Rilta Environmental Ltd.



Annual Environmental Report (AER), Site 402, Greenogue Business Park.

January 1st – December 31st 2013

March 2014

TOBIN CONSULTING ENGINEERS





REPORT:

Annual Environmental Report

PROJECT:

Rilta Environmental Ltd. Site 402 – Environmental Monitoring

CLIENT:

Rilta Environmental Ltd, Block 402, Greenogue Business Park, Rathcoole, County Dublin

COMPANY:

TOBIN Consulting Engineers Block 10-4

Blanchardstown Corporate Park Dublin 15

www.tobin.ie

DOCUMENT AMENDMENT RECORD

 Client:
 Rilta Environmental Ltd.

 Project:
 Greenogue Monitoring

 Title:
 Annual Environmental Report Rilta Environmental Ltd.

PROJECT NUMBER: 3084			DOCUMENT REF:				
FINAL	Annual Environmental Report	JQ	27/03/14	JAH	31/03/14	DG	31/03/14
Revision	Description & Rationale	Originated	Date	Checked	Date	Authorised	Date
	TOBIN Consulting Engineers						



Table of Contents

1	IN	ITRODUCTION4
	1.1	WASTE ACTIVITIES AND RECORDS
2	E	MISSIONS FROM THE FACILITY
	2.1	GROUNDWATER EMISSIONS
	2.	1.1 Groundwater Monitoring at Borehole 1 (BH1)7
	2.	1.2 Groundwater Monitoring at Borehole 2 (BH2)7
	2.	1.3 Groundwater Monitoring at Borehole 3 (BH3)8
	2.2	SURFACE WATER EMISSIONS
	2.	2.1 Surface Water Monitoring9
2	2.3	WASTEWATER EMISSIONS14
	2.	3.1 Wastewater Monitoring14
3	A	MBIENT MONITORING
	3.1	DUST
;	3.2	VOC EMISSIONS
4	N	OISE MONITORING
5	R	ESOURCE CONSUMPTION SUMMARY
	_	
6	E	NVIRONMENTAL MANAGEMENT 21
(6.1	SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS21
(6.2	ENVIRONMENTAL MANAGEMENT PROGRAMME
7	Ρ	OLLUTANT RELEASE AND TRANSFER REGISTER (PRTR)
8	T	ANK AND PIPELINE TESTING AND INSPECTION REPORT
9	W	ATER DEMAND AND TRADE EFFLUENT DISCHARGE
10)	EFFICIENCY OF USE OF RAW MATERIALS/ REDUCTION IN WASTE
GI	ENE	ERATED
11		DEVELOPMENT/INFRASTRUCTURAL WORKS
12	1	COMPLAINTS SUMMARY 22
12	I	
13		FINANCIAL PROVISION



	13.1 MANAGEMENT AND STAFFING STRUCTURE	13.
22	13.2 PROGRAMME FOR PUBLIC INFORMATION	13.
	DECOMMISSIONING MANAGEMENT PLAN	14
E AND REMEDIAL ACTIONS	14.1 PREVENTION OF ENVIRONMENTAL DAMAG	14.
22	(ENVIRONMENTAL LIABILITIES)	(EN
MENT (ELRA)22	14.2 ENVIRONMENTAL LIABILITIES RISK ASSESS	14.

List of Tables

Table 1.1 Waste Acceptance Tonnages as per Waste Licence 192–03	5
Table 2.1 Surface Water pH Results - 2013	. 10
Table 2.2 Surface Water COD Results - 2013	. 11
Table 2.3 Surface Water Total Suspended Solids Results - 2013	. 12
Table 2.4 Surface Water Mineral Oil (mg/l) Results - 2013	. 13
Table 2.5 Wastewater Results – 2013	. 15
Table 3.1 Dust Monitoring Results – 2013	. 18
Table 4.1 RILTA Daytime Noise – 2013	. 19
Table 4.2 RILTA Night Time Noise – 2013	. 19
Table 5.1 Resource and Energy Consumption 2008-2013	. 21
Table 10.1 Raw Material usage 2011-2013	. 22

List of Figures

Figure 2.1 Surface Water pH Results - 2013	10
Figure 2.2 Surface Water COD Results - 2013	11
Figure 2.3 Surface Water Total Suspended Solids Results - 2013	12
Figure 2.4 Surface Water Mineral Oil Results – 2013	13
Figure 2.5 Wastewater – pH Trend Data 2013	16
Figure 2.6 Wastewater – Mineral Oil Trend Data 2013	16
Figure 2.7 Wastewater – Metals and BTEX Trend Data 2013	17
Figure 2.8 Wastewater – Miscellaneous Parameter Trend Data 2013	17

Appendices

A xibneqqA	Site Maps
Appendix B	Environmental Management Programme 2013 & 2014
Appendix C	Dust Analysis Laboratory Results
Appendix D	Annual Noise Monitoring Report
Appendix E	OMI Emissions Report
Appendix F	Pollutant Release and Transfer Register (PRTR)
Appendix G	Bund Integrity Testing Report
Appendix H	Environmental Management and Staffing Structure





1 INTRODUCTION

The Environmental Protection Agency (EPA) issued Rilta Environmental Ltd. (RILTA) with Waste Licence Reg. No. W0192-03 for its site at Block 402, Greenogue Business Park, Rathcoole, County Dublin on 22nd July 2010. The facility is located within an industrial estate approximately 2km east of Newcastle village and approximately 2.5km west of Rathcoole village. The facility has been in operation since 2004. RILTA retained TOBIN Consulting Engineers (TOBIN) to prepare the Annual Environmental Report (AER) for the reporting period January to December 2013. This report has been prepared in accordance with Condition 11.10 and Schedule E of the waste licence.

This report addresses Condition 11.10 of the waste licence for the facility which states:

'The licensee shall submit to the Agency by the 31st March of each year an AER covering the previous calendar year. This report which shall be to the satisfaction of the Agency shall include as a minimum the information specified in Schedule E: Annual Environmental Report, of this licence and shall be prepared in accordance with any relevant guidelines 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 is a fully engineered and contained industrial site. It is licensed to accept 111,000 tonnes of waste material per annum, as set out in Schedule A of the waste licence. Table1.1 below summarises the tonnes of waste RILTA is licensed to accept and compares it to waste tonnages accepted in 2013.





	Waste Type	Maximum (Tonnes Per Annum) Note 3	2013 Tonnages
Non-	Commercial Waste	500	0
Hazardous	Construction & Demolition Waste	500	0
Wastes	Industrial Sludges	1,000	0
11010 1,2	Other Industrial Waste	3,000	33,807
No	n Hazardous Waste Total	5000	33,806.57
Hazardous	Description *		
Wastes EWC Code 13 05 03*	Interceptor sludges	10,000	714 6
16 07 08*	Waste containing oil	2,000	1,021.7
16 10 01*	Aqueous liquid waste containing dangerous substances	1,500	3,882.6
17 05 03*	Soil and stones containing dangerous substances	60,000	9,835
17 06 01* 17 06 05*	Insulation materials and construction Materials containing asbestos.	8,000	4,910
	Other ^{Note 4}	24,400	27,880
ł	Hazardous Waste Total	106,000	48,244
	Total	111,000	82,051

Table 1.1 Waste Acceptance Tonnages as per Waste Licence 192–03

Note 1: Any proposals to accept other compatible non-hazardous waste types must be

agreed in advance with the Agency.

Note 2: Excluding putrescible waste.

Note 3: The limitations on individual hazardous and non-hazardous waste types may be varied with the agreement of the Agency subject to the individual total limits for hazardous and non-hazardous waste staying the same.

Note 4: Hazardous waste types as detailed in Attachment H.1 of the review application for this licence Reg No: 192-03 or may be otherwise agreed in advance with the Agency.

Waste activities at the facility are restricted to those outlined in Part 1 – Schedule of Activities Licensed.

Licensed Waste Disposal Activities, in accordance with the 3rd Schedule of the Waste Management Act, 1996 to 2010:

- Class 7: Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination), which results in final compounds or mixtures, which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule (including evaporation, drying and calcination);
- **Class 11:** Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule;





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

Licensed Waste Disposal Activities, 4th Schedule of the Waste Management Acts 1996 to 2010:

- **Class 2:** Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes);
- Class 3: Recycling or reclamation of metals and metal compounds;
- Class 4: Recycling or reclamation of other inorganic materials;
- Class 6: Recovery of components used for pollution abatement;
- Class 8: Oil re-refining or other re-uses of oil; and
- **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.

2 EMISSIONS FROM THE FACILITY

Schedule C of Waste Licence 192-03 requires RILTA to carry out noise, air, dust, surface water, groundwater and wastewater emissions monitoring. The locations of these monitoring points are shown on Drawing 1250/01/1002, as submitted to the Environmental Protection Agency on the 28th of February 2005 and attached in Appendix A.

Monthly, quarterly and annual monitoring was carried out during the period 1st January 2013 to 31st December 2013. All monitoring results and reports have been submitted to the Agency as required by Condition 11 and Schedule C of the waste licence. The following is a summary of the results and findings from the 2013 monitoring period.

2.1 GROUNDWATER EMISSIONS

Groundwater monitoring was conducted on a quarterly basis at 3 no. groundwater monitoring locations as set out Drawing 1250/01/1002 (see Appendix A). Results for all 4 quarterly monitoring events were furnished





to the Agency as part of the environmental monitoring reports sent in April, July and October 2013 and January 2014.

2.1.1 Groundwater Monitoring at Borehole 1 (BH1)

The following is a summary of the values recorded for each parameter at BH1.

pH: The pH of groundwater analysed from BH1 ranged from 7.30 to 7.87 during 2013. Results from all monitoring events had values within the normal pH range ($6.5 \ge pH \le 9.5$) set out in the EPA Interim Guideline Values¹ (IGV) and reflects the natural background condition of the groundwater.

Conductivity: The conductivity concentrations in BH1 ranged from 506μ S/cm to 574μ S/cm during 2013. Results from all monitoring events were within the normal electrical conductivity range and were considerably lower than the IGV limit (1000 μ S/cm), reflecting normal background groundwater concentrations.

Heavy metals: Concentrations of mercury in BH1 were below the laboratory limit of detection (LOD) ($<0.04\mu g/l$), during all monitoring events in 2013. Concentrations of arsenic in BH1 ranged from $<0.1\mu g/l$ to 0.274 $\mu g/l$, during 2013. Copper, chromium, cadmium, boron, nickel, iron, lead and zinc were all analysed as part of the annual groundwater suite of parameters for BH1 during Q3 2013. All concentrations of heavy metals at BH1 during 2013 were below the required limit levels set out in the EPA.

Inorganic: The following inorganic parameters were analysed at BH1 during Q3 2013, as part of the annual groundwater suite: total alkalinity, cyanide, chloride, sulphate, potassium, sodium, calcium, magnesium and manganese. These parameters all had results within the limit values specified in the EPA IGVs, with the exception of chloride (56.76mg/l) which exceeded the EPA IGV (30mg/l). These results are consistent with previous results recorded at the site.

Pesticide: No concentrations of pesticides were detected during any monitoring event at BH1 during 2013.

List 1/11 Organic Substances, Mineral Oil, BTEX: Concentrations of list 1/11 organic substances (VOCs & SVOCs), mineral oil and BTEX were below the laboratory LOD² during all groundwater monitoring events at BH1 during 2013.

2.1.2 Groundwater Monitoring at Borehole 2 (BH2)

The following is a summary of the values recorded for each parameter at BH2.

pH: The pH of groundwater analysed from BH2 ranged from 8.74 to 10.34 during 2013. The pH values at BH2 were elevated relative to the guideline range set out in the IGVs ($6.5 \ge pH \le 9.5$) during monitoring

² TPG CWG - Limit of Detection



 $^{^{\}rm 1}$ From the EPA Interim Report – 'TOWARDS SETTING GUIDELINE VALUES FOR THE PROTECTION OF GROUNDWATER IN IRELAND'



events Q1 and Q3 (10.34 and 9.98, respectively). Slight fluctuations in the pH at BH2 are not atypical but will continue to be monitored closely.

Conductivity: The conductivity concentrations in BH2 ranged from 177μ S/cm to 351μ S/cm during 2013. Results from all monitoring events were within the normal electrical conductivity range and were considerably lower than the IGV limit (1000 μ S/cm), reflecting normal background groundwater concentrations.

Heavy metals: All heavy metals analysed at BH2 in 2013 were below their respective EPA IGVs including copper, chromium, cadmium, boron, nickel, iron, lead and zinc, which were analysed as part of the annual groundwater suite of parameters in Q3 2013. Concentrations of arsenic at BH2 ranged from 1.6µg/l to 3.065µg/l during 2013, while concentrations of mercury at BH2 ranged from <0.04-0.358µg/l.

Inorganic: The following inorganic parameters were analysed at BH2 during Q3 2013, as part of the annual groundwater suite: total alkalinity, cyanide, chloride, sulphate, potassium, sodium, calcium, magnesium and manganese. These parameters all had results within the limit values specified in the EPA IGVs.

Pesticide: No concentrations of pesticides were detected during any monitoring event at BH2 during 2013.

List 1/ 11 Organic Substances, Mineral Oil, BTEX: All groundwater sampled at BH2 from January to December 2013 had concentrations of BTEX below the laboratory LOD. Mineral oil concentrations were also below laboratory LOD during all quarters with the exception of Q1 when mineral oil of 39.69µg/l was detected. This level of mineral oil is above the EPA IGV of (10µg/l).

List1/11 substances were detected at BH2 during monitoring events in 2013. Volatile organic compounds (VOCs) were detected during Q2, Q3 & Q4 (6.81, 13.63 and 11.19µg/l, respectively). Concentrations of semi volatile organic compounds (SVOC) were all below their respective laboratory LOD at BH2 during 2013.

2.1.3 Groundwater Monitoring at Borehole 3 (BH3)

The following is a summary of the values recorded for each parameter at BH3.

pH: The pH of the analysed groundwater from BH3 ranged from 9.18 to 10.33 during 2013. The reported pH values for BH3 were outside the pH range ($6.5 \ge pH \le 9.5$) set out in the EPA IGV during monitoring events Q1, Q2 and Q3 (10.33, 9.80 and 10.01, respectively). As discussed in the previous AERs, pH levels at BH3 are assumed to be elevated due to the use of alkaline cements and backfill construction material, which was used during the installation of underground tanks at the facility.

Conductivity: The conductivity within BH3 ranged from 222µS/cm to 360µS/cm during 2013. Electrical conductivity at BH3 during all monitoring events was below the EPA IGV (1000µS/cm).





Heavy metals: Concentrations of arsenic at BH3 ranged from 6.008- 10.42 μ /l during 2013. This slightly exceeded the EPA IGV (10 μ g/l) during monitoring events Q3 and Q4 (10.39 and 10.42, respectively). Concentrations of mercury in BH3 ranged from <0.04 – 0.2041 μ g/l. This concentration is within the IGV limit of 1 μ g/l.

Copper, chromium, cadmium, boron, nickel, iron, lead and zinc were all analysed at BH3 during Q3 2013, as part of the annual groundwater testing suite of parameters. The concentrations of each of these metals were below the required limit levels set out in the EPA IGVs.

Inorganic: The following inorganic parameters were analysed at BH3 during Q3 2013 as part of the annual groundwater suite: total alkalinity, cyanide, chloride, sulphate, potassium, sodium, calcium, magnesium and manganese. These parameters all had results within the limit values specified in the EPA IGVs, with the exception of chloride (38.28mg/l) which exceeded the EPA IGV (30mg/l).

Pesticide: No Pesticide concentrations were detected during any monitoring event at BH3 during 2013.

List 1/ 11 Organic Substances, Mineral Oil, BTEX: BTEX were below the laboratory limit of detection during monitoring events at BH3 in 2013, with the exception of Benzene in Q1, Q2 and Q4 (4.66, 4.66 and 3.38µg/l, respectively) which exceeded the EPA IGV (1µg/l).

Mineral oil concentrations were below the laboratory limit of detection during monitoring events at BH3 in 2013, with the exception of Q4 (16.99µg/l) which exceeded the EPA IGV (10µg/l).

List1/11 substances were detected at BH3 during 2013. Volatile organic compounds (VOCs) were detected during Q1, Q2, Q3 & Q4 (29.17, 10.64, 11.87 and 6.98µg/l, respectively). Concentrations of semi volatile organic compounds were not detected were all below their respective laboratory LOD at BH3 during 2013.

2.2 SURFACE WATER EMISSIONS

Surface water monitoring was conducted on a quarterly basis at 3 no. surface water monitoring locations, as set out Drawing 1250/01/1002 (see Appendix A). Results for all 4 quarterly monitoring events were furnished to the Agency as part of the environmental monitoring reports sent in April, July and October 2013 and January 2014.

2.2.1 Surface Water Monitoring

Results from all surface water monitoring locations indicate that surface water quality at the RILTA facility is within normal chemical range and is consistent with natural uncontaminated surface waters. The following is a summary of parameter concentrations at all surface water monitoring locations.





pH: The pH values at all surface water monitoring locations were within the normal range in 2013 ($6.5 \ge pH \le$ 9.5) set out in SI No. 278 of 20073 and reflect the natural conditions of this surface water feature.



Figure 2.1 Surface Water pH Results - 2013

Table 2.1 Surface Water pH Results - 20	13
---	----

Location	pH Quarter 1	pH Quarter 2	pH Quarter 3	pH Quarter 4
SW1	8.2	8.0	8.0	8.2
SW2	8.2	8.1	8.0	8.2
SW3	8.2	8.0	8.2	8.2

 $^{^3}$ SI No 278 of 2007 – European Communities (Drinking Water) (No. 2) Regulations





Chemical Oxygen Demand: The chemical oxygen demand at all monitoring locations was consistent with historic monitoring results from the site. Concentrations were slightly elevated in Q1 with peak concentrations of 23mg/l, 15mg/l and 7mg/l at SW1, SW2 and SW3, respectively. There is no limit for surface water COD set out in waste licence 192-03 or SI No. 278 of 2007m. COD results from 2013 are summarised in Table 2.2 below.



Figure 2.2 Surface Water COD Results - 2013

Location	COD (mg/l) Quarter 1	COD (mg/l) Quarter 2	COD (mg/l) Quarter 3	COD (mg/l) Quarter 4
SW1	23	<5	<5	<5
SW2	15	<5	<5	<5
SW3	7	<5	<5	<5





Suspended Solids: The concentrations of suspended solids at all surface water monitoring locations were below the limit levels set out in waste licence 192–03 (35mg/l) for all monitoring events during 2013.



Figure 2.3 Surface Water Total Suspended Solids Results - 2013

Location	TSS (mg/l) Quarter 1	TSS (mg/l) Quarter 2	TSS (mg/l) Quarter 3	TSS (mg/l) Quarter 4
SW1	8	5	2	4
SW2	6	8	5	2
SW3	5	10	8	6

Tahle 23	Surface	Water 1	Fotal 9	Susnended	Solide	Results .	. 2013
	Juliace	value	ισιαιν	Juspended	oonus.	ricourio -	





Mineral Oils: Concentrations of Mineral Oil were below the laboratory detection limit (<2.5ug/l) during all monitoring events during 2013.



Figure 2.4 Surface Water Mineral Oil Results - 2013

Table 2.4 Surface	Water Mineral	Oil (mg/l)	Results - 2013
-------------------	---------------	------------	----------------

Location	Mineral Oil (μg/l) Quarter 1	Mineral Oil (µg/l) Quarter 2	Mineral Oil (µg/l) Quarter 3	Mineral Oil (µg/l) Quarter 4
SW1	<2.5	<2.5	<2.5	<2.5
SW2	<2.5	<2.5	<2.5	<2.5
SW3	<2.5	<2.5	<2.5	<2.5





2.3 WASTEWATER EMISSIONS

Waste water monitoring was conducted on a monthly basis at 1 no. monitoring location (SE-1), as per Schedule C of the waste licence 192-03 and illustrated on Drawing 1250/01/1002 (see Appendix A). The results for all 12 no. monitoring events were furnished to the Agency as part of the quarterly environmental monitoring reports sent to the Agency in April, July and October 2013, and January 2014.

2.3.1 Wastewater Monitoring

The daily maximum volume of waste water emitted is 175m³ and the hourly maximum is 20m³. The total wastewater volume emitted during 2013 was 44,450m³ (44 450 000 litres).

The concentration of pH was within the required licence limit ($6.5 \ge pH \le 10$) during all monitoring events in 2013. A summary of the reported monthly pH concentrations is contained in Table 2.5 and Figure 2.5 below.

The concentration of mineral oil at SE-1 was below the required licence limit during all monitoring events in 2013. A summary of the reported monthly mineral oil concentrations is contained in Table 2.5 and illustrated in Figure 2.6 below.

Concentrations of zinc, copper, chromium, lead, nickel, arsenic, benzene, toluene, ethyl-benzene and total xylene were all below respective licence limits during 2013. The reported monthly concentrations for these parameters are summarised in Table 2.5 and illustrated in Figure 2.7 below.

Concentrations of BOD, COD, sulphate, surfactants, suspended solids and ammoniacal nitrogen⁴ were all below respective licence limits during 2013. A summary of the reported monthly wastewater concentrations for these parameters is contained in Table 2.5 and illustrated in Figure 2.8 below.

⁴ Ammonical nitrogen was added to the SE-1 monthly parameters in 2010, as part of licence 192-03.





Table 2.5 Wastewater Results – 2013

Deverseler	Linite	Limitet							2013					
Parameter	Units	LIMITS	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature*	С	-	11.1	11.8	7.9	10.5	8.7	15.9	23.3	18.1	18	15.1	15.1	14.7
рН	pH units	6>pH<10	7.1	7.8	7.5	7.7	7.8	8.1	7.9	7.9	7.9	7.9	7.8	7.8
BOD	mg/l	2000	240	190	7	7	63	42	225	60	560	180	29	14
COD	mg/l	4000	771	1265	419	273	1168	594	3320	1830	3960	2042	749	315
Sulphate SO ₄	mg/l	1000	67.34	2.94	52.08	52.48	50.11	<0.82	123.37	6.11	34.88	20.88	48.94	35.45
Surfactants	mg/l	100	0.506	0.578	0.101	<0.05	0.63	0.113	0.207	0.74	1.393	0.204	0.446	0.130
Zinc Zn	µg/l	3000	8.29	34.49	38.41	54.98	537.6	77.5	826.4	208.3	165.5	168.4	31.24	70.74
Copper Cu	µg/l	1000	9.569	28.7	91.62	66	157.7	99.18	54.36	62.96	110	128	218.40	184.50
Chromium	µg/l	1000	9.605	87.18	40.78	37.15	303.3	86.81	449.9	277.6	343.4	208.6	95.97	44.03
Lead	μg/l	200	0.691	8.576	3.37	5.8	56.86	6.45	28.61	15.84	13.96	4.323	3.852	3.293
Nickel	μg/l	1000	238.8	78.75	38.49	32.44	239.8	63.48	236.1	133.5	154.9	118.2	56.93	24.18
Arsenic	μg/l	500	3.258	22.42	11.82	8.07	106.2	23.55	162.8	80.48	112.5	61.5	30.68	14.07
Benzene	μg/l	1000	14.863	<0.47	<0.47	<0.47	<0.47	<0.47	4.08	2.58	2.74	1.72	<0.47	<0.47
Toluene	μg/l	1000	111.03	6.784	<0.54	<0.54	12.503	<0.54	60.34	37.24	20.59	13.95	<1	<0.54
Ethylbenzene	μg/l	1000	14.15	<0.45	<0.45	<0.45	<0.45	<0.45	19.47	12.38	9.09	5.77	<0.45	<0.45
Total Xylene	μg/l	1000	133.93	8.425	<1.18	<1.18	40.22	11.28	121.51	70.33	38.16	18.01	<1.18	<1.18
Suspended Solids	mg/l	500	151	46	21	11	94	14	59	71	109	40	17	8
Ammonical Nitrogen	mg/l	-	132.91	600.50	227.00	158.65	2.18	275.93	1779.85	960.57	1784.42	<0.01	413.18	176.87
Mineral Oil	μg/l	10000	< 2.5	<2.5	177.75	< 2.5	<2.5	582.11	402.89	235.34	28.31	586.59	49.39	<2.5

*Grab Sample Limits as per W0192-03 **Sample is stored on site in refrigerator.





Figure 2.5 Wastewater – pH Trend Data 2013



Figure 2.6 Wastewater – Mineral Oil Trend Data 2013

Sector Tobin



Figure 2.7 Wastewater – Metals and BTEX Trend Data 2013



Figure 2.8 Wastewater – Miscellaneous Parameter Trend Data 2013



3 AMBIENT MONITORING

3.1 DUST

According to Schedule E of the waste licence, dust monitoring is required at the facility three times a year (twice between May and September), at monitoring locations illustrated on Drawing 1250/01/1002 (see Appendix A). Dust monitoring was carried out at four separate locations at the 4 no. corner boundaries of the RILTA facility. The samples were analysed by Fitz Scientific laboratories.

The results for each sample location D1, D2, D3 and D4 are included in Appendix C. During the three periods, dust monitoring location D3 exceeded the mean daily deposition limit (350mg/m2/day) while during the third monitoring period D2 exceeded the limit set in schedule C.3. of the waste licence. No exceedance was recorded at D1 or D4. Monitoring points D2 and D3 are both located along the northern perimeter fence of the facility, within close proximity of at least two neighbouring facilities.

Both of monitoring locations D2 and D3 are largely sheltered from on-site activities at the Rilta facility due to their location behind large buildings. This, coupled with the observation that no exceedance has ever been recorded at D1 or D4, which are located in the south of the facility and have less neighbouring facilities, suggests it is possible that neighbouring facilities have contributed to dust levels recorded at D2 and D3.

Monitoring Period	D1 (mg/m ² /d)	D2 (mg/m ² /d)	D3 (mg/m ² /d)	D4 (mg/m ² /d)
23/01/13 to 21/02/13	68.15	78.11	700.9	103.8
25/04/13 to 23/05/13	255.83	146.79	390.03	156.75
11/07/13 to 08/08/13	152.55	472.33	690.41	245.34

Table 3.1 Dust Monitoring Results - 2013

3.2 VOC EMISSIONS

Odour Monitoring Ireland were commissioned by Rilta Environmental Limited to perform Volatile Organic Compound (VOC) monitoring of the three licensed emission points located within the facility on a biannual basis. Monitoring was carried out on the 31st of October and the 7th of November 2013 (Round 1 and 2, respectively). With the exception of Volume flow for location A2, all results from the 2013 monitoring were in compliance with required limits. Measured volumetric airflow rate at A2 was 6,330Nm³/hr during the October monitoring event and 6,192 Nm³/hr during the November monitoring event, which exceeded the limit volumetric airflow rate at A2 (5,292 Nm³/hr). The full report from OMI detailing ambient emissions from the RILTA facility is contained in Appendix E.

4 NOISE MONITORING

The noise emission limits given in Waste Licence 192-03 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. A more detailed noise monitoring report for this period is contained in Appendix D. The noise emissions recorded are given in Table 4.1 and Table 4.2 below.



					DAY TI	ME
Receptor	Time	Leq dB(A)	Leq dB(A)*	L10	L90	Notes
N1	11:50	46.7	N/A	49.82	38.36	Noise at this location was dominated by internal industrial estate traffic passing the site. Distant traffic and vehicle movements at adjacent premises were also audible. Site activity was occasionally audible at this location.
N2	12:27	43.3	N/A	45.51	40.78	Hammering and heavy machinery movement at the adjacent premises was the dominant sources. Passing traffic on the nearby internal industrial estate road was also audible. The site was not audible at N2 during the daytime survey.
N3	11.09	47.4	N/A	51.36	42.62	A power washer in operation at an adjacent facility was the dominant noise source. Passing aircraft and bird song also contributed to daytime noise levels. Onsite activity was audible at low levels.
N4	10.26	57.8	62.8	60.06	54.85	Onsite activity (barrels being moved and radio on) and passing road traffic were the dominant noise sources during daytime monitoring at N4. Passing aircraft and activity at surrounding premises also contributed to noise levels.

Table 4.1 RILTA Daytime Noise – 2013

Leq* is Leq following application of any 5dB(A) penalties incurred.

NIGHT TIME								
Receptor	Time	Leq dB(A)	Leq dB(A)*	L10	L90	Notes		
N1	23:00	39.3	N/A	40.75	31.16	Noise at this location was dominated by passing traffic. A dog occasionally barking was also audible. A low hum was audible from the site at this location during night time monitoring.		
N2	23:35	35.9	N/A	36.67	34.18	Night time noise sources included noise from a neighbouring facility, the flowing stream and passing traffic on the nearby internal industrial estate road. A low hum was audible from the site at N2 during night time monitoring.		
N3	00:10	33.3	N/A	36.86	31.14	Night time noise at this location was dominated by aircraft and a helicopter passing overhead. Distant traffic also contributed to recorded noise levels. A low hum was audible at this location during night time monitoring.		
N4	00:50	43.6	N/A	40.41	31.22	Noise at location N4 during night time monitoring was dominated by passing traffic as well as a truck at a neighbouring facility. The site was not audible at this location during night time monitoring.		

Table 4.2 RILTA Night Time Noise – 2013

Leq* is Leq following application of any 5dB(A) penalties incurred.



Noise levels recorded at the four 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. During daytime monitoring, noise emissions from the RILTA facility was highly audible at monitoring location N4 and a low hum was audible coming from the site at N1 and N3. The site was not audible at N2.

The A-weighted equivalent continuous sound pressure level (LAeq, 30 min) recorded at the RILTA facility was above the limit of 55dB(A) at noise monitoring location N4 (**57.8**dB(A)) during daytime monitoring. It is likely that the Leq value of **57.8dB(A)** recorded at N4 is attributable to the facility as activities within the nearby warehouse were highly audible at this location (radio, barrels processing).

A tone was also observed at location N4 at 400Hz during the daytime survey, a 5dB(A) penalty has therefore been applied to this location bringing the Leq to **62.8dB(A)**, which exceeds the limit of 55dB(A).

Tones were also observed at N2 and N3 during the daytime survey. These tones were most likely attributed to activities at neighbouring facilities. The Rilta facility was not audible at N2 and was only audible at very low levels at N3. Heavy machinery was working offsite within the vicinity during the survey (jack hammer) as well as a power washer running, no penalty has therefore been applied.

During the night time monitoring period, a low hum was audible from the site at all locations during the night time noise survey with the exception of location N4. During the night time monitoring period the A-weighted equivalent continuous sound pressure level (LAeq, 30 min) of 45 dB(A) (night time) was not exceeded at any location.

During the night time survey the Rilta facility was audible at very low background levels (hum) at N1 and N3 only and was not audible at N2 or N4. Numerous tones were observed at N3 however during the survey a helicopter and two aeroplanes were audible overhead. It is likely that the tones observed at N3 were as a result of these overhead aircraft as the 'hum' from the facility was also audible at N1, where no tones were recorded. No penalty has therefore been applied. At N4, two tones were recorded at 25Hz and 31.5Hz, it is likely that passing traffic attributed to these tones as trucks and cars passed the facility during the survey and the facility was at no time audible from this location.

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

Full 1/3 octave frequency band analysis of both day and night time surveys is presented in Appendix D.



5 RESOURCE CONSUMPTION SUMMARY

The main energy use at RILTA includes:

- Gas	-Water
- Diesel	-Electricity

A review of electricity and gas bills for the period from 01/01/08 to 31/12/13 shows that RILTA used the following quantities.

2012 2013 2011 Gas KwH 175,932 52,240 60,266 63,120 Electricity KwH 422,560 422,566 418,766 480,660 Water m³ 17,020 13,132 19,420 20,620

Table 5.1 Resource and Energy Consumption 2008-2013

6 ENVIRONMENTAL MANAGEMENT

L

Diesel

6.1 SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS

9,888

Details of the Environmental Management Programmes (EMP) for the RILTA facility are contained in Appendix B.

75,800

62,800

74,880

6.2 ENVIRONMENTAL MANAGEMENT PROGRAMME

Details of the 2013 and 2014 EMPs for the RILTA facility are contained in Appendix B.

7 POLLUTANT RELEASE AND TRANSFER REGISTER (PRTR)

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

8 TANK AND PIPELINE TESTING AND INSPECTION REPORT

As per Condition 11 of waste licence 192-03, any reports on integrity testing of bunds or tanks will be furnished to the Agency upon completion. Bund Integrity Testing was carried out at the RILTA facility in February 2013. The results are included in Appendix G of this report.

9 WATER DEMAND AND TRADE EFFLUENT DISCHARGE

The trade effluent discharged in 2013 was 44,450m³, of this 520m³ of water was re-used; a decrease of 575m³ when compared to 2012 when significant volumes of water were re-used in carrying out bund testing. Water re-use in 2013 therefore was greater, but more similar to levels in 2011 (445m³ of treated effluent were re-used in 2011).

10 EFFICIENCY OF USE OF RAW MATERIALS/ REDUCTION IN WASTE GENERATED

The main raw material used on site is paint. Paint use overall decreased by 1,300L in 2013 when compared to 2012, while Acetone use increased by 25L.



	2011	2012	2013
56% Solids Paint	2,200 L	Nil	5,500L
65% Solids Paint	6,100L	6,800L	Nil
Xylene	200L	240L	180L
Acetone	25L	25L	50L

Table 10.1 Raw Material usage 2011-2013

11 DEVELOPMENT/INFRASTRUCTURAL WORKS

In 2013, 2 no. hardstanding concrete slabs located in the yard of the RILTA facility were replaced.

12 COMPLAINTS SUMMARY

There were two complaints received during 2013. Both complaints received related to odour. The source of the odour was likely related to the movement of processed 'filtercake' off-site. A mobile spray misting system has been brought in to alleviate this problem odour when moving this waste.

13 FINANCIAL PROVISION

Financial provision at the RILTA facility is currently under review.

13.1 MANAGEMENT AND STAFFING STRUCTURE

Details of the current management and staffing structure are contained in Appendix H, however this is currently under review.

13.2 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 0192-03. This file is available for viewing during normal office hours.

14 DECOMMISSIONING MANAGEMENT PLAN

The Decommissioning Management Plan at RILRA is currently under review.

14.1 PREVENTION OF ENVIRONMENTAL DAMAGE AND REMEDIAL ACTIONS (ENVIRONMENTAL LIABILITIES)

Environmental damage and Liabilities at the RILTA facility is currently under review.

14.2 ENVIRONMENTAL LIABILITIES RISK ASSESSMENT (ELRA)

Environmental Liabilities Risk Assessment at the RILTA facility is currently under review.



APPENDIX A

Site Map



APPENDIX B

Environmental Management Programme 2013 & 2014

RILTA ENVIRONMENTAL Ltd.

ENVIRONMENTAL MANAGEMENT SYSTEM



ENVIRONMENTAL MANAGEMENT PLAN

In accordance with **ISO 14001**

RILTA ENVIRONMENTAL	Issue No. 009
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2013
Environmental Management Programme	Page 1 of 8

ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND <u>TARGETS</u>

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

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

RILTA ENVIRONMENTAL	Issue No. 009
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2013
Environmental Management Plan	Page 2 of 8

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

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

RILTA ENVIRONMENTAL	Issue No. 009
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2013
Environmental Management Plan	Page 3 of 8

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
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	RS TMc	Ongoing Ongoing	
			of wastes for treatment			
6	Optimize the quality of effluent	Have re-usable water on tap	Investigate possibility of final effluent polish system	EI	Sept 13	
	discharged to sewer		Get approval from EPA	СН	Dec 13	

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

RILTA ENVIRONMENTAL	Issue No. 009
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2013
Environmental Management Plan	Page 4 of 8

EMP Ref.	Objective	Target	Environmental Management Programme	Responsible Person	Completion Date	Completed (Y/N)
ncy.			for the implementation of objectives.	i croon	Duit	(1)(1)
7	To be a good and considerate	No complaints	Complete noise monitoring.	СН	Ongoing	
	neighbour.		Monitor adjoining river on a quarterly basis.	СН	Ongoing	
			Implement 'closed door' policy system when unloading liquid waste tankers where possible	CM/DG	Ongoing	
			Cold cutting at the cedar site to take place inside with doors close	DG	Ongoing	

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

RILTA ENVIRONMENTAL	Issue No. 009
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2013
Environmental Management Plan	Page 5 of 8

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

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

RILTA ENVIRONMENTAL Ltd.

ENVIRONMENTAL MANAGEMENT SYSTEM



ENVIRONMENTAL MANAGEMENT PLAN

In accordance with **ISO 14001**

RILTA ENVIRONMENTAL	Issue No. 010
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2014
Environmental Management Programme	Page 1 of 5

ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND <u>TARGETS</u>

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

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

RILTA ENVIRONMENTAL	Issue No. 010
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2014
Environmental Management Plan	Page 2 of 5

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

Issue No.	010	Compiled by:	Colm Hussey
		Name/Position	Facility & Environmental Manager
Date:	Mar 2014	Reviewed by:	Eftim Ivanoff
		Name/Position	Operations Director
RILTA ENVIRONMENTAL	Issue No. 010		
---------------------------------	----------------		
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2014		
Environmental Management Plan	Page 3 of 5		

EMP	Objective	Target	Environmental Management	Responsible	Completion	Completed
Ref.			Programme for the	Person	Date	(Y/N)
			implementation of objectives.			
5	Reduce use of	Implement the 'treat waste with	Source suitable waste streams for	RS	Ongoing	
	hazardous raw	waste' best practice method on an	treatment			
	materials used	ongoing basis				
	on site.		Laboratory approval for the usage	TMc	Ongoing	
			of wastes for treatment			
6	Optimize the	Have re-usable water on tap	Investigate possibility of final	EI	Jan 15	
	quality of		effluent polish system			
	effluent		1 7			
	discharged to		Get approval from EPA	СН	June 15	
	sewer					
	sewer					

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

RILTA ENVIRONMENTAL	Issue No. 010
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2014
Environmental Management Plan	Page 4 of 5

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

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

RILTA ENVIRONMENTAL	Issue No. 010
ENVIRONMENTAL MANAGEMENT SYSTEM	Date: Mar 2014
Environmental Management Plan	Page 5 of 5

EMP	Objective	Target	Environmental	Responsible	Completion Data	Completed
Kej.			for the implementation of objectives.	rerson	Dale	(1//\)
8	To Be Energy Efficient	Reduce Water and electricity usage	Complete targeted energy audit at both 402 and 14A1 sites.	СН	Aug 14	
			Assess findings of audit.	CH/EI	July 14	
			Implement findings of audit if economically and practically feasible.	CH/EI	Dec 14	

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

APPENDIX C

Dust Analysis Laboratory Results



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/020/02 22/02/2013 21/02/2013 22/02/2013 Courier: DPD Acceptable
Customer PO		Date of Report	04/03/2013
Customer Ref	D1 23/01/13 - 21/02/13	Sample Type	Other
Ref 2	Rilta Greenogue (Block 402) Ref: 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units Acc.
Dust	144	Gravimetry	0.0130	g
Dust (mg/m2/day)	144	Gravimetry	68.15	mg/m2/day

Signed : <u>A Horecons</u> Aoife Harmon - Technical Supervisor

Date : 04/03/2013



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

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

Customer	Jessica Quinn	Lab Report Ref. No.	1102/020/03
	Tobin Consulting Engineers TES	Date of Receipt	22/02/2013
	Block 10-4	Sampled On	21/02/2013
	Blanchardstown Corp PK	Date Testing Commenced	22/02/2013
	Dublin 15	Received or Collected	Courier: DPD
	Dublin	Condition on Receipt	Acceptable
Customer PO		Date of Report	04/03/2013
Customer Ref	D2 23/01/13 - 21/02/13	Sample Type	Other
Ref 2	Rilta Greenogue (Block 402) Ref: 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units Acc.
Dust	144	Gravimetry	0.0149	g
Dust (mg/m2/day)	144	Gravimetry	78.11	mg/m2/day

Signed : <u>A Horecons</u> Aoife Harmon - Technical Supervisor

Date : 04/03/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/020/04 22/02/2013 21/02/2013 22/02/2013 Courier: DPD Acceptable
Customer PO		Date of Report	04/03/2013
Customer Ref	D3 23/01/13 - 21/02/13	Sample Type	Other
Ref 2	Rilta Greenogue (Block 402) Ref: 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units Acc.
Dust	144	Gravimetry	0.1337	g
Dust (mg/m2/day)	144	Gravimetry	700.9	mg/m2/day

Signed : <u>A Horecons</u> Aoife Harmon - Technical Supervisor

Date : 04/03/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/020/05 22/02/2013 21/02/2013 22/02/2013 Courier: DPD Acceptable
Customer PO		Date of Report	04/03/2013
Customer Ref	D4 23/01/13 - 21/02/13	Sample Type	Other
Ref 2	Rilta Greenogue (Block 402) Ref: 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units Acc.
Dust	144	Gravimetry	0.0198	g
Dust (mg/m2/day)	144	Gravimetry	103.8	mg/m2/day

Signed : <u>A Horecons</u> Aoife Harmon - Technical Supervisor

Date : 04/03/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/025/06 24/05/2013 23/05/2013 24/05/2013 Courier: DPD Acceptable
Customer PO		Date of Report	31/05/2013
Customer Ref	D1 25/04/13 - 23/05/13	Sample Type	Other
Ref 2	Rilta Greenogue Block 402 Ref. 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0488	g	
Dust (mg/m2/day)	144	Gravimetry	255.83	mg/m2/day	
Inorganic Dust	0	Calculation	0.0308	g	
Organic Dust	311	Ashing @ 500°C	0.018	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 31/05/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected	1102/025/07 24/05/2013 23/05/2013 24/05/2013 Courier: DPD
	Dublin	Condition on Receipt	Acceptable
Customer PO		Date of Report	31/05/2013
Customer Ref	D2 25/04/13 - 23/05/13	Sample Type	Other
Ref 2	Rilta Greenogue Block 402 Ref. 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0280	g	
Dust (mg/m2/day)	144	Gravimetry	146.79	mg/m2/day	
Inorganic Dust	0	Calculation	0.0162	g	
Organic Dust	311	Ashing @ 500°C	0.0118	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 31/05/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/025/08 24/05/2013 23/05/2013 24/05/2013 Courier: DPD Acceptable
Customer PO		Date of Report	31/05/2013
Customer Ref	D3 25/04/13 - 23/05/13	Sample Type	Other
Ref 2	Rilta Greenogue Block 402 Ref. 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0744	g	
Dust (mg/m2/day)	144	Gravimetry	390.03	mg/m2/day	
Inorganic Dust	0	Calculation	0.0387	g	
Organic Dust	311	Ashing @ 500°C	0.0357	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 31/05/2013



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

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

Customer	Jessica Quinn Tobin Consulting Engineers TES Block 10-4 Blanchardstown Corp PK Dublin 15 Dublin	Lab Report Ref. No. Date of Receipt Sampled On Date Testing Commenced Received or Collected Condition on Receipt	1102/025/09 24/05/2013 23/05/2013 24/05/2013 Courier: DPD Acceptable
Customer PO		Date of Report	31/05/2013
Customer Ref	D4 25/04/13 - 23/05/13	Sample Type	Other
Ref 2	Rilta Greenogue Block 402 Ref. 3084		

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.0299	g	
Dust (mg/m2/day)	144	Gravimetry	156.75	mg/m2/day	
Inorganic Dust	0	Calculation	0.0159	g	
Organic Dust	311	Ashing @ 500°C	0.014	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 31/05/2013



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

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

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

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units A	cc.
Dust	144	Gravimetry	0.0177	g	
Dust (mg/m2/day)	144	Gravimetry	92.79	mg/m2/day	
Inorganic Dust	0	Calculation	0.0115	g	
Organic Dust	311	Ashing @ 500°C	0.0062	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 26/08/2013



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

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

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

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 : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 26/08/2013



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

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

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

CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Dust	144	Gravimetry	0.3753	g	
Dust (mg/m2/day)	144	Gravimetry	1967.45	mg/m2/day	
Inorganic Dust	0	Calculation	0.0927	g	
Organic Dust	311	Ashing @ 500°C	0.2826	g	

Signed : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 26/08/2013



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

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

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

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 : <u>A Hovernoo</u> Aoife Harmon - Technical Supervisor

Date : 26/08/2013

APPENDIX D

Annual Noise Monitoring Report

RILTA ENVIRONMENTAL LTD.

Annual Noise Survey 2013



November 2013

TOBIN CONSULTING ENGINEERS







REPORT

PROJECT:

Rilta Environmental Ltd. Greenogue Monitoring.

CLIENT:

RILTA Environmental Ltd.

Greenogue Business Park, Rathcoole, D24

COMPANY:

TOBIN Consulting Engineers Block 10-4, Blanchardstown Corporate Park,

Dublin 15

www.tobin.ie



DOCUMENT AMENDMENT RECORD

Client: Rilta Environmental Ltd

Project: Greenogue Monitoring

Title: November 2013 Noise Monitoring

PROJECT	PROJECT NUMBER: 3084				IT REF: 3	8084 – 01	
А	Noise Report	JQ	07/01/13				
Revision	Description & Rationale	Originated	Date	Checked	Date	Authorised	Date
	TOBIN Consulting Engineers						





TABLE OF CONTENTS

1	INT	IRODUCTION	. 1
2	NO	DISE MONITORING SURVEY	. 1
	2.1	INSTRUMENTATION USED	1
	2.2	MEASUREMENT PROCEDURE	1
	2.3	RESULTS OF NOISE SURVEY	2
3	со	NCLUSION	. 3

LIST OF TABLES

Table 2.1 Nois	se Monitoring Locations	2
Table 2.2	Noise Monitoring Results – dB(A) and 30 minute intervals	3

APPENDICES

Appendix A: Map of Noise Monitoring Locations

Appendix E	3: 1/3 Octave Frequency Analysis	
Figure 1	N1 Daytime Frequency Analysis	8
Figure 2	N1 Night Time Frequency Analysis	8
Figure 3	N2 Daytime Frequency Analysis	9
Figure 4	N2 Night Time Frequency Analysis	9
Figure 5	N3 Daytime Frequency Analysis	10
Figure 6	N3 Night Time Frequency Analysis	10
Figure 7	N4 Daytime Frequency Analysis	11
Figure 8	N4 Night Time Frequency Analysis	11





1 INTRODUCTION

This report deals with the noise monitoring requirement conditions of RILTA Environmental Ltd. (RILTA) hazardous waste facility at Greenogue Business Park, Rathcoole, Co. Dublin, Waste Licence No. 192-03.

2 NOISE MONITORING SURVEY

TOBIN Consulting Engineers (TOBIN) was commissioned by RILTA to carry out an annual day and night time noise survey at their facility in Greenogue Business Park. The noise survey was carried out within the site boundary of the waste facility at four no. locations agreed with the EPA (see Appendix A). Weather conditions during monitoring event 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 USED

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 27th of November 2013 by TOBIN personnel. Noise monitoring was undertaken for 30 minute intervals at four agreed EPA locations. All the environmental noise analysers had data logging facilities were 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 summarised in Table 2. 1 below and shown in Appendix A. The results of the noise survey are given in Table 2.2. The 1/3 octave frequency analysis data is given in graphical format in Appendix B.

Table 2.1 Noise Monitoring Locations

Monitoring Location	Description
N1	South western boundary of site
N2	North western boundary of site
N3	North eastern boundary of site
N4	South eastern boundary of site

Location N1

Noise monitoring location N1 is located at the south-western boundary of the site, adjacent to the site car park and to the access road to RILTA within Greenogue Business Park. Noise at this location during daytime monitoring was dominated by internal industrial estate traffic passing the site. Distant traffic and vehicle movements at adjacent premises were also audible. Site activity was occasionally audible at this location during daytime monitoring.

Noise at this location during night time monitoring was dominated by passing traffic. A dog occasionally barking was also audible. A low hum was audible from the site at this location during night time monitoring.

Location N2

N2 is located in the north-western corner of the site. Hammering and heavy machinery movement at the adjacent premises were the dominant sources of noise during daytime monitoring. Passing traffic on the nearby internal industrial estate road was also audible. The site was not audible at N2 during the daytime survey.

Night time noise sources included noise from a neighbouring facility, the flowing stream and passing traffic on the nearby internal industrial estate road. A low hum was audible from the site at N2 during night time monitoring.





Location N3

N3 is located at the north-eastern site boundary, adjacent to the tank farm. At this location, a power washer in operation at an adjacent facility was the dominant noise source. Passing aircraft and bird song also contributed to daytime noise levels at N3. Onsite activity was audible at low levels.

Night time noise at this location was dominated by aircraft and a helicopter passing overhead. Distant traffic also contributed to recorded noise levels. A low hum was audible at this location during night time monitoring.

Location N4

Noise monitoring location N4 is located in the south-eastern corner of the site adjacent to the access road to RILTA within Greenogue Business Park. Onsite activity (barrels being moved and radio on) and passing road traffic were the dominant noise sources during daytime monitoring at N4. Passing aircraft and activity at surrounding premises also contributed to noise levels.

Noise at location N4 during night time monitoring was dominated by passing traffic as well as a truck at a neighbouring facility. The site was not audible at this location during night time monitoring.

Daytime Results						
Receptor	Time	Leq	L10	L90		
N1	11:50	46.7	49.82	38.36		
N2	12:27	43.3	45.51	40.78		
N3	11.09	47.4	51.36	42.62		
N4	10.26	57.8	60.06	54.85		
Night Time Results						
Receptor	Time	Leq	L10	L90		
N1	23:00	39.3	40.75	31.16		
N2	23:35	35.9	36.67	34.18		
N3	00:10	33.3	36.86	31.14		
N4	00:50	43.6	40.41	31.22		

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

3 CONCLUSION

The noise emission limits given in Waste Licence 192-03 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 daytime and night time noise emissions from RILTA Environmental Ltd are summarised in Table 2.2 above.

Noise levels recorded at the four 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. During daytime monitoring, noise emissions from the RILTA facility was highly audible at monitoring location N4 and a low hum was audible coming from the site at N1 and N3. The site was not audible at N2.

The A-weighted equivalent continuous sound pressure level (LAeq, 30 min) recorded at the RILTA facility was above 55 dB(A) at noise monitoring location N4 (57.8dB(A)) during daytime monitoring. It is likely that the Leq value of 57.8 recorded at N4 is attributable to the facility as activities within the nearby warehouse were highly audible at this location (radio, barrels processing).

A tone was also observed at location N4 at 400Hz during the daytime survey, a 5dB(A) penalty has therefore been applied to this location bringing the Leq to 62.8dB(A).

Tones were also observed at N2 and N3 during the daytime survey. These tones were most likely attributed to activities at neighbouring facilities. The Rilta facility was not audible at N2 and was only audible at very low levels at N3. Heavy machinery was working offsite within the vicinity during the survey (jack hammer) as well as a power washer running, no penalty has therefore been applied.

During the night time monitoring period, a low hum was audible from the site at all locations during the night time noise survey with the exception of location N4. During the night time monitoring period the A-weighted equivalent continuous sound pressure level (LAeq, 30 min) of 45 dB(A) (night time) was not exceeded at any location.

During the night time survey the Rilta facility was audible at very low background levels (hum) at N1 and N3 only and was not audible at N2 or N4. Numerous tones were observed at N3 however during the survey a helicopter and two aeroplanes were audible overhead. It is likely that the tones observed at N3 were as a result of these overhead aircraft as the 'hum' from the facility was also audible at N1, where no tones were recorded. No penalty has therefore been applied. At N4, two tones were recorded at 25Hz and 31.5Hz, it is likely that passing traffic attributed to these tones as trucks and cars passed the facility during the survey and the facility was at no time audible from this location.

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

Note that the EPA agreed noise monitoring locations are all on site and do not reflect emissions at noise sensitive locations.

Full 1/3 octave frequency band analysis of both day and night time surveys is presented in Appendix B.





APPENDIX A

Noise Monitoring Locations





© Ordnance Survey Ireland, 2008. All rights reserved. Licence number EN 0016009



APPENDIX B

1/3 Octave Frequency Analysis Day & Night Noise Surveys





Figure 1 N1 Daytime Frequency Analysis



Figure 2 N1 Night Time Frequency Analysis







Figure 3 N2 Daytime Frequency Analysis



Figure 4 N2 Night Time Frequency Analysis































INTERNATIONAL NETWORK

Galway Fairgreen House, Fairgreen Road, Galway. Ph +353 (0)91 565211 Fax +353 (0)91 565398 E-mail galway@tobin.ie Dublin Block 10-4, 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

visit us @ www.tobin.ie

Krakow (Poland) Ul. Cystersow 9, 31-553, Krakow, Poland. Ph +4812353 8646 Fax +48123537329 E-mail poland@tobin.ie Oxfordshire (UK) CAB International Nosworthy Way, Wallingford, Oxfordshire. Ph +441491829327 Fax +441491833508 E-mail uk@tobin.ie

APPENDIX E

Emissions Report



ODOUR & ENVIRONMENTAL CONSULTANTS

Unit 32 De Granville Court, Dublin Rd, Trim, Co. Meath

Tel: +353 46 9437922 Mobile: +353 86 8550401 E-mail: info@odourireland.com www.odourireland.com

ROUND 2 2013-MONITORING OF VOC EXHAUST STACKS CONCENTRATIONS AT RILTA LTD, BLOCK 402, GREENOGUE BUSINESS PARK, RATHCOOLE, CO. DUBLIN

PERFORMED BY ODOUR MONITORING IRELAND ON BEHALF OF RILTA ENVIRONMENTAL LIMITED

PREPARED BY:	Dr. John Casey		
ATTENTION:	Mr. Colm Hussey		
LICENCE NUMBER:	WL00192-03		
LICENCE HOLDER:	Rilta Environmental Limited		
FACILITY NAME:	Block 402, Grants's Drive		
DATE OF MONITORING VISIT:	31 st Oct. 2013		
NAME AND ADDRESS OF CLIENT ORGANISATION:	Rilta Environmental Ltd., Block 402, Grants's Drive, Greenogue Business Park, Rathcoole, Co. Dublin		
NAME AND ADDRESS OF MONITORING ORGANISATION:	Odour Monitoring Ireland, Unit 32 DeGranville Court, Dublin Road, Trim, Co. Meath		
DATE OF REPORTING:	02 nd Dec. 2013		
NAME AND THE FUNCTION OF THE PERSON APPROVING THE REPORT:	Dr. Brian Sheridan, Managing Partner, Odour Monitoring Ireland		
REPORT NUMBER:	20131017(1)		
Reviewers:			

TABLE OF CONTENTS

Section	Page number	
TABLE C	i	
Docum	II	
Part 1 -	Executive Summary	1
1.1	Monitoring Objectives	2
1.2	Special Monitoring Requirements	2
1.3	The substances to be monitored at each emission point	2
2.	Monitoring Results	3
2.1	Operating Information	3
2.2	Monitoring Result Reference Conditions	3
2.3.	Sampling Location Summary	3
2.4.	Sampling time runs	4
4.	Conclusion	6
5.	Appendix I-Sampling, analysis	6
Document No. 20131017 (ver.1) Visit No: 01 Year: 2013 WL0192-03 Rilta Environmental Limited Greenogue Business Park

This document is submitted as part of environmental monitoring carried out by Odour Monitoring Ireland. The results reported are representative of actual conditions on the day of monitoring.

Respectively submitted,

levu

Brian Sheridan B.Sc. M.Sc. (Agr) Ph.D (Eng).

For and on behalf of Odour Monitoring Ireland™

www.odourireland.com

Document No. 20131017 (ver.1) Visit No: 01 Year: 2013 WL0192-03 Rilta Environmental Limited Greenogue Business Park

DOCUMENT AMENDMENT RECORD

Client: Rilta Environmental Limited

Title: Round 1 2013 - Monitoring of VOC concentrations at Rilta Environmental Ltd., Block 402, Greenogue Business Park, Rathcoole, Co. Dublin

Project Number: 20131017(1)			Document Reference: 20131017(1)		
20131017(1)	Document for review	JMC	BAS	BAS	02/12/2013
Revision	Purpose/Description	Originated	Checked	Authorised	Date
		O D D U R monitoring IRELAND			

Part 1 - Executive Summary

Location	Date and Time	Flow (m ³ N/hr)	Compliance	Mass flow (kgN/hr)	Expanded Uncertainty as % limit value	Compliance
A1	31/10/13 08.00 to 08.30	2,246	Yes	0.094	2.24	Yes
A2	31/10/13 08.00 to 08.30	6,330	No	0.006	2.84	Yes
A3	31/10/13 08.00 to 08.30	1,668	Yes	0.0002	2.14	Yes

The results of the monitoring exercise are contained in Section 2 of this report.

1.1 Monitoring Objectives

Odour Monitoring Ireland were commissioned by Rilta Environmental Limited to perform Volatile Organic Compound (VOC) monitoring of three licensed emission points located within the facility. The survey was carried out on the 31/10/2013. The monitoring was carried out at this facility as part of compliance monitoring with the requirements of Waste licence W0192-03. The emissions testing was carried out by Odour Monitoring Ireland on behalf of Rilta Environmental Limited.

1.2 Special Monitoring Requirements

There were no special monitoring requirements for this campaign.

1.3 The substances to be monitored at each emission point

The parameters listed in *Table 1.1* were monitored using the appropriate instrumentation as illustrated in *Table 1.1*. All monitoring was carried out in accordance with Environmental Protection Agency Office of Environmental Enforcement (OEE) Air Emission Monitoring Guidance Note 2 (AG2).

Sample location	Parameter	Analytical method
A1, A2, A3	Volumetric airflow rate & Temperature (⁰ C)	Pitot in accordance with EN13284-1:2002. MGO coated K type thermocouple and PT100
A1, A2, A3	Total Organic Carbon (TOC)	EN13649:2002 analysis via Gas Chromatography in an UKAS accredited lab.

Table 1.1. Monitored parameters and techniques

This report presents details of this monitoring programme. This environmental monitoring was carried out Dr. John Casey, Managing Partner, Odour Monitoring Ireland on the 31/10/2013. Results and Conclusions are presented herein.

2. Monitoring Results

This section will present the results of the monitoring exercise.

Emission Point Reference	Date	Process Type	Process Duration	Fuel	Feedstock	Abatement	Load
A1	31/10/2013	Drum washer	Continuous	N/A	Air emission from washing processes	No	Air emission from washing processes
A2	31/10/2013	Drum painter	Continuous	N/A	Air emission from paint processes	No	Air emission from paint processes
A3	31/10/2013	Drum dryer	Continuous	N/A	Air emission from drying processes	No	Air emission from drying processes

2.1 Operating Information

2.2 Monitoring Result Reference Conditions

Emission Point Reference	Temperature (K)	Pressure	Moisture Correction	Oxygen Correction (%)
A1	К	101.3	Yes	None
A2	К	101.3	Yes	None
A3	К	101.3	Yes	None

2.3. Sampling Location Summary

Comment	Yes/No
Recommended 5 hydraulic diameters straight length before sampling plane	Yes*
Recommended 2 hydraulic diameters straight length after sampling plane	Yes*
Ports number <1.5m - 2 ports >1.5m - 4 ports	2 ports
Appropriate port size	Yes
Suitable working platform	Yes

Note: *Airflow rate in accordance with EN13284 with exception of location A1 due to access issues airflow rate was performed at one plane on the base of the stack.

2.4. Sampling time runs

Parameter	Approx. Sampling period per location
Volumetric air flow rate	Manually calculated
Stack gas temp	15 minutes
T A Luft Organics	43 minutes

Table 2.5. Measurement results and emission limit values within Waste licence 192-03 - Schedule ${\sf B}$

Emission Point	Temperature (Kelvin)	Limit Volumetric airflow rate (Nm ³ hr ⁻¹)	Measured Volumetric airflow rate (Nm ³ hr ⁻¹)
A1	286.15	5,292	2,246
A2	286.15	5,292	6,330
A3	298.15	2,520	1,668

Table 2.6. Results of monitoring at Emission Point A1

Library/ID	Conc. of VOC (mgC/ Nm ³)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	0.1 mgC/Nm ³	2.24	0.0002 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-	-	1.0 kg/hr

Table 2.7. Results of monitoring at Emission Point A2

Library/ID	Conc. of VOC (mgC/Nm³)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	40* mgC/Nm ³	2.84	0.094 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-	-	0.10 kg/hr

 * Note compounds identified on GCMS screen were Ethylbenzene 3.72 mg/m³, m&p xylene 1.25 mg/m³ and o-xylene 4.62 mg/m³.

Table 2.8.Results of VOC Monitoring at Emission Point A3.

Library/ID	Conc. of Speciated VOC (mg Nm ⁻³ as C)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	0.8 [*] mgC/Nm ³	2.14	0.006 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-		0.30 kg/hr

* Note compounds identified on GCMS screen were m&p xylene 0.74 mg/m³ and o-xylene 0.31 mg/m³.

Mass emissions for location A1, A2, A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03. Volume flow for locations A1 and A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03. Volume flow for location A2 was not in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.

4. Conclusions

The following conclusions were drawn from the study:

- Mass emissions for location A1, A2, A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.
- Volume flow for locations A1 and A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.
- Volume flow for location A2 was not in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.

5. Appendix I-Sampling, analysis

5.1.1 Location of Sampling

Rilta Environmental Ltd., Block 402, Grants's Drive, Greenogue Business Park, Rathcoole, Co. Dublin

- 5.1.2 Date & Time of Sampling 31/10/2013
- 5.1.3 Personnel Present During Sampling Dr. John Casey, Odour Monitoring Ireland, Trim, Co. Meath.

5.1.4 Instrumentation check list

Federal Method 2 S type pitot and MGO coated thermocouple; L type pitot tube Testo 400 handheld and appropriate probes. SKC sample pumps and Bios Primary calibrator and glass impingers.



ODOUR & ENVIRONMENTAL CONSULTANTS

Unit 32 De Granville Court, Dublin Rd, Trim, Co. Meath

Tel: +353 46 9437922 Mobile: +353 86 8550401 E-mail: info@odourireland.com www.odourireland.com

ROUND 2 2013-MONITORING OF VOC EXHAUST STACKS CONCENTRATIONS AT RILTA LTD, BLOCK 402, GREENOGUE BUSINESS PARK, RATHCOOLE, CO. DUBLIN

PERFORMED BY ODOUR MONITORING IRELAND ON BEHALF OF RILTA ENVIRONMENTAL LIMITED

PREPARED BY:	Dr. John Casey
ATTENTION:	Mr. Colm Hussey
LICENCE NUMBER:	WL00192-03
LICENCE HOLDER:	Rilta Environmental Limited
FACILITY NAME:	Block 402, Grants's Drive
DATE OF MONITORING VISIT:	07 th Nov. 2013
NAME AND ADDRESS OF CLIENT ORGANISATION:	Rilta Environmental Ltd., Block 402, Grants's Drive, Greenogue Business Park, Rathcoole, Co. Dublin
NAME AND ADDRESS OF MONITORING ORGANISATION:	Odour Monitoring Ireland, Unit 32 DeGranville Court, Dublin Road, Trim, Co. Meath
DATE OF REPORTING:	02 nd Dec. 2013
NAME AND THE FUNCTION OF THE PERSON APPROVING THE REPORT:	Dr. Brian Sheridan, Managing Partner, Odour Monitoring Ireland
REPORT NUMBER:	20131021(1)
Reviewers:	

TABLE OF CONTENTS

Sectio	Section FABLE OF CONTENTS Document Amendment Record				
TABLE					
Docu					
Part 1	- Executive Summary	1			
1.1	Monitoring Objectives	2			
1.2	Special Monitoring Requirements	2			
1.3	The substances to be monitored at each emission point	2			
2.	Monitoring Results	3			
2.1	Operating Information	3			
2.2	Monitoring Result Reference Conditions	3			
2.3.	Sampling Location Summary	3			
2.4.	Sampling time runs	4			
4.	Conclusion	6			
5.	Appendix I-Sampling, analysis	6			

Document No. 20131021 (ver.1) Visit No: 02 Year: 2013 WL0192-03 Rilta Environmental Limited Greenogue Business Park

This document is submitted as part of environmental monitoring carried out by Odour Monitoring Ireland. The results reported are representative of actual conditions on the day of monitoring.

Respectively submitted,

levu

Brian Sheridan B.Sc. M.Sc. (Agr) Ph.D (Eng).

For and on behalf of Odour Monitoring Ireland™

www.odourireland.com

Document No. 20131021 (ver.1) Visit No: 02 Year: 2013 WL0192-03 Rilta Environmental Limited Greenogue Business Park

DOCUMENT AMENDMENT RECORD

Client: Rilta Environmental Limited

Title: Round 2 2013 - Monitoring of VOC concentrations at Rilta Environmental Ltd., Block 402, Greenogue Business Park, Rathcoole, Co. Dublin

Project Numb	per: 20131021(1)	Document I	Reference: 201	31021(1)	
20131021(1)	Document for review	JMC	BAS	BAS	02/12/2013
Revision	Purpose/Description	Originated	Checked	Authorised	Date
		O D D U R monitoring IRELAND			

Part 1 - Executive Summary

Location	Date and Time	Flow (m ³ N/hr)	Compliance	Mass flow (kgN/hr)	Expanded Uncertainty as % limit value	Compliance
A1	07/11/13 09.00 to 09.30	2,203	Yes	0.087	1.35	Yes
A2	07/11/13 09.00 to 09.30	6,192	No	0.116	1.5	Yes
A3	07/11/13 09.00 to 09.30	1,646	Yes	0.0029	1.1	Yes

The results of the monitoring exercise are contained in Section 2 of this report.

1.1 Monitoring Objectives

Odour Monitoring Ireland were commissioned by Rilta Environmental Limited to perform Volatile Organic Compound (VOC) monitoring of three licensed emission points located within the facility. The survey was carried out on the 07/11/2013. The monitoring was carried out at this facility as part of compliance monitoring with the requirements of Waste licence W0192-03. The emissions testing was carried out by Odour Monitoring Ireland on behalf of Rilta Environmental Limited.

1.2 Special Monitoring Requirements

There were no special monitoring requirements for this campaign.

1.3 The substances to be monitored at each emission point

The parameters listed in *Table 1.1* were monitored using the appropriate instrumentation as illustrated in *Table 1.1*. All monitoring was carried out in accordance with Environmental Protection Agency Office of Environmental Enforcement (OEE) Air Emission Monitoring Guidance Note 2 (AG2).

Sample location	Parameter	Analytical method		
A1, A2, A3	Volumetric airflow rate & Temperature (⁰ C)	Pitot in accordance with EN13284-1:2002. MGO coated K type thermocouple and PT100		
A1, A2, A3	Total Organic Carbon (TOC)	EN13649:2002 analysis via Gas Chromatography in an UKAS accredited lab.		

Table 1.1. Monitored parameters and techniques

This report presents details of this monitoring programme. This environmental monitoring was carried out Dr. John Casey, Managing Partner, Odour Monitoring Ireland on the 07/11/2013. Results and Conclusions are presented herein.

2. Monitoring Results

This section will present the results of the monitoring exercise.

Emission Point Reference	Date	Process Type	Process Duration	Fuel	Feedstock	Abatement	Load
A1	07/11/2013	Drum washer	Continuous	N/A	Air emission from washing processes	No	Air emission from washing processes
A2	07/11/2013	Drum painter	Continuous	N/A	Air emission from paint processes	No	Air emission from paint processes
A3	07/11/2013	Drum dryer	Continuous	N/A	Air emission from drying processes	No	Air emission from drying processes

2.1 Operating Information

2.2 Monitoring Result Reference Conditions

Emission Point Reference	Temperature (K)	Pressure	Moisture Correction	Oxygen Correction (%)
A1	К	101.3	Yes	None
A2	К	101.3	Yes	None
A3	К	101.3	Yes	None

2.3. Sampling Location Summary

Comment	Yes/No
Recommended 5 hydraulic diameters straight length before sampling plane	Yes*
Recommended 2 hydraulic diameters straight length after sampling plane	Yes*
Ports number <1.5m - 2 ports >1.5m - 4 ports	2 ports
Appropriate port size	Yes
Suitable working platform	Yes

Note: *Airflow rate in accordance with EN13284 with exception of location A1 due to access issues airflow rate was performed at one plane on the base of the stack.

2.4. Sampling time runs

Parameter	Approx. Sampling period per location
Volumetric air flow rate	Manually calculated
Stack gas temp	15 minutes
T A Luft Organics	35 minutes

Table 2.5. Measurement results and emission limit values within Waste licence 192-03 - Schedule ${\sf B}$

Emission Point	Temperature (Kelvin)	Limit Volumetric airflow rate (Nm ³ hr ⁻¹)	Measured Volumetric airflow rate (Nm ³ hr ⁻¹)
A1	286.15	5,292	2,203
A2	286.15	5,292	6,192
A3	298.15	2,520	1,646

Table 2.6. Results of monitoring at Emission Point A1

Library/ID	Conc. of VOC (mgC/ Nm ³)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	1.7 mgC/Nm ³	1.35	0.0029 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-	-	1.0 kg/hr

Table 2.7. Results of monitoring at Emission Point A2

Library/ID	Conc. of VOC (mgC/Nm³)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	38* mgC/Nm ³	1.5	0.087 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-	-	0.10 kg/hr

* Note compounds identified on GCMS screen were Ethylbenzene 1.72 mg/m³, m&p xylene 1.31 mg/m³ and o-xylene 2.5 mg/m³.

Table 2.8.Results of VOC Monitoring at Emission Point A3.

Library/ID	Conc. of Speciated VOC (mg Nm ⁻³ as C)	Expanded uncertainty as % of limit value	Mass Flow of Speciated VOC (kg/hr)
Total Organic Carbon (TOC as carbon)	17 [*] mgC/Nm ³	1.1	0.116 kg/hr
Total Organic Carbon (TOC as carbon) Limit value	-		0.30 kg/hr

* Note compounds identified on GCMS screen were m&p xylene 1.88 mg/m³ and o-xylene 3.25 mg/m³.

Mass emissions for location A1, A2, A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03. Volume flow for locations A1 and A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03. Volume flow for location A2 was not in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.

4. Conclusions

The following conclusions were drawn from the study:

- Mass emissions for location A1, A2, A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.
- Volume flow for locations A1 and A3 were in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.
- Volume flow for location A2 was not in compliance with emission limit values as set out in Schedule B of Waste licence 192-03.

5. *Appendix I-*Sampling, analysis

5.1.1 Location of Sampling

Rilta Environmental Ltd., Block 402, Grants's Drive, Greenogue Business Park, Rathcoole, Co. Dublin

5.1.2 Date & Time of Sampling 07/11/2013

5.1.3 Personnel Present During Sampling Dr. John Casey, Odour Monitoring Ireland, Trim, Co. Meath.

5.1.4 Instrumentation check list

Federal Method 2 S type pitot and MGO coated thermocouple; L type pitot tube Testo 400 handheld and appropriate probes. SKC sample pumps and Bios Primary calibrator and glass impingers.

APPENDIX F

Pollutant Release and Transfer Register (PRTR)



| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : W0192_2013.xlsm | Return Year : 2013 |

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2013

Version 1.1.18

REFERENCE TEAR 20

1. FACILITY IDENTIFICATION

Parent Company Name	Rita Environmental Limited
Facility Name	Rilta Environmental Limited
PRTR Identification Number	W0192
Licence Number	W0192-03
Waste or IPPC Classes of Activity	
No.	class_name
	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
4.13	produced.
	Blending or mixture prior to submission to any activity referred to in
3.11	a preceding paragraph of this Schedule.
	Repackaging prior to submission to any activity referred to in a
3.12	preceding paragraph of this Schedule.
and the second	Storage prior to submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending
3 13	collection on the premises where the waste concerned is produced.
37	
	Recycling or reclamation of organic substances which are not used
	as solvents (including composting and other biological
42	transformation processes)
4.3	Recycling or reclamation of metals and metal compounds.
44	Recycling or reclamation of other inorganic materials.
4.6	Recovery of components used for pollution abatement.
4.8	Oil re-refining or other re-uses of oil
Address 1	Block 402, Grant's Drive
Address 2	Greenoque Business Park
Address 3	Rathcoole
Address 4	County Dublin
	Dublin
Country	Ireland
Coordinates of Location	-8.48281 51.8695
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	Site Manager
AER Returns Contact Telephone Number	01 401 8000
	北京市市市市市市市市市市市
AER Returns Contact Mobile Phone Number	087 9176264
AFR Returns Contact Fax Number	01 401 8080
Production Volume	0.0
Production Volume Units	0.0
Number of Installations	0
Number of installations	U

Guidance on waste imported/accepted onto site

Number of Operating Hours in Year	
Number of Employees	71
User Feedback/Comments	
Web Address	www.rilta.ie

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

Do you import/accept waste onto your site for onsite treatment (either recovery or disposal activities) ? Yes

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : W0192_2013.xlsm | Return Year : Page 2 of 2

Sheet : Releases to Air

AER Returns Workbook

31/3/2014 10:10

Link to previous years emissions data 4.1 RELEASES TO AIR

Bentin Year 2013

21.011212012

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

A (Accidental) KG/Year F (Fugitive) KG/Year QUANTITY Please enter all quantities in this section in KGs Emission Point 1 T (Total) KG/Year METHOD Method Used Designation or Description M/C/E Method Code Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button RELEASES TO AIR Name POLLUTANT No. Annex II

SECTION B : REMAINING PRTR POLLUTANTS

A (Accidental) KG/Year F (Fugitive) KG/Year QUANTITY Please enter all quantities in this section in KGs Emission Point 1 T (Total) KG/Year METHOD Method Used Designation or Description M/C/E Method Code **RELEASES TO AIR** Name POLLUTANT No. Annex II

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

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

				0	
			F (Fugitive) KG/Year		
T METHOD QUANTITY QUANTITY		(Accidental)	0.0		
	a		al) KG/Year KG	306.1	
			3 T (Tot	122.0	
	the second second		Emission Point		
			Emission Point 2	181.0	
			int 1	31	
			Emission Po		
	THOD	Aethod Used	Designation or Description	Blannual measured result measured by 1000hrs operation	
	MET	A	Method Code	MAB	
	Sec.		M/C/E	-	
	POLLUTANT		Name	tial Ornanie Carbon (se C)	select a row by double-clicking on the Pollutant Name (Column B) then click the delete button
			Pollutant No.	2	ŏ.
				161	

7 9

Additional Data Requested from Landfill operators

0.0 (Total Flaring Capacity) 0.0 (Total Utilising Capacity) Facility Total Capacity m3 per hour NIA Method Used Designation or Description Method Code M/C/E 0.0 or the purposes of the hittonal invertory on Greenhouse Gases, landfill operators are requested to provide aurmary data on landfill gas (Mehane) aread outlinear to the link facilities to accompany the figures for land matter generated. To provide aurmary data on handfill gas (Mehane) masteri to the environment inter (Toda) (Xioy for section A: Saster specific PKTR poludinta above. Pease complete the labe before T (Total) kg/Year Rilta Environmental Limited Total estimated methane generation (as per site model) Methane flared Methane utilized in angines Net methane emission (as reported in Section) A above) Please enter summary data on the quantities of methane flared and / or utilised :Ilijpue

N/A

0.0

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : W0192_2013.xism | Return Year : 2013 |

_
-
-
~
~
~
24.6
<i>a</i> .
-
-
\mathbf{n}
~
1.
- 22.
-
~
~
~
-
100
ന
w w
m
~
-
_
~
2
2
≥
3
≧
3
≥
₹
₽
to V
s to V
is to W
es to W
es to W
ses to W
ses to W
ises to W
ases to W
ases to W
eases to W
eases to W
leases to W
leases to W
eleases to W
eleases to W
leleases to W
Releases to W
: Releases to W
: Releases to W
t : Releases to W
et : Releases to W
et : Releases to W
et : Releases to W
set : Releases to W
eet : Releases to W
eet : Releases to W
neet : Releases to W
heet : Releases to W

31/3/2014 10:10

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

11/01/102/03/11 [PPATR# '200152] Family Name Filta Environments/Limited] Filename '20152_20153/8m [Neur

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATM	TMENT OR	SEWER		Please enter all qu	antities in this se	ection in KGs		
	POLLUTANT		W	ETHOD				QUANTITY	
				Method Used			The second s		
. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total)	KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Yea
				Average measured result					
				multiplied by the discharge					
	Arsenic and compounds (as As)	W	MAB	volume		2.36	2.3	9	0
				Average measured result multiplied by the discharge					
	Chromium and compounds (as Cr)	W	MAB	volume		7.33	7.3	0	0
				Average measured result multiplied by the discharge					
	Copper and compounds (as Cu)	N	MAB	volume		4.49	4.4	0	0
				Average measured result multiplied by the discharge					
	Lead and compounds (as Pb)	S	MAB	volume		0.58	0.51	3 0.	0
				Average measured result multiplied by the discharge					
	Nickel and compounds (as Ni)	N	MAB	volume		5.25	5.2	0	0

SECTION B : REMAINING P	OLLUTANT EMISSIONS (as required in your Licence)							
	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATME	MENT OR SE	EWER		Please enter all quant	tities in this section in KGs		
and the second s	POLLUTANT		METHOD				QUANTITY	A Station of the
			Method L	Used				
Pollutant No.	Name	MICIE N	fethod Code Desi	signation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Aver	liplied by the discharge				
238	Ammonia (as N)	M M	1AB volu	ume	2412	21.79 24121.75	0.0	0.0
			Aver	erage measured result liplied by the discharge				
303	BOD	M M	IAB volu	ume	598	39.64 5989.64	4 0.1	0.0
and the second se			Aver	erage measured result liplied by the discharge				
306	COD	M M	1AB volui	ume	6186	S1.82 61881.84	2 0.1	0.0
10			Ave	erage measured result ltiplied by the discharge				
308	Detergents (as MBAS) M	M W	1AB volu	ume		16.27 16.21	10 2	0.0
			Aver	erage measured result liplied by the discharge				
324	Mineral oils M	M M	Volui volui	ame		7.65 7.62	5 0.1	0.0
			Avel	erage measured result ltiplied by the discharge				
240	Suspended Solids M	M W	IAB volui	ame	231	74.39 2374.35	9 0.1	0.0
			Ave	tiplied by the discharge				
343	Suiphate	M W	IAB volui	ame	180	32.01 1832.01	1 0.1	0.0
			Aver	tiplied by the discharge				
206	Berzene & totuene & vulene (combined)	M M	AB volu	ime		2.13 2.13	3 0.1	0.0

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

Link to previous years emissions data

	ø
	55
	ŝ
1	≻
10	>
0.1	*
	~
	ŝ
	ö.
-8	10
	~
	ā
124	5
- 13	
	=
	5
	č
	£
	¢,
	ø
-01	-
01	
	ω
	ø
	5
- 19	Ø

APROL 2010 Manual Return to art 2010.1 5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRATE VOTUD: FACTORENT & OFFSITE TRANSFERS OF WASTE PLASSE enter all quantities on this sheet in Tonnes

		Quantity (Tonnes per Year)				Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste , Address of Next Destination Facility Non Haz Waste, Address of Recover/Dispose	Name and License / Permit No. and Address of Final Recover / Disposer (HAZARDOLS WASTE ONLY)	Actual Address of Final Destination (e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
European Waste	Hazardous		Description of Waste	Waste Treatme Operatio	nt M/C/E	Method Used	Location of Treatment				
tries 01 05 05	Yes	49.63 0	oil-containing drilling muds and wastes	D8	×	Weighed	Abroad	REVATECH SA	Zoning l'Industrial D'Ehein, B 4480 ENGIS, Belgium	REVATECH SA,Zoning I'Industrial D'Ehein,B 4480 ENGIS,,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium
tries 02 07 04	No	1 181.49 p	naterials unsuitable for consumption or processing	R10	W	Weighed	Abroad	Kompostsysteme Nord GmbH,108ZEB026	Industriepark 6,D-27777, GanderkeseeGermany		
tries 06 01 06	Yes	290.16 0	other acids	R6	Σ	Weighed	Abroad	REVATECH SA.	Zoning l'Industrial D'Ehein, B 4480 ENGIS,, Belgium	REVATECH SA., Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium
tries 06 03 14	ĝ	s 176.96 n	solid salts and solution other than those mentioned in 06 03 11 and 06 03 13	R5	×	Weighed	Abroad	Zimmermann Sonderabfalientsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/ 240406	3-7+31 Gottlieb-Dalmier Strasse, DE 33334, Guterslo,.,Germany		
tries 08 01 11	Yes	51.87 s	vaste paint and varnish containing organic kolvents or other dancerous substances	μ. Έ	Σ	Weighed	Abroad	Afvalstoffen Terminal Moerdiik B.V. 831780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdiik The Netherlands	Arvatsorten Lerminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg Moerdijk Netherlands Moerdijk Netherlands	Industrieterrein - Seaport M152, Vlasweg 124782 PW Moerdisike, Netherdands
tries 09 01 05	Yes	3.79 b	sieach solutions and bleach fixer solutions	R4	۶	Weighed	Abroad	Remondis Production GmbH,WML/0707M01	Brunnenstrasse 138,DE 44536, LunenGermany	Remondis Production GmbH,WML/0707M01, Brun nenstrasse 138,DE 44536,LunenGermany	Brunnenstrasse 138,DE 44536,Lunen.,Germany
tries 10 01 01	Ŷ	467.8 B	ooller Ash	R5	Σ	Weighed	Abroad	Lafarge Cement UK,P0052/04A	29 Sandholes Road.,Cookstown,BT80 9AR,United Kingdom	Lafarge Activité Plâtrene Marcel Demonque,500,Zone du Pôle Technologique Agro Parc,F-84915 Avignon Cedex 9,France	rue Marcel Demonque, 500, Zone du Pole Technologique Agro Parc, F-84915 Avignon Cedex 9, France
tries 10.01.04	Yes	0810	li IV ash and boiler dust	99 22	Z	Weiched	Abroad	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG 240406	3-7+31 Cottlieb-Daimler Strasse, DE 3334, Gutersto, Germany	Zimmermann Sonderabfallentsorgung und Vetwertung & Co KG Fesstoffkonditionierung, 783/ 240406, 3-1-31 Gottliab- animer Krasse, DE 33334 Gutersio. Germanv	3.7+31 Gottlieb-Daimler Strasse,ICE 33334 Gutersio, Germany
tries 11 01 05	Yes	24.24 p	uickling acids	R4	×	Weighed	Abroad	REVATECH SA,	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	REVATECH SA. Zoning l'Industrial D'Ehein, B 4480 ENGIS, Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium
ries 11 01 09	Yes	46.39 d	ludges and filter cakes containing langerous substances	55	Z	Weighed	Abroad	Zimmermann Verwertung & Co KG Fesstofftonditionierung, 783/ 240406	3-7+31 Gottlieb-Daimler Strasse, DE 33334, GulersloGermany	Ammerman Sonderabralentsorgung und Verwertung & Co KG Verwertung & Co KG 246406, 3-1-31 Gottlieb- Daimler Strasse, DE Daimler Strasse, DE Horicim SA 437377764 Buil	3-7+31 Gottlieb-Daimler Strasse, DE 33334,Gutersto., Germany
tries 13 02 08	Yes	1026.93 0	ther engine, gear and lubricating oils	R9	×	Weighed	Abroad	Holcim SA,437977764	Rue des Fabriques,2,Obourg,B7034, Belgium	des Fabriques,2,Obourg,B7034, Belgium SITA	Rue des Fabriques,2,Obourg,B7034, Belgium
tries 13 03 01	Yes	ii 0.0 0.0	nsulating or heat transmission oils containing PCBs	D10	×	Weighted	Abroad	SITA Decontamination, D/PMVC/0 1F28/33629	Westvaartdijk,97, Grimberge n. 1850. Netherlands	Decontamination, D/PMVC/0 1F28/33629, Westvaartdijk, 9 7, Grimbergen, 1850, Netherla nds	Westvaartdijk,97, Grimberge n. 1850. Netherlands

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

Sheet : Treatment Transfers of Waste

AER Returns Workbook

e
5
õ
5-
4
÷
0
2
ŝ
\geq
24

Actual Address of Final Destimation i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)		Shelah Road, Halesowen, B63 3PN, United Kingdom	Brooks LaneMiddlewich,CW10 0JG,United Kingdom	Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk,Netherlands			Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk Netherlands		Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	De Steven, 25, AX Drachten, 9206, Netherlands			Block B,Western Industrial Estate,Caerphiliy,CF83 1XH,United Kingdom
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)		Midland Oil Refinery,GP3135SD,Shelah Road.,Halesowen,B63 3PN,United Kingdom	Control International, EA, Brooks Lane, , Middlewich, CW10 0.0G, United Kingdom Areatoffen Terminal	B., 82/1780,Industrieterrein - B.V. 821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands		Afvalstoffen Terminal	Moerdyk B.V., Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk Netherlands	Afvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands Orion R.V. 18/07/2537 De	Steven, 25, AX Drachten, 9206, Netherlands		PHS Gmin FA Block	B. Western Industrial Estate, Caerphilly, CF83 1XH, United Kingdom
L Haz Waste : Address of Next Destination Facility Non Haz Waste, Address of Recover/Disposer		Shelah Road,Halesowen,B63 3PN,United Kingdom	The Science Park, Brooks Lane , Middlewich, CW10 0JG, United Kingdom	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PVV Moerdijk, The Nethenlands	De Steven, 25, AX Drachten, 9206, Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands	Park,Monasterboice,Co. Louth,Ireland	Block B,Western Industrial Estate,Caerphilly,CF83 1XH,United Kingdom
Haz Waste : Name and Licence/Permit No of Next Destination Facility Mon Haz Waste: Name and Licence/Permit No of Recover/Disposer		Midland Oil Refinery,GP3135SD	Centec International, EA	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Orion B.V., 18/07/2937	Afvalstoffen Terminal Moerdijk B.V.,821780	The Recycling Village Ltd., WP2007/20	PHS Group,EA
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Offsite in Ireland	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	ant M/C/E	Σ	Σ	۶	Σ	Σ	×	Σ	×	×	×	¥	Σ
	Waste Treatme Operati	R9	62	2	R3	R4	R1	Ł	R.	D10	۳. ۲	R4	8
	Description of Waste	mineral-based non-chlorinated insulating and heat transmission oils	other fuels (including mixtures)	other solvents and solvent mixtures	plastic packaging	metallic packaging	absorbents, filter materials (including oil filters not otherwise specified), wping cloths, protective clothing contaminated by dangerous substances	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	oil filters	transformers and capacitors containing PCBs	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	gases in pressure containers (including halons) containing dangerous substances
Quantity (Tonnes per Year)		0.0	67.22	98.87	0.03	0.12	850.06	20.35	21.29	0.0	0.05	0.0	6.95
	e Hazardous	Yes	Yes	Yes	No	oN N	Yes	Ŷ	Yes	Yes	No	No	Yes
	European Wast	ss 13 03 07	ss 13.07.03	is 14 06 03	ss 15.01.02	as 15 01 04	ss 15 02 02	ss 15 02 03	ss 16 01 07	ss 16 02 09	s 16 02 14	y 16 02 14	es 16 05 04
	Transfer Destinat	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	To Other Countrie	Within the Countr	To Other Countrie

| PRTR# : W0192 | Facility Name : Rita Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

	100
	94
	77
	ч,
	π
	- 2
1.5	2
	~
	20
	5
	c
	22
	a
	14
	d'
	25
	77
	-
	ā
	23
10	2
	-
	-
	5
	1
	۶
	H
	-
	n,
	o
	æ
- 14	
- 14	_
	÷
	d:
	2
	Ψ.
	~

3
5
÷
4
5
2
С
5

ctual Address of Final Destimation a. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)		dustrieterrein - Seaport 152,Vlasweg 12.,4782 M Moerdijk,Netherlands	oning l'Industrial D'Ehein,B t80 ENGIS,Belgium	arley Dale Smelter,South arley,Derbyshire,DE4 .P.,United Kingdom	rdanstown Drive,Unit 8,Greenogue Business ark,Rathcoole Co ublin,Ireland					dustrieterrein - Seaport 152,Vlasweg 12,4782 M Moerdijk,Netherlands	ning l'Industrial D'Ehein,B 480 ENGIS,Belgium	sterweute,Ce25541,Bruns titel,Germany	dustriepark 6,D- 777,GanderkeseeGerm yy	dustrieterrein - Seaport 152,Vlasweg 12,4782 M Moerdijk,Netheriands	-76 Hovestrasse,20539 amburg, Germany
Name and License / Permit No. and Address of Final Recoverer / A Disposer (HAZARDOUS WASTE i		Afvalstoffen Terminal Moerdijk B.V.(821780,Industriteterrein - Seaport M152,Vlasweg In 12,4782 PW M 12,4782 PW M PR-VATECH SA Zoning	Pindustrial D'Ehein, B 4480 Zi ENGIS,Belgium HJ Enthoven &	Sons, BL: 5598, Darley Dale Smelter, South Darley, Derbyshire, DE4 D 2LP, United Kingdom 21 Electrical Waste	Ireiand, WFP-DS-09-0012- 01, Jordanstown Drive, Unit Jc 648, Greenogue Business 6- Park, Rathcoole Co P Dublin, Ireland D				Afvalstoffen Terminal Moerdijk	B.V.821780, Industrieterrein - Seaport M152, Vlasweg In 12,4782 PW M Moerdijk, , Netherlands P	Province Structure Structu	Sava Gmon & Co., 1 Osterweute,Ce25541,Bruns O buttel,Germany bu Komposisysteme Nord	GmbH,108ZEB026,Industrie park 6,D- 10 27777,Ganderkesee, Germ 2, any Afvalstoffen Terminal Afvalstoffen Terminal	B.V.,Industrieterrein - Seaport M152,Vlasweg In 12,4782 PW M Moerdijk,,Netherlands P	Terracon GmbH 74-76 Hovestrasse.20539 74 Hamburg Germany Hi
L Haz Waste , Address of Next Destination Facility Non Haz Waste, Address of Recover/Disposer		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Darfey Dale Smeller,South Darfey,Derbyshire,DE4 2LP,United Kingdom	Jordanstown drive, Unit 648 Greenogue Business Park, Rathcoole, Co. Dublin, Ireland	Unit 4 Tinure Business Park,,Monasterboice,Co. Louth,Ireland	Jordanstown drive, Unit 648 Greenogue Business Park,Rathcoole,Co. Dublin Ireland	Unit 4 Linure Business Park,,,Monasterboice,Co. Louth,Ireland		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	1 Osterweute,Ce25541,Bruns buttel,.,Germany	Industriepark 6,D-27777. Ganderkesee,.,Germany	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands	74-76 Hovestrasse,20539 Hamburg,Germany
Haz Waste : Name and Licence/Permit No of Next Destination Facility More Second Second Control Control Licence/Permit No of Recover/Disposer		Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA,	HJ Enthoven & Sons, BL5598	Electrical Waste Ireland, Permit No. WFP-DS- 09-0012-01	The Recycling Village Ltd., WP2007/20	Electrical Waste Ireland, Permit No. WFP-DS- 09-0012-01	The Recycling Village Ltd., WP2007/20		Atvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA.	Sava Gmbh & Co.,	Kompostsysteme Nord GmbH,108ZEB026	Afvalstoffen Terminal Moerdijk B.V.,14/12/4149	Terracon GmbH .
	Location of Treatment	Abroad	Abroad	Abroad	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland		Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	3	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	e ent ion M/C/E	S	Σ	×	¥	×	×	Z		×	M	×	¥	×	¥
	Wast Treatm Operat	Σ	R6	R4	54 14	R4	R4	R4		8	D8	D10	R10	R	ß
antity es per	Description of Waste	laboratory chemicals, consisting of or containing dangerous substances, including 117.54 mixtures of laboratory chemicals	discarded inorganic chemicals consisting of 103.5 or containing dangerous substances	891.22 lead batteries	12.05 NI-Cd batteries	8.06 alkaline batteries (except 16 06 03)	9.4 alkaline batteries (except 16 06 03)	1.16 other batteries and accumulators		aqueous liquid wastes containing 131.91 dangerous substances	aqueous liquid wastes containing 534.74 dangerous substances	aqueous liquid wastes containing 500.55 dangerous substances	aqueous liquid wastes containing 15.63 dangerous substances	1.6 bituminous mixtures containing coal tar	soil and stones containing dangerous 100.64 substances
Que (Tonr	zardous	9	5		5						50				5
	iste Haz	Yes	Yes	Yes	Yes	N	No	Ŋ		Yes	Yes	Yes	Yes	Yes	Yes
	European Wa Code	16 05 06	16 05 07	16 06 01	16 06 02	16 06 04	16 06 04	16 06 05		16 10 01	16 10 01	16 10 01	16 10 01	17 03 01	17 05 03
	Transfer Destination	To Other Countries	To Other Countries	To Other Countries	Within the Country	Within the Country	Within the Country	Within the Country		To Other Countries	To Other Countries	To Other Countries	To Other Countries	To Other Countries	To Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge.xisx | Return Year : 2013 |

Page 3 of 16

Actual Address of Final Destination (e. Final Recevery / Disposal Site (HAZARDOUS WASTE ONLY)			Deponie Reesen GmbH & Co. KG.Johann - Sebastian - Bach - Strabe 60.39288, Burg,Germany	Bimohler Strasse,57a,Grossenaspe,2 4623,Germany			3-7+31 Gottlieb-Daimler Strasse,DE 33334,Guterslo,Germany	Industrieterrein - Seaport M152, Vlasweg 12.,,4782 PW Moerdijk, Netherfands		Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk, Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, Netherlands
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZ-ARDOUS WASTE ONLY)		A there are a second seco	renko veermann Entsorgungfaatna onie Reesen GmbH & Co. KG,Johann - Sebastian - Bach - Strabe 60,39288,Burg,Germany	GEG mbH,EG0108,Bimohler Strasse,57a,Grossenaspe,2 4623,Germany		Zimmermann	Sonderabfallentsorgung und Vetwertung & Co KG Fesstoffkonditionierung,783/ 240406,3-7+31 Gottitab- Daimler Strasse, DE Daimler Strasse, DE Avateroffen Tarmina	Moerdijk. Noerdijk. B. V. 821780.Industrieterrein- B. V. 821780.PW 12.4782.PW Moerdijk., Netherlands	A fundamenta of Terminal	Avaisonen remma Moerdik B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,,,Netherlands	Arvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk.,.Netherlands
. <u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer		Knockharley Landfili,Kentstown,Co. MeathIreland	Deponie Reesen GmbH & Co. KG.Johann-Sebastioan- Bach_Strabe 60,39288,Burg,Germany	Bimohler Strasse,57a,Grossenaspe,2 4623,Germany	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	3-7+31 Gottlieb-Daimler Strasse, DE 33334, Guterslo., Germany	Industrieterrein - Seaport M152, Viasweg 12,4782 PW Moerdig,, The Netherfands Desoto Road Vest Bank	Dock Estate, Widnes, WA8 0PB, United Kingdom Acragar, , Mountmellick, Co. Laois, Ireland	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands
Haz Waste : Name and Licence/Permit No of Next Destination Facility Mon Haz Waste : Name and Licence/Permit No of Recover/Disposer		Greenstar,W0178-02	Heiko Neumann Entsorgungfachbetrieb	GEG mbH,EG0108	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Zimmermann Sonderabfallentsorgung und Verweitung & Co KG Fesstoffkonditionierung,783/ 240406	Afvalstoffen Terminal Moerdijk B.V.,821780	Granox Ltd.,CP3230BE A1 Metal,WMP007d	Afvalstoffen Terminal Moerdijk B. V.,821780	Atvalstoffen Terminal Moerdijk B.V.,821780
	Location of Treatment	Offsite in Ireland	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad Offsite in Ireland	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed Weighed	Weighed	Weighed
	Waste Treatment Operation M/C/E	W	ž	M	ž	W	Z	¥	τ 4 Σ Σ	4 X	¥
Per Per	Description of Waste	soil and stones other than those mentioned 4.86 in 17 05 03	4.33 insulation materials containing asbestos D	construction materials containing asbestos D	medicines other than those mentioned in 18 3.54 01 08	medicines other than those mentioned in 18 7.87 02 07	sludges from physico/chemical treatment 1.74 containing dangerous substances	sludges from physico/chemical treatment 7.42 containing dangerous substances sudges from biological treatment of	inductrial waste water other than those R 3.32 mentioned in 19 08 11 0.0 ferrous metal R	fluorescent tubes and other mercury- 2.15 containing waste	paint, inks, adhesives and resins containing 6.44 dangerous substances
Quanti (Tonnes Year)	Hazardous	40 274	o es	fes 453	9	æ ç	es 1	es	10 10	es	és 20
	European Waste Code	17 05 04	17 06 01	17 06 05	18 01 09	18 02 08	9 02 05	19 02 05	19 08 12 h	00121	.0 01 27
	Transfer Destination	Within the Country 1	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1 Within the Country 1	To Other Countries 2	To Other Countries 2

| PRTR# : W0192 | Facility Name : Ritta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

31/3/2014 10:13

AER Returns Workbook

Sheet ; Treatment Transfers of Waste

any

Sheet : Treatment Transfers of Waste

AER Returns Workbook

2.7
57
0
-
4
-
0
N
3
-
3

ste	Quantity (Tonnes per Year)		Wast	ent	Method Used	Location of	LeancePartinition of Next Destination Tacility Haz Waste. Name and LeancePartinit No of Recover/Disposer	Haz Waste , Address of Nort Destination Facility Non Haz Waste , Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE Disposer (HAZARDOUS WASTE	Actual Address of Final Destination 1.e. Final Recovery Ubsposal Site (HAZARDOUS WASTE ONLY)
ardou	ns,	Description of waste	Operati		E Method Used	Ireatment			Nahisan Gmhh & Co A-	
	pa 119.5 da	int, inks, adhesives and resins containin ngerous substances	g K3	×	Weighed	Abroad	Nehlsen Gmbh & Co. A- 4187HH	Neiderlassung Nehlsen- Plimp, Bernebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	4 1871H.Neiderfassung Nehlsen- Nenlsen- Brimp, Bernebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	Neiderlassung Nehlsen- Plimp, Berüebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany
	pa 24.12 da	int, inks, adhesives and resins containin, ingerous substances	g R1	W	Weighed	Abroad	Recyfuel.	Engis,B4480,Belgium	Recyfuel., Engis,, B4480,B elgium	Engis,B4480,Belgium
	pa 0.67 dai	int, inks, adhesives and resins containin ngerous substances	0 D10	M	Weighed	Abroad	Sava Gmbh & Co,.	1 Osterweute,Ce25541,Bruns buttel,.,Germany	Sava Gmbh & Co1 Osterweute,Ce25541,Bruns buttel,.,Germany	1 Osterweute,Ce25541,Bruns buttelGermany
	wa 3.32 ex	stes from mineral metalliferous cavation	5	S	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands		
s	0.46 oil-	-containing drilling muds and wastes	£	Σ	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V. 821780	industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Arvatstoffen i erminal Moerdijk B.V,821736.Industrieterrein Seaport M152.Vlasweg 12,4782 PW MoerdijkNetherlands	Industrieterrein - Seaport M152, Vlasweg 12., 4782 PVV Moerdijk, Netherlands
es	1541.87 oil-	-containing drilling muds and wastes	R9	×	Weighed	Abroad	Nov Brandt Environmental Division	Aberdeen,,Scotland,Unite d Kingdom	Nov branut EnvironmentalAberdeen, Scotland,United Kingdom	Aberdeen,,Scotland,Unite d Kingdom
No	ma 1.16 pro	aterials unsuitable for consumption or ocessing	R1	×	Weighed	Abroad	Atvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands		
07	52.46 wa	istes from spirits distillation	R	×	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Nehlsen Gmbh & Co.,A-	
se	noi 1.1 pre	n-halogenated organic wood sservatives	ß	Σ	Weighed	Abroad	Nehlsen Gmbh & CoA- 4187HH	Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	4 107 mm, weldenassung Nehlsen- Plimp, Bertiebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	Neiderlassung Nehlsen- Pilimp, Betriebsstatte Brennen, Louis-Krages Strasse 10, Brenen, Germany
0	3.04 Wa	istes not otherwise specified	D8	W	Weighed	Abroad	REVATECH SA.	4480 ENGIS,, Belgium		
Yes	6.91 sul	phunc acid and sulphurous acid	88	×	Weighed	Abroad	REVATECH SA.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	REVATECH SA., Zoning l'Industrial D'Ehein, B 4480 ENGIS.,, Belgium	Zoning l'Industrial D'Ehein,E 4480 ENGIS,Belgium
Yes	1.98 hyc	drochloric acid	R6	M	Weighed	Abroad	REVATECH SA.,	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	FINdustrial D'Enein, B 4480 ENGIS, Belgium	Zoning l'Industrial D'Ehein,E 4480 ENGISBelgium
fes	22.93 nitr	ric acid and nitrous acid	R6	¥	Weighed	Abroad	REVATECH SA.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	FINdustrial D'Enein, B 4480 ENGIS, Belgium	Zoning l'Industrial D'Ehein,E 4480 ENGIS,Belgium
9	ew 61.0	etes nut athanuisa snavifiad	ā]	Afvalstoffen Terminal	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW		

| PRTR# : W0192 | Facility Name : Ritta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

Sheet : Treatment Transfers of Waste

AER Returns Workbook

3
17
0
-
4
-
0
2
3
-
3

Actual Address of Final Destination 4. Final Recovery / Disposal Sile (HAZARDOUS WASTE ONLY)		Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGISBelgium			industrieterrein - Seaport M152,Vlasweg 124782 PV Moerdijk, Netherlands		Industrieterrein - Seaport M152,Vlasweg 12.,.4782 PVV Moerdijk, Nethertands	Industrieterrein - Seaport M152, Viasweg 12.,,4782 PVM Moerdijk, Netherlands	industrieterrein - Seaport M152,Vlasweg 12,,4782 PW Moerdijk, Netherlands	Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk, Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,,4782 PVV Moerdijk, Netherlands	Engis,,B4480,Belgium
Name and License / Permit No. and Address of Final Recovery / Disposer (HAZARDOUS WASTE OnLY)		REVATECH SA,Zoning I'Industrial D'Ehein, B 4480 ENGIS,Belgium	REVATECH SA., Zoning l'Industrial D'Ehein, B 4480 ENGIS, Belgium		Afvalstoffen Terminal	Moerdijk B. V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands		Moerdijk Moerdijk B.V.82/780.Industrieterein - Seaport M152.Vlasweg Moerdijk, .Netherfands Atvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrain - Seaport M122,Vlasweg 12,4782 PW MoerdijkNethertands Afvalstoffen Terminal	Meercijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 Meercijk,,Netherlands Afvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands Afvalstoffen Terminal	Moerdijk B. V, 821780, Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk, ., Netherlands	Recyfuel,Engis,B4480,B elgium
Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Dispose		Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PVV Moerdijk., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PVV Moerdijk The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,,B4480,Belgium
Licence/Permit No of Next Destination Facility Nor Haz Waste: Name and Licence/Permit No of Recover/Disposar		REVATECH SA.	REVATECH SA,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V. 821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V. 82.1780	Afvalstoffen Terminal Moerdijk B.V.,821780	Atvalstoffen Terminal Moerdijk B.V. 821780	Atvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,.
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	Vaste atment eration M/C/E	Σ	×	¥	¥	Σ	Σ	¥	¥	×	×	Σ	Σ
	Tre Description of Waste	4 sodium and potassium hydroxide R6	2 other bases R6	4 wastes not otherwise specified	5 carbon black R1	other organic solvents, washing liquids and 1 mother liquors R1	waste containing silicones other than those 1 mentioned in 07 02 16	I aqueous washing liquids and mother liquors R1	other organic solvents, washing liquids and R1	2 other filter cakes and spent absorbents R1	other organic solvents, washing liquids and R1	other organic solvents, washing liquids and mother liquors R1	waste paint and varnish containing organic solvents or other dangerous substances R1
Quantity (Tonnes per Year)	snop	32.5	2.5	0.1	0.0	ö	0.0	6. 0	0.0	0	16.5	4.0	52.15
	pean Waste Code Hazard	04 Yes)5 Yes	0N 66)3 No	04 Yes	17 No	11 Yes	A Yes	Q Yes	14 Yes	4 Yes	1 Yes
	Euro Transfer Destination	To Other Countries 06 02 0	To Other Countries 06 02 0	To Other Countries 06 08 9	To Other Countries 06 13 0	To Other Countries 07 01 0	To Other Countries 07 02 1	To Other Countries 07 03 0	To Other Countries 07 03 0	To Other Countries 07 03 1	To Other Countries 07 05 0	To Other Countries 07 06 0	To Other Countries 08 01 1

Page 6 of 16

| PRTR# : W0192 | Facility Name : Rita Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

Waste
ŏ
nsfers
t Trai
tmen
Trea
1.5.5
Sheet

3	
1	
2	
4	
÷	
2	
5	
2	
ò	

Actual Address of Final Destination Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE CNU.Y)		Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	Industrieterrein - Seaport M152, Vlasweg 12., 4782 PVV Moerdijk, Netherlands			Industriteterrein - Seaport M152,Vlasweg 12,,4782 PW Moerdijk, Netherlands	Engis,B4480,Belgium			Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk, Netherlands	EngisB4480,Belgium	Industrielerrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk, Netherlands		Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk,Netherhands
Name and License / Permit No. and Addrees of Final Recoverst / Disposer (HAZARDOUS WASTE Disposer (HAZARDOUS WASTE		Afvalstoffen Terminal Moerdijk B.V.821780,Industrieterrein - Seaport M.152,Vlasweg 12,4782 PW 12,4782 PW Afvalstoffen Terminal Moerdijk	B.V,321780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands		Afvalstoffen Terminal Moerdijk	B. V,821780, Industrieterrein - Seaport M152, Vlasweg 12,4782, PW Moerdijk, "Netherlands Recritiual Encis B4480 B	elgium		Afvalstoffen Terminal Moerdijk	B.V.821780.industrieterrein - Seaport M152.Vlasweg 12,4782 PW MoerdijkNetherlands	RecyfuelEngisB4480,B elgium Afvalstoffen Terminal Moerdijk	B.V.821780,industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Afvalstoffan Tarminal	Moerdijk. Noerdijk. B.V,821780,Industrieterrein- B.V,821780,Industrieterrein- 12,4782 PW Moerdijk.,Netherlands
L Haz Weste : Address of Next Destination Facility Non Haz Waste : Address of RecorderDisposer		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, , The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,B4480,Belgium	Engis,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,,B4480,Belgium	industrielerrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., The Netherlands
Licence/Fermit No of Next Destination Facility No of Next Haz Wastis, hame and Licence/Fermit No of Recover/Disposer		Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel.	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel.	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	Waste reatment Dperation M/C/E	¥	W	×	W	M	W	W	×	¥	¥	×	W	۶
	T Description of Waste	sludges from paint or varnish containing organic solvents or other dangerous substances	aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19	aqueous liquid waste containing ink	waste ink containing dangerous substances R1	waste ink containing dangerous substances R1	waste rink ouner unan unose menuoneu in vo 03 12 R1	waste ink other than those mentioned in 08 03 12	waste printing toner containing dangerous substances R1	organic solvents or other dangerous R1 substances	waste adhesives and sealants containing organic solvents or other dangerous substances waste adhesives and sealants other than	those mentioned in 08 04 09 R1	aqueous sludges containing adhesives or seatants containing organic solvents or other dangerous substances
Quantity (Tonnes per Year)	tous	4.13	0.43	0.43	¢,	23.63	14.31	1.24	0.13	0.06	0.75	8.86	5.2	3.68
	tion Code Hazarc	es 08.01.13 Yes	es 08.01.19 Yes	es 08 01 20 No	es 08.03.08 No	es 08 03 12 Yes	es 08 03 12 Yes	es 08 03 13 No	es 08 03 13 No	es 08 03 17 Yes	es 08 04 09 Yes	es 08.04.09 Yes	es 08 04 10 No	es 08.04.13 Yes
	Transfer Destina	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri	To Other Countri

| PRTR# : W0192 | Facility Name : Ritta Environmental Limited | Filename : Trade Effluent Discharge.xlsx | Return Year : 2013 |

Page 7 of 16

te
Vas
of \
BLS
nsf
Tra
ent
atm
Trea
·
Sheet
~

3
Σ.
0
1
4
0
3
9
_

Actual Address of Final Destination (e. Final Recovery / Disposal She (HAZARDOUS WASTE ONLY)				Brunnenstrasse 138,DE 44536,Lunen,Germany	Brunnenstrasse 138,DE 44536,Lunen,Germany	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk,Netherlands		16-22 Muelheimer Strasse,68219,Mannheim, Germany		Industrieterrein - Seaport M152, Vlasweg 12.,4782 PVV Moerdijk, Netherlands	Industrieterrein - Seaport M152,Vlasweg 124782 PVV Moerdijk,Netherlands	Industrheterrein - Seaport M152, Vlasweg 12,,4782 PW Moerdijk, Netherlands	
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)				Remondis Production GmbH,WML/0707M01,Brun nenstrasse 138,DE 14536,Lunen, Germany	Remondis Production GmbH, WML/0707M01, Brun nenstrasse 138, DE 44536, Lunen Germany	Recyfuel, "Engis, B4480, B elgium Afvalstoffen Terminal Moordiik	wooruja B.V,821780,industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands		HB Chemicals AG., 10-22 Muelheimer Strasse,68219,Mannheim Germany	Afvalstoffen Terminal	Moerdijk. B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands Afvalstoffen Terminal	Moerdiyk B.V. 221780, Industrieterrein - Seaport M152, Vlasweg 12,4762 PW Moerdijk, , Netherlands Afvalstoffen Terminal Moerdijk	B.V.821780 Industrieterrein Seaport M152.Vlasweg 12,4782 PW Moerdijk., Netherlands	
Haz Waste Address of Next Destination Facility Non Haz Waste Address of Recover/Disposer		Engis,,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands	Brunnenstrasse 138,DE 44536, Lunen,,Germany	Brunnenstrasse 138,DE 44536, LunenGermany	Engis,,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	16-22 Muelheimer Strasse,68219,Mannheim, Germany	3-7+31 Gottlieb-Daimler Strasse, DE 33334, Guterslo,.,Germany	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk, The Netherlands	Industriaterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk., The Netherlands Zoning Ilhdustrial D'Erein, B	4480 ENGIS,,Belgium
Licence/Permit No of Next Destination Facility Non Haz Waste, Name and Licence/Permit No of Recover/Disposer	the works	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780	Remondis Production GmbH,WML/0707M01	Remondis Production GmbH,WML/0707M01	Recyfuel,.	Afvalstoffen Terminal Moerdijk B. V. 821780	Afvalstoffen Terminal Moerdijk B.V.,821780	TIB Chemicals AG,	Limmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung, 783/ 240406	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA,.
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	ant on M/C/E	W	¥	Σ	×	×	Σ	¥	۶	×	×	Σ	Σ	W
	Treatm	R1	R1	R4	R4	R	5	R	R4	R5	ž	ž	R	RG
	Description of Waste	wastes not otherwise specified	wastes not otherwise specified	water-based developer and activator solutions	fixed solutions	bottom ash, slag and boiler dust from co- incineration containing dangerous substances	bottom ash, slag and boiler dust from co- incineration containing dangerous substances	waste concrete and concrete sludge	pickling acids	siudges and filler cakes other than those mentioned in 11 01 09	aqueous rinsing liquids containing dangerous substances	waste containing cyanide	solid wastes from gas treatment	non-ferrous metal filings and turnings
Quantity (Tonnes per Year)		1.15	1.16	0.48	35.99	0.13	0.49	0.06	23.84	0 0 0	0.14	1.26	2.62	3.93
	Hazardous	No	°N N	Yes	Yes	Yes	Yes	Ŷ	Yes	Ŷ	Yes	Yes	Yes	No
	European Waste Code	08 04 99	08 04 99	09 01 01	09 01 04	10 01 14	10 01 14	10 13 14	11 01 05	11 01 10	11 01 11	11 03 01	11 05 03	12 01 03
	ransfer Destination	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge.xisx | Return Year : 2013 |

Page 8 of 16

Actual Address of Final Destination 1.6. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)		1 Osterweute,Ce25541,Bruns buttel,Germany	Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	Engis,,B4480,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	Engis,B4480,Belgium	Engis, B4480, Belgium	ndustrieterrein - Seaport M152,Vlasweg 12.,4782 PVV Moerdijk,Netherlands	Industrieterrein - Seaport M152, Vlasweg 12., 4782 PW Moerdijk, Netherlands	Shelah Road., Halesowen,B63 3PN, United Kingdom	ndustrieterrein - Seaport M152,Vlasweg 12.,,4782 PVV Moerdijk,Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGISBelgium	Engis,,B4480,Belgium	ndustrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	Brooks Lane.,,Middlewich,CW10 0JG,United Kingdom
Name and License / Permit No. and Address of Final Recoverer / Disposed (HAZARDOUS WASTE ONLY)		Sava Gmbh & Co.,,1 Osterweute,Ce25541,Bruns buttel,.,Germany Afvalstoffen Terminal Moenritik	B. 80.91 Seaport M152, Vlasweg 12, 4782, PW Moerdijk, , , Netherlands Recordel Endis	elgium REVATECH SA, Zoning	l'Industrial D'Ehein, B 4480 ENGIS, Belgium Recyfuel, Engis, B4480, B	elgium Recyfuel. ,Engis. , ,B4480,B	elgium Afvalstoffen Terminal	Moerdijk B.V.821780.Industrieterrein - B.2782 PW Moerdijk, Netherlands Afvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands	wituang Ci Refirery (GP3135SD, Shelah Road, , Halesowen, B63 3PN, United Kingdom Afvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,,Netherlands PEVATECH SA Zoning	Findustrial D'Ehein, B 4480 ENGIS, Belgium Recréteil Findis, B4480 B	elgium Afvalstoffen Terminal	Moerdijk B.V.821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands	International, EA, Brooks Lane, , Middlewich, CW10 0JG, United Kingdom
 Haz Waste : Address of Next Destination Facility Num Haz Waste, Address of Recover/Disposer 		1 Osterweute,Ce25541,Bruns buttel,.,Germany	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Engis,,B4480,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Engis,B4480,Belgium	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Shelah Road,Halesowen,B63 3PN,United Kingdom	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk, The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Engis,B4480,Belgium	Industneterrein - Seaport M152, Vilasweg 12,4782 PW Moerdijk The Netherlands	The Science Park, Brooks Lane , Middlewich, CW10 0JG, United Kingdom
Haz Waste : Name and Licence/Permit No of Next Destination Fadity Noi Haz Waste : Name and Licenter/Permit No of Recover/Disposer		Sava Gmbh & Co.	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel.	REVATECH SA,	Recyfuel,	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V. 821780	Afvalstoffen Terminal Moerdijk B.V., 821780	Midland Oil Refinery,GP3135SD	Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA.	Recyfuel,.	Atvalstoffen Terminal Moerdijk B.V.,821780	Centec International,EA
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	E Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	ent ion M/C/	Σ	Σ	W	×	M	W	Σ	Σ	Σ	×	M	¥	×	×
	Was Treatr Opera	D10	ž	R1	R6	R1	Ł			R9	۲. ۲	D8	R	R.	R9
	Description of Waste	machining emulsions and solutions free of halogens	machining emulsions and solutions free of machining emulsions and solutions free of machining emulsions and solutions free of	halogens	aqueous washing liquids mineral-based chlorinated engine, gear and	Iubricating oils mineral-based non-chlorinated engine, gear	and lubricating oils	mineral-based non-chlorinated engine, gear and lubricating oils	synthetic engine, gear and lubricating oils	other engine, gear and lubricating oils	other engine, gear and lubricating oils	other engine, gear and lubricating oils	other engine, gear and lubricating oils	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01	petrol
Quantity (Tonnes per Year)		183.45	0.96	14.57	1.14	0.42	16.0	1.61	0.34	76.94	4.99	4.21	4.38	0.49	3.7
	Hazardous	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	European Waste Code	12 01 09	2 01 09	12 01 09	12 03 01	13 02 04	13 02 05	3 02 05	3 02 06	3 02 08	3 02 08	3 02 08	13 02 08	3 03 06	3 07 02
	Transfer Destination	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries	To Other Countries 1	To Other Countries	To Other Countries	To Other Countries	To Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge xitsx | Return Year : 2013 |

31/3/2014 10:13

AER Returns Workbook

Sheet : Treatment Transfers of Waste

Page 9 of 16

-
ti
00
2
4
0
S
e
S
a
E
-
5
Ĕ
H.
æ
F
2.0
to
ð
뉴
J)

(2)	
5	
÷	
4	
00	
10	
1	

d Actual Address of Final Destination (.e. Final Recovery / Disposal Site (.HAZARDOLS WASTE ONLY)			industrieterrein - Seaport M152,Vlasweg 12.,4782 PVV Moerdijk,Netherlands	osterweute,Ce25541,Bruns buttei,Germany	Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands		- Industrieterrein - Seaport M152.Vlasweg 12.,4782 PVM Moerdijk, Netherfands	Neiderfassung Nehlsen- Pilmp, Betriesstatte Permen, Louis-Krages Strasse 10, Bremen, Germany	Neiderlassung Nehlsen- Plimp, Betriebsstatte	Bremen, Louis-Krages Strasse 10, Bremen, Germany	Engis,,B4480,Belgium			Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands
Name and License / Permit No. an Address of Final Recoverer / Disposer (HZARDOUS WASTE ONLY)			Afvalstoffen Terminal Moerdijk B.V.821780.Industrieterrein Seaport M152.Vlasweg 12,4782 PW MoerdijkNethertands	Sava Gmpn & Co1 Osterweute,Ce25541,Bruns buttel,Germany Afvalstoffen Terminal	Moerdijk B. V,821780.Industrieterrein Seaport M152.Vlasweg 12,4782 PW Moerdijk.,.Netherlands		Afvalstoffen Terminal Moerdijk B.V.827 PR0.Industneterrein Seeport M152.Vlasweg 12.4782 PW Moerdijk., Netherlands Moerdijk., Metherlands Moerdijk., Antherlands	Nehlsen- Piimp, Betriebsstatte Brennen, Louis-Krages Strases 10, Brennen, Germany 10, Brennen, Germany	4.10/ nm, Neiderlassung Nehlsen- Plimp, Betriebsstatte	Bremen, Louis-Krages Strasse 10, Bremen, Germany	elgium		A 6-ristoffers Tammard	Moerdijk Moerdijk B.V.82/180,Industrieterrein Seaport M152,Vlasweg 12,4782 PW Moerdijk.,,Netherlands
Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer			Industriaterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	1 Osterweute,Ce25541,Bruns buttel,Germany	Industrieterrein - Seaport M152, Vlasweg 12, 4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands	Industrialerrein - Seaport M152, Vlasweg 12,4782 PVV Moerdijk., The Netherlands	Neiderlassung Nehlsen- Plimp, Betriebsstatte Brennen, Louis-Krages Strasse 10, Bremen, Germany	Neiderlassung Nehlsen- Plimp, Betriebsstatte	Bremen, Louis-Krages Strasse 10, Bremen, Germany	Engis,,B4480,Belgium Neiderlassung Nehlsen-	Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Engis,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12,4782 PVV Moerdijk, The Netherlands
Haz Waste : Name and Licence/Pernit No of Next Destination Facility Non Haz Waste. Name and Licence/Pernit No of Recover/Disposer			Afvalstoffen Terminal Moerdijk B.V. 821780	Sava Gmbh & Co.	Afvalstoffen Terminal Moerdijk B. V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Nehlsen Gmbh & Co.,A- 4187HH		Nehlsen Gmbh & Co.,A- 4187HH	Recyfuel,	Nehlsen Gmbh & Co.,A- 4187HH	Recyfuel,.	Alvatstoffen Terminal Moerdijk B.V.,821780
	a antion of	Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad		Abroad	Abroad	Abroad	Abroad	Abroad
Method Used		Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed		Weighed	Weighed	Weighed	Weighed	Weighed
		M/C/E	×	×	×	×	×	Z		×	×	×	¥	×
	Waste	peration		0										
1	F.	= 0	R	ō	ε. Έ	8	R.	R3		by R3	by R3	s s	R3	R
Quantity Tonnes per Year)		Description of Waste	0.08 other fuels (including mixtures)	16.41 other solvents and solvent mixtures	sludges or solid wastes containing other 3.77 solvents	0.07 alass packaqinq	packaging containing residues of or 49.95 contaminated by dangerous substance	packaging containing residues of or 24.41 contaminated by dangerous substances	absorbents, filter materials (including oil	filters not otherwise specified), wiping cloths, protective dothing contaminated 244.77 dangerous substances absorbents, filter materials (including oil filters not otherwise specified), wiping	cloths, protective clothing contaminated 66.26 dangerous substances	absorbents, filler materials, wiping doth and protective clothing other than those 5.69 mentioned in 15.02.02 absorbents, filler materials, wiping cloth	and protective clothing other than those 8.01 mentioned in 15.02 02	0.24 brake fluids
C		Hazardous	Yes	Yes	Yes	Ŷ	Yes	Kes		Yes	Yes	Q	No	Kes.
		European wa	13 07 03	14 06 03	14 06 05	15 01 07	15 01 10	15 01 10		15 02 02	15 02 02	15 02 03	15 02 03	16 01 13
		Fransfer Destination	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries		o Other Countries	o Other Countries	o Other Countries	o Other Countries	o Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

Page 10 of 16

e
10
m
5
s
4
0
10
4
ഇ
55
c
07
-
1
7
5
č
£
ίū
(D)
1
-
**
10
3
2

Actual Address of Final Destination 4. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)				Plimp,Betriebsstatte	Bremen, Louis-Krages	Sutasse 10, Bremen, Germany		Neiderlassung Nehlsen-	Plimp, Betriebsstatte	Strasse	10,Bremen,Germany	Osterweute,Ce25541,Bruns huttel Germany			M152, Vlasweg 12, ,4782	PW Moerdijk, Netherlands		Engis,,B4480,Belgium		Industrieterrein - Seaport	M152, Vlasweg 12, .,4782	PW Moerdijk, Netherlands	Im Emscherbruch 11 45600 Herten Germany	function of the second state	Engis,B4480,Belgium			Industrieterrein - Seaport	M152, Vlasweg 12., 4782	PW MOEIGIJK, Nemenands		Block B,Western Industrial	Estate,Caerphilly,CF83 1XH,United Kingdom	Zoning l'Industrial D'Ehein,B	4480 ENGIS, Belgium
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE Disposer (HAZARDOUS WASTE			Nehlsen Gmbh & Co.,A- 4187HH,Neiderlassung	Plimp,Betriebsstatte	Bremen, Louis-Krages	Strasse 10, Bremen, Germany	Nehlsen Gmbh & Co. A- 4187HH Neiderlassund	Nehisen-	Plimp, Betriebsstatte	Strasse	10,Bremen,Germany Sava Gmbh & Co1	Osterweute,Ce25541,Bruns huttel Germany	Afvalstoffen Terminal	Moerdijk B.V.821780, Industrieterrein -	Seaport M152, Vlasweg 12,4782 PVV	MoerdijkNetherlands	Recyfuel, Engis,, B4480, B	elgium Afvalstoffen Terminal	Moerdijk	B.V,14/12/4149,Industrieterr ein - Seaport M152,Vlasweg	12,4782 PW	Moerdijk, Netherlands AGR mbh - RZR Herten, Im	Emscherbruch	Recyfuel, Engis, B4480,B	elgium		Afvalstoffen Terminal Moerdijk	B.V,14/12/4149,Industrieterr ein - Seaport M152 Vlaswed	12,4782 PW	Moeralk,,,Nemenanas		PHS Group,EA, Block B, Western Industrial	Estate, Caerphilly, CF83 1XH, United Kingdom	REVALECT SA 201119 l'Industrial D'Ehein, B 4480	ENGIS,,Belgium
Haz Waste Address of Next Destination Facility Non Haz Waste Address of Recover[Diaposet				Plimp, Betriebsstatte	Bremen, Louis-Krages	otrasse 10,Bremen,Germany		Neiderlassung Nehlsen-	Plimp, Betriebsstatte	Strasse	10,Bremen,Germany	Osterweute,Ce25541,Bruns			M152, Vlasweg 12, 4782 PW	Moerdijk The Netherlands		Engis,,B4480,Belgium		Industrieterrein - Seaport	M152, Vlasweg 12, 4782 PW	Moerdijk,., The Netherlands	Im Emscherbruch	(initiation") initiation (concert) i	EngisB4480,Belgium	4480 ENGISBelgium		Industrieterrein - Seaport	M152, Vlasweg 12,4782 PW	Moeralyk,, the Nemenands	Osterweute,Ce25541,Bruns buttel,.,Germany	Block B,Western Industrial	Estate,Caerphilly,CF83 1XH,United Kingdom	Zoning l'Industrial D'Ehein,B	4480 ENGISBelgium
Lizz-Waster Name and Licence/Permit No of Next Destination Facility Maz-Waster Name and Licence/Permit No of Recover/Deposer						4187HH				Nehlsen Gmbh & Co., A-	4187HH	Sava Gmbh & Co			Afvalstoffen Terminal	Moerdijk B.V.,821780		Recyfuel,			Afvalstoffen Terminal	Moerdijk B.V.,821780	ACD whh D7D Horton		Recyfuel,.	REVATECH SA			Afvalstoffen Terminal	Moerdijk B.V., 821780	Sava Gmbh & Co,		PHS Group,EA		REVATECH SA,.
	Location of	Treatment				Abroad					Abroad	Abroad				Abroad		Abroad				Abroad		VDICAU	Abroad	Abroad				Abroad	Abroad		Abroad		Abroad
Method Used		Method Used				Weighed					Weighed	Mainhard	202			Weighed		Weighed				Weighed	Mainhad	nalifiam	Weighed	Weighed				Weighed	Weighed		Weighed		Weighed
	of the second	on M/C/E				¥					×	W				W		z			;	×		Ξ	W	W				Σ	×		W		W
	Waste	Operati				R1					ß	ŝ	2			R1		£			i	R1	010	2	R1	R6			i	¥	D10		R3		R6
Quantity (Tonnes per Year)		Description of Waste				0.24 brake fluids				antifreeze fluids containing dangerous	0.31 substances	antifreeze fluids containing dangerous			antifreeze fluids containing dangerous	1.43 substances	metrioned in 16 01 07 to 16 01 11 and 16	0.79 01 13 and 16 01 14			inorganic wastes containing dangerous	8.51 substances	inorganic wastes containing dangerous	unorganices inorganic wastes containing dangerous	0.07 substances	1.2 mentioned in 16 03 03			organic wastes containing dangerous	0.03 substances	organic wastes other than those mentioned 0.64 in 16 03 05	laboratory chemicals, consisting of or	containing dangerous substances, including 0.01 mixtures of laboratory chemicals	laboratory chemicals, consisting or or containing dangerous substances, includinc	15.62 mixtures of laboratory chemicals
	te	Hazardous				Yes					Yes	Vae	5			Yes		Yes				Yes	Vac	SDI	Yes	No				Yes	No		Yes		Yes
	European Was	Code				16 01 13					16 01 14	16 D1 14				16 01 14		16 01 21				16 03 03	16 03 03	20 20 21	16 03 03	16 03 04				16 03 05	16 03 06		16 05 06		16 05 06
		ransfer Destination				o Other Countries					o Other Countries	o Other Countries				o Other Countries		o Other Countries				o Other Countries	Chord Constraint		o Other Countries	o Other Countries				o Other Countries	o Other Countries		o Other Countries		o Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge.xlsx | Return Year : 2013 |

Page 11 of 16

3

ö
9
4.
4
100
0
N
m
5
-
3

Actual Address of Final Destination (a. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)		1 Osterweute,Ce25541,Bruns buttel,,Germany	Engis,,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12., 4782 PW Moerdijk, Netherlands	Industriepark 6,D- 27777,GanderkeseeGerm any	osterweute,Ce25541,Bruns buttelGermany	Brunnenstrasse 138,DE 44536,LunenGermany	Neiderfassung Nehlsen- Pirmp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Engis,B4480,Belgium		Brooks Lane,,,Middlewich,CW10 0JG, United Kingdom	Engis,B4480,Belgium	Engis,,B4480,Belgium
Name and Licentes / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)		Sava Gmbh & Co.,1 Osterweute,Ce25541,Bruns buttel,.,Germany	Recyfuel, "Engis,B4480,B elgium Afvalstoffen Terminal	Moerdijk Moerdijk 1.4/12/12/149, Industrietern ein - Seaport M152, Vlasweg 12.4782 PV Moerdijk,Netherlands Kompostysterne Nord GmbH.108ZEB026. Industrie GmbH.108ZEB026. Industrie	park 6,D- 27777,GanderkeseeGerm any	osterweute, Ce25541, Bruns buttel,Germany	GmbH,WML0700M01,Brun GmbH,WML0707M01,Brun nenstrasse 138,DE 44536,Lunen,Germany Nehlsen Gmbh & Co.,A- Nehlsen Gmbh & Co.,A-	Nehlsen- Plimp, Betriebsstatte Plimp, Betriebsstatte Bremen, Louis-Krages Strasse Afvalstoffen Terminal	Moerdijk B.V. 14/12/4149,Industrieter ein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., Netherfands	reverse of the second s	elgium		Centec International, EA, Brooks LaneMiddlewich, CW10 OJG, United Kingdom	Recyfluel, Engls, 54460, 5 elgium	Recytuel, Engls, 154400.10 elgium
L <u>Haz Waste</u> . Address of Next Destination Facility <u>Non Haz Waste</u> . Address of Recover/Disposer		1 Osterweute,Ce25541,Bruns buttel,.,Germany	Engis,,B4480,Belgium	Industrieterrein - Seaport M152, Viasweg 12, 4782 PVV Moerdijk The Netherlands	Industriepark 6,D-27777, GanderkeseeGermany	1 Osterweute,Ce25541,Bruns buttel,Germany	Brunnenstrasse 138,DE 44536, Lunen,Germany	Neiderlassung Nehlsen- Plimp, Betriebsstatte Brernen, Louis-Krages Strasse 10, Brernen, Germany	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	EngisB4480,Belgium 1 Osterweute,Ce25541,Bruns buttelGermany	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands	The Science Park, Brooks Lane , Middlewich, CW10 0JG, United Kingdom	Engis,B4480,Belgium	Engis,,B4480,Belgium
LicencePermit No of Next Destination Facility <u>Haz Weste</u> : Name and LicencePermit No of Recover/Disposer		Sava Gmbh & Co.	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821760	Kompostsysteme Nord GmbH,108ZEB026	Sava Gmbh & Co,.	Remondis Production GmbH,WML/0707M01	Nehlsen Gmbh & Co.,A- 4187HH	Afvaistoffen Terminal Moerdijk B.V., 821780	REVATECH SA,.	Recyfuel, Sava Gmbh & Co,	Afvalstoffen Terminal Moerdijk B.V.,821780	Centec International, EA	Recyfuel,	Recyfuel,
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	ion M/C/E	×	×	Σ	W	×	×	M	×	M	N N	¥	M	W	W
	Treatm	D10	ŗ.	ž	R10	D10	R4	52 S	12	R6	R1 D10	F.	R9	R1	R1
y Der	Description of Waste	laboratory chemicals, consisting of or containing dangerous substances, including .56 mixtures of laboratory chemicals	eacoratory chemicals, consisting or or containing dangerous substances, including 6.3 mixtures of laboratory chemicals	discarded inorganic chemicals consisting of	discarded inorganic chemicals consisting of .71 or containing dangerous substances	discarded inorganic chemicals consisting of	discarded inorganic chemicals consisting of	discarded inorganic chemicals consisting of	discarded organic chemicals consisting of 00 or containing dangerous substances	discarded organic chemicals consisting of 26 or containing dangerous substances discarded organic chemicals consisting of	.15 or containing dangerous substances discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 83 08	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 .65 08	.91 wastes containing oil	.06 wastes containing oil	wastes containing other dangerous .42 substances
Quanti (Tonnes Year)	azardous	10	s	ŭ	2	5	2	8	3	3	5		0	s.	19
	European Waste Code	16 05 06 Ye	16 05 06 Ye	16 05 07 Ye	16 05 07 Ye	16 05 07 Ye	16 05 07 Ye	IS 05 07 Ye	IS 05 08	16 05 08 Ye	15 05 08 Ye	16 05 09 No	16 07 08 Ye	16 07 08 Ye.	16 07 09 Ye:
	Transfer Destination	Fo Other Countries 1	Fo Other Countries 1	o Other Countries	o Other Countries 1	o Other Countries	o Other Countries 1	o Other Countries 1	o Other Countries 1	o Other Countries 1	o Other Countries 1 o Other Countries 1	o Other Countries 1	To Other Countries 1	To Other Countries 1	To Other Countries 1

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

Page 12 of 16

Waste	
ŧ,	
Transfers	
Sheet : Treatment	

3
5
ö
T
4
÷
0
2
en.
-
3

	1													
Actual Address of Final Destination Le. Final Recovery (Disposal Ste (HAZARDOUS WASTE ONLY)	Zoning l'Industrial D'Ehein,B 4480 ENGISBelgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,,4782 PW Moerdijk,Netherlands	EngisB4480,Belgium	Brunnenstrasse 138,DE 44536,Lunen,Germany	Engis,,.B4480,Belgium	Engis,,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12.,,4782 PW Moerdijk,Netherlands	Industrieterrein - Seaport M152, Vlasweg 12., 4782 PVV Moerdijk, Netherlands			EngisB4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12.,4782 PW Moerdijk,Netherlands	
Name and Licente / Permit No. and Address of Final Recover / Disposer (HAZARDOUS WASTE ONLY)	REVATECH SA., Zoning "Industrial D'Ehein, B 4480 ENGIS., , Belgium Arvalsoffen Terminal	Moerdigk B.V,14/12/4149,Industrieterr B.V,14/12/4149,Industrieterr ein - Seaport M152,Vlasweg 12,4782 PW Moerdigk,,Netherlands Afvalstoffen Terminal	Moerdijk B.V.14/12/4/149,Industrieterr ein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, "Netherlands	KecytuelEngis	Remondis Production GmbH,WML/0707M01,Brun nenstrasse 138,DE 14536,Lunen.,Germany	elgium	Recytuel, "Engis,, B4480, B elgium Afvalstoffen Terminal	Moerdijk B.V.14/12/4149,Industrieter ein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands Afvalstöffen Terminal	Moerdijk B.V.14/121439,Industrieterr B.Seaport M152,Vlasweg 12,4782 PW Moerdijk,,,Nethertands		Daminal Ensis Daaloo D	Afvalstoffen Terminal	Moerdijk B. V, 14/12/4149, Industrieterr ein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., Netherlands	
Haz Wagte, Address of Next Destination Facility Non Haz Waster, Address of Recover/Disposer	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands	Industrielerrein - Seaport M152 Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,B4480,Belgium	Brunnenstrasse 138,DE 44536, Lunen., Cermany	Engis,B4480,Belgium	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., The Netherlands Ballynagran., Co.	MeathIreland Industrieterrein = Seaport	M152,Vlasweg 12,4782 PVV Moerdijk The Netherlands	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, The Netherlands
Liencoeffermit No of Next Destination Facility Ha <u>2.Wast</u> e. Nent and Lieonce/Permit No of Recover/Disposer	REVATECH SA,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V., 821780	Recyfuel,	Remondis Production GmbH,WML/0707M01	Recyfuel,	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,621780	Greenstar, W0178-02	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780
Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Offsite in Ireland	Abroad	Abroad	Abroad	Abroad
Aethod Used Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
nt M/C/E	Σ	Σ	×	W	×	W	¥	Σ	z	W	¥	¥	×	Σ
Waste Treatme Operatic	ß	ž	Ł	R1	R4	R1	R1	Æ	۶	R5	5	R1	٤	8 R1
initiy es per ar) Description of Waste	wastes containing other dangerous 9.53 substances	wastes containing other dangerous 24.15 substances	oxidising substances, not otherwise 3.0 specified	aqueous liquid wastes containing 55.89 dangerous substances	aqueous liquid wastes containing 0.37 dengerous substances	0.69 bituminous mixtures containing coal tar	soil and stones containing dangerous 0.83 substances	soil and stones containing dangerous 2.04 substances	soil and stones containing dangerous 0.34 substances soil and stones other than those mentioned	820.04 in 17 05 03	0.09 sharps (except 18 01 03)	cnemicais consisting or or containing 2.12 dangerous substances	chemicals consisting of or containing 35.5 dangerous substances	chemicals other than those mentioned in 1, 4,22 01 06
Qué (Tonn Yé Hazardous	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	°N N
European Waste	07 09	07 09	09 04	10.01	10 01	03 01	05 03	05 03	05 03	05 04	01 01	01 06	01.06	01 07
Easter Destination	o Other Countries 16	o Other Countries 16	o Other Countries 16.	o Other Countries 16	o Other Countries 16	o Other Countries 17	o Other Countries 17.	o Other Countries 171	o Other Countries 17	Nithin the Country 17	o Other Countries 18	To Other Countries 18	o Other Countries 18 u	o Other Countries 18.

Page 13 of 16

| PRTR# : W0192 | Facility Name : Rita Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |
- 444
. 61.3
m
-
_
-
_
~
64
\sim
- 64
•
-
ा dh
- T
-
-
(TT
ഷ
04.C
-
•
100.00
-
1.000
- 62.2
-
-
-
- 60
- 14
- 613
- 44
- 67
-
-
-
a
æ
a
Be
ee
leet
heet
heet
Sheet

AER Returns Workbook

-
õ
1
4
0
1
2
è

Actual Address of Final Destination Le. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)			Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium		Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany			thenberg 1 ,D 23923,Seimsdorf.,Germany	Industrieterrein - Seaport M152,Vlasweg 12.,4782 PVV Moerdijk,Netherlands		Engis,,B4480,Belgium	Industrieterrein - Seaport M152, Vlasweg 12.,4782 PVV Moerdijk, Netherlands		EngisB4480,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Beigium
Name and License / Permit No. and Address of Final Recoversi / Disposer (HAZARDOUS WASTE ONLY)			KEVA I ECH SA., Zoning l'Industrial D'Ehein, B 4480 ENGIS, Belgium	Nehlsen Gmbh & Co. A-	4187HH. Neiderlassung Nehlsen- Pilmp,Betriebsstatte Bremen,Louis-Krages Strasse 10.Bremen,Germany			IAG Ihlenberger Abfallentsorgungsgesellscha ft mbH.,.Ihenberg 1, D 23923,Seimsdorf.,,Germany Afvalstoffen Terminal	Moerdijk B.V. 14/12/4149 Industrieterr ein - Seaport M152,Vlasweg 12,4782 PW MoerdijkNetherlands		Recytuel,Engls,	Moerdijk B. V. 14/12/4149, Industrieterr ein - Seaport M152, Vlasweg 12,4782 PW Moerdijk, , Netherlands		RecytuelEngis	FINdustrial D'Ehein, B 4480 ENGIS,, Belgium
n Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGISBelgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Cermany	a Ilhenberg 1,D 23923,Selmsdorf,Germany	Industrieterrein - Seaport M152, Viasweg 12,4782 PW Moerdijk., The Netherlands	a Ilhenberg 1,D 23923,Selmsdorf.,Germany	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	EngisB4480,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium
Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste, Name and Licenter/Permit No of Recover/Disposer		Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA.	REVATECH SA,	Nehlsen Gmbh & Co.,A- 4187HH	IAG Ihlenberger Abfallentsorgungsgesellsch ft mbH,	Afvalstoffen Terminal Moerdijk B.V.,821780	IAG Ihlenberger Abfallentsorgungsgesellsch ft.mbH.,	Afvaistoffen Terminal Moerdijk B.V., 821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,	REVATECH SA,
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Method Used	/E Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	aste tment ration M/C	Σ	Μ	¥	×	×	×	×	×	Σ	Z	Þ	Σ	W	Σ
	Trea	ñ	RG	18 R6	ß	DS	ž	8	R	R	20 R1	20 R1	an R1	R1	R6
antity tes per ear	Description of Waste	0.13 sharps except (18 02 02)	chemicals consisting of or containing 0.82 dangerous substances	medicines other than those mentioned in 0.97 02 07	sludges from physico/chemical treatment 8.94 containing dangerous substances	stabilised wastes other than those 5.97 mentioned in 19 03 04	3.45 spent activated carbon	other wastes (including mixtures of materials) from mechanical treatment of 9.87 waste containing dangerous substances	3.5 pesticides	0.69 edible oil and fat	oil and fat other than those mentioned in 2.42 01 25	oil and fat other than those mentioned in 0.02 01 25	paint, inks, adhesives and resins other th 0.07 those mentioned in 20 01 27	detergents containing dangerous 0.56 substances	detergents containing dangerous 26.4 substances
ġ Ę	Hazardous	Š	Yes	No	és Kes	No	Ŷ	Yes	Yes	No	Yes	Yes	ę	Yes	Yes
	European Waste Code	8 02 01	8 02 05	8 02 08	9 02 05	9 03 05	9 09 04	9 12 11	0 01 19	0 01 25	0 01 26	0 01 26	0 01 28	0 01 29	0 01 29
	ransfer Destination	o Other Countries 1	o Other Countries 1	o Other Countries	o Other Countries	o Other Countries 1	o Other Countries	o Other Countries	o Other Countries 2	o Other Countries 2	o Other Countries 2	o Other Countries 2	o Other Countries 2	o Other Countries 2	o Other Countries 2

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge.xisx | Return Year : 2013 |

Page 14 of 16

and Actual Address of Final Destination TE i.e. Final Recovery Ulsposal Site (HAZARDOUS WASTE ONLY)		terr veg Industrieterrein - Seaport M152,Vlasweg 12.,,4782 PVV Moerdijk, Netherlands				terr reg Industrieterrein - Seaport M152,Vlasweg 12,,4782 PVV Moerdijk,Netherlands	0 Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	cha Ihenberg 1 ,D iny 23923,SelmsdorfGermany	terr reg Industrieterrein - Seaport M152,Vlasweg 12.,,4782 PVV Moerdijk,Netherfands).B	Engis,,B4480,Belgium	Neiderlassung Nehlsen- Piimp,Berlebsstatte Bremen,Louis-Krages Strasse 10, Bremen, Germany	EngisB4480,Belgium	terr reg Industrieterrein - Seaport M152,Vlasweg 12,,4782 PW Moerdijk,Netherlands		
Name and License / Permit No. Address of Final Recoverer Disposer (HAZARDOUS WAS ONLY)		Afvalstoffen Terminal Moerdijk B. V. 14/12/4149, Industriet ein - Seaport M152, Viasw 12, 4782 PW Moerdijk, , Netherlands			Afvalstoffen Terminal	Moerdijk B.V, 14/12/4149, Industriel ein - Seaport M152, Vlasw 12, 4782 PVV Moerdijk Netherlands	KEVATECH SA, Zoning I'Industrial D'Ehein,B 448 ENGIS, Belgium	IAG Ihlenberger Abfallentsorgungsgesells. ft mbH., Ihenberg 1, D 23923, Selmsdorf., Germa Afvalstoffen Terminal	Moerdijk B.V.14/12/4149, Industriet ein - Seaport M152, Vlasw 12,4782 PW Moerdijk., Netherlands Recrfuel, Engis, B4480	elgium Nehlsen Gmhh & Co A-	4187HH. Neiderlassung Nehlsen Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	elgium Afvalstoffen Terminal	B.V.14/12/4149, Industriel ein - Seaport M152, Vlasw 12,4782, PW Moerdijk., Netherlands		
L Haz Waste . Address of Next Destination Facility Non Haz Waste : Address of Recover/Disposer		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	in der occieram 1,86529,Schrobenhausen,., germany	Block B, Western Industrial Estate, Caerphilly, CF83 1XH, United Kingdom	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	l Ilhenberg 1,D 23923,Selmsdorf,.,Germany	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,,B4480,Belgium	Neiderfassung Nehlsen- Pinim; Jachrebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	Engis,B4480,Belgium	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Engis,,B4480,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium
Lizz Wastie: Name and Licence/Permit No of Next Destination Facility Hzz Wissie: Name and Licence/Permit No of Recover/Disposer		Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	BAUER Umweit Gmbh	PHS Group,EA	Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA,	IAG Ihlenberger Abfallentsorgungsgesellscha ft.mbH.,	Afvalstoffen Terminal Moerdijk B.V.,821780	Recyfuel,	Nehlsen Gmbh & Co.,A- 4187HH	Recyfuel,	Afvalstoffen Terminal Moerdijk B.V., 821780	Recyfuel.	REVATECH SA,.
	Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad
Aethod Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
-	e ent on M/C/E	Σ	W	W	M	×	×	×	×	W	Σ	W	×	W	W
	Wast Treatme Operati	ž	20 R1	d R5	R3	ž	R6	DS	٤	D8	ŝ	R1	£	R1	R6
	Description of Waste	detergents containing dangerous substances	medicines other than those mentioned in 01.31	other fractions other than those mentione in 19 10 05	waste paint and varnish other than those mentioned in 08 01 11	sludges and filler cakes containing dangerous substances	sludges and filter cakes containing dangerous substances	sludges and filler cakes containing dangerous substances	interceptor sludges	interceptor sludges	mterceptor sludges	interceptor sludges	fuel oil and diesel	aqueous liquid wastes other than those mentioned in 16 10 01	aqueous liquid wastes other than those mentioned in 16 10 01
Quantity (Tonnes per Year)		21.57	1.62	1243.0	0.03	2.98	14.24	25.47	26.9	33.16	2.79	2.02	11.19	18.62	115.01
	Hazardous	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	ransfer Destination Code) Other Countries 20 01 29) Other Countries 20 01 32	Other Countries 19 10 06) Other Countries 08 01 12) Other Countries 11 01 08	Other Countries 11 01 09) Other Countries 11 01 09	Other Countries 13 05 03	o Other Countries 13 05 03) Other Countries 13 05 03	o Other Countries 13 05 03) Other Countries 13 07 01	o Other Countries 16 10 02	other Countries 16 10 02

| PRTR# : W0192 | Facility Name : Ritta Environmental Limited | Filename : Trade Effluent Discharge xisx | Return Year : 2013 |

31/3/2014 10:13

AER Returns Workbook

Sheet : Treatment Transfers of Waste

Page 15 of 16

#
d
a
1
s
ù.
C
2
g
2
2
U
C
ñ
С
⊢
1
7
ā
2
c
+
G
9
2
÷
a
¢
2
(1
ω.

AER Returns Workbook

Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)		74-76 Hovestrasse,20539 Hamburg, Germany		Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium				
Name and Leonee / Permit No. and Address of Final Recovers / Disposer (HAZARDOUS WASTE ONLY)		Terracon GmbH 74-76 Hovestrasse,20539 Hamburg Germany		REVATECH SA, Zoning l'Industrial D'Ehein, B 4480 ENGIS, Belgium				
. <u>Haz Waste</u> , Address of Next Destination Facility <u>Non Haz Waste</u> , Address of Recover/Disposer		74-76 Hovestrasse,20539 Hamburg,,Germany	Acragar, , Mountmellick, Co. Laois, Ireland	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Preston Street, Manchester, Manchesi er, M188DB, United Kingdom Cook House, Brunel	Ct, Newark, NG242FB, United Kingdom Pigeon House	Road,Ringsend, "Dublin 4, Ireland	
Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Licence/Permit No of Recover/Disposar		Terracon GmbH ,.	A1 Metal, WMP007d	REVATECH SA	Delta Containers Direct Ltd.,	Global Recycling Solutions Ltd.,	Ringsend WWTW,.	
	Location of Treatment	Abroad	Offsite in Ireland	Abroad	Abroad	Abroad	Offsite in Ireland	
Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	
	M/C/E	×	W	¥	Σ	W	¥	
	Waste Treatment Operation	80	24	08	33	33	98	
Quantity Fonnes per Yean	Description of Waste	wastes marked as hazardous, partly (20) 2859.71 stabilised	900.0 ferrous metal	aqueous liquid wastes containing 27.56 dangerous substances	83.36 metallic packaging	20.78 metallic packaging	44450.0 wastes not otherwise specified	
E	azardous	SE	0	S	0	0	0	
	European Waste Code	19 03 04 Ye	19 12 02 No	16 10 01 Ye	15 01 04 No	15 01 04 N	19 02 99 N	
	Transfer Destination	To Other Countries	Within the Country	To Other Countries	To Other Countries	To Other Countries	Within the Country	

Select a row by double clearing the Genurption of Waise then clear the defeat burtan

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : Trade Effluent Discharge.xisx | Return Year : 2013 |



[PRTR#_W0192] Facility Name_Rita Environmental Limited | Filenarize W0192_2012.xis.[Return Year_2012]

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2012

1. FACILITY IDENTIFICATION

1. FACILITY IDENTIFICATION	
Parent Company Name	Rilta Environmental Limited
Facility Name	Rilta Environmental Limited
PRTR Identification Number	W0192
Licence Number	W0192-03

Waste or IPPC Classes of Activity	
No.	class_name
	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
4.13	produced. Blending or mixture prior to submission to any activity referred to in
3.11	a preceding paragraph of this Schedule.
3.12	preceding paragraph of this Schedule.
3.13 3.7	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.2	transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.6	Recovery of components used for pollution abatement.
4.8	Oil re-refining or other re-uses of oil.
Address 1	Block 402, Grant's Drive
Address 2	Greenogue Business Park
Address 3	Rathcoole
Address 4	County Dublin
	Dublin
Country	Ireland
Coordinates of Location	-8.48281 51.8695
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	Facility 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	68
User Feedback/Comments	

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : W0192_2012.xls | Return Year : 2010 + 1 of 2

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) ?	

Sheet : Releases to Air

Link to previous years emissions data 4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

And the second se	RELEASES TO AIR		Please enter all quantitie	s in this section in KGs		A NAME OF A DATE
	POLLUTANT	METHOD			QUANTITY	
		Method Used				
No. Annex II	Name	M/C/E Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			0	0	0.0	0.0
	 A transmission of the state of					

	RELEASES TO AIR			Please enter all quantitie	es in this section in KGs		
	POLLUTANT	W	AETHOD			QUANTITY	
			Method Used			Approximation of the second	
No. Annex II	Name	M/C/E Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				C		0.0	C

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

	RELEASES IO AIN	The second		Licese cirici an Anannina			and the other distances of the local distance		
	POLLUTANT	ME	THOD			The second s	and the second se	QUANTITY	
			Method Used						
Pollutant No.	Name	M/C/E Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
	Total Organic Carbon (as C)	C MAB	biannual measured result measured by 1000hrs operation	4.0	27.5	155.0	186.5	5 0.0	0.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button								

Additional Data Requested from Landfill operators

fill: e enter summary data on the tities of methane flared and / or od	Rilla Environmental Limited			Metho	od Used	4	
	T (Total) kg/Year	W	VICIE	Method Code	Designation or Description	Facility Total Capacity m3 per hour	
al estimated methane generation (as pe site model		0.0				NIA	
Methane flared		0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s		0.0				0.0	(Total Utilising Capacity)
lethane emission (as reported in Section		0.0				N/A	

Sheet : Releases to Wastewater or Sewer

AER Returns Workbook

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS	OFFORTE TOANGEED OF DOI 111ANTS DESTINED FOD WASTE WATED THEAT	MENT OR	SEMER	No. of Street, or Stre	Please enter all quanti	ties in this section in KG		ALC: NOT THE REAL PROPERTY OF	100
	OFFSILE INMUSTER OF FOLLOLAWIS DESTINED FOR WASTE-WALEN INCAU		ME	THOD			QUANTITY		
				Method Used					
No. Annex II	Name	MICIE	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)	KG/Year F (Fugitive)	KG/Year
				Average measured result					
				multiplied by the					
17	Arsenic and compounds (as As)	M	MAB	discharged volume		.75	1.75	0.0	0.0
				Average measured result					
				multiplied by the					
10	Chromium and compounds (as Cr)	M	MAB	discharged volume	1	1.07	4.07	0.0	0.0
2				Average measured result					
				multiplied by the					
20	Copper and compounds (as Cu)	W	MAB	discharged volume		3.5	3.5	0.0	0.0
				Average measured result					
				multiplied by the					
23	Lead and compounds (as Pb)	W	MAB	discharged volume		17	1.17	0.0	0.0
				Average measured result					
				multiplied by the					
22	Nickel and compounds (as Ni)	W	MAB	discharged volume	~	3.16	8.16	0.0	0.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button								

ECTION B : REMAINING POL	LUTANT EMISSIONS (as required in your Licence) OFESITE TRANSFER OF POLLITANTS DESTINED FOR WASTE-WATER TREATM	MENT OR	SEWER	STATES AND ADDRESS OF THE OWNER.	Please enter all quanti	ties in this section in KG	S	The Party of the P	
	POLEUTANT		IM	THOD			QUANTITY		
				Method Used					
ollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/	ear F (Fugitive) KG/Yea	1
				Average measured result					
				multiplied by the					
03	CCB	M	MAB	discharged volume	464	13.7 464	43.7	0.0	0
				Average measured result					
				multiplied by the					
38	Ammonia (as N)	W	MAB	discharged volume	1194	14.3 1194	44.3	0.0	0
				Average measured result					
				multiplied by the					
06	Benzene & toluene & xviene (combined)	M	MAB	discharged volume		3.56	3.56	0.0	0
				Average measured result					
				multiplied by the					ŝ
06	COD	M	MAB	discharged volume	3996	31.4 399	81.4	0.0	0
				Average measured result					
				multiplied by the				: 	0.50
08	Detergents (as MBAS)	W	MAB	discharged volume	80	1.57 8.	1.57	0.0	0
				Average measured result					
				multiplied by the					3
24	Mineral oils	M	MAB	discharged volume		1.17	1.17	0.0	0
				Average measured result					
				multiplied by the					3
40	Suspended Solids	W	MAB	discharged volume	23.	13.1 23	13.1	0.0	0
				Average measured result					
				multiplied by the					1
43	Sulphate	W	MAB	discharged volume	1730	0.47 1730	0.47	0.0	0

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

f Waste	
ers o	
Transf	
Treatment	
Sheet :	

AER Returns Workbook

- ULI
F
in
1
-
5
5
0
10
~~~~
11.
ш
LL.
S
Z
2
2
1
-
111
1
-
S
L
11
0
-
. 00
2
ш
1
E
2
ΩĽ
1
·μ
-
0
3
5
0

48	site (Y)			8,0					≥	0	B,n	۶Ľ	e	34,
	Actual Address of Fmal Destin i.e. Fmal Recevery / Disposal: (HAZARDOUS WASTE ONL			Zoning l'Industrial D'Ehei 4480 ENGIS,Belgium		Unit 12,Dales Industrial Estate,Peterhead,AB42 3JF,United Kingdom	Industrieterrein - Seapor M152,Vlasweg 12.,4782 PW Moerdijk,Netherland	Brunnenstrasse 138,DE 44536,Lunen.,Germany	3-7+31 Gottlieb-Daimler Strasse, DE 33334, Guterslo,., Germar	rue Marcel Demonque,500,Zone du Põle Technologique Agr Parc,F-84915 Avignon Cedex 9,France	Zoning l'Industrial D'Ehe 4480 ENGIS,Belgium	3-7+31 Gottlieb-Daimler Strasse, DE 33334, Guterslo,,, Germa	Westvaartdijk,97,Grimb⊧ n,1850,Netherlands	Rue des Fabriques,2,Obourg,B70 Beloium
	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)			REVATECH SA,,,Zoning I'Industrial D'Ehein,B 4480 ENGIS,,Belgium		TWMA Ltd., EA, Unit 12, Dales Industrial Estate, Peterhead, AB42 3JF, United Kingdom Atvatstoffen Terminal	Moerdijk B. V. 821780. Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk., Netherlands	Remonals Production GmbH,WML/0707M01,Brun nenstrasse 138,DE 74536,LunenGermany	Sommerurant Verwertung & Co KG Verwertung & Co KG Fessioffkonditionierung, 783/ 24046,3-7-31 Gottlieb- Daimler Strasse, DE 33334, Guterslo Germany	Lafarge Activité Plâtre,rue Marcel Demonque,500,Zone du Pôle Technologique Agro Parc,F-84915 Avignon Cedex 9,France	REVATECH SA., Zoning l'Industrial D'Ehein, B 4480 ENGIS,, Belgium	Sonderabfallentsorgung und Verwertung & Co KG Fessioffkonditionierung, 783/ 240406,3-7431 Gottlieb- Daimler Strasse, DE Daimler Strasse, DE 33334, Guterslo, Germany	BILA Decontamination, D/PMVC/0 1F28/33629, Westvaartdijk, 9 7, Grimbergen, 1850, Netherla nds	des Fabriques,2,0bourg,87034, Belnium
	Haz Waste : Address of Next Destination Facility Non Haz Waste, Address of Recover/Disposer	2	Industriepark 6,D-27777, Ganderkesee,Germany	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	3-7+31 Gottlieb-Daimler Strasse, DE 33334, Guterslo, , Germany	Unit 12, Dales Industrial Estate, Peterhead, AB42 3JF, United Kingdom	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands	Brunnenstrasse 138,DE 44536, Lunen,.,Germany	3-7+31 Gottlleb-Daimler Strasse, DE 33334, Guterslo, Germany	29 Sandholes Road., Cookstown, BT80 9AR, United Kingdom	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	3-7+31 Gottlieb-Daimler Strasse, DE 33334, GutersioGermany	Westvaardijk,97,Grimberge n,1850,Netherlands	Rue des Fabriques,2,Obourg,B7034,
	Haz Waste : Name and LicencerPermit No of Next Destination Facility Haz Waste Name and LicencerPermit No of Recover/Disposer		Kompostsysteme Nord GmbH,108ZEB026	REVATECH SA.	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/ 240406	TWMA,EA	Afvalstoffen Terminal Moerdijk B.V.,821780	Remondis Production GmbH,WML/0707M01	Zimmermann Sonderabrählentisorgung und Verwertung & Co KG Fesstoffkonditionierung,783/ 240406	Lafarge Cement UK P0052/04A	REVATECH SA.	Zimmermann Zimmermann Sonderaballentsorgung und Verwertung & Co KG Fesstoffkonditionierung, 783/ 240406	SITA Decontamination, D/PMVC/0 1F28/33629	RATETOTOR AN ALLER
		Location of Treatment	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	Abroad	
	Method Used	Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Mainhad	Weighed	Weighed	Weighed	
		M/C/E	×	Σ	×	Σ	×	Σ	Σ	Σ	Σ	×	×	:
		Waste Treatment Operation	210	9	ي پ	. <u>6</u>	2	24	S.	r.	84	22 C	010	2
All quantities on this sheet in Tonnes		Description of Waste	materials unsuitable for consumption or processing	other acids	solid selts and solution other than those mentioned in 06 03 11 and 06 03 13	oil-containing drilling muds and wastes	waste paint and vamish containing organic solvents or other dangerous substances	bleach solutions and bleach fixer solutions	oil fly ash and boiler dust	μ 	pickling acids	sludges and filler cakes containing dangerous substances	insulating or heat transmission oils containing PCBs	1. The second
Please enter a	Quantity (Tonnes per Year)		187.36	283.84	0 581	433.0	497.18	94.68	11.86	0.000	82.0	35.38	11.82	0 0 0
		Hazardous	No	Yes	Q	Yes	Yes	Yes	ses Yes	, and a second se	Yes	Yes	Yes	
		, European Waste	02 07 04	06 01 06	06.03.14	01 05 05	08 01 11	09 01 05	10 01 04	10,000	11 01 05	11 01 09	13 03 01	
		Transfer Destination	To Other Countries	To Other Countries	Po Other Countries	To Other Countries	To Other Countries	To Other Countries	To Other Countries		To Other Countries	To Other Countries	To Other Countries	

Sheet : Treatment Transfers of Waste

AER Returns Workbook

Actual Address of Final Destination I.e. Final Recovery / Disposal Site	(HAZARDOUS WASTE ONLY)		Industriaterrain - Seanort	M152,Vlasweg 12,4782 PW Moerdijk,Netherlands			Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands			Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk,Netherlands	Zoning l'Industrial D'Ehein,E 4480 ENGIS,,Belgium	Darley Dale Smelter, South Darley, Derbyshire, DE4		Unit 4 Tinure Business ParkMonasterboice,Co.	Louth, Ireland				Industrieterrein - Seaport M152,Vlasweg 124782 PW Moerdijk,Netherlands	Zoning l'Industrial D'Ehein,E 4480 ENGIS,Belgium 1	Osterweute, Ce25541, Bruns buttel, Germany	74-76 Hovestrasse,20539 Hamburg ,, Germany
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE	(JNO)		Afvalstoffen Terminal Moerdijk B.V,821780, Industrieterrein -	MoerdijkNetherlands	10	Afvalstoffen Terminal	woerujk B.V.,.Industrieterrein - Seaport M152,Vlasweg 12,4782 P.W MoerdijkNetherlands	A for a first from The section of	Moerdijk B V 821780 Industrieterrein -	Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands	Findustrial D'Ehein, B 4480 ENGIS,, Belgium	HJ Enthoven & Sons, BL5598, Darley Dale Smeller, South Darley, Derbyshire, DE4	The Recycling Village	Tinure Business ParkMonasterboice.Co.	Louth, Ireland			Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein -	Seaport M152, Vlasweg 12,4782 PW Moerdijk., Netherlands DEVATECU SA 700100	FINDUSTRIED DE LEN DA 1480 ENGIS,Belgium Sava Gmbh & Co. 1	Osterweute,Ce25541,Bruns buttelGermany Terracon GmhH 74-76	Hovestrasse,20539 Hamburg, Germany
Haz Waste - Address of Naxt Destination Facility Non Haz Waste Address of	Recover/Disposer		Inductionation Connect	M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Acragar,Mountmellick,Co, Laois,Ireland		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk., The Netherlands Jordanstown drive. Unit 648	Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,Belgium	Darley Dale Smelter, South Darley, Derbyshire, DE4	ZLP, United Kingaom	Unit 4 Tinure Business ParkMonasterboice.Co.	Louth,Ireland Unit 4 Tinure Business	Park., Monasterboice, Co. Louth, Ireland Unit 4 Tinure Business	Park.,Monasterboice,Co. Louth,Ireland	14 15 16 16	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Zoning l'Industrial D'Ehein,B 4480 ENGIS,,Belgium	Osterweute, Ce25541, Bruns buttel,., Germany	74-76 Hovestrasse,20539 Hamburg,Germany
Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste Name and Licence/Permit No of	Recover/Disposer			Afvalstoffen Terminal Moerdiik B.V.,821780	A1 Metal,WMP007d		Afvalstoffen Terminal Moerdijk B.V.,821780	Electrical Waste Ireland,Permit No. WFP-DS- 09-0012-01		Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA.,	HJ Enthoven &	Sons, BL2238	The Recycling Village Ltd.	WP2007/20	The Recycling Village Ltd., WP2007/20	The Recycling Village Ltd., WP2007/20		Afvalstoffen Terminal Moerdijk B.V.,821780	REVATECH SA	Sava Gmbh & Co.,	Terracon GmbH
		Location of Treatment		Abroad	Offsite in Ireland		Abroad	Offsite in Ireland		Abroad	Abroad		Abroad		Offsite in Ireland	Offsite in Ireland	Offsite in Ireland		Abroad	Abroad	Abroad	Abroad
	Method Used	Method Used		Weighed	Weighed		Weighed	Weighed		Weighed	Weighed		Weighed		Weighed	Weighed	Weighed		Weighed	Weighed	Weighed	Weighed
		nt M/C/E	-	M	M		M	W		Σ	W	a	¥.		۶	Σ	¥		Σ	W	M	W
	Waste	Treatme		R1	R4		۲. ۲	R4		8	R6		R4		R4	R4	R4		D8	D8	D8	D5
Quantity Transe per	Year)	Description of Waste		258.66 other solvents and solvent mixtures	3.5 metallic packaping		absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by 56.16 dangerous substances	discarded equipment other than those 1.14 mentioned in 16 02 09 to 16 02 13		laboratory chemicals, consisting of or containing dangerous substances, including 60.21 mixtures of laboratory chemicals	discarded inorganic chemicals consisting of 72.12 or containing dangerous substances		5239.1 lead batteries		13.5 Ni-Cd batteries	20.0 alkaline batteries (except 16 06 03)	1,0 other batteries and accumulators		aqueous líquid wastes containing 49.0 dangerous substances	aqueous liquid wastes containing 424.3 dangerous substances	aqueous liquid wastes containing 398.4 dangerous substances	soil and stones containing dangerous 1367.0 substances
		lazardous		(es	0		es	07		(es	(es		res		res	ę	0		ŕes	Yes	ŕes	Yes
		European Waste Code		14 06 03	15 01 04		15 02 02	16 02 14		16.05.06	16 05 07		16 06 01		16 06 02	16.06.04	16 06 05		16 10 01	16 10 01	16 10 01	17 05 03
		Transfer Destination		To Other Countries 1	Within the Country		To Other Countries 1	Within the Country 1		To Other Countries 1	To Other Countries 1		To Other Countries		Within the Country 1	Within the Country	Within the Country 1		To Other Countries	To Other Countries 1	To Other Countries	To Other Countries

| PRTR# : W0192 | Facility Name : Rilta Environmental Limited | Filename : W0192_2012.xls | Return Year : 2012 |

Page 2 of 4

Sheet : Treatment Transfers of Waste

AER Returns Workbook

22
-
-7
3
-
0
2
ŝ
00
N

		-														
Actual Address of Final Destination Le. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)					Blackpark, Kilkenny Rd, Athy, Co. Kildare, Ireland	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,Netherlands	Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	Brooks Lane., Middlewich, CW10 0JG, United Kingdom		Monery, Crossdoney, Co. Cavan., Ireland	De Steven,25,AX Drachten,9206,Netherlands		Block B,Western Industrial Estate,Caenphilty,CF83 1XH,United Kingdom	Z.I. De Port	Jerome,.,Lillebonne,76170,F rance	Industrieterrein - Seaport M152,Vlasweg 12,,4782 PVV Moerdijk, Netherlands
Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)					Irish Lamp Recycling., Blackpark, Kilken ny Rd, Alhy, Co. Kildare, Ireland Afuatoffen Terminal	With the second	H 18/1HI, Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany Canteo:	International, EA, Brooks Lane., Middlewich, CW10 0JG, United Kingdom	Fair Gormlay	Metals, 01/07/2015, Monery, C rossdoney, Co Cavan., Ireland Orion B.V., 18/07/2937, De	Steven,25,AX Drachten,9206,Netherlands		PHS Group, EA, Block B,Western Industrial Estate, Caerphilly, CF83 1XH, United Kingdom	Scori CentreZ.I. De Port	Jerome, , Lillebonne, 76170, F rance Afvalstoffen Terminal	Moerdijk B.V., Industrietrrein - Seaport M152, Vlasweg 12,4782 PW MoerdijkNetherlands
L <u>Haz Waste</u> : Address of Next Destination F Facility <u>Non Haz Waste</u> Address of Recover/Disposer			Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Industrieterrein - Seaport M152, Vlasweg 12,4782 PW Moerdijk The Netherlands	Blackpark, Kilkenny Rd., Athy, Co. Kildare, Ireland	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk, The Netherlands	Neiderlassung Nehlsen- Plimp, Betriebsstatte Bremen, Louis-Krages Strasse 10, Bremen, Germany	The Science Park, Brooks Lane , Middlewich, CW10 0.1G, United Kingdom Gottilieb-Daimler-Strasse 22,33334	G?tersioh,,Germany	Monery,Crossdoney,Co. CavanIreland	De Steven,25,AX Drachten,9206,Netherlands Unit 4 Tinure Business	Park,,,Monasterboice,Co. Louth,Ireland	Block B,Western Industrial Estate,Caerphilly,CF83 1XH,United Kingdom Unit 4 Tinure Business	Park,,,Monasterboice,Co. Louth,Ireland Z.I. De Port	Jerome,Lillebonne,76170,F rance	Industrieterrein - Seaport M152.Vlasweg 12,4782 PVV Moerdijk The Netherlands
Haz Waste : Name and LicencePermit No of Nox Destington Facilty Haz Waste: Name and Licence/Permit No of Recover/Disposer			Afvalstoffen Terminal Moerdijk B.V.,821780	Afvalstoffen Terminal Moerdijk B.V.,821780	Irish Lamp Recycling.	Atvalstoffen Terminal Moerdijk B.V.,821780	Nehlsen Gmbh & Co.,A- 4187HH	Centec International, EA	GVE Gesellschaft GmbH,.	Felix Gormley Metals,07/01/2015	Orion B.V.,18/07/2937	The Recycling Village Ltd., WP2007/20	PHS Group,EA	The Recycling Village Ltd., WP2007/20	Scori Centre	Afvalstoffen Terminal Moerdijk B.V.,14/12/4149
	Location of	Treatment	Abroad	Abroad	Offsite in Ireland	Abroad	Abroad	Abroad	Abroad	Offsite in Ireland	Abroad	Offsite in Ireland	Abroad	Offsite in Ireland	Abroad	Abroad
Method Used		E Method Used	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
	e ent	ion M/C/	M	Σ	Σ	Σ	Σ	Σ	M	М	Σ	Ø	Σ	M	Σ	Σ
	Wast	Operat	R1	2	R4	٣	R3	62	Б	R4	D10	R4	R4	R4	D10	R5
Quantity Tronnes per Yean	V and the second s	Description of Waste	medicinas other than those mentioned in 16 69.5 01 08	medicines other than those mentioned in 18 103 8 02 07	fluorescent tubes and other mercury- 0.84 containing waste	paint, ints, adhesives and resins containing 483.8 dangerous substances	paint, inks, adhesives and resins containing 96.68 dangerous substances	107.1 other fuels (including mixtures) absorbents, filter materials, wping coths and oroterive cothing other than those	23.9 mentioned in 15 02 02	70.8 oil fillers	transformers and capacitors containing 55.6 PCBs	discarded equipment other than those 4.7 mentioned in 16 02 09 to 16 02 13	gases in pressure containers (including 11.64 halons) containing dangerous substances	1.0 other batteries and accumulators	aqueous liquid wastes containing 26.5 dangerous substances	21.4 bituminous mixtures containing coal tar
	o	Hazardous	0 N	QN	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	No	Yes	Yes
	European Waste	Code	18 01 09	18 02 08	20 01 21	20 01 27	20 01 27	13 07 03	15 02 03	16 01 07	16 02 09	16 02 14	16 05 04	16 06 05	16 10 01	17 03 01
		Transfer Destination	To Other Countries	To Other Countries	Within the Country	To Other Countries	To Other Countries	To Other Countries	To Other Countries	Within the Country	To Other Countries	Within the Country	To Other Countries	Within the Country	To Other Countries	To Other Countries

| PRTR# ; W0192 | Facility Name : Ritta Environmental Limited | Filename : W0192_2012.xls | Return Year : 2012 |

Page 3 of 4

AER Returns Workbook

Non.         Haz Watter, Address of Next         Name and Luerses of remains on and Destanton Faulty           Destanton Faulty         Address of Final Recovery I.         Actual Address of Final Recovery I.           Non Haz Watter, Address of Pinal Recovery I.         Actual Address of Final Recovery I.         Actual Address of Final Recovery I.           Non Haz Watter, Address of Pinal Recovery I.         I.e. Final Recovery I.         I.e. Final Recovery I.           Recover/Disposer         ONLY)         (HAZARDOUS WASTE ONLY)			Quinn Environmental Auglish P0145/06A,Auglish Auglish R4.29,Tandragee,BT62 R4.29,Tandragee,BT62 AE: Liniau Kunodom AE: Liniau Kinodom AE: Liniau Kinodom	CEL, United Mugdoni CEC, Mitted Mugdoni CEL, United Mugdoni Bimohler GEG mbH, EG0108, Bimohler Bimohler Strasse, 57a, Grossenaspe, 2 Strasse, 57a, Grossenaspe, 2	4523, Germany 4523, Germany 4623, Germany George S.A., nRue de De La Dominion de De Tree de De La Dominion de De Construction d	7181 Seneffe,Belgium Seneffe ,,Belgium 7181 Seneffe ,,Belgium	Desoto Road, West Bank Dock Estate, Widnes, WA8	0PB, United Kingdom Acragar,Mountmellick, Co.	Laois, Ireland	Arvatstoffen Terminal Moerdijk B.V.14124149,Industrieterr Industrieterrein - Seaport M152,Vlasweg 12,.4782 PW 12,.4782 PW M152,Vlasweg 124782	9 Moerdijk,, The Netherlands Moerdijk,,,Netherlands PW Moerdijk,Netherlands Pigeon House	Road, Ringsend,Dublin 4, Ireland	Shelah Refinery, GP3135SD, Shelah Shelah Redu, Halesowen, B63 Road, , Halesowen, B63 Road, , Halesowen, B63	3PN, United Kingdom 3PN, United Kingdom 3PN, United Kingdom	ballinuoter, pallinasioe, co. Galway/frejand	Schumanplein, 16/02/2013,L anaken,3620,Belgium
Destination Facility Haz Waste Name and Licence/Permit No of Recover/Disposer			Quinn Environmental	1000001	GEG mbH,EG0108	Geocycle,.		Granox Ltd.,CP3230BE	A1 Metal,WMP007d	Afvalstoffen Terminal	Moerdijk B.V.,14/12/414	Ringsend WWTW.,	Midland Oil	Refinery, GP3135SD	Greenstar, W0178-02	Enwaco,.
		Location of Treatment		Abroad	Abroad	Abroad		Abroad	Offsite in Ireland		Abroad	Offsite in Ireland		Abroad	Offsite in Ireland	Abroad
Method Used		Method Used		Weighed	Weighed	Weighed		Weighed	Weighed		Weighed	Weighed		Weighed	Weighed	Weighed
	Waste	Treatment Operation M/C/F		er.	M 10	R1 M		R1 M	34 M		R1 M	M 80		79 M	35 M	33 M
		Description of Waste		insulation materials containing aspestos construction materials containing asbestos	(18)	sludges from physico/chemical treatment containing dangerous substances	sludges from biological treatment of industrial waste water other than those	mentioned in 19 08 11	ferrous metal	paint inks adhasives and resins containing	dangerous substances	wastes not otherwise specified	mineral-based non-chlorinated insulating	and heat transmission oils	soil and stones other than those mentioned in 17 05 03	plastic packaging
Quantity (Tonnes per Year)				0.952	2669.2	513.77		98.9	901.2		131.6	58265.0		175.7	4681.9	80.44
		te Hazardo		Yes	Yes	Yes		No	No		Yes	No		Yes	No	No
		European Was		17 06 01	17 06 05	19 02 05		19 08 12	19 12 02		20 01 27	19 02 99		13 03 07	17 05 04	15 01 02
		Tranefer Destination		To Other Countries	To Other Countries	To Other Countries		To Other Countries	Within the Country		To Other Countries	Within the Country		To Other Countries	Within the Country	To Other Countries

| PRTR# : W0192 | Facility Name : Rita Environmental Limited | Filename : W0192_2012.xls | Return Year : 2012 |

### **APPENDIX G**

**Bund Integrity Testing Report** 



### Bund Integrity Testing at Block 402, Greenogue Business Park, Rathcoole, Co. Dublin

November 2013 Revision: **B** 

### TOBIN CONSULTING ENGINEERS







### REPORT

PROJECT:	Bund Integrity Testing
	Block 402, Greenogue Business Park, Rathcoole, Co. Dublin
CLIENT:	<b>Rilta Environmental Ltd</b> RILTA Environmental Limited, Block 402.
	Greenogue Business Park, Bathcoole
	Co Dublin

Co. Dublin Tel: + 353 1 401 8000

Fax: + 353 1 401 8080 Email: info@rilta.ie

### **COMPANY:**

### **TOBIN Consulting Engineers**

Block 10 - 4 Blanchardstown Corporate Park, Blanchardstown, Dublin 15

www.tobin.ie



### DOCUMENT AMENDMENT RECORD

Client: Rilta Environmental Ltd.

Project: 6731 – Bund Testing

Title: Bund Integrity Testing

PROJECT	DOCUMENT REF:6731/Rev A									
С	Final	MN	281113	ST	281113	DG	281113			
В	Additional Testing	MN	191113	ST	191113	DG	191113			
А	Bund Integrity Testing	MN	180213	ST	190213	DG	190213			
Revision	<b>Description &amp; Rationale</b>	Date	Checked	Date	Authorised	Date				
	TOBIN Consulting Engineers									





### **TABLE OF CONTENTS**

1	IN ⁻	TRC	DUCTION	1
2	ME	ΞТΗ	ODOLOGY	1
	2.1	ME	THODOLOGY FOR TESTING AT BLOCK 402, GREENOGUE BUSINES	S
I	PARI	K		2
	2.1	.1	Contaminated Soil Storage Building (Area / Bund No. 1)	2
	2.1	.2	Asbestos Storage Building (Area / Bund No. 2)	2
	2.1	.3	Outdoor Bunded Tank Area (Area / Bund No. 3)	2
	2.1	.4	Indoor Oil Bund (Area / Bund No. 4)	3
	2.1	.5	Indoor Chemical Bund (Area / Bund No. 5)	3
	2.1	.6	Underground Tanks {Settlement Tanks (3No.) and Wet Wells (2No.)}	4
	(Ar	ea / l	Bund No. 6)	4
	2.1	.7	Site Drainage Network (Area / Bund No. 7)	5
	2.1	.8	Brokerage Quarantine Area Portable Bund (Area / Bund No. 8)	5
	2.1	.9	Indoor pH Plant Bund (Area / Bund No. 9)	5
	2.1	.10	Drum Division Sump (Area / Bund No. 10)	6
(	3.0	CO	NTROL	6
(	3.1	FAI	LURE	6
(	3.2	WA	TER DISPOSAL	7
;	3.3	PR	OGRAMME FOR TESTING (BLOCK 402)	7
4	RE	SU	LTS	7
4	4.1	HYI	DROSTATIC SURVEY RESULTS	7
4	4.2	TES	STING AT BLOCK 402, GREENOGUE BUSINESS PARK	8
	4.2	.1	Contaminated Soil Storage Building (Area / Bund No. 1)	8
	4.2	.2	Asbestos Storage Building (Area / Bund No. 2)	8
	4.2	.3	Outdoor Bunded Tank Area (Area / Bund No. 3)	8
	4.2	.4	Indoor Oil Bund (Area / Bund No. 4)	9
	4.2	.5	Indoor Chemical Bund (Area / Bund No. 5) 1	0
	4.2	.6	Underground Tanks (Area / Bund No. 6) {Settlement Tanks (3No.) and Wet Wel	ls
	(2N	lo.)}	10	
	4.2	.7	Site Drainage Network (Area / Bund No. 7) 1	1
	4.2	.8	Brokerage Quarantine Area Portable Bund (Area / Bund No.8) 1	1
	4.2	.9	Indoor pH Plant Bund (Area / Bund No. 9) 1	2





4.2.10 Drum Division Sump (Area / Bund No. 10)	
4.3 ADDITIONAL TESTING	13
4.3.1 Additional Hydrostatic Pipeline Test October 2013	
5 CCTV	13
5.1 CCTV SURVEY	13
6 CONCLUSION	14

### Appendix A

Figure 1 – Bund / Tank Locations for testing (Block 402, Greenogue Business Park)

### Appendix B

Block 402- CCTV Drainage Inspection Report AJ – MHF-11 – CCTV Drainage Inspection Report Pipework between outdoor Bund & internal sump – Hydrostatic Test Results





### 1 INTRODUCTION

Tobin Consulting Engineers (hereafter referred to as TOBIN) have been commissioned by Rilta Environmental Ltd. to carry out Bund Integrity Testing at their facility at Block 402, Greenogue Business Park, Rathcoole, Co. Dublin under the requirements of the site's EPA Waste Licence (EPA Waste Licence Reg. No. W0192-03).

TOBIN proposed that over a period amenable to facility operations hydrostatic testing, CCTV survey and structural survey would be carried out on the specified bunds and areas.

A CCTV survey of the site drainage was carried out by Rilta staff on 31/05/12. A structural survey of the buildings outlined for assessment at the site was carried out by a TOBIN Engineer on Friday, 24th August 2012.

Hydrostatic testing of a number of bunded areas and underground settlement tanks commenced on Saturday, 25th September and concluded on Monday, 27th August 2012.

Areas / Bunds for testing identified within Block 402, Greenogue Business Park include:

- Area / Bund No. 1: Contaminated Soil Storage Building
- Area / Bund No. 2: Asbestos Storage Building
- Area / Bund No. 3: Outdoor Bunded Tank Area
- Area / Bund No. 4: Indoor Oil Bund
- Area / Bund No. 5: Indoor Chemical Bund
- Area / Bund No. 6: Underground Tanks (Settlement Tanks (3No.) & Wet Wells (2No.))
- Area / Bund No. 7: Site Drainage Network
- Area / Bund No. 8: Brokerage Quarantine Area, Portable Bund
- Area / Bund No. 9: Indoor PH Plant Bund
- Area / Bund No. 10: Drum Division Sump
- AJ MHF-11: CCTV Drainage Inspection
- Pipework between Outdoor bund & Internal sump

TOBIN carried out preliminary inspections of the bunds and areas listed above and made assessments as to the necessity/suitability of each for hydrostatic testing or structural assessment. A detailed bund location map (Figure 1) is contained in Appendix A.

### 2 METHODOLOGY



It was proposed that over a period when the facility was non-operational, liquid levels within the overground bunds and underground tanks would be monitored, following preparatory works, for a three day period (preferably over a weekend). Any subsequent fluctuation in levels over this period would indicate if the integrity of each bund is intact.

### 2.1 METHODOLOGY FOR TESTING AT BLOCK 402, GREENOGUE BUSINESS PARK

A methodology for the testing of individual bunds and tanks within Block 402 is detailed below. The locations of the areas tested at Block 402 are shown in Figure 1 in Appendix A.

### 2.1.1 Contaminated Soil Storage Building (Area / Bund No. 1)

A structural survey was carried out by a TOBIN Engineer on the Contaminated Soil Storage Building at Block 402, on Friday, 24th August 2012, located as shown on Figure 1 of Appendix A. This building is designated as an area for the storage of contaminated soil material.

The survey consisted of a visual assessment of all walls, floors and ramps within the building.

### 2.1.2 Asbestos Storage Building (Area / Bund No. 2)

A CCTV survey was carried out on all drainage pipework associated with the Asbestos Storage Building at Block 402, to ensure the integrity of the pipes and associated valves. The location of the valve connection from this building to the site drainage network is shown on Figure 1.

A structural survey was carried out by a TOBIN Engineer on the Asbestos Storage Building on Friday, 24th August 2012, located as shown on Figure 1 of Appendix A. This building is designated as an area for the storage of contaminated soil material.

The survey consisted of a visual assessment of all walls, floors and ramps within the building.

### 2.1.3 Outdoor Bunded Tank Area (Area / Bund No. 3)

It was proposed to carry out a hydrostatic test on the Outdoor Concrete Bund at the Tank Area on the Block 402 site, located as shown in Figure 1 of Appendix A. The bund was thoroughly cleaned out, with any debris and sludge removed from the bund prior to testing.

The bund was then incrementally filled with water to a level that is equal to 25% of the overall capacity of the bund. This was to represent the maximum capacity the bund will be required to hold.



When the bund was full to the required limit it was allowed to sit for one day to allow the concrete walls and base to absorb any initial water and reach an equilibrium state. After this 24hr period had lapsed, the level of water was measured at 24hr intervals over 3 days.

Further to this testing the bund was inspected by a structural engineer to ensure that any remedial work that is required has been carried out such as protective coating applied or any cracks or faults repaired and sealed to a satisfactory standard.

**Please Note:** During this 3 day test period the total drop in water level, after allowing for rainfall and evaporation, should not exceed 1/500th of the average depth of water or 10mm.

### 2.1.4 Indoor Oil Bund (Area / Bund No. 4)

It was proposed to carry out a hydrostatic test on the Indoor Oil Bund in the Hydrocarbon Waste Treatment Building on the Block 402 site, located as shown in Figure 1 of Appendix A. The bund was thoroughly cleaned out, with any debris and sludge removed from the bund prior to testing.

The bund was then incrementally filled with water to a level that is equal to 25% of the overall capacity of the bund. This was to represent the maximum capacity the bund will be required to hold.

When the bund was full to the required limit it was allowed to sit for one day to allow the concrete walls and base to absorb any initial water and reach an equilibrium state. After this 24hr period had lapsed, the level of water was measured at 24hr intervals over 3 days.

Further to this testing the bund was inspected by a structural engineer to ensure that any remedial work that is required has been carried out such as protective coating applied or any cracks or faults repaired and sealed to a satisfactory standard.

**Please Note:** During this 3 day test period the total drop in water level, after allowing for rainfall and evaporation, should not exceed 1/500th of the average depth of water or 10mm.

### 2.1.5 Indoor Chemical Bund (Area / Bund No. 5)

It was proposed to carry out a hydrostatic test on the Indoor Chemical Bund in the Hydrocarbon Waste Treatment Building on the Block 402 site, located as shown in Figure 1 of Appendix A. The bund was thoroughly cleaned out, with any debris and sludge removed from the bund prior to testing.



The bund was then incrementally filled with water to a level that is equal to 25% of the overall capacity of the bund. This was to represent the maximum capacity the bund will be required to hold.

When the bund was full to the required limit it was allowed to sit for one day to allow the concrete walls and base to absorb any initial water and reach an equilibrium state. After this 24hr period had lapsed, the level of water was measured at 24hr intervals over 3 days.

Further to this testing the bund was inspected by a structural engineer to ensure that any remedial work that is required has been carried out such as protective coating applied or any cracks or faults repaired and sealed to a satisfactory standard.

**Please Note:** During this 3 day test period the total drop in water level, after allowing for rainfall and evaporation, should not exceed 1/500th of the average depth of water or 10mm.

### 2.1.6 Underground Tanks {Settlement Tanks (3No.) and Wet Wells (2No.)} (Area / Bund No. 6)

It was proposed that hydrostatic testing on the Underground Tanks on the Block 402 site, would be carried out over a period when the underground tanks were non-operational.

It was proposed, similar to previous testing events, that 2No. floats would be placed in each of the underground settlement tanks to increase measurement accuracy. A single float was be placed in the wet wells, as access constraints impeded the use of additional floats at these locations. Floats were then added to each tank on the Friday of the testing period and the liquid allowed stand for 24hrs to ensure a state of equilibrium.

After the 24hr period had elapsed, the level of the liquid was measured at 24hr intervals over 3 consecutive days. Liquid levels within the tanks were be measured using a laser measuring device, ensuring this was only done from a specific marked point above the float.

The exit and entry points to the tanks were closed on the Friday and the internal liquid allowed to stand for a 24hr period. The level of the liquid in each chamber was noted on the Saturday. Further readings were taken on the Sunday and again on the Monday, prior to the recommencement of work at the facility on the Monday afternoon.



### 2.1.7 Site Drainage Network (Area / Bund No. 7)

It was proposed to carry out a CCTV survey on the entire drainage network and associated valves on the Block 402 site, to ensure the integrity of same. Upon inspection, if any pipework or valves show signs of major deterioration or malfunction they shall be replaced or repaired.

### 2.1.8 Brokerage Quarantine Area Portable Bund (Area / Bund No. 8)

It was proposed to test the Outdoor Portable Plastic Bund at the Brokerage Quarantine Building on the Block 402 site, located as shown in Figure 1 of Appendix A. The bund was thoroughly cleaned out, with any debris and sludge removed from the bund prior to testing.

The bund was then incrementally filled with water to a level that is equal to 25% of the overall capacity of the bund. This was to represent the maximum capacity the bund will be required to hold.

When the bund was full to the required limit it was be allowed to sit for one day to allow the container/bund to absorb any initial water and reach an equilibrium state. After this 24hr period had lapsed, the level of water was measured at 24hr intervals over 3 days.

Further to this testing the bund was inspected by a structural engineer to ensure that any remedial work that is required has been carried out. In this case as the bunds are plastic it would be recommended to replace the bund in the event of a fault or malfunction.

**Please Note:** During this 3 day test period the total drop in water level, after allowing for rainfall and evaporation, should not exceed 1/500th of the average depth of water or 10mm.

### 2.1.9 Indoor pH Plant Bund (Area / Bund No. 9)

It was proposed to hydrostatically test the Indoor pH Plant Bund in the Hydrocarbon Waste Treatment Building on the Block 402 site, located as shown in Figure 1 of Appendix A. The bund was thoroughly cleaned out, with any debris and sludge removed from the bund prior to testing.

The bund was then incrementally filled with water to a level that is equal to 25% of the overall capacity of the bund. This was to represent the maximum capacity the bund will be required to hold.



When the bund was full to the required limit it will was allowed to sit for one day to allow the container/bund to absorb any initial water and reach an equilibrium state. After this 24hr period had lapsed, the level of water was measured at 24hr intervals over 3 days.

Further to this testing the bund was inspected by a structural engineer to ensure that any remedial work that is required has been carried out such as protective coating applied or any cracks or faults repaired and sealed to a satisfactory standard.

**Please Note:** During this 3 day test period the total drop in water level, after allowing for rainfall and evaporation, should not exceed 1/500th of the average depth of water or 10mm.

### 2.1.10 Drum Division Sump (Area / Bund No. 10)

A CCTV survey was carried out on all drainage pipework associated with the Drum Division Sump to ensure the integrity of the pipes and associated valves. The location of the sump is shown on Figure 1 in Appendix A.

### 3.0 CONTROL

Due to the potential for evaporation in the settlement tanks/bunded areas, a control was put in place (note: where tanks are internal there is no risk of precipitation influencing levels). A container was filled to a specific level with liquid from the Underground Tanks. This control was left beside the internal tanks throughout the testing period. This control provides an indication of the evaporation rate active on the tanks and the influence of any rainfall during the testing period.

Due to the potential for evaporation and precipitation in the Outdoor Concrete Bund, a control was put in place. A container was filled to a specific level with water. This control was left beside the Outdoor Concrete Bund.

These controls provide an indication of the evaporation and precipitation rate active on the bunds both indoors and outdoors.

### 3.1 FAILURE

Should the structure not satisfy the test, remedial works will be recommended and carried out and the same procedure will be repeated.



### 3.2 WATER DISPOSAL

Any water used in this procedure will be disposed of through the surface water drainage system on site.

### 3.3 PROGRAMME FOR TESTING (BLOCK 402)

It was proposed that all testing would be carried out for Block 402 over a 5-day period (ie. from Thursday, 23rd August to Monday, 27th August 2012).

- Day 1: TOBIN staff attended Block 402 on Thursday, 23rd August 2012, before the testing commenced in order to assess all Areas / Bunds for testing and to review the locations of the Areas / Bunds to be tested (with Rilta staff).
- Day 2: Preparation of test areas including the addition of water to containers/bunds where required for hydrostatic testing (with Rilta staff). Levels were taken by TOBIN staff.
- Days 3-5: TOBIN staff attended site on Saturday, 25th August, Sunday, 26th August and Monday, 27th August to take levels at each test location. Levels were taken at the same time each day, weather conditions noted and controls checked.
- A TOBIN Structural Engineer visited site to carry out a structural assessment of the bunds and buildings on Friday, 24th August.

### 4 **RESULTS**

### 4.1 HYDROSTATIC SURVEY RESULTS

Hydrostatic testing was carried out on the Bunded areas & Underground Storage Tanks from Saturday, 25th August to Monday, 27th August 2012.

No fluctuation in liquid level was noted in the bunds or tanks during the first monitoring period Day 1 to Day 2 (25th August – 26th August 2012) and levels remained constant for the second monitoring period Day 2 to Day 3 (26th August – 27th August 2012). Results from the controls showed no variation and were consistent with readings from all storage tanks.



As no fluctuation was noted in liquid levels during the measurement period and the control remained constant, it is determined that all tested bunds and tanks are in good structural condition. No ancillary works are required for these bunds.

### 4.2 TESTING AT BLOCK 402, GREENOGUE BUSINESS PARK

Testing commenced 'as per methodology' on Saturday, 25th August 2012. Measurements were recorded over three consecutive days and the results were analysed by TOBIN staff. No fluctuation in liquid level was noted at any of the monitoring locations, during any of the daily monitoring events (see results below). The controls for these assessments showed no change, remaining consistent with the results from the daily monitoring.

### 4.2.1 Contaminated Soil Storage Building (Area / Bund No. 1)

As per methodology a structural survey was carried out by a TOBIN Engineer on the Contaminated Soil Storage Building on Friday, 24th August 2012, located as shown on Figure 1 of Appendix A.

This area is generally used to store contaminated soil. The floor is of a concrete slab with no obvious construction joints. Large areas of the floor were obscured at the time of the survey as the facility was in use. The areas of the floor that were visible, while showing some cosmetic damage due to the scraping of machinery, did not show signs of structural damage such as cracking.

### 4.2.2 Asbestos Storage Building (Area / Bund No. 2)

As per methodology a structural survey was carried out by a TOBIN Engineer on the Asbestos Storage Building on Friday, 24th August 2012, located as shown on Figure 1 of Appendix A.

This area is generally used to store dry material. The concrete floors have no joints and were found to be in good condition. There is a reinforced concrete wall around the perimeter of the units, this was also found to be in good structural condition. There is a valved drainage system under the floor which is manually released. The drainage system is outlined in detail in section 5.1 of this report.

### 4.2.3 Outdoor Bunded Tank Area (Area / Bund No. 3)

As per methodology Area / Bund No. 3 was filled with water to an appropriate level (110% tank volume) on Friday 24th August 2012. A >24hr absorption period was observed (due to weekend period) to allow the bund walls to become saturated. The test commenced on Saturday 25th August. Table 4-1 below represents recorded water levels within the bund and control over the



test period. Various levels were taken for each bund as there was a variation in floor level in some of the bunds. The overall bund was tested in 3 separate parts (Front, Middle & Rear).

	-	-		-				
Measurement Location	Sat 25 th Aug (Top of bund to water level)	Sun 26 th Aug (Top of bund to water level)	Mon 27 th Aug (Top of bund to water level)	Fluctuation	Pass / Fail			
Front of bund								
A, Front Left	114cm	114cm	114cm	0.0cm	Pass			
B, Front Right	112cm	112cm	112cm	0.0cm	Pass			
C, Rear Left	121cm	121cm	121cm	0.0cm	Pass			
D, Rear Right	122cm	122cm	122cm	0.0cm	Pass			
		Middle of bur	nd					
E, Front Left	125cm	125cm	125cm	0.0cm	Pass			
F, Front Right	126cm	126cm	126cm	0.0cm	Pass			
G, Rear Left	125cm	125cm	125cm	0.0cm	Pass			
H, Rear Right	126cm	126cm	126cm	0.0cm	Pass			
		Rear of bund	d					
I, Front Left	120cm	120cm	120cm	0.0cm	Pass			
J, Front Right	120cm	120cm	120cm	0.0cm	Pass			
K, Rear Left	120cm	120cm	120cm	0.0cm	Pass			
L, Rear Right	120cm	120cm	120cm	0.0cm	Pass			
Control	21cm	21cm	21cm	0.0cm	Pass			

Table 4-1 Bund / Area No. 3 Test Result

Testing at this location was not impacted by facility operations.

### 4.2.4 Indoor Oil Bund (Area / Bund No. 4)

As per methodology Area / Bund No. 4 was filled with water to an appropriate level (110% tank volume) on Friday 24th August 2012. A >24hr absorption period was observed (due to weekend period) to allow the bund walls to become saturated. The test commenced on Saturday 25th August. Table 4-2 below represents recorded water levels within the bund and control over the test period. Various levels were taken for each bund as there was a variation in floor level in some of the bunds.



Measurement Location	Sat 25 th Aug (Top of bund to water level)	Sun 26 th Aug (Top of bund to water level)	Mon 27 th Aug (Top of bund to water level)	Fluctuation	Pass / Fail
A, Front Left	123cm	123cm	123cm	0.0cm	Pass
B, Front Right	124cm	124cm	124cm	0.0cm	Pass
C, Left Centre	124cm	124cm	124cm	0.0cm	Pass
Control	6cm	6cm	6cm	0.0cm	Pass

Table 4-2 Bund / Area No	. 4	Test	Result
--------------------------	-----	------	--------

Testing at this location was not impacted by facility operations.

### 4.2.5 Indoor Chemical Bund (Area / Bund No. 5)

As per methodology Area / Bund No. 5 was filled with water to an appropriate level (110% tank volume) on Friday 24th August 2012. A >24hr absorption period was observed (due to weekend period) to allow the bund walls to become saturated. The test commenced on Saturday 25th August. Table 4-3 below represents recorded water levels within the bund and control over the test period. Various levels were taken for each bund as there was a variation in floor level in some of the bunds.

Measurement Location	Sat 25 th Aug (Top of bund to water level)	Sun 26 th Aug (Top of bund to water level)	Mon 27 th Aug (Top of bund to water level)	Fluctuation	Pass / Fail
A, Front Left	134cm	134cm	134cm	0.0cm	Pass
B, Front Right	132cm	132cm	132cm	0.0cm	Pass
C, Rear Right	134cm	134cm	134cm	0.0cm	Pass
D, Rear Left	132cm	132cm	132cm	0.0cm	Pass
Control	6cm	6cm	6cm	0.0cm	Pass

Table 4-3 Bund / Area No. 5 Test Result

Testing at this location was not impacted by facility operations.

### 4.2.6 Underground Tanks (Area / Bund No. 6) {Settlement Tanks (3No.) and Wet Wells (2No.)}

As per methodology 2No. floats were placed in each of the Underground Settlement Tanks. A single float was placed in the Wet Wells. Floats were added to each tank on the Friday of the testing period and the liquid allowed stand for 24hrs to ensure a state of equilibrium.

After the 24hr period, the level of the liquid was measured at 24hr intervals over 3 consecutive days. As no fluctuation was noted in tank liquid levels during the measurement period and the



control remained constant, it is determined that the Settlement Tanks and Wet Wells are in good structural condition.

The test commenced on Saturday 25th August. Table 4-4 below represents recorded levels within the tanks and control over the test period.

Measurement Location	Sat 25 th Aug (Top of tank to float level)	Sun 26 th Aug (Top of tank to float level)	Mon 27 th Aug (Top of tank to float level)	Fluctuation	Pass / Fail
		Settlement Tanks	(Front)		
A, Tank 1	5.480m	5.480m	5.480m	0.0cm	Pass
B, Tank 2	1.394m	1.394m	1.394m	0.0cm	Pass
C, Tank 3	5.614m	5.614m	5.614m	0.0cm	Pass
		Settlement Tanks	(Rear)		
D, Tank 1	5.501m	5.501m	5.501m	0.0cm	Pass
E, Tank 2	1.394m	1.394m	1.394m	0.0cm	Pass
F, Tank 3	5.613m	5.613m	5.613m	0.0cm	Pass
		Wet Wells			
G, Well 1	3.681m	3.681m	3.681m	0.0cm	Pass
H, Well 2	3.680m	3.680m	3.680m	0.0cm	Pass
Control	14cm	14cm	14cm	0.0cm	Pass

Table 4-4	Bund /	Area	No.	6	Test	Result
l able 4-4	Buna /	Area	NO.	O	rest	Result

Testing at this location was not impacted by facility operations.

### 4.2.7 Site Drainage Network (Area / Bund No. 7)

As per methodology a CCTV survey was carried out on the entire drainage network and associated valves at Block 402 to ensure the integrity of same. The CCTV report is included in Appendix B.

### 4.2.8 Brokerage Quarantine Area Portable Bund (Area / Bund No.8)

As per methodology Area / Bund No. 8 was filled with water to an appropriate level (110% tank volume) on Friday 24th August 2012. A >24hr absorption period was observed (due to weekend period) to allow the bund walls to become saturated. The test commenced on Saturday 25th August. Table 4-5 below represents recorded water levels within the bund and control over the test period. Various levels were taken for each bund as there was a variation in floor level in some of the bunds.



Measurement Location	Sat 25 th Aug (Top of bund to water level)	Sun 26 th Aug (Top of bund to water level)	Mon 27 th Aug (Top of bund to water level)	Fluctuation	Pass / Fail
A, Front Left	23cm	23cm	23cm	0.0cm	Pass
B, Front Right	23cm	23cm	23cm	0.0cm	Pass
C, Rear Right	23cm	23cm	23cm	0.0cm	Pass
D, Rear Left	23cm	23cm	23cm	0.0cm	Pass
Control	21cm	21cm	21cm	0.0cm	Pass

### Table 4-5Bund / Area No. 8 Test Result

Testing at this location was not impacted by facility operations.

### 4.2.9 Indoor pH Plant Bund (Area / Bund No. 9)

As per methodology Area / Bund No. 4 was filled with water to an appropriate level (110% tank volume) on Friday 24th August 2012. A >24hr absorption period was observed (due to weekend period) to allow the bund walls to become saturated. The test commenced on Saturday 25th August. Table 4-6 below represents recorded water levels within the bund and control over the test period. Various levels were taken for each bund as there was a variation in floor level in some of the bunds.

Table 4-6	Bund /	∆rea	No 9	Test Result
	Dunu /	Alca	110. 3	restricsuit

Measurement Location	Sat 25 th Aug (Top of bund to water level)	Sun 26 th Aug (Top of bund to water level)	Mon 2 ^h Aug (Top of bund to water level)	Fluctuation	Pass / Fail
A, Front Left	31cm	31cm	31cm	0.0cm	Pass
B, Front Right	31cm	31cm	31cm	0.0cm	Pass
C, Rear Right	33cm	33cm	33cm	0.0cm	Pass
D, Rear Left	31cm	31cm	31cm	0.0cm	Pass
Control	6cm	6cm	6cm	0.0cm	Pass

Testing at this location was not impacted by facility operations.

Upon visual assessment of this Bund some leakage was observed at the south western corner of the bund. It is recommended that a structural survey is undertaken and that any remedial works required to repair any faults in the bund are completed. See Photo No. 1 below for location of the suspected fault in the bund.





Photo 1: Suspected fault in Area / Bund No. 9

### 4.2.10 Drum Division Sump (Area / Bund No. 10)

A CCTV survey was carried out on all drainage pipework associated with the Drum Division Sump to ensure the integrity of the pipes and associated valves. The CCTV report is included in Appendix B.

### 4.3 ADDITIONAL TESTING

### 4.3.1 Additional Hydrostatic Pipeline Test October 2013

An additional hydrostatic test was carried out on the section of pipe between the outdoor bunds and sump internal to the Hydrocarbon treatment building known as the sludge return pipe. Upon testing this pipework was deemed to be in good structural condition. The results of this test are included in Appendix B attached.

### 5 CCTV

### 5.1 CCTV SURVEY

A CCTV drainage inspection was carried out on May 31st 2013 on behalf of Rilta Environmental Ltd. The Inspection Report is included in Appendix B attached. A further CCTV was then carried out in October 2013 on the section of pipe between AJ & MHF-11 as shown on Figure 1 in Appendix A. Upon inspection it was discovered that there were some faults in the section of pipe between AJ & MHF-11, while these minor faults could be repaired, due to the fact that the pipe runs beneath existing hedging, it would be prudent to relocate the pipe overground next to the building wall.



### 6 CONCLUSION

The assessment of the bunds / areas after CCTV survey, structural and hydrostatic testing is as follows:

Areas / Bunds for testing identified within Rilta Site, Block 402, Greenogue Business Park include:

•	Area / Bund No. 1: Contaminated Soil Storage Building	=	PASS
•	Area / Bund No. 2: Asbestos Storage Building	=	PASS
•	Area / Bund No. 3: Outdoor Bunded Tank Area	=	PASS
•	Area / Bund No. 4: Indoor Oil Bund	=	PASS
•	Area / Bund No. 5: Indoor Chemical Bund	=	PASS
•	Area / Bund No. 6: Underground Tanks	=	PASS
•	Area / Bund No. 7: Site Drainage Network	=	PASS
•	Area / Bund No. 8: Brokerage Quarantine Area, Portable Bund	=	PASS
•	Area / Bund No. 9: Indoor PH Plant Bund	=	PASS

### **Remedial Works recommended**

•	Area / Bund No.	10: Drum Division Sump	=	PASS
---	-----------------	------------------------	---	------



### **APPENDIX A**

Figure 1: Bund / Tank Locations for Testing (Block 402, Greenogue Business Park)



[©] Ordnance Survey Ireland, 2008. All rights reserved. Licence number EN 0016009

### **APPENDIX B**

Block 402 - CCTV Drainage Inspection Report AJ – MHF-11 – CCTV Drainage Inspection Report Pipework between outdoor Bund & internal sump – Hydrostatic Test Results

Rilta Environmental Ltd.								
Rilta Environmental limited Block 402, Greenogue Business Park, Rathcoole Dublin Tel: 01 401 8000, Fax: 01 401 8080								
	Project-i	nformation						
Project name: Rilta Environmental	Contract number: 01	Contact: Colm Hussey	Date: 31/05/2012					
Client	Client Rilta Environmental Ltd.							
Contact:	Contact: Colm Hussey							
Position:								
Road	Road Grant's Drive							
Town	Town Rathcoole, Greenogue Industrial Estate							
County	Dublin							
Telephone:								
Fax:								
Mobile:								
E-Mail:								
Site	Rilta Enviro	nmental limited						
Contact:	Colm Hussey							
Position:								
Road	Grant's Driv	e						
Town	Block 402, 0	Block 402, Greenogue Business Park, Rathcoole						
County	Dublin							
Telephone:	01 401 8000							
Fax:	01 401 8080							
Mobile:								
E-Mail:	info@rilta.ie							
Contractor	<b>Rilta Enviro</b>	nmental limited						
Contact:	Contact: Martin Stehlik							
Position:	C.C.T.V. Operator							
Road	Grant's Drive							
Town	Town Block 402, Greenogue Business Park, Rathcoole							
County	County Dublin							
Telephone:	Telephone: 01 401 8000							
Fax:	Fax: 01 401 8080							
Mobile: +353 0876185460								
E-Mail:	E-Mail: info@rilta.ie							
Winden			Block 40	Rilta Environmental limited )2, Greenogue Business Park, Ra Dublin Tel: 01 401 8000, Fax: 01 401 8080				
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------	--	--	--	--
		e Description	iption					
Proje Rilta En	ct name: vironmental	Contract number: Contact: Date: 01 Colm Hussey 31/05/2012						
<u>1:</u>	Occurances	without damage: for example	, laterals, joints etc.					
	NO DEFECT	IS WERE DETECTED.						
<ul> <li>Constructional deficiencies or occurances with insignificant influence to tightness, hydraulic or static pressure of pipe: f.e. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.</li> <li>REHABILITATION CAN BE SCHEDULED LONG-TERM.</li> </ul>								
3: Constructional deficiencies diminishing static, hydraulic and tightness: f.e. open joints, untorched intakes, cracks, minor drainage obstructions such as calcide build ups, protru- laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls et REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.								
<u>4:</u>	Constructional damages with nonsufficient static safety, hydraulic or tightness: f.e. axial/radial pipebursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.							
	REHABILITA TO 2 YEARS HAS TO BE	TION PROCEDURE IS URG . NECESSITY FOR EMERCE EXAMINED.	ENT AND HAS TO BE CO ENCY OPERATIONS	MPLETED WITHIN 1				
<u>5:</u>	Pipe is alread drainage obs	ly or will shortly be impermea tructions. Pipe loses water or	ble: f.e. collapsed pipe, dee danger of backwater in bas	ply rooted pipe or other ements etc.				
	REHABILITA DAMAGE, NE CONDUCTE	TION IS URGENT AND SHO ECESSARY TEMPORARY SI D ON EMERGENCY LEVEL	RT-TERM. IN ORDER TO POT REPAIR HAS TO BE	PREVENT FURTHER				















э					Rilta Enviro	onmental Ltd.			
Wine	600						<i>Riita Environment</i> a Block 402, Greenogue Busine Dublin Tel: 01 401 8000. Fax: 0	al limited ass Park, Ra	athcoole
	er yan en die Kurekein				Inspecti	on report			
D: 31/0	ate: 5/2012	Job	N°:		Weather: Drv	Operator: MS	section number:	PLR F7	t: X
Pre	sent:	Veh Came	icle: ra van	Camera: Preset:			Cleaned: Grad		e:
Road:	Grant's D	rive		1	Division:		start MH: F8		
Place:	Greenogu	e Ind. Est.			District:		end MH: F7	9	
Location:	Difficult a	ccess			Tape No.:	-	Total length: 39 m		
Purpose: Use: Catchment	Purpose:     Resurvey     Size/Shape:     Circular 125       Jse:     Foul     Material:     Polyvinyl chloride Pipe length       Lining:     Lining:     Lining:							i:	
Comment:									
Location de	tails:								
1:	300 po	sition	code	obse	ervation			photo	grade
6		0.00	ST	Start	of Survey				0
F	8	0.00	WL	Wate	er level. 0 % height/diamet	er			0
				vvalo					
		7.50	10/1	Mate	a lough 5 0/ haistet/diamat				0
		9.00		Wate	r level, 3 % height/diame				0
		9.00	GO	Gone	and Observation Remark		2		
-		12.00	WI	WAT	ER er level 5 % height/diamet	er	OCED THOLDING		0
		12.00		e e cito	n lovel, o no holgho damet				U
<b>A</b>									
\$									
		a 1. (22)							
<b>«</b>	1	22.50	CN	Conn	ection, at 10 o´clock, dia 1	00 mm			0
-	2	23.20	CN	Conn	ection, at 10 o´clock, dia 1	00 mm			0
		24.70	CN	Conn	ection, at 10 o'clock, dia 1	00 mm			0
e		32.10	CN	Conn	ection, at 11 o´clock, dia 1	00 mm			0
		27.00	144	147 -					
F		37.00	VVL	vvate	r level, 30 % height/diame				0
F		<u>37.00</u>	GO	Gene	rai Observation, Remark: F	PIPE SLIGHTLY DEPRES	55ED		2
		59.00	iviH	wann	ole Remark: F/				0













Mili Can		<i>Rilta Environmental limited</i> Block 402, Greenogue Business Park, Rathco Dublin Tel: 01 401 8000, Fax: 01 401 8080						
Inspection photos								
Place: Greenogue Ind. Est.	Road: Grant's Drive	Date: 31/05/2012	section number: 14	PLR: AJ X				
	1Jan19	02:51	0045.9M					
	Sall Provent							
	2	and a		c.				
		1 Parts						
	1.11							
		15						
		This and						
Photo 46.2m	: 14_5a , Connection defective, a	at 10 o´clock, dia 125	mm, intrusion					
200 m	m							

*					Rilta Envi	ronmental Ltd.	Dilta Environmen	tal limited	
Winge							Block 402, Greenogue Busin Dublin Tel: 01 401 8000, Fax:	ess Park, Ra	athcoole
					Inspect	ion report			
Date: Job N°: 31/05/2012			Job N°:	Weather: Operator: Dry MS			section number: 15	PLR: <b>S7</b> X	
Prese	nt:	Car	/ehicle: mera van		Camera: Preset: Cleaned: Minicam Yes			Grade:	
Road: Grant's Drive					Division:		start MH: S6	a static marte	
Location:	Difficult a	ICCess	•		Tape No.:		Total length: 57.6 m		
Purpose:		Resurve	у			Size/Shape:	Circular 200		
Jse:		Surface	water			Material: Lining:	Vitrified clay Pipe length:		
Catchment:					an a	Category:			
comment:	ls:								
1:42	5 00	sition	code	ohse	ervation		nanona anti anti anti anti anti anti anti an	nhoto	arad
	• ps	, chuốn (	oodu	0.000				photo	giad
Se		0.00	ST WL DES D CN	Start Wate Debr Sewe	of Survey er level, 5 % height/diame is silt, 10 % cross-section er Deformed, 10 % rection, at 03 o'clock, dia	eter nal area loss 125 mm			0 0 1 2 0
0-		36.10	CN	Conn	ection, at 11 o´clock, dia '	125 mm			0
1		39.20	CN	Conn	ection, at 02 o´clock, dia ´	125 mm			0
		42.00	WL	Water	level, 20 % height/diam	eter			0
		42.00	GO	Gener	al Observation, Remark:	PIPE SLIGHTLY DEPRES	SSED - HOLDING		2
1		45.60	CN	Conne	ection, at 03 o´clock, dia 1	25 mm			0
		57.60	MH	Manho	ole Remark: S7				0
S7		57.60	GO	Gener	al Observation: MANHOL	E BURIED WITHOUT AC	CESS		2
~									

ŧ			Rilta Envir	ronmental Lttd:	Ritta Environmen Block 402, Greenogue Busit	n <b>tal limited</b> ness Park, Rati	ncoole
MinGao				- 1	Dublin Tel: 01 401 8000, Fax	: 01 401 8080	
V	APPEND.		Inspect	ion report			
		h Nº.	Weather:	Operator:	section number: 16	S8	х
Date: 31/05/2012		biolo:	Dry Camera:	Preset:	Cleaned: Yes	Grade	ć
Present	Cam	era van	Minicam		atart MH: \$6		
oad: Gran	t's Drive		Division:	97 29 6 (COL)	end MH: S8		
lace: Gree	enogue Ind. Est.		District:		Total length: 65.9 m		
ocation: Diffi	cult access		Tape No.:	Size/Shape.	Circular 200		
Purpose:	Resurvey	1		Material:	Vitrified clay Pipe length:		
Jse:	Surface v	water		Lining:			
Catchment:				Category.			
Comment:						110000	
ocation details:						photo	grad
1:500	position	code o	bservation				
					0		
$\frown$		OT (	Ctort of SURJEV				C
( S6 )-	0.00	51 3	Start of Survey				C
$\langle \cdot \rangle$	0.00	WL V	Water level, 5 % height/dia	ameter			
							3
	10.90	CN	Connection, at 12 o'clock,	dia 125 mm			
0							
	16.40	CN	Connection, at 09 o'clock,	dia 125 mm			
1S							
	22.70	CN	Connection, at 02 o'clock,	, dia 125 mm			
	00.00	CN	Connection at 10 o'clock	dia 125 mm			
	29.20	GN	Connection, at 10 0 00000	, and the trace			
				1'- 105 mm			
	46.40	CN	Connection, at 10 0 clock	., dia 125 mm			
	51.40	CN	Connection, at 03 o'clock	t, dia 125 mm			
	57.30	CN	Connection, at 09 o'clock	c, dia 125 mm			
	58 10	CN	Connection. at 02 o'clock	, dia 125 mm			
		011	Connection at 00 c'alcol	dia 125 mm			
A	58.60	GN	Connection, at 02 0 clock				
<b>S8</b>	65.90	MH	Manhole Remark: S8				
$\bigcirc$							









RILTA ENVIRONMENTAL LIMITED	and the second	<b>RILTA ENVIRONMENTAL</b> GREENOGUE INDUSTRIAL ESTATE RATCHOOLE Tel: 01 4018000 Fax: Email: info@rilta.ie
	Project-informa	ation / Inspection: 1
Project name : RILTA ENVIRONMENTAL	Contract Number :	Contact : Date : 31/10/2013
Client	Colm Huss	ey
Responsible:	01 401800	0
Department:	Treatment	Division
Street:	Grants Driv	ve
City, St Zip:	Rathcoole	
Po Box:	Dublin	
Telephone:		
Fax:		
Mobile:		
e-mail:		
Proj mgr	Colm Huss	ey
Responsible:		
Department:	Rilta Yard	Bay 5 Rear
Street:		김 영향 경험에 가지 않는 것을 받았다. 같은 것은 것을 많이 많이 많이 많이 많이 많이 많이 많이 없다. 같은 것은
City, St Zip:		
Po Box:		
Telephone:		
Fax:		
Mobile:		
e-mail:		
Contractor	RILTA ENV	IRONMENTAL
Responsible:	FINTAN D	UFFY
Department:	CONTRAC	TS
Street:	GREENOG	UE INDUSTRIAL ESTATE
City, St Zip:	RATCHOO	LE
Po Box:	DUBLIN	
Telephone:	01 4018000	)
Fax:		
Mobile:	087 904105	52
e-mail:	info@rilta.i	ie



Place : RILTA

RILTA ENVIRONMENTAL GREENOGUE INDUSTRIAL ESTATE RATCHOOLE Tel: 01 4018000 Fax: Email: info@rilta.ie

			In	specti	on repo	ort / Inspe	ection	: 1		_		
	Date : 31/10/2013	3	Job number :	- W	/eather: ght rain	Sewer cate	gory:	Section num 1	ber:	PLR suffix : X		
	Present :		Vehicle :	С	amera :	Preset	:	Cleaned : yes		Ope MIC	erator : HAEL	
Place : RILTA Road : RATHCOOLE Location Inspection MH20.4 (D/S) MH20.3			Location Catchme Tape nur Pipe leng	Location details: Catchment: Tape number : 311013_1 Pipe length :			U/S MH : MH20.4 U/S Depth : D/S MH : MH20.3 D/S Depth :					
Use: Year Purpo Total	laid : ose : length :	Oth	ner (state in comm	ents)	-	Pipe shape : Pipe size : Pipe material : Lining :		Circular 100.00 mm Polyvinyl chlori	cular ).00 mm Iyvinyl chloride (PVC)			
Com	nent:											
	1:798	Position	Code	Observ	ation				MPEG	Photo	Grade	
	$\bigcirc$										8	
	MH20.4	0.0	<u>0</u> ST	Start of su	urvey				00:00:34		(Misc) 0	
		0.0	<u>1</u> WL	Water lev	el, 5% of sew	er height					(Serv) 0	
		14.7	<u>6</u> D	Deformed	l sewer, 5% o	f original diamete	er/height		00:03:07	1_3A	(Struct) 2	
		27.4	MLO <u>9</u>	Open join wall thick	ıt, medium (be ness) Remark	tween 1.0 and 1 s: SEAL OUT	.5 times th	e pipe	00:06:31	1_4A	(Struct) 1	
		54.9	<u>6</u> D	Deformed	l sewer, 5% o	f original diamete	er/height		00:14:48	1_5A	(Struct) 2	
		101.30 101.30	<u>0</u> WL <u>0</u> FH	Water lev Finish sur	el, 5% of sew	er height					(Serv) 0 (Misc) 0	
	MH20.3											
Struct	ural Defects			×		Constructional F	eatures					
Servic	e Defects no def	STR peak	STR mean	STR total	STR grade	Miscellaneous Fe	SFR near	SEP mean	QED.	total	SER grade	
	3	20	0.4	41 RII			0	0	JER	0	1	



RILTA ENVIRONMENTAL // Page: 3





Photo: 1_5A, MPEG #: 311013_1, 00:14:48 54.96m, Deformed sewer, 5% of original diameter/height Your Ref: Our Ref : 7034 / KB / CH



Unit 47, Western Parkway Business Centre, Ballymount Rd, Dublin 12.

Tel: 00353 (0)1 4564991 Fax: 00353 (0)1 4564828 email: info@usa-ltd.ie

DATE	11-Oct-13								
LOCATION	Rilta, Greenogue Business Park								
OPERATIVES	Derek Tyrrell Sean Burke								
MANHOLE No. 1	Bund	Bund Hydrostatic Pipeline Test							
MANHOLE No. 2	Sump	Location A on attached plan							
SEWER DIAMETER	90								
SEWER MATERIAL	PVC								
SEWER LENGTH	35								
EFFLUENT TYPE		Foul	Storm	Process					
VOLUME OF WATER ADDED	0								
ALLOWABLE WATER	2.63								
in 30 minute period									
TEST RESULTS			Pass	Fail					
COMMENTS									
ALLOWABLE WATER LOSS PER METER RUN OF PIPE IN EACH 30 MINUTE PERIOD									
Diameter 150mm			<b>No. Of Litres</b>						
160mm			0.080						
200mm			0.100						
225mm			0.113						
300mm			0.150						
375mm			0.188						

## **USA Ltd**

## **APPENDIX H**

Environmental Management and Staffing Structure

## **<u>Rilta Environmental Management Structure</u>**

