Facility Information Summary	
Licence Register Number	W0048-01
Name of site	Kilmurry South Landfill
Site Location	Kilmurry South, Kilmacanogue, Bray, Co. Wicklow
NACE Code	
Class of Activity	Licensed activities (wrt SI 126 of 2011): D 1, D 15, R 3, R 5, R 13
RBME risk category	B3
National Grid Reference (6E, 6 N)	E324866, N212830
A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;	C&D materials (Soil & Stones, Concrete, Bituminous Mixtures, Mixed C&D Waste) are accepted at the facility for screening, segregation, sorting and grading and sold as product for re-use purposes. During 2011, no material was deposited on land at the facility. Any materials which were not sold from the facility are temporarily stored on site pending sale.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Louise O'Donnell*	28/03/2012
Signature	Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

* Patel Tonra Ltd., Environmental Consultants to Marrakesh Ltd.

AER summary template-AIR emissions

			Additional information
1	Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table 5 and 6) you only need to complete table 1 fugitive emissions on site below	No	

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Dust	Dust monitoring results <ELV	M
Methane (CH4)	LFG results <ELV	M
Carbon dioxide (CO2)	not quantified	M

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of Table 2 below	Yes	Concentrations of carbon dioxide measured in boreholes BH-1, BH-2, BH-8 and BH-9 were above the limits prescribed by Schedule E.2 for landfill gas measured in any building on or adjacent to the facility.
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring checklist AGN2	No	

Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Date of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	% change in mass load from previous year +/-	Comments
	SELECT			SELECT		SELECT	SELECT	SELECT			
	SELECT			SELECT		SELECT	SELECT	SELECT			

Note 1: Volumetric flow shall be included as a reportable parameter

AER summary template-AIR emissions

	Continuous Monitoring		Additional information
4	Does your site carry out continuous air emissions monitoring?	SELECT	
	If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	SELECT	

Table 3: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	% compliance current reporting year	Comments
	SELECT			SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table 4: Abatement system bypass reporting table Bypass protocol

Date*	Duration** (hours)	Location	Reason for bypass	Corrective action

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AER summary template-AIR emissions

	Additional information	
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5	SELECT	

Table 5: Solvent Management Plan Summary Total VOC Emission limit value			Solvent regulations	Please refer to linked solvent regulations to complete table 5 and 6	
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance
					SELECT
					SELECT

Table 6: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections	No	
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table 2 below summarising only any evidence of contamination noted during visual inspections	No	

Table 1 Ambient monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW-01	downstream	SELECT	SELECT	01/09/2011		SELECT		SELECT	SELECT	Sample point DRY
SW-02	upstream		BOD	01/09/2011	N/A		<2	mg/l		
SW-02	upstream		Calcium	01/09/2011	N/A		2.04	mg/l		
SW-02	upstream		Chloride	01/09/2011	N/A		12.2	mg/l		
SW-02	upstream		COD	01/09/2011	N/A		7	mg/l		
SW-02	upstream		Conductivity	01/09/2011	N/A		0.9	mS/ cm		
SW-02	upstream		DO	01/09/2011	N/A		9.94	mg/l		
SW-02	upstream		pH	01/09/2011	N/A		8	pH units		
SW-02	upstream		Sodium	01/09/2011	N/A		8.3	mg/l		
SW-02	upstream		Sulphate	01/09/2011	N/A		2.5	mg/l		
SW-02	upstream		Temperature	01/09/2011	N/A		14	deg C		
SW-02	upstream		TSS	01/09/2011	N/A		9.5	mg/l		
SW-03	downstream			01/09/2011						Sample point DRY

*trigger values may be agreed by the Agency outside of licence conditions

Table 2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

					Additional information
3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table 3 below			SELECT	
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	External /Internal Lab Quality checklist	Assessment of results checklist	SELECT	

Table 3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Date of Monitoring	Averaging period	ELV or trigger values in licence or any revision therof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	% change in mass load from previous year +/-	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT				

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Continuous monitoring

			Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	SELECT	

If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

6	Did continuous monitoring equipment experience downtime? **If yes please record downtime in table 4 below**	SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table 5 below**	SELECT	

Table 4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	% compliance current reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table 5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund/pipe testing report summary ALL IPPC/WASTE licensed facilities | **Intensive agriculture facilities please use alternative template**

Bund testing | dropdown menu click to see options

			Additional information
	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table 1 below listing all bunds and containment structures on site		
1		Yes	Fuel is stored in a double-skinned tank, within a metal container. Marrakesh Ltd. consider that the tank's location on site, and within a container unit, are adequate mitigation against potential vehicular damage. Bund testing not applicable in this instance.
2	Please provide integrity testing frequency period		
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	No	

Table 1: Summary details of bund integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

			Commentary
4	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?	bunding and storage guidelines	SELECT
5	Are channels/transfer systems to remote containment systems tested?		SELECT
6	Are channels/transfer systems compliant in both integrity and available volume?		SELECT
7	Do all sumps and chambers have high level liquid alarms?		SELECT
8	If yes to Q7 are these failsafe systems included in a maintenance and testing programme?		SELECT

Pipeline/underground structure testing

	Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all		
1	underground structures and pipelines on site	SELECT	
2	Please provide integrity testing frequency period	SELECT	

Table 2: Summary details of underground structures/pipeline integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Tank and Pipeline assessment reporting-Intensive Agriculture sector only

			Additional information if required
1	Is it a requirement of your licence to carry out a tank and pipeline assessment for effluent storage on site?	SELECT	
2	is it a requirement of your licence to submit a programme for agreement to the Agency prior to carrying out a tank and pipeline assessment?	SELECT	
3	If yes has a programme been submitted to the Agency for agreement on the testing and inspection of under and over-ground effluent storage tanks and pipelines? Please enter date of submission in additional information	SELECT	
4	What method has been proposed for the testing of under and over ground effluent storage tanks and pipelines?	SELECT	
5	Has the testing and inspection of under and over ground effluent storage tanks and pipelines been completed during the current reporting year? If no please enter date last tank and pipeline assessment was completed in additional information.	SELECT	
6	If Visual inspection was the method used were any cracks or defects detected? If yes please detail in additional information	SELECT	
7	If yes to Q6 have the cracks or defects been repaired successfully? If no please explain in additional information	SELECT	
8	If hydrogeological or geophysics investigation methods were used was there any evidence of contamination detected? If yes please detail in additional information	SELECT	
9	If yes to Q8 please detail proposed or completed remediation work in additional information		
10	Are there any leak detection systems on site? Please see Department of Agricultures S126 and EPA guidance on Storage and Bunding of materials for required systems S126.pdf bunding and storage guidelines	SELECT	
11	From the visual inspections carried out has any discharge been visible in the leak detection inspection chamber? If yes please enter details in table 1	SELECT	
12	Was it a requirement of your licence to analyse samples for the current reporting year. If yes please enter details of any samples taken in table 2 below	SELECT	
13	When is the next tank and pipeline assessment due?		
14	Does the licensee consider they are compliant with licence conditions?	SELECT	
15	Include details of any other findings of report		

Table 1: Visual inspection of leak detection chamber

Date	Evidence of discharge	Samples taken (reference in table 2)

Table 2: Samples collected from leak detection chamber

Date	Sample frequency	Sample id	Colour/Odour	Parameter	ELV (If applicable)	Measured value
	SELECT					
	SELECT					

Table 3 Storage capacity for Organic Fertiliser

Total organic fertiliser storage capacity (m3)	Quantity of organic fertiliser generated by the animals housed on site in previous reporting year	Total quantity of organic fertiliser moved off site and recorded in the organic fertiliser register and "record 3" as submitted to DAFM* in previous reporting year	Quantity of organic fertiliser on site at the start of reporting year	Quantity of organic fertiliser at close of current reporting year	Have records of movement of organic fertiliser (record 3) for the previous calendar year been submitted to DAFM?
					SELECT

*DAFM -Department of Agriculture Food and Marine

Complaints		
		Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	No	

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		

Total complaints open at start of reporting year	
Total new complaints received during reporting year	
Total complaints closed during reporting year	
Balance of complaints end of reporting year	

Incidents		
		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below	Yes	

*For information on how to report and what constitutes an incident	What is an incident

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Liklihood of reoccurence
01/09/2011	Breach of ELV	Other location (monitoring points BH-1, BH-2, BH-8, BH-9)	1. Minor	Air	Other (CO2)	Aerobic microbial activity in the boreholes	Normal activities	EPA	Recurring	None required	Not specified	Ongoing		High
01/09/2011	Breach of ELV	Other location (BH-3, BH-6, PW-3)	1. Minor	Water	Other (Total coliforms)	This type of contamination is not associated with the operation of an inert C&D waste recovery operation - thought to be due to human or animal waste from either the failure of domestic septic tanks/animal-based fertiliser	Normal activities	EPA	Recurring	None required	Not specified	Ongoing		High
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year	2
Total number of incidents previous year	2

Incidents	
% reduction/ increase	0

Groundwater /Contaminated land summary report

			Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no	
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT	Not applicable
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	SELECT	Not applicable
7	Please specify the proposed time frame for the remediation strategy	SELECT	Not applicable
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT	Not applicable
9	Has any type of risk assesment been carried out for the site?	SELECT	Not applicable
10	Has a Conceptual Site Model been developed for the site?	SELECT	Not applicable
11	Have potential receptors been identified on and off site?	SELECT	Not applicable
12	Is there evidence that contamination is migrating offsite?	SELECT	Not applicable

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
01/09/2011	BH-6	Aluminium	Lab analysis	Annually	0.018	0.018	mg/l	0.2	DWS	-11%	No
01/09/2011	BH-6	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/09/2011	BH-6	Arsenic	Lab analysis	Annually	<0.0012	<0.0012	mg/l	0.01	DWS	0%	No
01/09/2011	BH-6	Barium	Lab analysis	Annually	0.014	0.014	mg/l	-	DWS	7%	No
01/09/2011	BH-6	Boron	Lab analysis	Annually	0.011	0.011	mg/l	1	DWS	-309%	No
01/09/2011	BH-6	Cadmium	Lab analysis	Annually	0.0001	0.0001	mg/l	0.005	DWS	0%	No
01/09/2011	BH-6	Calcium	Lab analysis	Annually	3.1	3.1	mg/l	-	DWS	-22%	No
01/09/2011	BH-6	Chloride	Lab analysis	Annually	12.1	12.1	mg/l	250	DWS	7%	No
01/09/2011	BH-6	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/09/2011	BH-6	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS	0%	No
01/09/2011	BH-6	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
01/09/2011	BH-6	Electrical conductivity	On-site analysis	Annually	0.11	0.11	mS/cm	2.5	DWS	9%	No
01/09/2011	BH-6	Faecal Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	0%	No
01/09/2011	BH-6	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	BH-6	Groundwater Level	On-site analysis	Annually	6.95	6.95	m bgl	-	DWS	4%	No
01/09/2011	BH-6	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/09/2011	BH-6	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	BH-6	Lead	Lab analysis	Annually	0.0002	0.0002	mg/l	0.01	DWS	-900%	No
01/09/2011	BH-6	Magnesium	Lab analysis	Annually	1.81	1.81	mg/l	-	DWS	-35%	No
01/09/2011	BH-6	Manganese	Lab analysis	Annually	0.028	0.028	mg/l	0.05	DWS	29%	No
01/09/2011	BH-6	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	BH-6	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/09/2011	BH-6	Nickel	Lab analysis	Annually	0.001	0.001	mg/l	0.02	DWS	0%	No
01/09/2011	BH-6	Nitrate	Lab analysis	Annually	10.2	10.2	mg/l	50	DWS	-8%	No

Groundwater /Contaminated land summary report

01/09/2011	BH-6	Nitrite	Lab analysis	Annually	<0.05	<0.05	mg/l	0.5	DWS	0%	No
01/09/2011	BH-6	Orthophosphate	Lab analysis	Annually	0.056	0.056	mg/l	-	DWS	0%	No
01/09/2011	BH-6	pH	Lab analysis	Annually	6.4	6.4	pH units	6.5-9.5	DWS	-3%	No
01/09/2011	BH-6	Phosphorous, Total	Lab analysis	Annually	0.034	0.034	mg	-	DWS	41%	No
01/09/2011	BH-6	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/09/2011	BH-6	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/09/2011	BH-6	Selenium	Lab analysis	Annually	<0.0004	<0.0004	mg/l	0.01	DWS	0%	No
01/09/2011	BH-6	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	0%	No
01/09/2011	BH-6	Sodium	Lab analysis	Annually	8.68	8.68	mg/l	200	DWS	0%	No
01/09/2011	BH-6	Sulphate	Lab analysis	Annually	6.4	6.4	mg/l	250	DWS	-9%	No
01/09/2011	BH-6	Total Alkalinity	Lab analysis	Annually	9.5	9.5	mg/l	-	DWS	5%	No
01/09/2011	BH-6	Total Coliforms	Lab analysis	Annually	30	30	cfus/ 100ml	0	DWS	-3233%	No
01/09/2011	BH-6	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/09/2011	BH-6	Total Oxidised Nitrogen	Lab analysis	Annually	2.3	2.3	mg/l	-	DWS	-9%	No
01/09/2011	BH-6	Total Solids	Lab analysis	Annually	177	177	mg/l	-	DWS	67%	No
01/09/2011	BH-6	Zinc	Lab analysis	Annually	0.019	0.019	mg/l	-	DWS	-58%	No
							SELECT				SELECT

.+ where average indicates arithmetic mean

.++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT				SELECT
01/09/2011	BH-2	Aluminium	Lab analysis	Annually	<0.0029	<0.0029	mg/l	0.2	DWS	0%	No
01/09/2011	BH-2	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/09/2011	BH-2	Arsenic	Lab analysis	Annually	0.0003	0.0003	mg/l	0.01	DWS	-33%	No
01/09/2011	BH-2	Barium	Lab analysis	Annually	0.016	0.016	mg/l	-	DWS	-6%	No
01/09/2011	BH-2	Boron	Lab analysis	Annually	0.011	0.011	mg/l	1	DWS	18%	No
01/09/2011	BH-2	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/09/2011	BH-2	Calcium	Lab analysis	Annually	116	116	mg/l	-	DWS	0%	No
01/09/2011	BH-2	Chloride	Lab analysis	Annually	21	21	mg/l	250	DWS	24%	No
01/09/2011	BH-2	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	-300%	No

Groundwater /Contaminated land summary report

01/09/2011	BH-2	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS	0%	No
01/09/2011	BH-2	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
01/09/2011	BH-2	Electrical conductivity	On-site analysis	Annually	0.64	0.64	mS/cm	2.5	DWS	0%	No
01/09/2011	BH-2	Faecal Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	0%	No
01/09/2011	BH-2	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	BH-2	Groundwater Level	On-site analysis	Annually	3.81	3.81	m bgl	-	DWS	20%	No
01/09/2011	BH-2	Iron	Lab analysis	Annually	<0.02	<0.02	mg/l	0.2	DWS	0%	No
01/09/2011	BH-2	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	BH-2	Lead	Lab analysis	Annually	0.00003	0.00003	mg/l	0.01	DWS	33%	No
01/09/2011	BH-2	Magnesium	Lab analysis	Annually	5.81	5.81	mg/l	-	DWS	-2%	No
01/09/2011	BH-2	Manganese	Lab analysis	Annually	0.003	0.003	mg/l	0.05	DWS	0%	No
01/09/2011	BH-2	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	BH-2	Mineral Oils	Lab analysis	Annually	0.18	0.18	mg/l	-	DWS	59%	No
01/09/2011	BH-2	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	0.02	DWS	0%	No
01/09/2011	BH-2	Nitrate	Lab analysis	Annually	8.2	8.2	mg/l	50	DWS	24%	No
01/09/2011	BH-2	Nitrite	Lab analysis	Annually	<0.05	<0.05	mg/l	0.5	DWS	0%	No
01/09/2011	BH-2	Orthophosphate	Lab analysis	Annually	0.05	0.05	mg/l	-	DWS	0%	No
01/09/2011	BH-2	pH	Lab analysis	Annually	7.4	7.4	pH units	6.5-9.5	DWS	3%	No
01/09/2011	BH-2	Phosphorous, Total	Lab analysis	Annually	0.079	0.079	mg	-	DWS	-816%	No
01/09/2011	BH-2	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/09/2011	BH-2	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/09/2011	BH-2	Selenium	Lab analysis	Annually	0.0012	0.0012	mg/l	0.01	DWS	-42%	No
01/09/2011	BH-2	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	0%	No
01/09/2011	BH-2	Sodium	Lab analysis	Annually	13.2	13.2	mg/l	200	DWS	14%	No
01/09/2011	BH-2	Sulphate	Lab analysis	Annually	47.8	47.8	mg/l	250	DWS	28%	No
01/09/2011	BH-2	Total Alkalinity	Lab analysis	Annually	275	275	mg/l	-	DWS	29%	No
01/09/2011	BH-2	Total Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	0%	No
01/09/2011	BH-2	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/09/2011	BH-2	Total Oxidised Nitrogen	Lab analysis	Annually	1.86	1.86	mg/l	-	DWS	24%	No
01/09/2011	BH-2	Total Solids	Lab analysis	Annually	507	507	mg/l	-	DWS	10%	No
01/09/2011	BH-2	Zinc	Lab analysis	Annually	0.0054	0.0054	mg/l	-	DWS	-13%	No
01/09/2011	BH-3	Aluminium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.2	DWS	0%	No
01/09/2011	BH-3	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/09/2011	BH-3	Arsenic	Lab analysis	Annually	0.0004	0.0004	mg/l	0.01	DWS	0%	No
01/09/2011	BH-3	Barium	Lab analysis	Annually	0.027	0.027	mg/l	-	DWS	11%	No
01/09/2011	BH-3	Boron	Lab analysis	Annually	0.022	0.022	mg/l	1	DWS	55%	No
01/09/2011	BH-3	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/09/2011	BH-3	Calcium	Lab analysis	Annually	102	102	mg/l	-	DWS	-1%	No
01/09/2011	BH-3	Chloride	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	BH-3	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/09/2011	BH-3	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS	0%	No

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01/09/2011	BH-3	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
01/09/2011	BH-3	Electrical conductivity	On-site analysis	Annually	0.58	0.58	mS/cm	2.5	DWS	0%	No
01/09/2011	BH-3	Faecal Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	0%	No
01/09/2011	BH-3	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	BH-3	Groundwater Level	On-site analysis	Annually	6.61	6.61	m bgl	-	DWS	5%	No
01/09/2011	BH-3	Iron	Lab analysis	Annually	<0.02	<0.02	mg/l	0.2	DWS	0%	No
01/09/2011	BH-3	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Lead	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.01	DWS	0%	No
01/09/2011	BH-3	Magnesium	Lab analysis	Annually	6.15	6.15	mg/l	-	DWS	-1%	No
01/09/2011	BH-3	Manganese	Lab analysis	Annually	0.001	0.001	mg/l	0.05	DWS	-100%	No
01/09/2011	BH-3	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	BH-3	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Nickel	Lab analysis	Annually	0.0016	0.0016	mg/l	0.02	DWS	44%	No
01/09/2011	BH-3	Nitrate	Lab analysis	Annually	-	-	mg/l	50	DWS	0%	No
01/09/2011	BH-3	Nitrite	Lab analysis	Annually	-	-	mg/l	0.5	DWS	0%	No
01/09/2011	BH-3	Orthophosphate	Lab analysis	Annually	-	-	mg/l	-	DWS	0%	No
01/09/2011	BH-3	pH	Lab analysis	Annually	7.5	7.5	pH units	6.5-9.5	DWS	-1%	No
01/09/2011	BH-3	Phosphorous, Total	Lab analysis	Annually	0.042	0.042	mg	-	DWS	-150%	No
01/09/2011	BH-3	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/09/2011	BH-3	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Selenium	Lab analysis	Annually	0.0017	0.0017	mg/l	0.01	DWS	-12%	No
01/09/2011	BH-3	Silver	Lab analysis	Annually	<0.002	<0.002	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Sodium	Lab analysis	Annually	13.5	13.5	mg/l	200	DWS	6%	No
01/09/2011	BH-3	Sulphate	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	BH-3	Total Alkalinity	Lab analysis	Annually	245	245	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Total Coliforms	Lab analysis	Annually	63	63	cfus/ 100ml	0	DWS	81%	No
01/09/2011	BH-3	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/09/2011	BH-3	Total Oxidised Nitrogen	Lab analysis	Annually	1.04	1.04	mg/l	-	DWS	-5%	No
01/09/2011	BH-3	Total Solids	Lab analysis	Annually	399	399	mg/l	-	DWS	-37%	No
01/09/2011	BH-3	Zinc	Lab analysis	Annually	0.01	0.01	mg/l	-	DWS	10%	No
01/09/2011	BH-7	Aluminium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.2	DWS	0%	No
01/09/2011	BH-7	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/09/2011	BH-7	Arsenic	Lab analysis	Annually	0.0009	0.0009	mg/l	0.01	DWS	11%	No
01/09/2011	BH-7	Barium	Lab analysis	Annually	0.048	0.048	mg/l	-	DWS	6%	No
01/09/2011	BH-7	Boron	Lab analysis	Annually	0.065	0.065	mg/l	1	DWS	15%	No
01/09/2011	BH-7	Cadmium	Lab analysis	Annually	0.0001	0.0001	mg/l	0.005	DWS	0%	No
01/09/2011	BH-7	Calcium	Lab analysis	Annually	208	208	mg/l	-	DWS	13%	No
01/09/2011	BH-7	Chloride	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	BH-7	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	-67%	No
01/09/2011	BH-7	Copper	Lab analysis	Annually	0.001	0.001	mg/l	2	DWS	0%	No
01/09/2011	BH-7	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No

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01/09/2011	BH-7	Electrical conductivity	On-site analysis	Annually	1.05	1.05	mS/cm	2.5	DWS	13%	No
01/09/2011	BH-7	Faecal Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	-199900%	No
01/09/2011	BH-7	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	BH-7	Groundwater Level	On-site analysis	Annually	4.59	4.59	m bgl	-	DWS	31%	No
01/09/2011	BH-7	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/09/2011	BH-7	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Lead	Lab analysis	Annually	0.00008	0.00008	mg/l	0.01	DWS	50%	No
01/09/2011	BH-7	Magnesium	Lab analysis	Annually	12.6	12.6	mg/l	-	DWS	4%	No
01/09/2011	BH-7	Manganese	Lab analysis	Annually	0.001	0.001	mg/l	0.05	DWS	-800%	No
01/09/2011	BH-7	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	BH-7	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Nickel	Lab analysis	Annually	0.004	0.004	mg/l	0.02	DWS	25%	No
01/09/2011	BH-7	Nitrate	Lab analysis	Annually	-	-	mg/l	50	DWS	0%	No
01/09/2011	BH-7	Nitrite	Lab analysis	Annually	-	-	mg/l	0.5	DWS	0%	No
01/09/2011	BH-7	Orthophosphate	Lab analysis	Annually	-	-	mg/l	-	DWS	0%	No
01/09/2011	BH-7	pH	Lab analysis	Annually	6.5	6.5	pH units	6.5-9.5	DWS	-11%	No
01/09/2011	BH-7	Phosphorous, Total	Lab analysis	Annually	0.331	0.331	mg	-	DWS	41%	No
01/09/2011	BH-7	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	-70%	No
01/09/2011	BH-7	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Selenium	Lab analysis	Annually	0.0015	0.0015	mg/l	0.01	DWS	-13%	No
01/09/2011	BH-7	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Sodium	Lab analysis	Annually	22.2	22.2	mg/l	200	DWS	30%	No
01/09/2011	BH-7	Sulphate	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	BH-7	Total Alkalinity	Lab analysis	Annually	410	410	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Total Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	-199900%	No
01/09/2011	BH-7	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Total Oxidised Nitrogen	Lab analysis	Annually	0.193	0.193	mg/l	-	DWS	0%	No
01/09/2011	BH-7	Total Solids	Lab analysis	Annually	1430	1430	mg/l	-	DWS	37%	No
01/09/2011	BH-7	Zinc	Lab analysis	Annually	0.055	0.055	mg/l	-	DWS	45%	No
01/09/2011	BH-8	Aluminium	Lab analysis	Annually	0.009	0.009	mg/l	0.2	DWS	67%	No
01/09/2011	BH-8	Ammoniacal Nitrogen	Lab analysis	Annually	-	-	mg/l	0.39	DWS	0%	No
01/09/2011	BH-8	Arsenic	Lab analysis	Annually	0.0005	0.0005	mg/l	0.01	DWS	-60%	No
01/09/2011	BH-8	Barium	Lab analysis	Annually	0.012	0.012	mg/l	-	DWS	-92%	No
01/09/2011	BH-8	Boron	Lab analysis	Annually	0.017	0.017	mg/l	1	DWS	-35%	No
01/09/2011	BH-8	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	-100%	No
01/09/2011	BH-8	Calcium	Lab analysis	Annually	118	118	mg/l	-	DWS	-30%	No
01/09/2011	BH-8	Chloride	Lab analysis	Annually	22.9	22.9	mg/l	250	DWS	-7%	No
01/09/2011	BH-8	Chromium	Lab analysis	Annually	0.021	0.021	mg/l	0.05	DWS	86%	No
01/09/2011	BH-8	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS	0%	No
01/09/2011	BH-8	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No

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01/09/2011	BH-8	Electrical conductivity	On-site analysis	Annually	0.5	0.5	mS/cm	2.5	DWS	-68%	No
01/09/2011	BH-8	Faecal Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	0%	No
01/09/2011	BH-8	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	BH-8	Groundwater Level	On-site analysis	Annually	3	3	m bgl	-	DWS	27%	No
01/09/2011	BH-8	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/09/2011	BH-8	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	BH-8	Lead	Lab analysis	Annually	<0.00002	<0.00002	mg/l	0.01	DWS	-50%	No
01/09/2011	BH-8	Magnesium	Lab analysis	Annually	6.74	6.74	mg/l	-	DWS	-19%	No
01/09/2011	BH-8	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	0.05	DWS	-38350%	No
01/09/2011	BH-8	Mercury	Lab analysis	Annually	0.00001	0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	BH-8	Mineral Oils	Lab analysis	Annually	0.06	0.06	mg/l	-	DWS	83%	No
01/09/2011	BH-8	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	0.02	DWS	0%	No
01/09/2011	BH-8	Nitrate	Lab analysis	Annually	5.2	5.2	mg/l	50	DWS	25%	No
01/09/2011	BH-8	Nitrite	Lab analysis	Annually	<0.05	<0.05	mg/l	0.5	DWS	0%	No
01/09/2011	BH-8	Orthophosphate	Lab analysis	Annually	0.06	0.06	mg/l	-	DWS	17%	No
01/09/2011	BH-8	pH	Lab analysis	Annually	7.4	7.4	pH units	6.5-9.5	DWS	-1%	No
01/09/2011	BH-8	Phosphorous, Total	Lab analysis	Annually	0.675	0.675	mg	-	DWS	83%	No
01/09/2011	BH-8	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/09/2011	BH-8	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/09/2011	BH-8	Selenium	Lab analysis	Annually	0.001	0.001	mg/l	0.01	DWS	-100%	No
01/09/2011	BH-8	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	0%	No
01/09/2011	BH-8	Sodium	Lab analysis	Annually	14.6	14.6	mg/l	200	DWS	-27%	No
01/09/2011	BH-8	Sulphate	Lab analysis	Annually	64.4	64.4	mg/l	250	DWS	-24%	No
01/09/2011	BH-8	Total Alkalinity	Lab analysis	Annually	265	265	mg/l	-	DWS	-26%	No
01/09/2011	BH-8	Total Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	-1500%	No
01/09/2011	BH-8	Total Organic Carbon	Lab analysis	Annually	3.9	3.9	mg/l	-	DWS	8%	No
01/09/2011	BH-8	Total Oxidised Nitrogen	Lab analysis	Annually	1.19	1.19	mg/l	-	DWS	27%	No
01/09/2011	BH-8	Total Solids	Lab analysis	Annually	2,390	2,390	mg/l	-	DWS	67%	No
01/09/2011	BH-8	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	-	DWS	-67%	No
01/09/2011	PW-2	Aluminium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.2	DWS	0%	No
01/09/2011	PW-2	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/09/2011	PW-2	Arsenic	Lab analysis	Annually	0.0003	0.0003	mg/l	0.01	DWS	0%	No
01/09/2011	PW-2	Barium	Lab analysis	Annually	0.02	0.02	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Boron	Lab analysis	Annually	0.018	0.018	mg/l	1	DWS	44%	No
01/09/2011	PW-2	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/09/2011	PW-2	Calcium	Lab analysis	Annually	79.6	79.6	mg/l	-	DWS	5%	No
01/09/2011	PW-2	Chloride	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	PW-2	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/09/2011	PW-2	Copper	Lab analysis	Annually	0.025	0.025	mg/l	2	DWS	36%	No
01/09/2011	PW-2	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No

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01/09/2011	PW-2	Electrical conductivity	On-site analysis	Annually	0.48	0.48	mS/cm	2.5	DWS	4%	No
01/09/2011	PW-2	Faecal Coliforms	Lab analysis	Annually	0	0	cfus/ 100ml	0	DWS	0%	No
01/09/2011	PW-2	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/09/2011	PW-2	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/09/2011	PW-2	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Lead	Lab analysis	Annually	0.0004	0.0004	mg/l	0.01	DWS	0%	No
01/09/2011	PW-2	Magnesium	Lab analysis	Annually	4.1	4.1	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	0.05	DWS	90%	No
01/09/2011	PW-2	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/09/2011	PW-2	Mineral Oils	Lab analysis	Annually	0.16	0.16	mg/l	-	DWS	94%	No
01/09/2011	PW-2	Nickel	Lab analysis	Annually	0.0024	0.0024	mg/l	0.02	DWS	50%	No
01/09/2011	PW-2	Nitrate	Lab analysis	Annually	-	-	mg/l	50	DWS	0%	No
01/09/2011	PW-2	Nitrite	Lab analysis	Annually	-	-	mg/l	0.5	DWS	0%	No
01/09/2011	PW-2	Orthophosphate	Lab analysis	Annually	<0.03	<0.03	mg/l	-	DWS	0%	No
01/09/2011	PW-2	pH	Lab analysis	Annually	7.4	7.4	pH units	6.5-9.5	DWS	-5%	No
01/09/2011	PW-2	Phosphorous, Total	Lab analysis	Annually	<0.02	<0.02	mg	-	DWS	0%	No
01/09/2011	PW-2	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/09/2011	PW-2	Potassium	Lab analysis	Annually	<2.3	<2.3	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Selenium	Lab analysis	Annually	0.001	0.001	mg/l	0.01	DWS	0%	No
01/09/2011	PW-2	Silver	Lab analysis	Annually	<0.002	<0.002	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Sodium	Lab analysis	Annually	10.6	10.6	mg/l	200	DWS	-32%	No
01/09/2011	PW-2	Sulphate	Lab analysis	Annually	-	-	mg/l	250	DWS	0%	No
01/09/2011	PW-2	Total Alkalinity	Lab analysis	Annually	200	200	mg/l	-	DWS	10%	No
01/09/2011	PW-2	Total Coliforms	Lab analysis	Annually	102	102	cfus/ 100ml	0	DWS	96%	No
01/09/2011	PW-2	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/09/2011	PW-2	Total Oxidised Nitrogen	Lab analysis	Annually	1.78	1.78	mg/l	-	DWS	-25%	No
01/09/2011	PW-2	Total Solids	Lab analysis	Annually	287	287	mg/l	-	DWS	8%	No
01/09/2011	PW-2	Zinc	Lab analysis	Annually	0.078	0.078	mg/l	-	DWS	65%	No

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							SELECT				SELECT

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

Surface water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

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Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

Environmental Liability Risk Assessment

			Commentary
1	Is it a requirement of your licence to complete an ELRA?	Yes	
2	Has an initial ELRA been submitted to and approved by the Agency?	No	
3	Please enter the date of submission of the initial ELRA		
4	Date of most recent substantial ELRA update		
5	What financial instrument/s do you have in place to cover unknown liabilities?		
6	Has this financial instrument/s been verified by the Agency?		
7	What is the date of expiry of this financial instrument?		
8	Date of next required review of the ELRA?		

9 Please list the top 10 risks assessed on your site in table 1 below

Table 1 ELRA summary information

Click here to access EPA guidance on ELRA	Operational Risk Assessment Category	SELECT								
					Mitigation measures to reduce risk			ELRA		
	Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	Date of implementation of mitigation measures	Comment	Revised Risk score for current reporting year	ELRA costing	Does the current financial provision (FP) cover the risk score?
e.g	Chemical storage	Bund failure resulting in spillage of hazardous chemicals on site	Surface water /soil/groundwater contamination	6	Infrastructural improvements	31/05/2009	Relined all bunds >10years old on site	3	€10,000	Yes
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	SELECT			SELECT	SELECT			SELECT		SELECT
	Total			SELECT	SELECT			SELECT		SELECT

Closure Restoration Aftercare Management Plan/ Restoration plan (CRAMP/RP)

1	Was a closure or restoration plan a requirement of the licence?	Yes	
2	Has a closure plan submission been approved by the Agency?	No	
3	What is the timescale for submission?		
4	What financial instrument do you have in place to cover known liabilities?	SELECT	
5	What is the date of expiry of this financial instrument?		
6	What is the status of implementation of the plan?		

Table 2 CRAMP summary information (NON Landfill)

Date of submission of plan	Risk category	Closure plan in place	Clean closure	Restoration Aftercare Management Plan	Change in Risk category since previous year	Increase in risk category	Does the current financial provision cover the risk score?	Value of current financial provision for site
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	

Environmental Management Programme (EMP)/Continuous Improvement Programme

	Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Mangement System for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	No	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Waste reduction/Raw material usage efficiency	Maximise recovery of incoming wastes	100		Individual	Improved Environmental Management Practices
Groundwater protection	Ongoing monitoring and measurement - water	100		Individual	Improved Environmental Management Practices
Noise reduction	Ongoing monitoring and measurement - noise	100		Individual	Improved Environmental Management Practices
Reduction of emissions to Air	Ongoing monitoring and measurement - dust and landfill gas	100		Individual	Improved Environmental Management Practices

Noise Monitoring Report Summary

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table 1 noise summary below	Yes
2	Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? Draft Noise Guidance	No
3	Does your site have a noise reduction plan	No
4	When was the noise reduction plan last updated?	
5	Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?	No

Table 1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA_{90}	LA_{10}	LA_{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
30/09/2011	09:10 - 09:40		NSL1	49	40	52	73	No	SELECT		Yes
30/09/2011	09:50 - 10:20		NSL2	55	53	57	63	No			Yes

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options? SELECT

** please explain the reason for not taking action/resolution of noise issues?
(A) The dominant noise source in the area is traffic on the N11 road, which runs east of the Marrakesh Ltd site. (B) NSL3 was inaccessible during the 2011 monitoring round. (C) The Marrakesh site is not operational during the night-time period and therefore has no impact on the environmental noise climate

Resource usage/ Energy Efficiency

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	No audit completed other than ongoing monitoring of usage by licensee.	Cells D13 and E13 based on SEAI: 10.169kWh/litre of diesel
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	SEAI - Large Industry Energy Network (LIEN)	
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	no	
		SELECT	Not applicable

Table 1 Energy usage on site

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total	467,695.60	548,211.58	15%	
Electricity	3135	7475	58%	
Fossil Fuels:				
Heavy Fuel Oil	464,560.60	540,736.58	14%	
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year

** where site production information is available please enter percentage increase or decrease compared to previous yea

Table 2 Water usage on site

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater				
Surface water				
Public supply				
Total				

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year

** where site production information is available please enter percentage increase or decrease compared to previous yea

Table 3: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

SECTION A-PRTR WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | PRTR facility logon | dropdown list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

			Additional Information
1	Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting)	No	C&D materials (Soil & Stones, Concrete, Bituminous
	If yes please enter details in table 1 below		
2	Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No	
3	Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No	

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

	Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code (European Waste Catalogue EWC codes)	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which** European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Increase over previous year +/ - %	Reason for reduction/increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
E.g.	*100,000.00*	*170101*	*17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)*	*Concrete*	*36,942.00*	*27,314.00*	-35%	*Market demand*	*0%*	*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*19155*	*Qty remaining on site is the difference of material IN vs. OUT for 2011*
E.g.	*100,000.00*	*170302*	*17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)*	*Bituminous mixtures containing other than those mentioned in 17 03 01*	*4,089.00*	*4,325.00*	-5%	*Market demand*	*0%*	*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*1147*	*Qty remaining on site is the difference of material IN vs. OUT for 2012*
	100,000.00	*170504*	*17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)*	*Soil & Stones*	*18,653.00*	*32,462.00*	-43%	*Market demand*	*0%*	*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*4219*	*Qty remaining on site is the difference of material IN vs. OUT for 2013*
			SELECT				#DIV/0!			*SELECT*		

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4	Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite	N/A	
		SELECT	
5	Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site	N/A	
6	Does your facility have relevant nuisance controls in place?	Yes	
7	Do you have an odour management system in place for your facility? If no why?	N/A	
8	Do you maintain a sludge register on site?	N/A	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

	Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
e.g.	C&D	100,000	0		
e.g.					

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Entire LF	2000	N/A	No	Private	Inert		No						Not lined

Table 4 Environmental monitoring-landfill on Landfill Manual-Monitoring Standards

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Yes	N/A	Yes	Yes	No	No	No	No	No change in levels since previous topo survey

.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9	Is leachate from your site treated in a Waste Water Treatment Plant?	N/A
10	Is leachate released to surface water? If yes please complete leachate mass load information below	No

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
No			No	N/A

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011

1. FACILITY IDENTIFICATION

Parent Company Name	Marrakesh Limited
Facility Name	Kilmurry South
PRTR Identification Number	W0048
Licence Number	W0048-01

Waste or IPPC Classes of Activity

No.	class_name
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Bray
Address 2	Co. Wicklow
Address 3	
Address 4	
	Wicklow
Country	Ireland
Coordinates of Location	-6.13329 53.1506
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Antonia Lawlor
AER Returns Contact Email Address	marrakeshltd@gmail.com
AER Returns Contact Position	Office Manager
AER Returns Contact Telephone Number	(01) 2868119
AER Returns Contact Mobile Phone Number	087 6641866
AER Returns Contact Fax Number	(01) 2868119
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills
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?	Yes
Have you been granted an exemption ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
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	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
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	0.0

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

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

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

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

Landfill: Kilmurry South

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour	
			Method Code	Designation or Description		
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					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	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					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	0.0

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

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
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	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
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
					0.0	0.0	0.0

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	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/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	17 01 01	No	36,942	concrete	R5	M	Weighed	Offsite in Ireland	Various off-site reuse in construction-related activities,Not Applicable	.,.,.,.,Ireland		
Within the Country	17 03 02	No	4,089	bituminous mixtures containing other than those mentioned in 17 03 01	R5	M	Weighed	Offsite in Ireland	Various off-site reuse in construction-related activities,Not Applicable	.,.,.,.,Ireland		
Within the Country	17 05 04	No	18,653	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Offsite in Ireland	Various off-site reuse in construction-related activities,Not Applicable	.,.,.,.,Ireland		

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

Link to previous years waste data
Link to previous years waste summary data & percentage change