b>Jessica Quinn</b> <b>Tobin Consulting Engineers TES</b> <b>Block 10-4</b> <b>Blanchardstown Corp PK</b> <b>Dublin 15</b> <b>Dublin</b>	<b>Lab Report Ref. No.</b>	<b>1102/027/08</b>
<b>Customer PO</b>		<b>Date of Receipt</b>	<b>12/07/2013</b>
<b>Customer Ref</b>	<b>GW1 (Quarterly &amp; Annual) - 11/07/13</b>	<b>Sampled On</b>	<b>11/07/2013</b>
<b>Ref 2</b>	<b>Rilta (Cedar Site) 14 - A1 Ref: 5965</b>	<b>Date Testing Commenced</b>	<b>12/07/2013</b>
		<b>Received or Collected</b>	<b>Courier: DPD</b>
		<b>Condition on Receipt</b>	<b>Acceptable</b>
		<b>Date of Report</b>	<b>21/08/2013</b>
		<b>Sample Type</b>	<b>Groundwater</b>

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
1,1,1,2-Tetrachloroethane (Ground	154	GCMS	<0.46	ug/L	UKAS
1,1,1-Trichloroethane (Ground Water	154	GCMS	<0.43	ug/L	UKAS
1,1,2,2-Tetrachloroethane (Ground	154	GCMS	<5.00	ug/L	
1,1,2-Trichloroethane (Ground Water	154	GCMS	<1.67	ug/L	UKAS
1,1-Dichloroethane (Ground Water)	154	GCMS	<0.42	ug/L	UKAS
1,1-Dichloroethene (Ground Water)	154	GCMS	<0.41	ug/L	UKAS
1,1-Dichloropropene (Ground Water)	154	GCMS	<0.39	ug/L	UKAS
1,2,3-Trichlorobenzene (Ground Wat	154	GCMS	<0.34	ug/L	UKAS
1,2,3-Trichloropropane (Ground Wate	154	GCMS	<0.61	ug/L	UKAS
1,2,4-Trichlorobenzene (Ground Wat	154	GCMS	<0.51	ug/L	UKAS
1,2,4-Trimethylbenzene (Ground Wat	154	GCMS	<0.52	ug/L	UKAS
1,2-Dibromo-3-chloropropane (Groun	154	GCMS	<0.63	ug/L	UKAS
1,2-Dibromoethane (Ground Water)	154	GCMS	<0.63	ug/L	UKAS
1,2-Dichlorobenzene (Ground Water)	154	GCMS	<0.51	ug/L	UKAS
1,2-Dichloroethane (Ground Water)	154	GCMS	<0.45	ug/L	UKAS
1,2-Dichloropropane (Ground Water)	154	GCMS	<0.75	ug/L	UKAS
1,3,5-Trimethylbenzene (Ground Wat	154	GCMS	<0.33	ug/L	UKAS
1,3-Dichlorobenzene (Ground Water)	154	GCMS	<0.47	ug/L	UKAS
1,3-Dichloropropane (Ground Water)	154	GCMS	<0.64	ug/L	UKAS
1,4-Dichlorobenzene (Ground Water)	154	GCMS	<1.21	ug/L	UKAS
2,2-Dichloropropane (Ground Water)	154	GCMS	<5.00	ug/L	
2-Chlorotoluene (Ground Water)	154	GCMS	<0.55	ug/L	UKAS
4-Chlorotoluene (Ground Water)	154	GCMS	<0.43	ug/L	UKAS
Arsenic (Ground Water)	177	ICPMS	2.153	ug/L	UKAS
Benzene (Ground Water)	154	GCMS	<0.35	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 21/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	<b>Jessica Quinn</b> <b>Tobin Consulting Engineers TES</b> <b>Block 10-4</b> <b>Blanchardstown Corp PK</b> <b>Dublin 15</b> <b>Dublin</b>	<b>Lab Report Ref. No.</b>	<b>1102/027/08</b>
<b>Customer PO</b>		<b>Date of Receipt</b>	<b>12/07/2013</b>
<b>Customer Ref</b>	<b>GW1 (Quarterly &amp; Annual) - 11/07/13</b>	<b>Sampled On</b>	<b>11/07/2013</b>
<b>Ref 2</b>	<b>Rilta (Cedar Site) 14 - A1 Ref: 5965</b>	<b>Date Testing Commenced</b>	<b>12/07/2013</b>
		<b>Received or Collected</b>	<b>Courier: DPD</b>
		<b>Condition on Receipt</b>	<b>Acceptable</b>
		<b>Date of Report</b>	<b>21/08/2013</b>
		<b>Sample Type</b>	<b>Groundwater</b>

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Bromobenzene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
Bromochloromethane (Ground Water)	154	GCMS	<0.76	ug/L	UKAS
Bromodichloromethane (Ground Wat	154	GCMS	<0.63	ug/L	UKAS
Bromoform (Ground Water)	154	GCMS	<1.31	ug/L	UKAS
Bromomethane (Ground Water.)	154	GCMS	<5.00	ug/L	
Cadmium (Ground Water)	177	ICPMS	0.348	ug/L	UKAS
Carbon tetrachloride (Ground Water.)	154	GCMS	<0.41	ug/L	UKAS
Chloride (Ground Water)	100	Colorimetry	23.06	mg/L	UKAS
Chlorobenzene (Ground Water.)	154	GCMS	<0.49	ug/L	UKAS
Chloroethane (Ground Water)	154	GCMS	<5.00	ug/L	
Chloroform (Ground Water)	154	GCMS	<0.32	ug/L	UKAS
Chloromethane (Ground Water)	154	GCMS	<5.00	ug/L	
Chromium (Ground Water)	177	ICPMS	<2.14	ug/L	UKAS
cis-1,2-Dichloroethene (Ground Wate	154	GCMS	<0.56	ug/L	UKAS
cis-1,3-Dichloropropene (Ground Wat	154	GCMS	<0.69	ug/L	UKAS
Cobalt (Ground Water)	177	ICPMS	0.545	ug/L	UKAS
Conductivity (Ground Water at 20C)	112	Electrometry	501	uscm -1@20C	UKAS
Copper (Ground Water)	177	ICPMS	1.439	ug/L	UKAS
Dibromochloromethane (Ground Wat	154	GCMS	<0.47	ug/L	UKAS
Dibromomethane (Ground Water)	154	GCMS	<0.86	ug/L	UKAS
Dichlorodifluoromethane (Ground Wa	154	GCMS	<5.00	ug/L	
Dichloromethane (Ground Water)	154	GCMS	<5.00	ug/L	
Dissolved Oxygen (mg/l)	715	DO Meter	8.4	mg/L	
Ethylbenzene (Ground Water)	154	GCMS	<0.42	ug/L	UKAS
Hexachlorobutadiene (Ground Water)	154	GCMS	<0.36	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 21/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/027/08
<b>Customer PO</b>		<b>Date of Receipt</b>	12/07/2013
<b>Customer Ref</b>	GW1 (Quarterly & Annual) - 11/07/13	<b>Sampled On</b>	11/07/2013
<b>Ref 2</b>	Rilta (Cedar Site) 14 - A1 Ref: 5965	<b>Date Testing Commenced</b>	12/07/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	21/08/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Isopropylbenzene (Ground Water)	154	GCMS	<0.42	ug/L	UKAS
Lead (Ground Water)	177	ICPMS	0.296	ug/L	UKAS
m- + p-Xylene (Ground Water)	154	GCMS	<0.49	ug/L	UKAS
Manganese (Ground Water)	177	ICPMS	319.1	ug/L	UKAS
Mercury (Ground water)	178	ICPMS	<0.04	ug/L	UKAS
Naphthalene (Ground Water)	154	GCMS	<0.43	ug/L	UKAS
n-Butylbenzene (Ground Water)	154	GCMS	<0.35	ug/L	UKAS
Nickel (Ground Water)	177	ICPMS	22.22	ug/L	UKAS
n-Propylbenzene (Ground Water)	154	GCMS	<0.39	ug/L	UKAS
o-Xylene (Ground Water)	154	GCMS	<0.33	ug/L	UKAS
Pesticides (Organochlorine)	156	GCMS	<0.1	ug/L	
Pesticides (Organophosphorous)	159	GCMS	<0.1	ug/L	
pH (Ground Water)	110	Electrometry	7.4	pH Units	UKAS
p-Isopropyltoluene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
sec-Butylbenzene (Ground Water)	154	GCMS	<0.48	ug/L	UKAS
SemiVolatile Organic Compounds	155	GCMS	<0.5	ug/L	
Styrene (Ground Water)	154	GCMS	<0.26	ug/L	UKAS
Sulphate (Ground Water)	119	Colorimetry	68.54	mg/L	UKAS
tert-Butylbenzene (Ground Water)	154	GCMS	<0.59	ug/L	UKAS
Tetrachloroethene (Ground Water)	154	GCMS	<0.33	ug/L	UKAS
Tin	177	ICPMS	<2.8	ug/L	
Titanium	227	ICPMS	<5	ug/L	
Toluene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	3.75	mg/L	
Total Xylene (Ground Water)	154	GCMS	<0.49	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 21/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/027/08
<b>Customer PO</b>		<b>Date of Receipt</b>	12/07/2013
<b>Customer Ref</b>	GW1 (Quarterly & Annual) - 11/07/13	<b>Sampled On</b>	11/07/2013
<b>Ref 2</b>	Rilta (Cedar Site) 14 - A1 Ref: 5965	<b>Date Testing Commenced</b>	12/07/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	21/08/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
trans-1,2-Dichloroethene (Ground W	154	GCMS	<0.34	ug/L	UKAS
trans-1,3-Dichloropropene (Ground	154	GCMS	<1.19	ug/L	UKAS
Trichloroethene (Ground Water)	154	GCMS	<0.23	ug/L	UKAS
Trichlorofluoromethane (Ground Wat	154	GCMS	<0.52	ug/L	UKAS
Vinyl chloride (Ground Water)	154	GCMS	<0.50	ug/L	UKAS
Volatile Organic Compounds	154	GCMS	<1	ug/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 21/08/2013**

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<b>Customer</b>	<b>Jessica Quinn</b>	<b>Lab Report Ref. No.</b>	<b>1102/027/09</b>
	<b>Tobin Consulting Engineers TES</b>	<b>Date of Receipt</b>	<b>12/07/2013</b>
	<b>Block 10-4</b>	<b>Sampled On</b>	<b>11/07/2013</b>
	<b>Blanchardstown Corp PK</b>	<b>Date Testing Commenced</b>	<b>12/07/2013</b>
	<b>Dublin 15</b>	<b>Received or Collected</b>	<b>Courier: DPD</b>
	<b>Dublin</b>	<b>Condition on Receipt</b>	<b>Acceptable</b>
<b>Customer PO</b>		<b>Date of Report</b>	<b>31/07/2013</b>
<b>Customer Ref</b>	<b>GW2 (Quarterly &amp; Annual) - 11/07/13</b>	<b>Sample Type</b>	<b>Groundwater</b>
<b>Ref 2</b>	<b>Rilta (Cedar Site) 14 - A1 Ref: 5965</b>		

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
1,1,1,2-Tetrachloroethane (Ground	154	GCMS	<0.46	ug/L	UKAS
1,1,1-Trichloroethane (Ground Water	154	GCMS	<0.43	ug/L	UKAS
1,1,2,2-Tetrachloroethane (Ground	154	GCMS	<5.00	ug/L	
1,1,2-Trichloroethane (Ground Water	154	GCMS	<1.67	ug/L	UKAS
1,1-Dichloroethane (Ground Water)	154	GCMS	<0.42	ug/L	UKAS
1,1-Dichloroethene (Ground Water)	154	GCMS	<0.41	ug/L	UKAS
1,1-Dichloropropene (Ground Water)	154	GCMS	<0.39	ug/L	UKAS
1,2,3-Trichlorobenzene (Ground Wat	154	GCMS	<0.34	ug/L	UKAS
1,2,3-Trichloropropane (Ground Wate	154	GCMS	<0.61	ug/L	UKAS
1,2,4-Trichlorobenzene (Ground Wat	154	GCMS	<0.51	ug/L	UKAS
1,2,4-Trimethylbenzene (Ground Wat	154	GCMS	<0.52	ug/L	UKAS
1,2-Dibromo-3-chloropropane (Groun	154	GCMS	<0.63	ug/L	UKAS
1,2-Dibromoethane (Ground Water)	154	GCMS	<0.63	ug/L	UKAS
1,2-Dichlorobenzene (Ground Water)	154	GCMS	<0.51	ug/L	UKAS
1,2-Dichloroethane (Ground Water)	154	GCMS	<0.45	ug/L	UKAS
1,2-Dichloropropane (Ground Water)	154	GCMS	<0.75	ug/L	UKAS
1,3,5-Trimethylbenzene (Ground Wat	154	GCMS	<0.33	ug/L	UKAS
1,3-Dichlorobenzene (Ground Water)	154	GCMS	<0.47	ug/L	UKAS
1,3-Dichloropropane (Ground Water)	154	GCMS	<0.64	ug/L	UKAS
1,4-Dichlorobenzene (Ground Water)	154	GCMS	<1.21	ug/L	UKAS
2,2-Dichloropropane (Ground Water)	154	GCMS	<5.00	ug/L	
2-Chlorotoluene (Ground Water)	154	GCMS	<0.55	ug/L	UKAS
4-Chlorotoluene (Ground Water)	154	GCMS	<0.43	ug/L	UKAS
Benzene (Ground Water)	154	GCMS	<0.35	ug/L	UKAS
Boron (Ground Water)	177	ICPMS	20.37	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/07/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

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<b>Customer</b>	<b>Jessica Quinn</b> <b>Tobin Consulting Engineers TES</b> <b>Block 10-4</b> <b>Blanchardstown Corp PK</b> <b>Dublin 15</b> <b>Dublin</b>	<b>Lab Report Ref. No.</b>	<b>1102/027/09</b>
<b>Customer PO</b>		<b>Date of Receipt</b>	<b>12/07/2013</b>
<b>Customer Ref</b>	<b>GW2 (Quarterly &amp; Annual) - 11/07/13</b>	<b>Sampled On</b>	<b>11/07/2013</b>
<b>Ref 2</b>	<b>Rilta (Cedar Site) 14 - A1 Ref: 5965</b>	<b>Date Testing Commenced</b>	<b>12/07/2013</b>
		<b>Received or Collected</b>	<b>Courier: DPD</b>
		<b>Condition on Receipt</b>	<b>Acceptable</b>
		<b>Date of Report</b>	<b>31/07/2013</b>
		<b>Sample Type</b>	<b>Groundwater</b>

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Bromobenzene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
Bromochloromethane (Ground Water)	154	GCMS	<0.76	ug/L	UKAS
Bromodichloromethane (Ground Wat	154	GCMS	<0.63	ug/L	UKAS
Bromoform (Ground Water)	154	GCMS	<1.31	ug/L	UKAS
Bromomethane (Ground Water.)	154	GCMS	<5.00	ug/L	
Cadmium (Ground Water)	177	ICPMS	0.254	ug/L	UKAS
Calcium (Ground Water)	184	ICPMS	128.70	mg/L	UKAS
Carbon tetrachloride (Ground Water.)	154	GCMS	<0.41	ug/L	UKAS
Chlorobenzene (Ground Water.)	154	GCMS	<0.49	ug/L	UKAS
Chloroethane (Ground Water)	154	GCMS	<5.00	ug/L	
Chloroform (Ground Water)	154	GCMS	<0.32	ug/L	UKAS
Chloromethane (Ground Water)	154	GCMS	<5.00	ug/L	
Chromium (Ground Water)	177	ICPMS	<2.14	ug/L	UKAS
cis-1,2-Dichloroethene (Ground Wate	154	GCMS	<0.56	ug/L	UKAS
cis-1,3-Dichloropropene (Ground Wat	154	GCMS	<0.69	ug/L	UKAS
**Conductivity (Ground Water at 20C)	112	Electrometry	613	uscmm -1@20C	
Copper (Ground Water)	177	ICPMS	1.194	ug/L	UKAS
Dibromochloromethane (Ground Wat	154	GCMS	<0.47	ug/L	UKAS
Dibromomethane (Ground Water)	154	GCMS	<0.86	ug/L	UKAS
Dichlorodifluoromethane (Ground Wa	154	GCMS	<5.00	ug/L	
Dichloromethane (Ground Water)	154	GCMS	<5.00	ug/L	
Ethylbenzene (Ground Water)	154	GCMS	<0.42	ug/L	UKAS
Hexachlorobutadiene (Ground Water)	154	GCMS	<0.36	ug/L	UKAS
Iron (Ground Water)	177	ICPMS	10.3	ug/L	UKAS
Isopropylbenzene (Ground Water)	154	GCMS	<0.42	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/07/2013**

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/027/09
<b>Customer PO</b>		<b>Date of Receipt</b>	12/07/2013
<b>Customer Ref</b>	GW2 (Quarterly & Annual) - 11/07/13	<b>Sampled On</b>	11/07/2013
<b>Ref 2</b>	Rilta (Cedar Site) 14 - A1 Ref: 5965	<b>Date Testing Commenced</b>	12/07/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/07/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Lead (Ground Water)	177	ICPMS	<0.02	ug/L	UKAS
m- + p-Xylene (Ground Water)	154	GCMS	<0.49	ug/L	UKAS
Magnesium (Ground Water)	184	ICPMS	9.701	mg/L	UKAS
Manganese (Ground Water)	177	ICPMS	143	ug/L	UKAS
Naphthalene (Ground Water)	154	GCMS	<0.43	ug/L	UKAS
n-Butylbenzene (Ground Water)	154	GCMS	<0.35	ug/L	UKAS
Nickel (Ground Water)	177	ICPMS	3.258	ug/L	UKAS
n-Propylbenzene (Ground Water)	154	GCMS	<0.39	ug/L	UKAS
o-Xylene (Ground Water)	154	GCMS	<0.33	ug/L	UKAS
**pH (Ground Water)	110	Electrometry	7.2	pH Units	
p-Isopropyltoluene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
Potassium (Ground Water)	184	ICPMS	2.085	mg/L	UKAS
sec-Butylbenzene (Ground Water)	154	GCMS	<0.48	ug/L	UKAS
Sodium (Ground water)	184	ICPMS	19.85	mg/L	UKAS
Styrene (Ground Water)	154	GCMS	<0.26	ug/L	UKAS
tert-Butylbenzene (Ground Water)	154	GCMS	<0.59	ug/L	UKAS
Tetrachloroethene (Ground Water)	154	GCMS	<0.33	ug/L	UKAS
Toluene (Ground Water)	154	GCMS	<0.40	ug/L	UKAS
Total Xylene (Ground Water)	154	GCMS	<0.49	ug/L	UKAS
trans-1,2-Dichloroethene (Ground W	154	GCMS	<0.34	ug/L	UKAS
trans-1,3-Dichloropropene (Ground	154	GCMS	<1.19	ug/L	UKAS
Trichloroethene (Ground Water)	154	GCMS	<0.23	ug/L	UKAS
Trichlorofluoromethane (Ground Wat	154	GCMS	<0.52	ug/L	UKAS
Vinyl chloride (Ground Water)	154	GCMS	<0.50	ug/L	UKAS
Volatile Organic Compounds	154	GCMS	<1	ug/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/07/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/027/09
<b>Customer PO</b>		<b>Date of Receipt</b>	12/07/2013
<b>Customer Ref</b>	GW2 (Quarterly & Annual) - 11/07/13	<b>Sampled On</b>	11/07/2013
<b>Ref 2</b>	Rilta (Cedar Site) 14 - A1 Ref: 5965	<b>Date Testing Commenced</b>	12/07/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/07/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Zinc (Ground Water)	177	ICPMS	3.32	ug/L	UKAS

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/07/2013**

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer</b>	<b>Jessica Quinn</b>	<b>Lab Report Ref. No.</b>	<b>1102/028/02</b>
	<b>Tobin Consulting Engineers TES</b>	<b>Date of Receipt</b>	<b>09/08/2013</b>
	<b>Block 10-4</b>	<b>Sampled On</b>	<b>08/08/2013</b>
	<b>Blanchardstown Corp PK</b>	<b>Date Testing Commenced</b>	<b>09/08/2013</b>
	<b>Dublin 15</b>	<b>Received or Collected</b>	<b>Courier: DPD</b>
	<b>Dublin</b>	<b>Condition on Receipt</b>	<b>Acceptable</b>
<b>Customer PO</b>		<b>Date of Report</b>	<b>20/08/2013</b>
<b>Customer Ref</b>	<b>GW2 - 08/08/13</b>	<b>Sample Type</b>	<b>Groundwater</b>
<b>Ref 2</b>	<b>Rilta (Cedar Site) 14 - A1</b>	<b>Ref: 5965</b>	

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Arsenic (Ground Water)	177	ICPMS	23.78	ug/L	UKAS
Cadmium (Ground Water)	177	ICPMS	2.59	ug/L	UKAS
Chloride (Ground Water)	100	Colorimetry	28.37	mg/L	UKAS
Chromium (Ground Water)	177	ICPMS	8.695	ug/L	UKAS
Cobalt (Ground Water)	177	ICPMS	2.339	ug/L	UKAS
Copper (Ground Water)	177	ICPMS	25.82	ug/L	UKAS
Lead (Ground Water)	177	ICPMS	11.42	ug/L	UKAS
Manganese (Ground Water)	177	ICPMS	2173	ug/L	UKAS
Mercury (Ground water)	178	ICPMS	<0.04	ug/L	UKAS
Nickel (Ground Water)	177	ICPMS	17.76	ug/L	UKAS
Pesticides (Organochlorine)	156	GCMS	<0.1	ug/L	
Pesticides (Organophosphorous)	159	GCMS	<0.1	ug/L	
SemiVolatile Organic Compounds	155	GCMS	<0.5	ug/L	
Sulphate (Ground Water)	119	Colorimetry	105.62	mg/L	UKAS
Tin	177	ICPMS	<2.8	ug/L	
Titanium	227	ICPMS	<5	ug/L	
Total Organic Carbon	316	TOC analyser (NPOC)	3.19	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 20/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/030/08
<b>Customer PO</b>		<b>Date of Receipt</b>	30/10/2013
<b>Customer Ref</b>	GW1 - 29/10/13	<b>Sampled On</b>	29/10/2013
<b>Ref 2</b>	Rilta Cedar Ref :5965	<b>Date Testing Commenced</b>	30/10/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	07/11/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	11.26	mg/L	UKAS
Conductivity (Ground Water at 20C)	112	Electrometry	331	uscm -1@20C	UKAS
Dissolved Oxygen (mg/l)	715	DO Meter	2.2	mg/L	
pH (Ground Water)	110	Electrometry	7.4	pH Units	UKAS
Sulphate (Ground Water)	119	Colorimetry	35.45	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	1.94	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 07/11/2013**

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/030/09
<b>Customer PO</b>		<b>Date of Receipt</b>	30/10/2013
<b>Customer Ref</b>	GW2 - 29/10/13	<b>Sampled On</b>	29/10/2013
<b>Ref 2</b>	Rilta Cedar Ref :5965	<b>Date Testing Commenced</b>	30/10/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	07/11/2013
		<b>Sample Type</b>	Groundwater

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Chloride (Ground Water)	100	Colorimetry	18.72	mg/L	UKAS
Conductivity (Ground Water at 20C)	112	Electrometry	624	uscm -1@20C	UKAS
Dissolved Oxygen (mg/l)	715	DO Meter	1.8	mg/L	
pH (Ground Water)	110	Electrometry	7.0	pH Units	UKAS
Sulphate (Ground Water)	119	Colorimetry	84.49	mg/L	UKAS
Total Organic Carbon	316	TOC analyser (NPOC)	2.86	mg/L	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 07/11/2013**

Acc. : Accredited Parameters by ISO 17025:2005

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# APPENDIX C

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## Annual Noise Monitoring Report

# Rilta Environmental Limited - Site 14-A1 Environmental Monitoring Programme

**RILTA**  
*Environmental  
Limited*



## Annual Noise Survey Report

November 2013

TOBIN CONSULTING ENGINEERS



# REPORT

**PROJECT:**

**Rilta Environmental Ltd,  
Site 14-A1**

**CLIENT:**

**Rilta Environmental Ltd.**  
Site No. 14A1,  
Greenogue Business Park,  
Rathcoole,  
County Dublin.

**COMPANY:**

**TOBIN Consulting Engineers**  
Block 10-4,  
Blanchardstown Corporate Park,  
Dublin 15.

[www.tobin.ie](http://www.tobin.ie)

**DOCUMENT AMENDMENT RECORD**

<b>Client:</b>	<b>Rilta Environmental Ltd</b>
<b>Project:</b>	<b>Rilta Site 14-A1</b>
<b>Title:</b>	<b>2013 Annual Noise Survey</b>

PROJECT NUMBER: 5965				DOCUMENT REF: 5965- 01		
Final	2012 - Annual Noise Survey	JQ	07/01/14	ST	DG	09/01/14
<b>Revision</b>	<b>Description &amp; Rationale</b>	<b>Originated</b>	<b>Date</b>	<b>Checked</b>	<b>Authorised</b>	<b>Date</b>
<b>TOBIN Consulting Engineers</b>						



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## APPENDICES

- Appendix A – Noise Monitoring Locations map**
- Appendix B – 1/3 Octave band Frequency Analysis Results**

## 1 INTRODUCTION

Rilta Environmental Ltd. (hereafter referred to as RILTA) retained TOBIN Consulting Engineers (TOBIN) to conduct annual noise monitoring at its Site 14-A1 facility, as per Schedule D of Waste Licence 185-01. Site 14-A1 is located in Greenogue Business Park, Rathcoole, County Dublin. This report includes details of the noise monitoring conducted during the annual survey which was conducted on the 27<sup>th</sup> of November 2013 (daytime and night time).

## 2 ANNUAL NOISE SURVEY

The noise survey was carried out within the site boundary at three no. monitoring locations agreed with the EPA as per drawing 569 –42 –108 (see Appendix A). Weather conditions during monitoring were dry and calm with an occasional slight breeze. The following conditions were adhered to in undertaking the survey:

- Measurement of noise levels was undertaken using Type 1 instrumentation;
- Cognisance was taken of the EPA's 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in relation to Scheduled Activities (NG4); and
- The survey was carried out in accordance with ISO 1996 Acoustics - Description and Measurement of Environmental Noise: Parts 1/2/3.

### 2.1 INSTRUMENTATION

The following instrumentation was used in the environmental noise monitoring survey:

- One Larson Davis 824 Precision Integrating Sound Level Analyser/Data logger with Real-Time Frequency Analyser Facility;
- Wind Shield Type: Larson Davis 2120 Windscreen; and
- Calibration Type: Larson Davis Precision Acoustic Calibrator Model CA200.

### 2.2 MEASUREMENT PROCEDURE

Daytime and night time noise monitoring was carried out on the 27<sup>th</sup> of November 2013. Noise monitoring was undertaken for 30 minute intervals at three no. agreed EPA locations, as per Schedule D of Waste Licence 185-01. All the environmental noise analysers had data logging facilities set on real-time, the logged data was later downloaded via a personal computer using software. One third octave frequency analysis was taken at the locations using the 824 Precision Integrating Sound Level Analyser/Data logger with real-time frequency analyser facility.

The measurement locations were all away from reflecting surfaces and at 1.5m height above local ground.

All acoustic instrumentation was calibrated before and after the survey period and no drift of calibration was observed (calibration level 114dB at 1000Hz).

### 2.3 RESULTS OF NOISE SURVEY

The noise monitoring locations are described in Table 2.1 and illustrated in drawing 569-42-108 (see Appendix A). The results of the noise survey are summarised in Table 2.2 and the 1/3 octave frequency analysis data is given in graphical format in Appendix B.

**Table 2.1 Noise Monitoring Locations**

Monitoring Location	Description
<b>N1</b>	South western boundary of site
<b>N2</b>	North western boundary of site
<b>N3</b>	South eastern boundary of site

#### **Location N1**

Noise monitoring location N1 is located at the site entrance, at the south western site boundary. During daytime monitoring passing traffic was the dominant noise source. Activities onsite were occasionally audible (some banging, radio) along with passing aircraft.

During night time monitoring noise sources included occasional traffic on internal estate roads. A banging noise from a neighbouring facility was audible in background levels. The site was not audible during night time monitoring.

#### **Location N2**

N2 is located in the north western corner of the site. During daytime monitoring passing traffic and overhead aircraft were the dominant noise sources. Activities at adjacent facilities and passing aircraft also audible. Onsite activity was not audible at this location.

During night time monitoring the dominant noise source was traffic on internal estate roads. Distant traffic was audible and a low humming sound was audible from a neighbouring facility. The site was not audible during night time monitoring.

#### **Location N3**

N3 is located at the south-eastern site boundary. During daytime monitoring at N3 the dominant noise source was activities at the site (people talking, radio and machinery (angle grinder and fork truck)). Passing traffic was also audible.

During night time monitoring the dominant noise source was traffic on internal estate roads. The site was not audible during night time monitoring.

**Table 2.2 Noise Monitoring Results – dB(A) and 30 minute intervals**

Daytime					
Receptor	Time	Leq	Updated Leq with any penalties applied	L10	L90
N1	15:50	53.70	<b>58.70</b>	57.61	43.81
N2	15:15	50.30	50.30	54.19	39.40
N3	14:34	<b>55.10</b>	<b>60.10</b>	57.20	42.54
Night time					
Receptor	Time	Leq		L10	L90
N1	1:50	38.7	38.7	33.19	31.12
N2	2:30	38.7	38.7	36.05	31.14
N3	3:00	33.2	33.2	33.32	31.14

### 3 CONCLUSION

The noise emission limits as per Schedule C of Waste Licence 0185 – 01 are 55 dB(A) for daytime and 45 dB(A) for night time. These levels specifically relate to noise emissions arising from the facility, measured at any noise sensitive location.

The noise emissions from RILTA Environmental Ltd. are summarised in Table 2.2 above.

Noise levels recorded at the three no. EPA agreed noise monitoring locations contain noise emissions from adjacent industrial sites, low flying aircraft and traffic on the internal road network of the industrial estate. Noise emissions from the RILTA facility were audible at N1 and N3 during the daytime monitoring but were inaudible during the night time monitoring. Note that the EPA agreed noise monitoring locations are all on site and do not reflect emissions at noise sensitive locations.

The A-weighted equivalent continuous sound pressure level (LAeq, 30 min) recorded at the RILTA facility was above 55 dB(A) at N3 during the daytime monitoring event. The facility was highly audible at N3 during the daytime monitoring event and it is therefore likely that this exceedance was as a result of the facility.

No noise emissions due to the RILTA facility were audible during the night time monitoring period. During the night time monitoring period the A-weighted equivalent continuous sound pressure level (LAeq, 30 min) was below 45 dB(A) (night time) at all monitoring locations.

There were no impulsive noise emissions audible at any of the monitoring locations during the daytime or night time monitoring period.

With regard to tonal emissions, during the day a pure tone was detected at N1 at 16Hz. At N3 two tones were detected at 25Hz and 1.25Hz. No tones were detected at N2.

During the daytime survey, the site was audible at N1 and highly audible at N3 (angle grinder, movement of materials/forklift and radio on). The tones observed at N1 and N3 during the day time survey were likely attributed to by on-site activities as opposed to traffic noise or any neighbouring facilities as these external factors were audible at N2, where the facility was not audible, and no tones were recorded. A 5dB(A) penalty has therefore been added to N1 and N3 resulting in an Leq of **58.7dB(A)** and **60.1dB(A)**, respectively.

During the night time survey, the site was not audible at any location and the Leq ranged between 33.2 (N3) and 38.7 (N1 and N2). It is likely that tonal components at 25Hz observed at N3 during both day and night time surveys were attributed to a neighbouring facility as a low hum was audible in the locality but the site was not audible during the night time survey when the facility was not in operation. No penalty has therefore been applied for the tone observed at N3 at 25Hz during the day or night.

Although no penalty was applied for the tone observed at N3 at 25Hz during the day or night, a 5dB(A) penalty was applied for the tone observed at 1.25Hz at N3 during the daytime. The resulting Leq of **60.1dB(A)** is above the noise emission limit of 55 dB(A) for daytime.

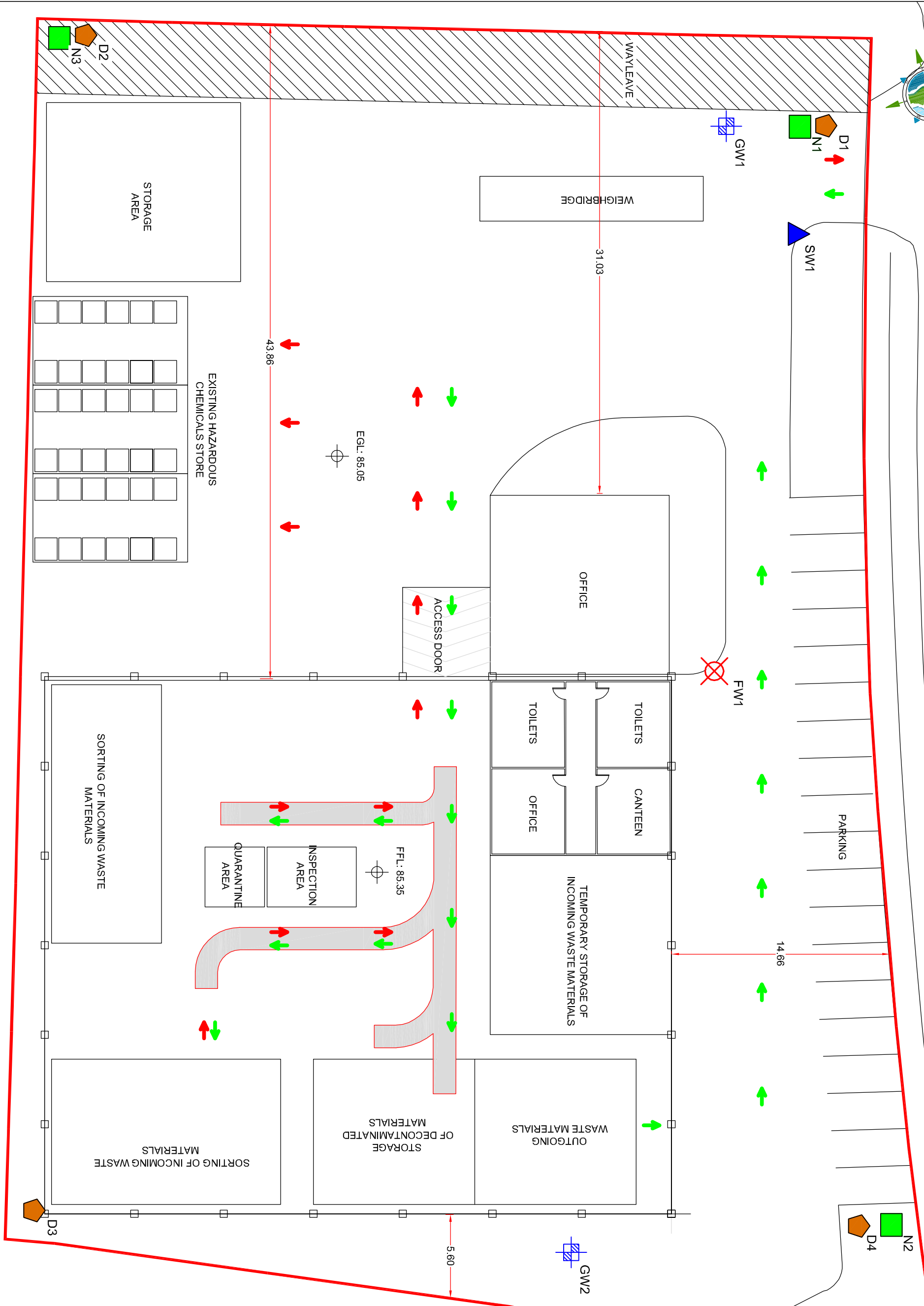
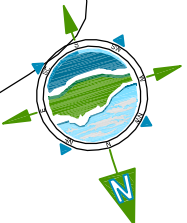
With the penalty applied at N1, the Leq **58.7dB(A)** at this location was also in excess of the limit of 55 dB(A) for daytime noise.

Full 1/3 octave frequency band analysis of all surveys is presented in Appendix B to this report.

# APPENDIX A

---

## Monitoring Location Map



- LEGEND:**
- SURFACE WATER DISCHARGE POINT
  - GROUNDWATER MONITORING WELL
  - NOISE MONITORING POINT
  - FOUL WATER MONITORING POINT
  - DUST MONITORING POINT

Rev	Date	Description	IAN	ST
D01	02.04.11	DRAFT ISSUE FOR REVIEW		

Client:  
 RILTA Environmental Limited

Project:  
 RILTA WASTE FACILITY AT GREENOGUE BUSINESS PARK

Title:  
 ENVIRONMENTAL MONITORING LOCATIONS

Scale @ A1:  
 1:125

Prepared by: M. Nolan  
 Checked: S. Tinnelly  
 Date: April 2011

Project Director: D. Grehan  
 Drawing Status: Draft

**TOBIN**  
 PARK & TOBIN CO. LTD.  
 TOBIN Consulting Engineers,  
 Block 104, Blanchardstown Corporate Park,  
 Dublin 15, Ireland.  
 Tel: +353(0)1 8400000  
 Fax: +353(0)1 8400000  
 e: info@tobin.ie  
 www.tobin.ie

Drawing No.: 5965-1000  
 Revision: D01

# APPENDIX B

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## 1/3 Octave Band Frequency Analysis



Figure 3.1 Daytime Frequency Analysis

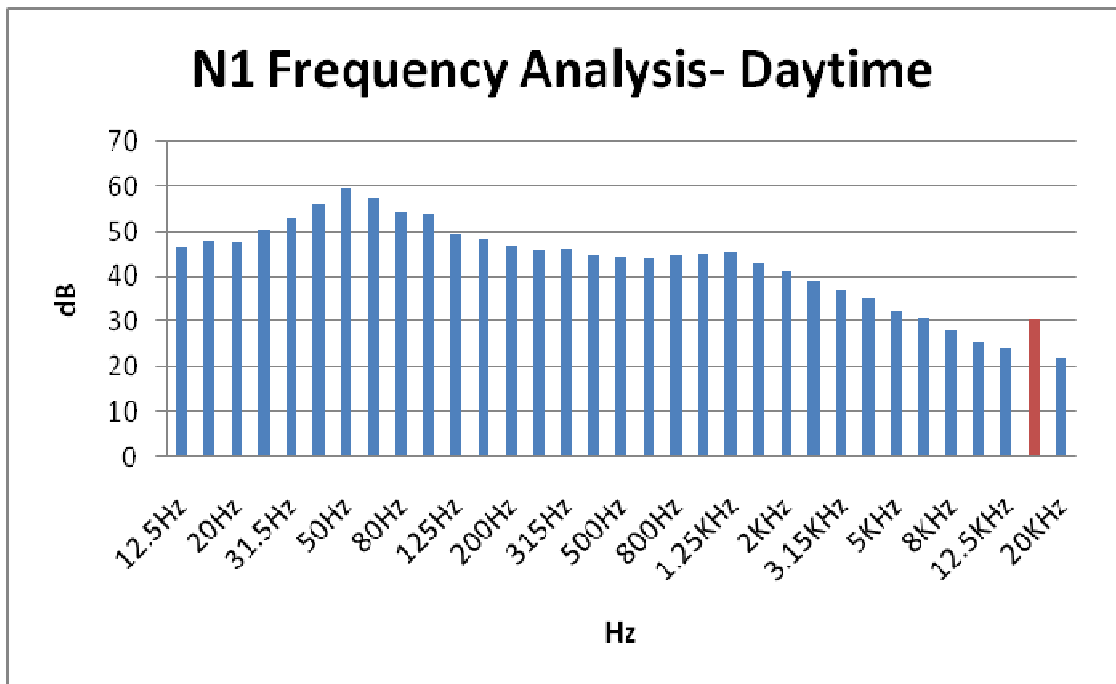


Figure 3.2 N1 Night Time Frequency Analysis

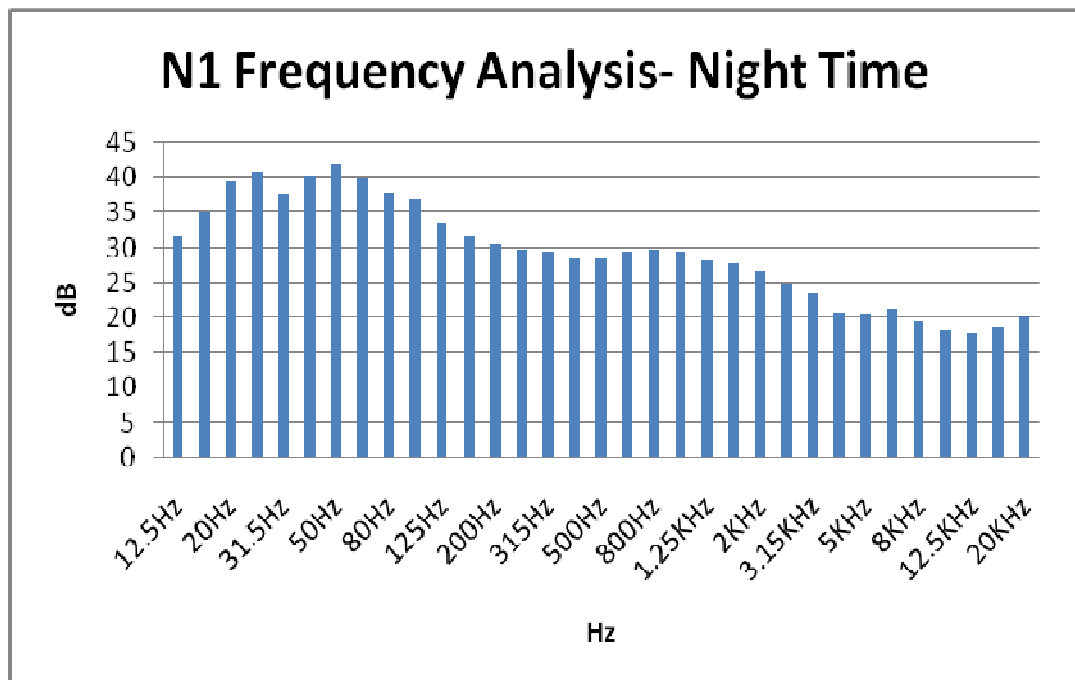


Figure 3.3 N2 Daytime Frequency Analysis

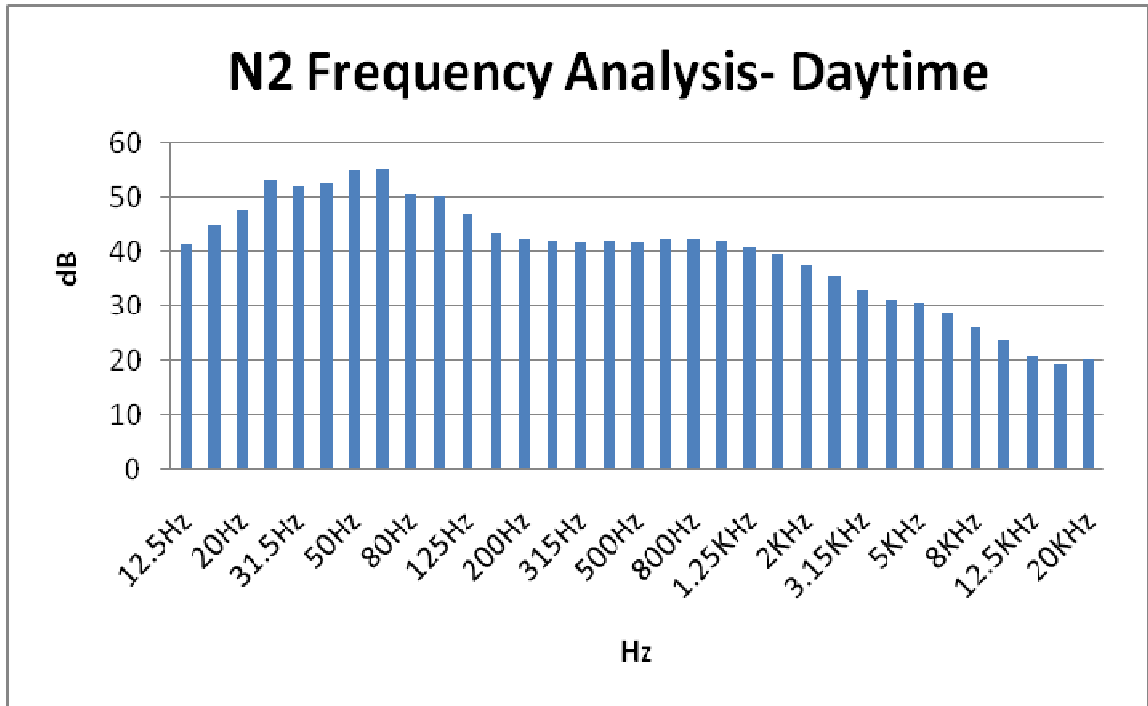


Figure 3.4 N2 Night Time Frequency Analysis

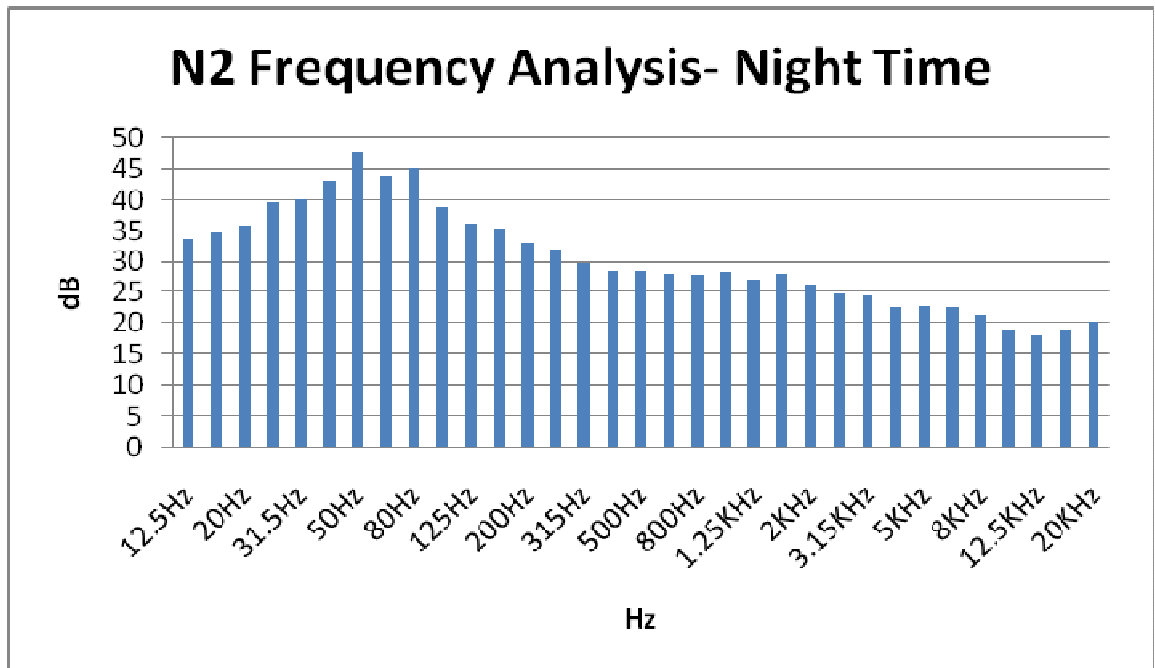


Figure 3.5 N3 Daytime Frequency Analysis

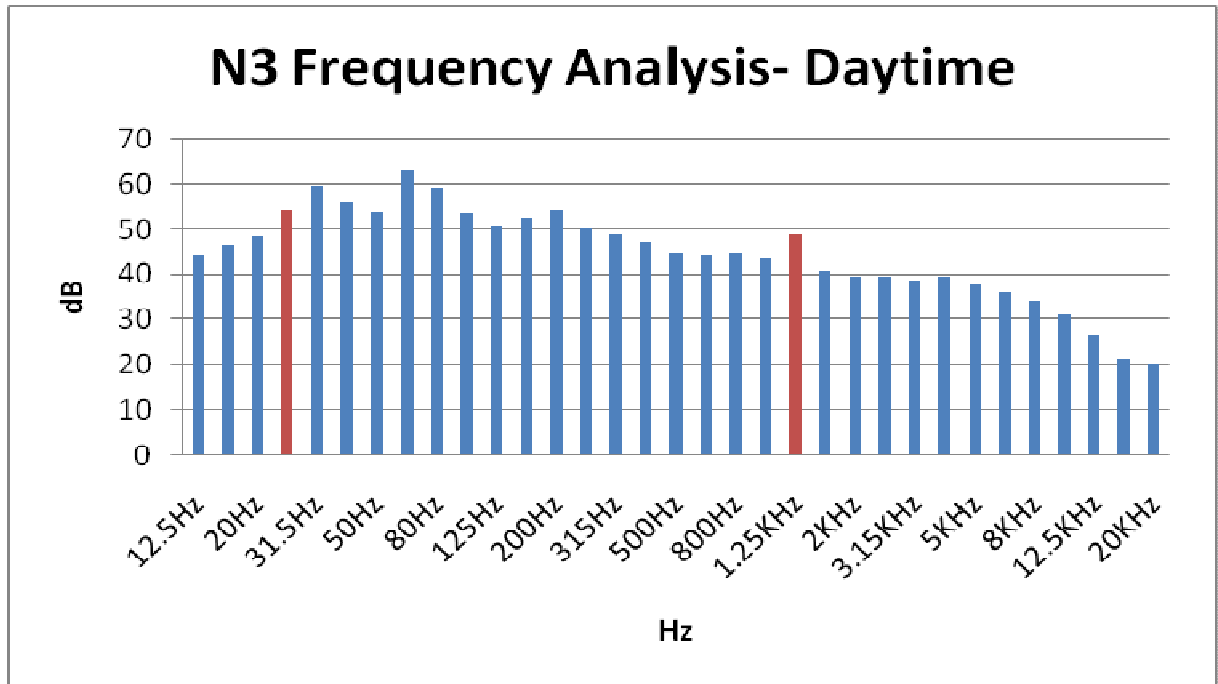
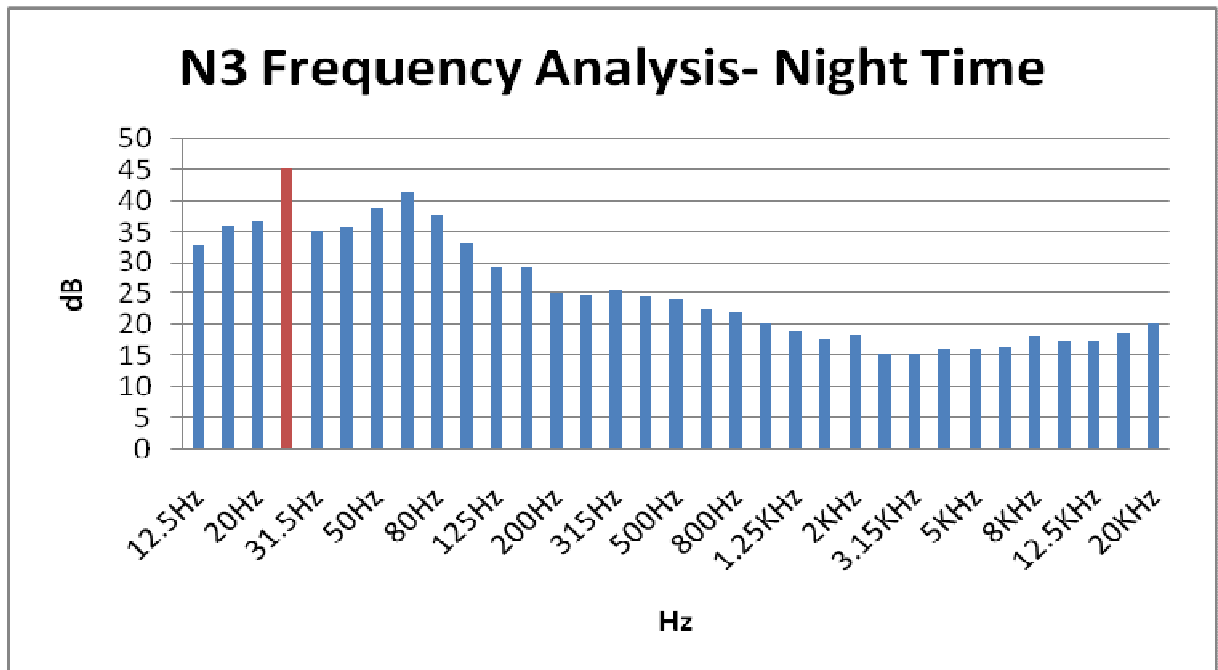


Figure 3.6 N3 Night Time Frequency Analysis



# APPENDIX D

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## Dust Monitoring Results



Monitoring and Testing Services

Unit 35,
Boyne Business Park,
Drogheda,
Co. Louth
Ireland
Tel: +353 41 9845440
Fax: +353 41 9846171
Web: www.fitzsci.ie
email info@fitzsci.ie

A copy of this certificate is available on www.fitzsci.ie

Table with 4 columns: Customer, Lab Report Ref. No., Date of Receipt, Sampled On, Date Testing Commenced, Received or Collected, Condition on Receipt, Date of Report, Sample Type. Includes details for Jessica Quinn and various dates.

CERTIFICATE OF ANALYSIS

Table with 6 columns: Test Parameter, SOP, Analytical Technique, Result, Units, Acc. Row 1: Dust (mg/m2/day), 144, Gravimetry, 162.51, mg/m2/day

Signed : [Signature]
Aoife Harmon - Technical Supervisor

Date : 27/03/2013

Acc. : Accredited Parameters by ISO 17025:2005
PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)
All organic results are analysed as received and all results are corrected for dry weight at 104 C
Results shall not be reproduced, except in full, without the approval of Fitz Scientific
Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.



**Monitoring and Testing Services**

Unit 35,  
Boyne Business Park,  
Drogheda,  
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Tel: +353 41 9845440  
Fax: +353 41 9846171  
Web: www.fitzsci.ie  
email info@fitzsci.ie

A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/021/02
<b>Customer PO</b>		<b>Date of Receipt</b>	23/03/2013
<b>Customer Ref</b>	D2	<b>Sampled On</b>	22/03/2013
<b>Ref 2</b>		<b>Date Testing Commenced</b>	23/03/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	27/03/2013
		<b>Sample Type</b>	Other

**CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust (mg/m2/day)	144	Gravimetry	90.17	mg/m2/day	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 27/03/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

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**Monitoring and Testing Services**

Unit 35,  
Boyne Business Park,  
Drogheda,  
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Tel: +353 41 9845440  
Fax: +353 41 9846171  
Web: www.fitzsci.ie  
email info@fitzsci.ie

A copy of this certificate is available on www.fitzsci.ie

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/021/03
<b>Customer PO</b>		<b>Date of Receipt</b>	23/03/2013
<b>Customer Ref</b>	D3	<b>Sampled On</b>	22/03/2013
<b>Ref 2</b>		<b>Date Testing Commenced</b>	23/03/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	27/03/2013
		<b>Sample Type</b>	Other

**CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust (mg/m2/day)	144	Gravimetry	790.02	mg/m2/day	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 27/03/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

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Monitoring and Testing Services

Unit 35,
Boyne Business Park,
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email info@fitzsci.ie

A copy of this certificate is available on www.fitzsci.ie

Table with 4 columns: Customer, Lab Report Ref. No., Date of Receipt, Sampled On, Date Testing Commenced, Received or Collected, Condition on Receipt, Date of Report, Sample Type. Includes details for Jessica Quinn and sample D4.

CERTIFICATE OF ANALYSIS

Table with 6 columns: Test Parameter, SOP, Analytical Technique, Result, Units, Acc. Row 1: Dust (mg/m2/day), 144, Gravimetry, 70.25, mg/m2/day

Signed : [Signature]
Aoife Harmon - Technical Supervisor

Date : 27/03/2013

Acc. : Accredited Parameters by ISO 17025:2005
PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)
All organic results are analysed as received and all results are corrected for dry weight at 104 C
Results shall not be reproduced, except in full, without the approval of Fitz Scientific
Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.



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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/025/02
<b>Customer PO</b>		<b>Date of Receipt</b>	24/05/2013
<b>Customer Ref</b>	D1 25/04/13 - 23/05/13	<b>Sampled On</b>	23/05/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	24/05/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/05/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0328	g	
Dust (mg/m2/day)	144	Gravimetry	171.95	mg/m2/day	
Inorganic Dust	0	Calculation	0.021	g	
Organic Dust	311	Ashing @ 500°C	0.0127	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/05/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/025/03
<b>Customer PO</b>		<b>Date of Receipt</b>	24/05/2013
<b>Customer Ref</b>	D2 25/04/13 - 23/05/13	<b>Sampled On</b>	23/05/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	24/05/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/05/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0365	g	
Dust (mg/m <sup>2</sup> /day)	144	Gravimetry	191.34	mg/m <sup>2</sup> /day	
Inorganic Dust	0	Calculation	0.0146	g	
Organic Dust	311	Ashing @ 500°C	0.0219	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/05/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

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Results contained in this report relate only to the samples tested

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/025/04
<b>Customer PO</b>		<b>Date of Receipt</b>	24/05/2013
<b>Customer Ref</b>	D3 25/04/13 - 23/05/13	<b>Sampled On</b>	23/05/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	24/05/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/05/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0253	g	
Dust (mg/m <sup>2</sup> /day)	144	Gravimetry	132.63	mg/m <sup>2</sup> /day	
Inorganic Dust	0	Calculation	0.0081	g	
Organic Dust	311	Ashing @ 500°C	0.0172	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/05/2013**

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PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/025/05
<b>Customer PO</b>		<b>Date of Receipt</b>	24/05/2013
<b>Customer Ref</b>	D4 25/04/13 - 23/05/13	<b>Sampled On</b>	23/05/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	24/05/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	31/05/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0179	g	
Dust (mg/m <sup>2</sup> /day)	144	Gravimetry	93.84	mg/m <sup>2</sup> /day	
Inorganic Dust	0	Calculation	0.0066	g	
Organic Dust	311	Ashing @ 500°C	0.0113	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 31/05/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

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Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/028/07
<b>Customer PO</b>		<b>Date of Receipt</b>	09/08/2013
<b>Customer Ref</b>	D1 - 08/08/13	<b>Sampled On</b>	08/08/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	09/08/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	26/08/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0177	g	
Dust (mg/m <sup>2</sup> /day)	144	Gravimetry	92.79	mg/m <sup>2</sup> /day	
Inorganic Dust	0	Calculation	0.0115	g	
Organic Dust	311	Ashing @ 500°C	0.0062	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 26/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.

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<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/028/08
<b>Customer PO</b>		<b>Date of Receipt</b>	09/08/2013
<b>Customer Ref</b>	D2 - 08/08/13	<b>Sampled On</b>	08/08/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	09/08/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	26/08/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0207	g	
Dust (mg/m2/day)	144	Gravimetry	108.52	mg/m2/day	
Inorganic Dust	0	Calculation	0.0117	g	
Organic Dust	311	Ashing @ 500°C	0.009	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 26/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

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Results contained in this report relate only to the samples tested

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A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/028/09
<b>Customer PO</b>		<b>Date of Receipt</b>	09/08/2013
<b>Customer Ref</b>	D3 - 08/08/13	<b>Sampled On</b>	08/08/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	09/08/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	26/08/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.3753	g	
Dust (mg/m <sup>2</sup> /day)	144	Gravimetry	1967.45	mg/m <sup>2</sup> /day	
Inorganic Dust	0	Calculation	0.0927	g	
Organic Dust	311	Ashing @ 500°C	0.2826	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 26/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.

A copy of this certificate is available on [www.fitzsci.ie](http://www.fitzsci.ie)

<b>Customer</b>	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	<b>Lab Report Ref. No.</b>	1102/028/10
<b>Customer PO</b>		<b>Date of Receipt</b>	09/08/2013
<b>Customer Ref</b>	D4 - 08/08/13	<b>Sampled On</b>	08/08/2013
<b>Ref 2</b>	Rilta Cedar Site 14 -A1 Ref. 5965	<b>Date Testing Commenced</b>	09/08/2013
		<b>Received or Collected</b>	Courier: DPD
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	26/08/2013
		<b>Sample Type</b>	Other

## **CERTIFICATE OF ANALYSIS**

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0253	g	
Dust (mg/m2/day)	144	Gravimetry	132.63	mg/m2/day	
Inorganic Dust	0	Calculation	0.015	g	
Organic Dust	311	Ashing @ 500°C	0.0103	g	

**Signed :**   
**Aoife Harmon - Technical Supervisor**

**Date : 26/08/2013**

Acc. : Accredited Parameters by ISO 17025:2005

PVL - Parametric Value Limit as per EU Drinking water Regulations (SI 278 2007)

All organic results are analysed as received and all results are corrected for dry weight at 104 C

Results shall not be reproduced, except in full, without the approval of Fitz Scientific

Results contained in this report relate only to the samples tested

\*\*The analytical result for this parameter may not be reflective of the concentration present at the time of sampling. The maximum recommended preservation time for this parameter has been exceeded.



# APPENDIX E

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**Environmental Management Plan (EMP) 2013 & 2014**

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□

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**RILTA**  
Environmental  
Limited



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## ***ENVIRONMENTAL MANAGEMENT PLAN***

In accordance with  
***ISO 14001***

**ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND TARGETS**

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
1	Increase environmental awareness among RILTA staff.	Develop and issue quarterly e-mail environmental bulletin.	Confirm content IT to design email template Input information Distribute	CH ONE51 IT CH CH	June 13 June 13 August 13 August 13	
2	Promote best practice in the processing of waste generated on site.	Ensure all pallets are recovered	Maintain current pallet storage area to maximize capacity. Ensure broken pallets are not thrown in the skip Have clean and broken pallets collected once a month	CM CM CM	May 13 May 13 May 13	

<i>Issue No.</i>	009	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Jan 2013	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
3	Improve site housekeeping.	Empty Drums loading Bay	1 person one Saturday per month to shred washed IBCs currently on loading bay.	AR	May 13	
		Remove all drums from back of drum division	1 person one Saturday per month to crush drums at back of drum division	AR	May 13	
4	Ensure only clean water released to the river	No ELV breaches	Implement thorough cleaning of attenuation tank and repeat on a 3 year basis	CH	June 13	
			Skim storm water interceptor on a monthly basis	CH	Ongoing	
			Replace damaged concrete on a rota basis to ensure no damaged areas by 2015	CH	Dec 14	

<i>Issue No.</i>	009	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Jan 2013	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
5	Reduce use of hazardous raw materials used on site.	Implement the 'treat waste with waste' best practice method on an ongoing basis	Source suitable waste streams for treatment  Laboratory approval for the usage of wastes for treatment	RS  TMc	Ongoing  Ongoing	
6	Optimize the quality of effluent discharged to sewer	Have re-usable water on tap	Investigate possibility of final effluent polish system  Get approval from EPA	EI  CH	Sept 13  Dec 13	

<i>Issue No.</i>	009	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Jan 2013	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
7	To be a good and considerate neighbour.	No complaints	<p>Complete noise monitoring.</p> <p>Monitor adjoining river on a quarterly basis.</p> <p>Implement 'closed door' policy system when unloading liquid waste tankers where possible</p> <p>Cold cutting at the cedar site to take place inside with doors close</p>	<p>CH</p> <p>CH</p> <p>CM/DG</p> <p>DG</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	

<i>Issue No.</i>	009	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Jan 2013	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
8	To Be Energy Efficient	Reduce Water and electricity usage	<p>Complete targeted energy audit at both 402 and 14A1 sites.</p> <p>Assess findings of audit.</p> <p>Implement findings of audit if economically and practically feasible.</p>	<p>CH</p> <p>CH/EI</p> <p>CH/EI</p>	<p>Aug 13</p> <p>July 13</p> <p>Dec 13</p>	

<i>Issue No.</i>	009	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Jan 2013	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

**RILTA ENVIRONMENTAL Ltd.**

**ENVIRONMENTAL MANAGEMENT SYSTEM**



***ENVIRONMENTAL MANAGEMENT PLAN***

In accordance with  
***ISO 14001***



**ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND TARGETS**

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
1	Increase environmental awareness among RILTA staff.	Develop a sustainable monthly tool box talk to take into account all aspects of environmental risk on site.	Develop software to maintain record of tool box talks	CH	June 14	
			Develop topics and content	CH	Sept 14	
			Group suitable staff and begin talks	CH	Oct 14	
2	Optimize waste tracking from cradle to grave	Install suitable waste tracking system for all waste	Agree wish list.	CH/DM	Feb 14	
			Put list out to tender	CH/DM	Mar 14	
			Assess feedback	CH/DM	June 14	
			Chose vendor	CH/DM	Sept 14	
			Install system	CH/DM	Jan 15	
			Snag system	CH/DM	March 15	

<i>Issue No.</i>	010	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Mar 2014	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
3	Ensure quality drainage system	Complete all improvement suggestions in CCTV report	Move trade effluent line to an over-ground position along by treatment building wall  Assess 3 no. pipe 'falls' and replace if possible	CH  CH	July 13  Dec 17	
4	Ensure only clean water released to the river	No ELV breaches	Implement thorough cleaning of attenuation tank and repeat on a 3 year basis  Skim storm water interceptor on a monthly basis  Replace damaged concrete on a rota basis to ensure no damaged areas by 2015	CH  CH  CH	June 13  Ongoing  Dec 14	

<i>Issue No.</i>	010	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Mar 2014	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<b>EMP Ref.</b>	<b>Objective</b>	<b>Target</b>	<b>Environmental Management Programme for the implementation of objectives.</b>	<b>Responsible Person</b>	<b>Completion Date</b>	<b>Completed (Y/N)</b>
5	Reduce use of hazardous raw materials used on site.	Implement the 'treat waste with waste' best practice method on an ongoing basis	Source suitable waste streams for treatment  Laboratory approval for the usage of wastes for treatment	RS  TMc	Ongoing  Ongoing	
6	Optimize the quality of effluent discharged to sewer	Have re-usable water on tap	Investigate possibility of final effluent polish system  Get approval from EPA	EI  CH	Jan 15  June 15	

<i>Issue No.</i>	010	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Mar 2014	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<i>EMP Ref.</i>	<i>Objective</i>	<i>Target</i>	<i>Environmental Management Programme for the implementation of objectives.</i>	<i>Responsible Person</i>	<i>Completion Date</i>	<i>Completed (Y/N)</i>
7	To be a good and considerate neighbour.	No complaints	<p>Complete noise monitoring.</p> <p>Monitor adjoining river on a quarterly basis.</p> <p>Implement 'closed door' policy system when unloading liquid waste tankers where possible</p> <p>Cold cutting at the cedar site to take place inside with doors close</p> <p>Inform neighbours when bulk soil/sludge are being moved off site</p>	<p>CH</p> <p>CH</p> <p>CM/DG</p> <p>DG</p> <p>CH</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	

<i>Issue No.</i>	010	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Mar 2014	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

<i>EMP Ref.</i>	<i>Objective</i>	<i>Target</i>	<i>Environmental Management Programme for the implementation of objectives.</i>	<i>Responsible Person</i>	<i>Completion Date</i>	<i>Completed (Y/N)</i>
8	To Be Energy Efficient	Reduce Water and electricity usage	<p>Complete targeted energy audit at both 402 and 14A1 sites.</p> <p>Assess findings of audit.</p> <p>Implement findings of audit if economically and practically feasible.</p>	<p>CH</p> <p>CH/EI</p> <p>CH/EI</p>	<p>Aug 14</p> <p>July 14</p> <p>Dec 14</p>	

<i>Issue No.</i>	010	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Mar 2014	<i>Reviewed by: Name/Position</i>	Eftim Ivanoff Operations Director

# APPENDIX F

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## Pollutant Release and Transfer Register (PRTTR)

Guidance to completing the PRTR workbook

# AER Returns Workbook

Version 1.1.1B

<b>REFERENCE YEAR</b>	2013
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Rilta Environmental Limited
Facility Name	Rilta Environmental
PRTR Identification Number	W0185
Licence Number	W0185-01

### Waste or IPPC Classes of Activity

No.	class_name
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.
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.
3.7	#####
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Block 402, Grant Drive
Address 2	Greenogue Business Park
Address 3	Rathcoole
Address 4	County Dublin
	Dublin
Country	Ireland
Coordinates of Location	-6.47708 53.2999
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
<b>AER Returns Contact Name</b>	Colm Hussey
<b>AER Returns Contact Email Address</b>	colm.hussey@rilta.ie
<b>AER Returns Contact Position</b>	Site Manager
<b>AER Returns Contact Telephone Number</b>	01 401 8000
<b>AER Returns Contact Mobile Phone Number</b>	087 9176264
<b>AER Returns Contact Fax Number</b>	01 401 8080
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	71
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 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?	
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. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities)?	
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This question is only applicable if you are an IPPC or Quarry site

**5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE**  
Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Hazardous Waste Licence/Permit No of Next Destination Facility Non-Hazardous Waste Licence/Permit No of Recover/Disposer	Hazardous Waste Destination Facility Non-Hazardous Waste 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 03 07	Yes	176.0	mineral-based non-chlorinated insulating and heat transmission oils	R9	M	Weighed	Offsite in Ireland	Rita Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole Co. Dublin, Ireland	
To Other Countries	16 02 11	Yes	864.6	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	Tech Rec NI, Dungannon, Co. Tyrone, Ireland	Tech Rec NI, Dungannon, Co. Tyrone, Ireland	Dungannon, Co. Tyrone, Ireland	
Within the Country	16 02 14	No	655.28	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Offsite in Ireland	Hegarty Metals, Permit No. WP 05704	Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland	
Within the Country	16 07 08	Yes	3.5	wastes containing oil	D9	M	Weighed	Offsite in Ireland	Rita Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole Co. Dublin, Ireland	
Within the Country	19 12 02	No	717.86	ferrous metal	R4	M	Weighed	Offsite in Ireland	Hegarty Metals, Permit No. WP 05704	Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland	
Within the Country	19 12 03	No	64.72	non-ferrous metal	R4	M	Weighed	Offsite in Ireland	Hegarty Metals, Permit No. WP 05704	Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland	

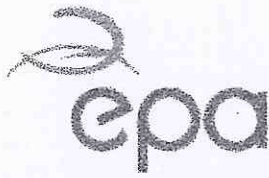
\* Select a row by double-clicking the Description of Waste then click the spread button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)





Environmental Protection Agency

[ PRTR# : W0185 | Facility Name : Rilta Environmental Limited | Filename : W0185\_2012.xls | Return Year : 2012 ]

Guidance to completing the PRTR workbook

# AER Returns Workbook

Version 1.1.13

<b>REFERENCE YEAR</b>	2012
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**1. FACILITY IDENTIFICATION**

Parent Company Name	Rilta Environmental Limited
Facility Name	Rilta Environmental Limited
PRTR Identification Number	W0185
Licence Number	W0185-01

Waste or IPPC Classes of Activity

No.	class name
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.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
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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.
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4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Block 402, Grant Drive
Address 2	Greenogue Business Park
Address 3	Rathcoole
Address 4	County Dublin
Country	Dublin
Country	Ireland
Coordinates of Location	-6.47708 53.2999
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Colm Hussey
AER Returns Contact Email Address	colm.hussey@rilta.ie
AER Returns Contact Position	EHS Manager
AER Returns Contact Telephone Number	014018024
AER Returns Contact Mobile Phone Number	0879176264
AER Returns Contact Fax Number	014018080
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0

Number of Employees	5
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. WASTE IMPORTED/ACCEPTED ONTO SITE**

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
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5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities in this column in tonnes

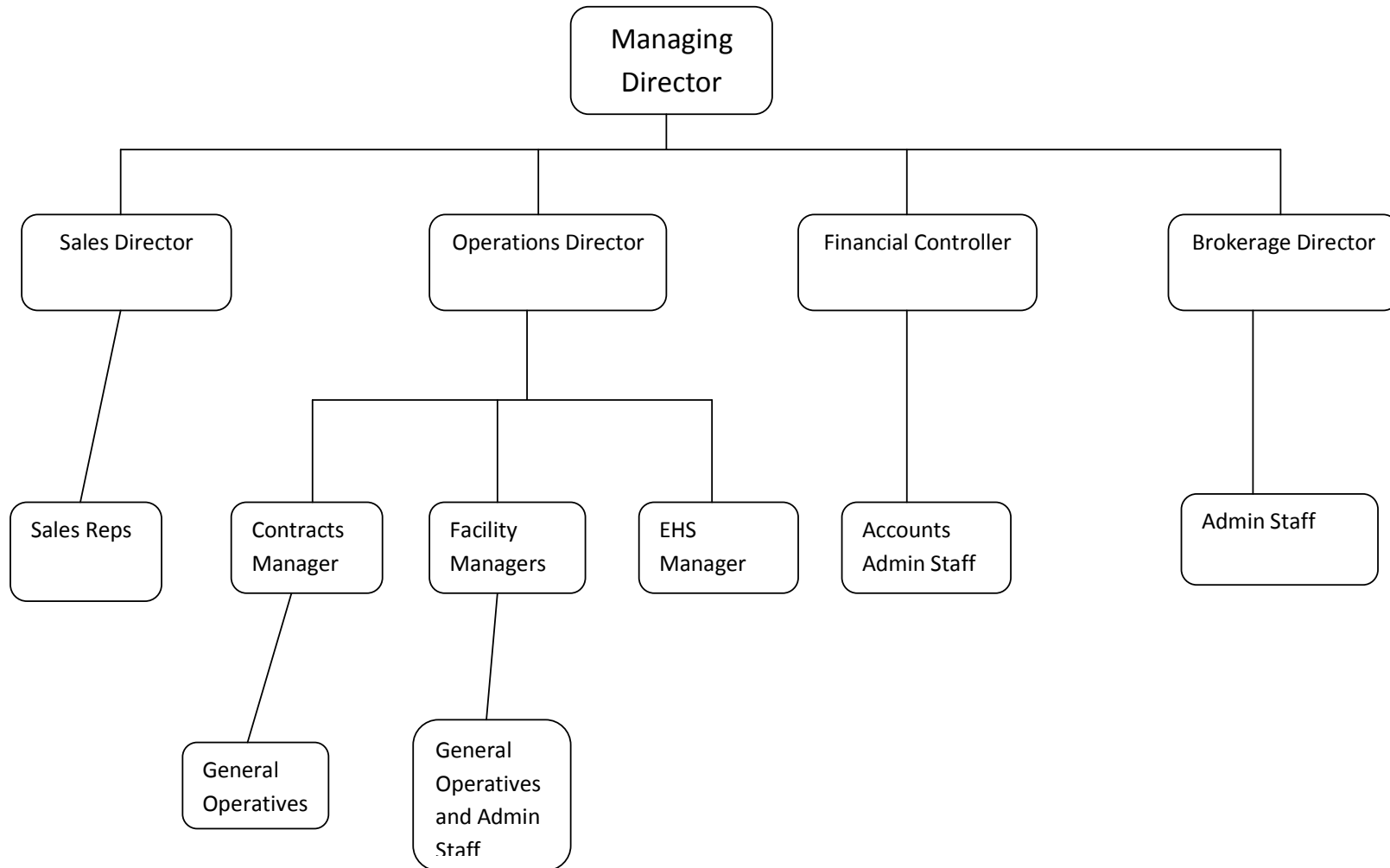
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Site Name, Name and Licence/Permit No of Next Destination Facility	Site Name, Address of Next Destination Facility (Non-Hazardous), Address of Recovery/Disposal	Name and Licence / Permit No. and Address of Final Receiver / Disposer (Hazardous Waste ONLY)	Actual Address of Final Destination (Hazardous Waste ONLY)
						M/C/E	Method Used					
Within the Country	13 03 07	Yes	291.0	mineral-based non-chromated insulating and heat transmission oils	R8	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	Rilla Environmental Ltd, w0192-3, 402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland
Within the Country	16 02 11	Yes	773.4	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighted	Offsite in Ireland	Tech Rec NI, Hegarty Metals, Permit No. WP 05/04	Dungannon, Co. Tyrone, Ireland	Tech Rec NI, Dungannon, Co. Tyrone, Ireland	Dungannon, Co. Tyrone, Ireland
Within the Country	19 12 02	No	1253.9	ferrous metal	R4	M	Weighted	Offsite in Ireland	Hegarty Metals, Permit No. WP 05/04	Dock Road, Limerick, Ireland	Hegarty Metals, Permit No. WP 05/04, Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland
Within the Country	19 12 03	No	121.1	non-ferrous metal discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighted	Offsite in Ireland	Hegarty Metals, Permit No. WP 05/04	Dock Road, Limerick, Ireland	Hegarty Metals, Permit No. WP 05/04, Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland
Within the Country	16 02 14	No	313.9	mentioned in 16 02 09 to 16 02 13	R4	M	Weighted	Offsite in Ireland	Hegarty Metals, Permit No. WP 05/04	Dock Road, Limerick, Ireland	Hegarty Metals, Permit No. WP 05/04, Dock Road, Limerick, Ireland	Dock Road, Limerick, Ireland
Within the Country	13 05 07	Yes	3.2	oily water from oil/water separators	D9	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	Rilla Environmental Ltd, w0192-3, 402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland
Within the Country	16 07 08	Yes	16.4	wastes containing oil	D9	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	Rilla Environmental Ltd, w0192-3, 402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland
Within the Country	20 03 69	No	11.5	municipal wastes not otherwise specified	D9	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	Rilla Environmental Ltd, w0192-3, 402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland
Within the Country	13 03 01	Yes	1.0	insulating or heat transmission oils containing PCBs	D15	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	SITA Decommination, D/PMVC/0 1F28/33629 Westvaardijk 97, Grimberge n, 1850, Netherlands	SITA Decommination, D/PMVC/0 1F28/33629 Westvaardijk 97, Grimberge n, 1850, Netherlands
Within the Country	16 02 09	Yes	2.8	transformers and capacitors containing PCBs	D15	M	Weighted	Offsite in Ireland	Rilla Environmental Ltd, w0192-3	402 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	SITA Decommination, D/PMVC/0 1F28/33629 Westvaardijk 97, Grimberge n, 1850, Netherlands	SITA Decommination, D/PMVC/0 1F28/33629 Westvaardijk 97, Grimberge n, 1850, Netherlands

# APPENDIX G

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## Staffing Structure

# Rilta Environmental Management Structure





**TOBIN**  
Patrick J. Tobin & Co. Ltd.

## INTERNATIONAL NETWORK

Galway  
Fairgreen House,  
Fairgreen Road,  
Galway.  
Ph +353 (0)91 565211  
Fax +353 (0)91 565398  
E-mail galway@tobin.ie

Dublin  
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Blanchardstown Corporate  
Park,  
Dublin 15.  
Ph +353 (0)1 803 0406  
Fax +353 (0)1 803 0409  
E-mail dublin@tobin.ie

Castlebar  
Market Square,  
Castlebar,  
Co. Mayo.  
Ph +353 (0)94 902 1401  
Fax +353 (0)94 902 1534  
E-mail castlebar@tobin.ie

Krakow (Poland)  
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31-553,  
Krakow,  
Poland.  
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Fax +48123537329  
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visit us @ [www.tobin.ie](http://www.tobin.ie)