SELECT	cells that are highlighted blue contain a dropdown menu click to select one option from the list
guidance document link	cells that contain underlined text click to access relevant guidance documents for this section
Table heading *	table headings followed by a symbol have an associated footnote or instructions
Cells with red indicator in top right corner	cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Facility Information Summary

AER Reporting Year

Licence Register Number

Name of site

Site Location

NACE Code

Class/Classes of Activity

National Grid Reference (6E, 6 N)

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

2012

W0048-01

Marrakesh Ltd.

Kimurry South Landfill, Kilmurry South, Kilmacanogue, Bray, Co.

3821

D1, D15, R3, R5, R13

53.1506, -6.13329

C&D materials (e.g. Soil & Stones, Concrete, Bituminous Mixtures) are accepted at the facility for screening, segregation, sorting and grading and sold as product for re-use purposes.

During 2012, 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.

The facility continues to suffer from the collapse of the construction/demolition sector, with incoming tonnages significantly lower than a number of years ago.

There were no infrastructural or other significant changes during the reporting year.

Annual monitoring was conducted for: noise, LF gas, dust, surface water and groundwater. Noise - compliant; LF gas - reference limit value exceeded for CH4 and CO2; dust - compliant; surface water - reference limit value exceeded; groundwater - compliant.

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.

13th March 2013

Date

Environmental Consultant, Patel Tonra Ltd.

(or nominated, suitably qualified and experienced deputy)

	AIR-summary template	Lic No:	W0048-01	Year	2012	
1	Answer all questions and complete all tables where relevant Does your site have licensed air emissions? If yes please complete table A1 and A2 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 A4 and A5) you do not need to complete the tables		Dust deposition monitoring locations in	oring was conducted at two Aug. 2012 - results were below the tit value of 350 mg/m2/day.		
	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 TableA1 below	SELECT				

SELECT

AGN2

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

checklist

Emission reference no:		Frequency of	ELV in licence or any revision therof	Licence Compliance criteria		Compliant with licence limit	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT	SELECT	SELECT	SELECT		
	SELECT			SELECT	SELECT	SELECT	SELECT		
	SELECT			SELECT	SELECT	SELECT	SELECT		
	SELECT			SELECT	SELECT	SELECT	SELECT		

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

Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring

checklist?

	AID accompany	hamanlaka					11/0040.04		v	2012	
	AIR-summary	tempiate				Lic No:	W0048-01		Year	2012	
		Continuous Mo	nitoring								
4											
7	Does your site care	ry out continuous air emiss	sions monitoring?			SELECT				1	
	If yes please rev	•	itoring data and re ts relevant Emissio		d fields below in Table 3 and V)					_	
5	Did continuous mo	nitoring equipment experi	ence downtime? I	f yes please reco	rd downtime in table 3 below	SELECT				<u> </u>	
6											
	Do you have a proa	active service agreement fo	or each piece of co	ntinuous monito	ring equipment?	SELECT					
7	Did your site	experience any abatemen	it system bypasses	? If yes please de	etail them in table 4 below	SELECT					
	Table A2: Sum	mary of average emi	ssions -contin	uous monito	ring			·	·		
					-						
	Emission	Parameter/ Substance		Averaging	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
	roforonco no:			David					Equipment	avecadences in	

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

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

Table A3: Abatement system bypass reporting table Bypass protocol

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	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

AIR-summar	y template				Lic No:	W0048-01		Year	2012
	t use and managemen	t on site							
Do you have a to	otal Emission Limit Value of d	lirect and fugitive e	emissions on site	? if yes please fill out tables A4 a	nd A5		SELECT		
	lvent Management Pla nission limit value	an Summary	Solvent Please refer to linked solvent regulations complete table 5 and 6				SELECT		
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site		Total Emission Limit Value (ELV) in licence or any revision therof	Compliance	1			
					SELECT				
T-1-1- AF	Colored Marco Bolovo				SELECT				
Table A5	: Solvent Mass Balance	e summary							1
	(I) Inputs (kg)			((O) Outputs (kg)				
Solvent	(I) Inputs (kg)	Organic solvent emission in	Solvents lost in water (kg)		Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
									-
									-
	1	<u> </u>	<u> </u>	1	<u> </u>		Total		1

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0048-01	Year
				Additional information	
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections	No	Only need to	o complete table W1 and or W2 for surface water anal visual inspections	lysis and
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 W2 below summarising only any evidence of contamination noted during visual inspections	No		No requirement to complete Table W2	

Table W1 Surface water monitoring

Tubic V	ri surrace ma	ter 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-1	upstream	SELECT	BOD	01/08/2012	None specified	N/A	<2	mg/l	yes	
SW-1	upstream	SELECT	Calcium	01/08/2012	None specified	N/A	194	mg/l	yes	
SW-1	upstream	SELECT	Chloride	01/08/2012	None specified	N/A	10.2	mg/l	yes	
SW-1	upstream	SELECT	COD	01/08/2012	None specified	N/A	110	mg/l	yes	
SW-1	upstream	SELECT	Conductivity	01/08/2012	None specified	N/A	0.12	mS/ cm	yes	
SW-1	upstream	SELECT	DO	01/08/2012	None specified	N/A	6.48	mg/l	yes	Breached Salmonid Water Regs.
SW-1	upstream	SELECT	pH	01/08/2012	None specified	N/A	8.3	pH units	yes	
SW-1	upstream	SELECT	Sodium	01/08/2012	None specified	N/A	17.5	mg/l	yes	
SW-1	upstream	SELECT	Sulphate	01/08/2012	None specified	N/A	<2	mg/l	yes	
SW-1	upstream	SELECT	Temperature	01/08/2012	None specified	N/A	16.4	deg C	yes	
SW-1	upstream	SELECT	TSS	01/08/2012	None specified	N/A	580	mg/l	yes	Breached Salmonid Water Regs.
								mg/l		
SW-2	upstream	SELECT	BOD	01/08/2012	None specified	N/A	<2	mg/l	yes	
SW-2	upstream	SELECT	Calcium	01/08/2012	None specified	N/A	1.38	mg/l	yes	
SW-2	upstream	SELECT	Chloride	01/08/2012	None specified	N/A	10.7	mg/l	yes	
SW-2	upstream	SELECT	COD	01/08/2012	None specified	N/A	11	mg/l	yes	
SW-2	upstream	SELECT	Conductivity	01/08/2012	None specified	N/A	0.09	mS/ cm	yes	
SW-2	upstream	SELECT	DO	01/08/2012	None specified	N/A	9.25	mg/l	yes	
SW-2	upstream	SELECT	pH	01/08/2012	None specified	N/A	7.3	pH units	yes	
SW-2	upstream	SELECT	Sodium	01/08/2012	None specified	N/A	7.5	mg/l	yes	
SW-2	upstream	SELECT	Sulphate	01/08/2012	None specified	N/A	<2.0	mg/l	yes	
SW-2	upstream	SELECT	Temperature	01/08/2012	None specified	N/A	14.2	deg C	yes	
SW-2	upstream	SELECT	TSS	01/08/2012	None specified	N/A	13.3	mg/l	yes	
SW-3	downstream	select	DRY	01/08/2012			DRY			

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

Table W2 Visual inspections-Please only enter details where contamination was observed.

NOT APPLICABLE

2012

				NOTALLECABLE	
Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
NOT					
APPLICABLE			SELECT		
			SELECT		•

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

NOT APPLICABLE

3	Was there any result in breach of licence requirements? If y comment section of Table W3			SELECT	Additional information	
	Was all monitoring carried out in accordance with EPA					
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal				
	Data Reported to the EPA? If no please detail what areas	Lab Quality	Assessment of			
4	require improvement in additional information box	checklist	results checklist	SELECT		

/ LETT TOTAL	ring returns su	mmary template-W	ATER/WASTEW	ATER(SEWER)		Lic No:	W0048-01		Year	2012					
Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring		ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value		Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			
<u> </u>															
Note 1: Volume	tric flow shall be in-	cluded as a reportable para	meter			<u> </u>		l]
		es (ELV) do not apply to yo		npare results again	nst EQS for Surface	water or relevant rece	eptor quality standards								
Continuous	monitorina						A delta 1 to for one at the		NOT 1001/640/5						
Continuous	•						Additional Information		NOT APPLICABLE						
Does your site carry out continuous emissions to water/sewer monitoring? SELECT															
its relevant Emi	ssion Limit Value (I	ent experience downtime?	P If yes please record	d downtime in	SELECT										
		ntract for each piece of cor	ntinuous monitoring	equipment on											
Do you have a p	roactive service co	ntract for each piece of cor			SELECT										
Do you have a p	roactive service co	ntract for each piece of cor		olete table W5	SELECT SELECT										
Do you have a p site? Did abatement : below	roactive service co		r? If yes please comp	olete table W5											
Do you have a p site? Did abatement : below	roactive service co	ir during the reporting year	r? If yes please comp	olete table W5	SELECT										1
Do you have a p site? Did abatement : below	roactive service co	or during the reporting year	r? If yes please comp	olete table W5	SELECT			% change +/- from previous reporting	Monitoring	Number of ELV					
Do you have a p site? Did abatement : below	roactive service co	ir during the reporting year	r? If yes please comp tinuous monito	ring	SELECT NOT APPLICABLE	Units of	Annual Emission for current		0	Number of ELV exceedences in					
Do you have a p site? Did abatement : below Table W4: S	roactive service co system bypass occu ummary of ave Emission released to	er during the reporting year erage emissions -con Parameter/ Substance	tinuous monito	ring Averaging Period	SELECT NOT APPLICABLE Compliance Criteria	measurement	Annual Emission for current reporting year (kg)	previous reporting	Equipment			Comm	nents		
Do you have a p site? Did abatement : below Table W4: S	roactive service co system bypass occu ummary of ave	er during the reporting year	tinuous monito ELV or trigger values in licence or any revision	ring Averaging	SELECT NOT APPLICABLE Compliance			previous reporting	Equipment	exceedences in		Comm	nents		

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

Table W5: Abatement syst	em bypass reporting	table	NOT APPLICABLE

	atement syst	ciii aypass i choi tiii.g	100.0	THO I THIT EIGHDEE			
Date	Duration (hours)	Location	Resultant	Reason for	Corrective	Was a report	When was this report submitted?
			emissions	bypass	action*	submitted to the	
						EPA?	
						SELECT	

^{*}Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template				Lic No:	W0048-01		Year	201	2				
Bund testing	dropdown menu	click to see options				Additional information	_						
Are you required by your licence to underta containment structures on site, in addition the table below						Fuel is stored in a double-skinned tank, within a metal container. Marrakesh ttd. consider that the tank's location on site, and within a container unit, are adequate mitigation against potential vehicular damage. Bund testing not							
Please provide integrity testing frequency process the site maintain a register of bunds, type units and mobile bunds)		ormwater and foul), Tanks, sum	nps and containers? (contain	ers refers to "Chemstore"	Yes SELECT	applicable in this instance.							
4 How many bunds are on site? 5 How many of these bunds have been tested 6 How many mobile bunds are on site? 7 Are the mobile bunds included in the bund	test schedule?	4.12			SELECT								
8 How many of these mobile bunds have bee 9 How many sumps on site are included in th 10 How many of these sumps are integrity test Please list any sump integrity failures in tal 11 Do all sumps and chambers have high level	e integrity test schedule? ted within the test schedule? ble B1	ruule:			SELECT								
12 If yes to Q11 are these failsafe systems incl Table B1: Summary deta	uded in a maintenance and testing p sils of bund /containment structure i												
Bund/Containment								Integrity reports		Integrity test failure		Scheduled date	
structure ID Type SELECT	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test SELECT	Other test type	Test date	site? SELECT	Results of test SELECT	explanation <50 words	Corrective action taken SELECT	for retest	reportin
*Capacity required should comply with 25% or 110% conta Has integrity testing been carried out in acc 14 line with BS8007/EPA Guidance? 15 Are channels/transfer systems to remote co 16 Are channels/transfer systems compilant in	ordance with licence requirements a ontainment systems tested?		bunding and storage guideli	nes	SELECT SELECT SELECT SELECT	Commentary		SELECT	SELECT		SELECT		
Pipeline/underground structure testin Are you required by your licence to underta 1 underground structures and pipelines on si	g ske integrity testing on underground		nps etc ? if yes please fill ou	t table 2 below listing all	SELECT]						
2 Please provide integrity testing frequency p Table B2: Summary detail	eriod s of pipeline/underground structures	s integrity test	7		SELECT						_		
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	SELECT	SELECT SELECT	-55 Words	tunell	ioi retest	SELECT			
	News	nmentary for additional details											

Groundwater/Soil monitoring template Lic No: W0048-01 Year 2012

1	Are you required to carry out groundwater monitoring as part of your licence
-	requirements?

- 2 Are you required to carry out soil monitoring as part of your licence requirements?
- $^{\,\,3}\,$ Do you extract groundwater for use on site? If yes please specify use in comment section
- 4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12
- 5 Is the contamination related to operations at the facility (either current and/or historic)
- 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site
- 7 Please specify the proposed time frame for the remediation strategy
- 8 Is there a licence condition to carry out/update ELRA for the site?
- 9 Has any type of risk assesment been carried out for the site?
- 10 Has a Conceptual Site Model been developed for the site?
- 11 Have potential receptors been identified on and off site?
- 12 Is there evidence that contamination is migrating offsite?

	Comments
yes	
no	
no	
no	
SELECT	NOT APPLICABLE
	NOT APPLICABLE
SELECT	NOT APPLICABLE

Table 1: Upgradient Groundwater monitoring results

											Upward trend in
										% change in	pollutant
	Sample									average	concentration over last
Date of	location	Parameter/			Maximum	Average				concentration	5 years of monitoring
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration++	Concentration+	unit	GTV's*	SELECT**	previous year +/-	data
01/08/2012	BH-6	Aluminium	Lab analysis	Annually	0.006	0.006	mg/l	0.2	DWS	-200%	No
01/08/2012		Ammoniacal									
	BH-6	Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/08/2012	BH-6	Arsenic	Lab analysis	Annually	0.0001	0.0001	mg/l	0.01	DWS	-1100%	No
01/08/2012	BH-6	Barium	Lab analysis	Annually	0.012	0.012	mg/l	-	DWS	-17%	No
01/08/2012	BH-6	Boron	Lab analysis	Annually	0.018	0.018	mg/l	1	DWS	39%	No
01/08/2012	BH-6	Cadmium	Lab analysis	Annually	0.0001	0.0001	mg/l	0.005	DWS	0%	No
01/08/2012	BH-6	Calcium	Lab analysis	Annually	2.91	2.91	mg/l	-	DWS	-7%	No
01/08/2012	BH-6	Chloride	Lab analysis	Annually	11	11	mg/l	250	DWS	-10%	No
01/08/2012	BH-6	Chromium	Lab analysis	Annually	< 0.003	< 0.003	mg/l	0.05	DWS	0%	No
01/08/2012	BH-6	Copper	Lab analysis	Annually	0.001	0.001	mg/l	2	DWS	10%	No
01/08/2012	BH-6	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
01/08/2012		Electrical									
	BH-6		On-site analysis	Annually	0.1	0.1	mS/cm	2.5	DWS	-10%	No
01/08/2012	DILLO	Faecal	1.1	A II				_			
	BH-6	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	#VALUE!	No
01/08/2012	BH-6	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/08/2012	BH-6	Groundwater Level	On-site analysis	Annually	6.72	6.72	m bgl		DWS	-3%	No
04 /00 /2042	BH-6	Iron	Lab analysis	Annually	<0.019	<0.019		- 0.2			
01/08/2012	рп-о	Kjeldahl	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/08/2012	BH-6	Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/08/2012	BH-6	Lead	Lab analysis	Annually	0.0003	0.0003	mg/l	0.01	DWS	33%	No
01/08/2012	BH-6	Magnesium	Lab analysis	Annually	2.47	2.47	mg/l	-	DWS	27%	No
01/08/2012	BH-6	Manganese	Lab analysis	Annually	0.014	0.014	mg/l	0.05	DWS	-100%	No

Groundwa	ater/Soil mo	onitoring te	mplate		Lic No:	W0048-01		Year	2012		
01/08/2012	BH-6	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/08/2012	BH-6	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/08/2012	BH-6	Nickel	Lab analysis	Annually	0.0009	0.0009	mg/l	0.02	DWS	-11%	No
01/08/2012	BH-6	Nitrate	Lab analysis	Annually	10.8	10.8	mg/l	50	DWS	6%	No
01/08/2012	BH-6	Nitrite	Lab analysis	Annually	< 0.05	< 0.05	mg/l	0.5	DWS	0%	No
01/08/2012	BH-6	Orthophosph ate	Lab analysis	Annually	<0.05	<0.05	mg/l	-	DWS	-12%	No
01/08/2012	BH-6	pН	Lab analysis	Annually	6.1	6.1	pH units	6.5-9.5	DWS	-5%	No
01/08/2012	BH-6	Phosphorous, Total	Lab analysis	Annually	0.026	0.026	mg	-	DWS	-31%	No
01/08/2012	BH-6	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/08/2012	BH-6	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/08/2012	BH-6	Selenium	Lab analysis	Annually	<0.0004	<0.0004	mg/l	0.01	DWS	0%	No
01/08/2012	BH-6	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	0%	No
01/08/2012	BH-6	Sodium	Lab analysis	Annually	7.85	7.85	mg/l	200	DWS	-11%	No
01/08/2012	BH-6	Sulphate	Lab analysis	Annually	6	6	mg/l	250	DWS	-7%	No
01/08/2012	BH-6	Total Alkalinity	Lab analysis	Annually	8.5	8.5	mg/l	-	DWS	-12%	No
01/08/2012	BH-6	Total Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS		No
01/08/2012	BH-6	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/08/2012		Total Oxidised	,	•							
	BH-6	Nitrogen	Lab analysis	Annually	2.5	2.5	mg/l	-	DWS	8%	No
01/08/2012		Total Solids	Lab analysis	Annually	137	137	mg/l	-	DWS	-29%	No
01/08/2012	BH-6	Zinc	Lab analysis	Annually	0.018	0.018	mg/l	-	DWS	-6%	No

⁺ where average indicates arithmetic mean

Table 2: Downgradient Groundwater monitoring results

			ate:oto								
Date of sampling	Sample location reference BH-2	Parameter/ Substance	Methodology Lab analysis	Monitoring frequency Annually	Maximum Concentration <0.0029	Average Concentration <0.0029	unit	GTV's* 0.2	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data No
01/08/2012			Lab analysis	Annually	<0.0029	<0.0029	mg/l	0.2	סוועם	0%	NO
01/08/2012	BH-2	Ammoniacal Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/08/2012	BH-2	Arsenic	Lab analysis	Annually	0.0003	0.0003	mg/l	0.01	DWS	0%	No
01/08/2012	BH-2	Barium	Lab analysis	Annually	0.013	0.013	mg/l	-	DWS	-23%	No
01/08/2012	BH-2	Boron	Lab analysis	Annually	0.013	0.013	mg/l	1	DWS	15%	No
01/08/2012	BH-2	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/08/2012	BH-2	Calcium	Lab analysis	Annually	127	127	mg/l	-	DWS	9%	No
01/08/2012	BH-2	Chloride	Lab analysis	Annually	19	19	mg/l	250	DWS	-11%	No
01/08/2012	BH-2	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/08/2012	BH-2	Copper	Lab analysis	Annually	<0.0009	< 0.0009	mg/l	2	DWS	0%	No
01/08/2012	BH-2	Cyanide	Lab analysis	Annually	< 0.05	< 0.05	mg/l	0.05	DWS	0%	No
01/08/2012	BH-2	Electrical conductivity	On-site analysis	Annually	0.63	0.63	mS/cm	2.5	DWS	-2%	No
01/08/2012	BH-2	Faecal Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No

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

Groundwa	iter/Soil m	onitoring te	mplate		Lic No:	W0048-01		Year	2012		
01/08/2012	BH-2	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/08/2012		Groundwater					<u>.</u>				
, ,	BH-2	Level	On-site analysis	Annually	2.36	2.36	m bgl	-	DWS	-61%	No
01/08/2012	BH-2	Iron	Lab analysis	Annually	<0.02	<0.02	mg/l	0.2	DWS	0%	No
01/08/2012	DI I O	Kjeldahl	1.1	A II			41		DWG	201	
	BH-2	Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/08/2012	BH-2	Lead	Lab analysis	Annually	0.00003	0.00003	mg/l	0.01	DWS	0%	No
01/08/2012	BH-2	Magnesium	Lab analysis	Annually	6.09	6.09	mg/l	-	DWS	5%	No
01/08/2012	BH-2	Manganese	Lab analysis	Annually	0.0002	0.0002	mg/l	0.05	DWS	-1400%	No
01/08/2012	BH-2	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/08/2012	BH-2	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	-1700%	No
01/08/2012	BH-2	Nickel	Lab analysis	Annually	0.001	0.001	mg/l	0.02	DWS	-100%	No
01/08/2012	BH-2	Nitrate	Lab analysis	Annually	6.3	6.3	mg/l	50	DWS	-30%	No
01/08/2012	BH-2	Nitrite	Lab analysis	Annually	< 0.05	<0.05	mg/l	0.5	DWS	0%	No
01/08/2012	DILLO	Orthophosph	lah asahais	A	0.05	0.05	"	_	DWG	201	
, ,	BH-2	ate	Lab analysis	Annually	<0.05	<0.05	mg/l		DWS	0%	No
01/08/2012	BH-2	pH	Lab analysis	Annually	7.4	7.4	pH units	6.5-9.5	DWS	0%	No
01/08/2012	BH-2	Phosphorous, Total	Lab analysis	Annually	0.115	0.115	ma	_	DWS	31%	No
01/08/2012	BH-2	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg mg/l	0.0001	DWS	0%	No
01/08/2012	BH-2	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/08/2012	BH-2	Selenium	Lab analysis	Annually	0.0019	0.0019	mg/l	0.01	DWS	37%	No
01/08/2012	BH-2	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	0.01	DWS	0%	No
01/08/2012	BH-2	Sodium	Lab analysis	Annually	11.1	11.1	Ū.	200	DWS	-19%	No
-	BH-2	Sulphate	Lab analysis	Annually	49.9	49.9	mg/l	250	DWS	-19% 4%	No
01/08/2012	DI I-Z	Total	Lab arialysis	Aillidally	49.9	43.3	mg/l	230	DWS	470	INU
01/08/2012	BH-2	Alkalinity	Lab analysis	Annually	295	295	mg/l	-	DWS	7%	No
01/08/2012		Total	1	•						.,.	
,,	BH-2	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No
01/08/2012		Total									
	511.0	Organic							51116		
	BH-2	Carbon Total	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/08/2012		Oxidised									
	BH-2	Nitrogen	Lab analysis	Annually	1.42	1.42	mg/l	_	DWS	-31%	No
01/08/2012	BH-2	Total Solids	Lab analysis	Annually	584	584	mg/l	-	DWS	13%	No
01/08/2012	BH-2	Zinc	Lab analysis	Annually	<0.0004	<0.0004	mg/l	-	DWS	-1250%	No
01/08/2012	22		Lab analysis	7 ti ii ludiiy	10.0001	10.0001	1116/1		50	123070	110
01/08/2012	BH-3	Aluminium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.2	DWS	0%	No
01/08/2012	50	Ammoniacal	Lab analysis	7 ti ii ludiiy	10.000	10.000	1116/1	0.2	50	070	110
01/08/2012	BH-3	Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/08/2012	BH-3	Arsenic	Lab analysis	Annually	0.0004	0.0004	mg/l	0.01	DWS	0%	No
01/08/2012	BH-3	Barium	Lab analysis	Annually	0.022	0.022	mg/l	-	DWS	-23%	No
01/08/2012	BH-3	Boron	Lab analysis	Annually	0.021	0.021	mg/l	1	DWS	-5%	No
01/08/2012	BH-3	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/08/2012	BH-3	Calcium	Lab analysis	Annually	117	117	mg/l	-	DWS	13%	No
01/08/2012	BH-3	Chloride	Lab analysis	Annually	17	17	mg/l	250	DWS	N/A	No
01/08/2012	BH-3	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/08/2012	BH-3	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS	0%	No
01/08/2012	BH-3	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
01/08/2012	=	Electrical	,				01.			0,0	
31,00,2012	BH-3	conductivity	On-site analysis	Annually	0.58	0.58	mS/cm	2.5	DWS	0%	No
01/08/2012		Faecal					·				
	BH-3	Coliforms	Lab analysis	Annually	-		cfus/ 100ml	0	DWS	N/A	No

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01/08/2012	BH-3	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/08/2012		Groundwater					•				
, ,	BH-3	Level	On-site analysis	Annually	6.37	6.37	m bgl	-	DWS	-4%	No
01/08/2012	BH-3	Iron	Lab analysis	Annually	<0.02	<0.02	mg/l	0.2	DWS	0%	No
01/08/2012		Kjeldahl									
	BH-3	Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/08/2012	BH-3	Lead	Lab analysis	Annually	0.00006	0.00006	mg/l	0.01	DWS	-233%	No
01/08/2012	BH-3	Magnesium	Lab analysis	Annually	6.59	6.59	mg/l	-	DWS	7%	No
01/08/2012	BH-3	Manganese	Lab analysis	Annually	0.0008	0.0008	mg/l	0.05	DWS	-25%	No
01/08/2012	BH-3	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/08/2012	BH-3	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/08/2012	BH-3	Nickel	Lab analysis	Annually	0.0011	0.0011	mg/l	0.02	DWS	-45%	No
01/08/2012	BH-3	Nitrate	Lab analysis	Annually	4.88	4.88	mg/l	50	DWS	N/A	No
01/08/2012	BH-3	Nitrite	Lab analysis	Annually	<0.05	<0.05	mg/l	0.5	DWS	N/A	No
01/08/2012		Orthophosph					6/ ·			,	
01/08/2012	BH-3	ate	Lab analysis	Annually	< 0.05	< 0.05	mg/l	-	DWS	N/A	No
01/08/2012	BH-3	pН	Lab analysis	Annually	7.6	7.6	pH units	6.5-9.5	DWS	1%	No
01/08/2012		Phosphorous,		,			p				
01/00/2012	BH-3	Total	Lab analysis	Annually	0.052	0.052	mg	-	DWS	19%	No
01/08/2012	BH-3	PAHs (16)	Lab analysis	Annually	<0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/08/2012	BH-3	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/08/2012	BH-3	Selenium	Lab analysis	Annually	0.0015	0.0015	mg/l	0.01	DWS	-13%	No
01/08/2012	BH-3	Silver	Lab analysis	Annually	<0.002	<0.002	mg/l	-	DWS	0%	No
01/08/2012	BH-3	Sodium	Lab analysis	Annually	11.9	11.9	mg/l	200	DWS	-13%	No
· · · · -	BH-3	Sulphate	Lab analysis	Annually	48	48	mg/l	250	DWS	N/A	No
01/08/2012	DIFO	Total	Lab arialysis	Allitually	40	40	IIIg/I	230	DWS	N/A	INU
01/08/2012	BH-3	Alkalinity	Lab analysis	Annually	255	255	mg/l	_	DWS	4%	No
01/08/2012	20	Total	Lab analysis	7 ii ii daiiy	200	200	1116/1		20	470	NO
01/08/2012	BH-3	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No
01/08/2012		Total	· '	•			,			, , , , , , , , , , , , , , , , , , ,	-
01,00,2012		Organic									
	BH-3	Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	0%	No
01/08/2012		Total									
		Oxidised									
	BH-3	Nitrogen	Lab analysis	Annually	1.11	1.11	mg/l	-	DWS	6%	No
01/08/2012	BH-3	Total Solids	Lab analysis	Annually	367	367	mg/l	-	DWS	-9%	No
01/08/2012	BH-3	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	-	DWS	-233%	No
01/08/2012											
01/08/2012	BH-7	Aluminium	Lab analysis	Annually	0.017	0.017	mg/l	0.2	DWS	82%	No
01/08/2012		Ammoniacal									
	BH-7	Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	0%	No
01/08/2012	BH-7	Arsenic	Lab analysis	Annually	0.0006	0.0006	mg/l	0.01	DWS	-50%	No
01/08/2012	BH-7	Barium	Lab analysis	Annually	0.006	0.006	mg/l	-	DWS	-700%	No
01/08/2012	BH-7	Boron	Lab analysis	Annually	0.011	0.011	mg/l	1	DWS	-491%	No
01/08/2012	BH-7	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/08/2012	BH-7	Calcium	Lab analysis	Annually	13	13	mg/l	-	DWS	-1500%	No
01/08/2012	BH-7	Chloride	Lab analysis	Annually	10.5	10.5	mg/l	250	DWS	N/A	No
01/08/2012	BH-7	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	0%	No
01/08/2012	BH-7	Copper	Lab analysis	Annually	0.001	0.001	mg/l	2	DWS	0%	No
01/08/2012	BH-7	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	0%	No
· · · · -	Di I-7	Electrical	Lab analysis	Airidally	\0.00	\0.03	1118/1	0.00	DWG	070	INU
01/08/2012	BH-7	conductivity	On-site analysis	Annually	0.94	0.94	mS/cm	2.5	DWS	-12%	No
01/08/2012	DI Z	Faecal	Lab and Co	A !!			·	_	DWG		
	BH-7	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No

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01/08/2012	BH-7	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/08/2012		Groundwater	Ì								
	BH-7	Level	On-site analysis	Annually	2.66	2.66	m bgl	-	DWS	-73%	No
01/08/2012	BH-7	Iron	Lab analysis	Annually	0.053	0.053	mg/l	0.2	DWS	64%	No
01/08/2012	D	Kjeldahl	1.1	A II					DWO	201	
	BH-7	Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/08/2012	BH-7	Lead	Lab analysis	Annually	0.00016	0.00016	mg/l	0.01	DWS	50%	No
01/08/2012	BH-7	Magnesium	Lab analysis	Annually	2.14	2.14	mg/l	-	DWS	-489%	No
01/08/2012	BH-7	Manganese	Lab analysis	Annually	0.001	0.001	mg/l	0.05	DWS	0%	No
01/08/2012	BH-7	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/08/2012	BH-7	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	0%	No
01/08/2012	BH-7	Nickel	Lab analysis	Annually	0.0002	0.0002	mg/l	0.02	DWS	-1900%	No
01/08/2012	BH-7	Nitrate	Lab analysis	Annually	2.21	2.21	mg/l	50	DWS	N/A	No
01/08/2012	BH-7	Nitrite	Lab analysis	Annually	<0.05	<0.05	mg/l	0.5	DWS	N/A	No
01/08/2012	DUIZ	Orthophosph	lah asahusia	A	0.00	0.00	41		DWC		
	BH-7	ate	Lab analysis	Annually	0.09	0.09	mg/l	-	DWS	N/A	No
01/08/2012	BH-7	pH	Lab analysis	Annually	6.7	6.7	pH units	6.5-9.5	DWS	3%	No
01/08/2012	BH-7	Phosphorous, Total	Lab analysis	Annually	0.052	0.052	ma	_	DWS	-537%	No
01/08/2012	BH-7	PAHs (16)	Lab analysis	Annually	<0.002	<0.0002	mg mg/l	0.0001	DWS	0%	No
01/08/2012	BH-7	Potassium	Lab analysis	Annually	<2.34	<2.34		0.0001	DWS	0%	No
	BH-7	Selenium	Lab analysis	Annually	<0.0004	<0.0004	mg/l	0.01	DWS	-275%	No
01/08/2012	BH-7	Silver	Lab analysis	Annually	<0.0004	<0.0015	mg/l	0.01	DWS	-275% 0%	No
01/08/2012				•	5.2		mg/l		DWS		
01/08/2012	BH-7	Sodium	Lab analysis	Annually		5.2	mg/l	200	DWS	-327%	No
01/08/2012	BH-7	Sulphate Total	Lab analysis	Annually	<2	<2	mg/l	250	DWS	N/A	No
01/08/2012	BH-7	Alkalinity	Lab analysis	Annually	41	41	mg/l	_	DWS	-900%	No
01/08/2012	B	Total	Lab ariaryolo	7 ti il lucilly	71	1	IIIg/I		5110	-30076	IVO
01/08/2012	BH-7	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No
01/08/2012		Total		•			,			,	
, ,		Organic									
	BH-7	Carbon	Lab analysis	Annually	3.76	3.76	mg/l	-	DWS	20%	No
01/08/2012		Total									
	BH-7	Oxidised Nitrogen	Lab analysis	Annually	0.5	0.5	/1	_	DWS	C10/	NI-
01/00/2012	BH-7	Total Solids	Lab analysis	Annually	100	100	mg/l	<u> </u>	DWS	61% -1330%	No
01/08/2012	BH-7		,	,	0.002	0.002	mg/l		DWS		No
01/08/2012	ВП-1	Zinc	Lab analysis	Annually	0.002	0.002	mg/l	-	DWS	-2650%	No
01/08/2012	DILO	A la sera incia sera	l ab anabaia	A III -	0.000	0.000	/1	0.0	DWC	2000/	NI.
01/08/2012	BH-8	Aluminium Ammoniacal	Lab analysis	Annually	<0.003	<0.003	mg/l	0.2	DWS	-200%	No
01/08/2012	BH-8	Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	N/A	No
01/08/2012	BH-8	Arsenic	Lab analysis	Annually	0.0005	0.0005	mg/l	0.01	DWS	0%	No
01/08/2012	BH-8	Barium	Lab analysis	Annually	0.015	0.015	mg/l	-	DWS	20%	No
01/08/2012	BH-8	Boron	Lab analysis	Annually	0.018	0.018	mg/l	1	DWS	6%	No
01/08/2012	BH-8	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	0%	No
01/08/2012	BH-8	Calcium	Lab analysis	Annually	148	148	mg/l	0.000	DWS	20%	No
	BH-8	Chloride	Lab analysis	Annually	21.5	21.5	-	250	DWS	-7%	No
01/08/2012	BH-8	Chromium	Lab analysis	Annually	<0.030	<0.030	mg/l	0.05	DWS	30%	No
01/08/2012	BH-8	Copper	Lab analysis	Annually	<0.0009	<0.0009	mg/l	2	DWS		
01/08/2012	BH-8	Cyanide	Lab analysis	Annually	<0.009	<0.009	mg/l	0.05	DWS	0% 0%	No No
01/08/2012	ВП-0	Electrical	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	פאט	U%	NO
01/08/2012	BH-8	conductivity	On-site analysis	Annually	0.77	0.77	mS/cm	2.5	DWS	35%	No
01/08/2012	BH-8	Faecal Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No

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01/08/2012	BH-8	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	0%	No
01/08/2012		Groundwater									
	BH-8	Level	On-site analysis	Annually	2.37	2.37	m bgl	-	DWS	-27%	No
01/08/2012	BH-8	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	0%	No
01/08/2012		Kjeldahl									
	BH-8	Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	0%	No
01/08/2012	BH-8	Lead	Lab analysis	Annually	0.00002	0.00002	mg/l	0.01	DWS	0%	No
01/08/2012	BH-8	Magnesium	Lab analysis	Annually	7.46	7.46	mg/l	-	DWS	10%	No
01/08/2012	BH-8	Manganese	Lab analysis	Annually	0.001	0.001	mg/l	0.05	DWS	-100%	No
01/08/2012	BH-8	Mercury	Lab analysis	Annually	< 0.00001	<0.00001	mg/l	0.001	DWS	0%	No
01/08/2012	BH-8	Mineral Oils	Lab analysis	Annually	<0.01	<0.01	mg/l	-	DWS	-500%	No
01/08/2012	BH-8	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	0.02	DWS	0%	No
01/08/2012	BH-8	Nitrate	Lab analysis	Annually	17.3	17.3	mg/l	50	DWS	70%	No
01/08/2012	BH-8	Nitrite	Lab analysis	Annually	< 0.05	<0.05	mg/l	0.5	DWS	0%	No
01/08/2012		Orthophosph	1	,			S,				
01,00,2012	BH-8	ate	Lab analysis	Annually	< 0.05	< 0.05	mg/l	-	DWS	-20%	No
01/08/2012	BH-8	pН	Lab analysis	Annually	7	7	pH units	6.5-9.5	DWS	-6%	No
01/08/2012		Phosphorous,		-			,				
0-,00,-00-	BH-8	Total	Lab analysis	Annually	0.876	0.876	mg	-	DWS	23%	No
01/08/2012	BH-8	PAHs (16)	Lab analysis	Annually	< 0.0002	<0.0002	mg/l	0.0001	DWS	0%	No
01/08/2012	BH-8	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	0%	No
01/08/2012	BH-8	Selenium	Lab analysis	Annually	0.001	0.001	mg/l	0.01	DWS	0%	No
01/08/2012	BH-8	Silver	Lab analysis	Annually	< 0.0015	<0.0015	mg/l	-	DWS	0%	No
01/08/2012	BH-8	Sodium	Lab analysis	Annually	16.5	16.5	mg/l	200	DWS	12%	No
01/08/2012	BH-8	Sulphate	Lab analysis	Annually	63.2	63.2	mg/l	250	DWS	-2%	No
01/08/2012		Total					6/ .			2,0	
01/00/2012	BH-8	Alkalinity	Lab analysis	Annually	360	360	mg/l	-	DWS	26%	No
01/08/2012		Total					<u> </u>				
0-,00,-00-	BH-8	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No
01/08/2012		Total									
		Organic									
_	BH-8	Carbon	Lab analysis	Annually	<3.0	<3.0	mg/l	-	DWS	-30%	No
01/08/2012		Total Oxidised									
	BH-8	Nitrogen	Lab analysis	Annually	3.92	3.92	ma/I	_	DWS	70%	No
01/00/2012	BH-8	Total Solids	Lab analysis	Annually	1350	1350	mg/l		DWS	-77%	No
01/08/2012	BH-8	Zinc			0.001	0.001	mg/l	-	DWS	-200%	
01/08/2012	рп-о	ZITIC	Lab analysis	Annually	0.001	0.001	mg/l		DWS	-200%	No
01/08/2012	DIA C	A1	1.1	A II			,	0.0	DIMO		
01/08/2012	PW-2	Aluminium Ammoniacal	Lab analysis	Annually	-	-	mg/l	0.2	DWS	N/A	No
01/08/2012	PW-2	Nitrogen	Lab analysis	Annually	_		mg/l	0.39	DWS	N/A	No
04/00/2042	PW-2	Arsenic		,	<u> </u>	-		0.01	DWS		No
01/08/2012	PW-2	_	Lab analysis	Annually	-	-	mg/l	0.01	DWS	N/A	
01/08/2012		Barium	Lab analysis	Annually			mg/l			N/A	No
01/08/2012	PW-2	Boron	Lab analysis	Annually	-	-	mg/l	1	DWS	N/A	No
01/08/2012	PW-2	Cadmium	Lab analysis	Annually	-	-	mg/l	0.005	DWS	N/A	No
01/08/2012	PW-2	Calcium	Lab analysis	Annually	-	-	mg/l		DWS	N/A	No
01/08/2012	PW-2	Chloride	Lab analysis	Annually	-	-	mg/l	250	DWS	N/A	No
01/08/2012	PW-2	Chromium	Lab analysis	Annually	-	-	mg/l	0.05	DWS	N/A	No
01/08/2012	PW-2	Copper	Lab analysis	Annually	-	-	mg/l	2	DWS	N/A	No
01/08/2012	PW-2	Cyanide	Lab analysis	Annually	-	-	mg/l	0.05	DWS	N/A	No
01/08/2012		Electrical									
	PW-2	conductivity	On-site analysis	Annually	-	-	mS/cm	2.5	DWS	N/A	No
01/08/2012		Faecal	1		1	I	l	1			l

Groundwai	ter/Soli m	onitoring te	mpiate		Lic No:	W0048-01		Year	2012		
01/08/2012	PW-2	Fluoride	Lab analysis	Annually	-	-	mg/l	1.5	DWS	N/A	N
01/08/2012		Groundwater									
	PW-2	Level	On-site analysis	Annually	-	-	m bgl	-	DWS	N/A	1
01/08/2012	PW-2	Iron	Lab analysis	Annually	-	-	mg/l	0.2	DWS	N/A	ı
01/08/2012	DW 0	Kjeldahl	Lab anabaia	A			/1		DWC	21/2	
	PW-2	Nitrogen	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Lead	Lab analysis	Annually	-	-	mg/l	0.01	DWS	N/A	- 1
01/08/2012	PW-2	Magnesium	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Manganese	Lab analysis	Annually	-	-	mg/l	0.05	DWS	N/A	
01/08/2012	PW-2	Mercury	Lab analysis	Annually	-	-	mg/l	0.001	DWS	N/A	l
01/08/2012	PW-2	Mineral Oils	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Nickel	Lab analysis	Annually	-	-	mg/l	0.02	DWS	N/A	
01/08/2012	PW-2	Nitrate	Lab analysis	Annually	-	-	mg/l	50	DWS	N/A	
01/08/2012	PW-2	Nitrite	Lab analysis	Annually	-	-	mg/l	0.5	DWS	N/A	ı
01/08/2012	PW-2	Orthophosph ate	Lab analysis	Annually			/1		DWS	N/A	
01/00/2012	PW-2		Lab analysis		-	-	mg/l	6505	DWS	N/A	1
01/08/2012	PVV-Z	pH Phosphorous,	Lab analysis	Annually	-	-	pH units	6.5-9.5	DWS	N/A	ı
01/08/2012	PW-2	Total	Lab analysis	Annually	_	_	mg	_	DWS	N/A	1
01/08/2012	PW-2	PAHs (16)	Lab analysis	Annually	-	-	mg/l	0.0001	DWS	N/A	
01/08/2012	PW-2	Potassium	Lab analysis	Annually	_	_	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Selenium	Lab analysis	Annually	_	_	mg/l	0.01	DWS	N/A	
01/08/2012	PW-2	Silver	Lab analysis	Annually	-	_	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Sodium	Lab analysis	Annually	-	-	mg/l	200	DWS	N/A	
01/08/2012	PW-2	Sulphate	Lab analysis	Annually		_	mg/l	250	DWS	N/A N/A	
01/08/2012	1 44-2	Total	Lab analysis	Airidally			IIIg/I	230	DWO	IN/A	
01/08/2012	PW-2	Alkalinity	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012		Total		<u> </u>			O/			,	
,,	PW-2	Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	
01/08/2012		Total									
	DW 0	Organic	Lab anabaia	A			/1		DWC	21/2	
	PW-2	Carbon Total	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	I
01/08/2012		Oxidised									
	PW-2	Nitrogen	Lab analysis	Annually	_	_	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Total Solids	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012	PW-2	Zinc	Lab analysis	Annually	-	-	mg/l	-	DWS	N/A	
01/08/2012				· · · · · · · · · · · · · · · · · · ·			J,	1		, , , , , , , , , , , , , , , , , , ,	
01/08/2012	PW-3	Aluminium	Lab analysis	Annually	<0.003	< 0.003	mg/l	0.2	DWS	N/A	
01/08/2012		Ammoniacal	 				- Or			,	
-, 00, 2012	PW-3	Nitrogen	Lab analysis	Annually	<0.2	<0.2	mg/l	0.39	DWS	N/A	
01/08/2012	PW-3	Arsenic	Lab analysis	Annually	0.0002	0.0002	mg/l	0.01	DWS	N/A	
01/08/2012	PW-3	Barium	Lab analysis	Annually	0.0011	0.0011	mg/l	-	DWS	N/A	
01/08/2012	PW-3	Boron	Lab analysis	Annually	0.013	0.013	mg/l	1	DWS	N/A	
01/08/2012	PW-3	Cadmium	Lab analysis	Annually	<0.0001	<0.0001	mg/l	0.005	DWS	N/A	
01/08/2012	PW-3	Calcium	Lab analysis	Annually	36.9	36.9	mg/l	-	DWS	N/A	
01/08/2012	PW-3	Chloride	Lab analysis	Annually	15.2	15.2	mg/l	250	DWS	N/A	
01/08/2012	PW-3	Chromium	Lab analysis	Annually	<0.003	<0.003	mg/l	0.05	DWS	N/A	
01/08/2012	PW-3	Copper	Lab analysis	Annually	0.001	0.001	mg/l	2	DWS	N/A	
01/08/2012	PW-3	Cyanide	Lab analysis	Annually	<0.05	<0.05	mg/l	0.05	DWS	N/A	
01/08/2012		Electrical					-				
	PW-3	conductivity	On-site analysis	Annually	0.36	0.36	mS/cm	2.5	DWS	N/A	- 1
01/08/2012		Faecal	1		1	1	1				· · · · · · · · · · · · · · · · · · ·

Groundwa	ter/Soil m	onitoring ten	nplate		Lic No:	W0048-01		Year	2012		
01/08/2012	PW-3	Fluoride	Lab analysis	Annually	<0.5	<0.5	mg/l	1.5	DWS	N/A	No
01/08/2012	PW-3	Iron	Lab analysis	Annually	<0.019	<0.019	mg/l	0.2	DWS	N/A	No
01/08/2012	PW-3	Kjeldahl Nitrogen	Lab analysis	Annually	<1	<1	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Lead	Lab analysis	Annually	0.00004	0.00004	mg/l	0.01	DWS	N/A	No
01/08/2012	PW-3	Magnesium	Lab analysis	Annually	15	15	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Manganese	Lab analysis	Annually	0.0159	0.0159	mg/l	0.05	DWS	N/A	No
01/08/2012	PW-3	Mercury	Lab analysis	Annually	<0.00001	<0.00001	mg/l	0.001	DWS	N/A	No
01/08/2012	PW-3	Mineral Oils	Lab analysis	Annually	0.159	0.159	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Nickel	Lab analysis	Annually	0.0009	0.0009	mg/l	0.02	DWS	N/A	No
01/08/2012	PW-3	Nitrate	Lab analysis	Annually	4.82	4.82	mg/l	50	DWS	N/A	No
01/08/2012	PW-3	Nitrite	Lab analysis	Annually	0.07	0.07	mg/l	0.5	DWS	N/A	No
01/08/2012	PW-3	Orthophosph ate	Lab analysis	Annually	<0.05	<0.05	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	рН	Lab analysis	Annually	7.9	7.9	pH units	6.5-9.5	DWS	N/A	No
01/08/2012	PW-3	Phosphorous, Total	Lab analysis	Annually	<0.02	<0.02	mg	-	DWS	100%	No
01/08/2012	PW-3	PAHs (16)	Lab analysis	Annually	<0.0002	< 0.0002	mg/l	0.0001	DWS	N/A	No
01/08/2012	PW-3	Potassium	Lab analysis	Annually	<2.34	<2.34	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Selenium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.01	DWS	N/A	No
01/08/2012	PW-3	Silver	Lab analysis	Annually	<0.0015	<0.0015	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Sodium	Lab analysis	Annually	14.3	14.3	mg/l	200	DWS	N/A	No
01/08/2012	PW-3	Sulphate	Lab analysis	Annually	13.6	13.6	mg/l	250	DWS	N/A	No
01/08/2012	PW-3	Total Alkalinity	Lab analysis	Annually	155	155	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Total Coliforms	Lab analysis	Annually	-	-	cfus/ 100ml	0	DWS	N/A	No
01/08/2012	PW-3	Total Organic Carbon	Lab analysis	Annually	<3	<3	mg/l	-	DWS	N/A	No
01/08/2012	PW-3	Total Oxidised Nitrogen	Lab analysis	Annually	1.1	1.1	mg/l	_	DWS	N/A	No
01/08/2012	PW-3	Total Solids	Lab analysis	Annually	240	240	mg/l	_	DWS	N/A	No
01/08/2012	PW-3	Zinc	Lab analysis	Annually	0.005	0.005	mg/l	-	DWS	N/A	No
01/08/2012	PVV-3	ZIIIC	Lan anaiysis	Aillually	0.003	0.003	mg/i SELECT	-	מאמ	IN/A	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.

Surface regulations (private supply)
water EQS GTV's standards

vate supply) Drinking water (public supply) standards

^{**}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)

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 Liabilities template Lic No: W0048-01 Year 2012

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Required but not submitted	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0048-01	Year	2012
	Highlighted cells contain dropdown menu click to view	template	Additional Information	***************************************	rear	2012
			/ taartieriar iiireriiiatieri		7	
1	Do you maintain an Environmental Mangement System (EMS) 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				
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance					
3	with the licence requirements	Yes				
	Do you maintain an environmental documentation/communication system to inform the public on					
4	environmental performance of the facility, as required by the licence	Yes				

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

SELECT

Noise monitoring summary report	Lic No:	W0048-01	Year	2012
1 Was noise monitoring a licence requirement for the AER period?		Yes	7	_
If yes please fill in table N1 noise summary below		. 65	⊥	
	Noise			
2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist	<u>Guidance</u>	Yes		
for noise measurement report" included in the guidance note as table 6?	note NG4			
3 Does your site have a noise reduction plan		No		
4 When was the noise reduction plan last updated?			7	
Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the survey?	e last noise	No		
			_	

Table N1: Noi	se monitoring sum	mary									
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 <u>site</u> compliant with noise limits (day/evening/night)?
31/08/2012	10:30 - 11:00		NSL1	46	43	47	68	No	SELECT		Yes
31/08/2012	12:26 - 12:56		NSL1	45	42	46	66	No			Yes
31/08/2012	14:30 - 15:00		NSL1	49	42	45	72	No			Yes
31/08/2012	11:50 - 12:20		NSL2	51	47	51	68	No			Yes
31/08/2012	13:41 - 14:11		NSL2	49	47	50	68	No			Yes
31/08/2012	16:17 - 16:47		NSL2	49	45	51	73	No			Yes
31/08/2012	11:10 - 11:40		NSL3	62	59	64	71	No			Yes
31/08/2012	13:08 - 13:38		NSL3	63	60	65	77	Yes		The dominant source of noise at this point	Yes
31/08/2012	15:43 - 16:13		NSL3	62	59	64	76	No		was traffic noise from the adjacent motorway	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?

** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	W0048-01	Year	2012	

Additional information Cells D10 and E10

based on SEAI:

10.169kWh/litre of

diesel

Not Applicable

No audit completed

other than ongoing

monitoring of usage by licensee. 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

3	Where Fuel Oil is used in boilers on s		t compliant with licence information	e conditions? Please	state percentage in	SELEC
_			1			
Ļ	Table R1 Energy usag	e on site			1	
ŀ	Table R1 Energy usag	e on site		Production +/- %	Energy	1
	Table R1 Energy usag	e on site			Energy Consumption +/- %	
L	Table R1 Energy usag	e on site		compared to	0,	
E	Table R1 Energy usag	e on site Previous year		compared to	Consumption +/- %	

			previous reporting	V3 OVCI dii 3itC
Energy Use	Previous year	Current year	year**	production*
Total Energy Used (MWHrs)	548	386	-29.58%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (M	/IWHrs)			
Electricity Consumption (MWHrs)	7.475	4.699	-37.14%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	53.18	37.5	-29.48%	
Light Fuel Oil (m3)				
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				
* where consumption of energy can be	e compared to overall sit	te production please en	ter this information	as percentage increas

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 year

Table R2 Water usage	e on site	ĺ			Water Emissions	Water Consumption	
	Water extracted			consumption i, i	Volume Discharged back to	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
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 year

Resource Usage/Energy efficiency summary Lic No: W0048-01 Year 2012

Table R3 Waste Stream	Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)	55	14.1		40.96	

Table R4: Energy Au	dit finding recommendat	tions						
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility		Status and comments
			SELECT	3	, , , , , , , , , , , , , , , , , , ,	,	,	
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on	Site				

Complaints and Incidents summary template	Lic No:	W0048-01	Year	2012
Complaints				
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	Additional inform	ation		

Table	1 Complaints summary						
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
open at start of reporting year Total new complaints received during reporting year Total complaints							
closed during							
reporting year		1					
Balance of complaints end of reporting year							

	Incidents			
				Additional information
Have any incidents occurred on site in the current report	ting year? Please list all incide	ents for current reporting		
year in Tab	le 2 below	_	No	
*For information on how to report and what				
constitutes an incident	What is an incident			

incidents previous year % reduction/ increase

Table 2 Incidents sur	mmary		7											
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at time			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	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 number of														
incidents current														
year														
Total number of														

WASTE SUMMARY	,				Lic No:	W0048-01		Year	2012		
	N SITE WASTE TREATMENT	AND WASTE TRANSFERS	TAB- TO BE COMPL			PRTR facility logo	on		ist click to see options		
SECTION B- WASTE	ACCEPTED ONTO SITE-TO	BE COMPLETED BY ALL IP	PC AND WASTE FAC	LITIES]					
	ed onto your site for recovery or dis	posal or treatment prior to recov	ery or disposal within the	ooundaries of your facility	?; (waste generated within your	Yes	Additional Information C&D materials (Soil & Stones, Concrete, Bituminous	on The Control of the			
If yes please enter details	s in table 1 below						1	<u>.</u> 1			
Did your site have any re	jected consignments of waste in th	e current reporting year? If yes pl	ease give a brief explanation	on in the additional inform	ation	No					
	te accepted onto your site that was				n additional information de wastes generated at you	No ur site as th	ese will have h	een reported in v	our PRTR workhook)		
Licenced annual tonnage limit for your site (total tonnes/annum)	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/Incr ease 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 -
10000	170101	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	concrete	21,791.43	36,942.00	-41%	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	634	Qty remaining on site is the difference of material IN vs. OUT for 2012
10000	17.05.04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stones	15946.05	18653	-15%	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	9748	Qty remaining on site is the difference of material IN vs. OUT for 2012
100000	170302	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Bituminous Mixtures	2,963	4,089		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		Qty remaining on site is the difference of material IN vs. OUT for 2012
		225,		1,222	.,,555			-			
	COMPLETED BY ALL WASTE		•		ry facilities etc) EXCEPT LANDF	Yes SELECT					

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why? 8 Do you maintain a sludge register on site?

WASTE SUMMARY	,				Lic No:	W0048-01		Year	2012			1	
	COMPLETED BY LANDFILL SI	TEC CAULY	1		LIC NO:	WUU46-U1	•	Tedi	2012				
	e and tonnage-landfill only	ITES ONLY	_										
Table 2 waste type	and tonnage-iandini only				1								
Waste types permitted for disposal C&D	Authorised/licenced annual intake for disposal (tpa) 100,000	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments									
	,												
					4								
			l		1								
Table 3 General inf	ormation-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
T. I. I. A. E	and an about a dealer of												
Was meterological	ntal monitoring-landfill onl	Landfill Manual-Monitoring Star	ndards I										
monitoring in compliance with Landfill Directive (LD) standard in reporting	compliance with LD standard in	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					
	N/A	Yes	Yes	No	No	No	No	No change in levels since	previous topo survey				
	Manual linked above for relevant L	andfill Directive monitoring stan	dards										
	(*)						_						
Table 5 Capping-La	ndfill only												
Table 5 Capping-La	Area with temporary cap	Area with final cap to LD		Area with waste that should be permanently capped to date under									
Table 5 Capping-La		Area with final cap to LD Standard m2 ha, a	Area capped other	should be permanently	What materials are used in the cap	Comments							

*please note this includes daily cover area

Table 6 Leachate-Landfill only9 Is leachate from your site treated in a Waste Water Treatment Plant?

10 Is leachate released to surface water? If yes please complete leachate mass load information below

N/A N/A

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

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



Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2012

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

	Web Address
	User Feedback/Comments
4	Number of Employees
0	Number of Operating Hours in Year
0	Number of Installations
	Production Volume Units
0.0	Production Volume
01-8020525	AER Returns Contact Fax Number 01-8020525
086-8333724	AER Returns Contact Mobile Phone Number 086-8333724
01-8020523	AER Returns Contact Telephone Number 01-8020523
Environmental Consultant	AER Returns Contact Position Environmental Consultant
louise.odonnell@pateltonra.com	AER Returns Contact Email Address louise.odonnell@pateltonra.com
Louise O'Donnell	AER Returns Contact Name Louise O'Donnell
Main Economic Activity Treatment and disposal of non-hazardous waste	Main Economic Activit
3821	NACE Code 3821
IEEA	River Basin District IEEA
-6.13329 53.1506	Coordinates of Location -6.13329 53.1506
Ireland	Country
Wicklow	
	Address 4
	Address 3
Address 2 Co. Wicklow	Address
Bray	Address 1
4.4 Recycling or reclamation of other inorganic materials.	4.
4.2 processes).	4.
as solvents (including composting and other biological transformation	
Recycling or reclamation of organic substances which are not used	
4.13 produced.	4.1
a preceding paragraph of this Schedule, other than temporary	
Storage of waste intended for submission to any activity referred to in	
3.13 collection, on the premises where the waste concerned is produced.	3.1
paragraph of this Schedule, other than temporary storage, pending	
Storage prior to submission to any activity referred to in a preceding	
3.1 Deposit on, in or under land (including landfill).	œ
No. class_name	No
	NI.

2. PRTR CLASS ACTIVITIES Activity Number

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)	(2)
Is it applicable? No	No
Have you been granted an exemption ? No	No
If applicable which activity class applies (as per	
Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being	
used?	

A. WASTE IMPORTED/ACCEPTED ONTO SITE

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

This question is only applicable if you are an IPPC or Quarry site.

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR	Please e			Please enter all quantities	is			
PO	LLUTANT	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

Link to previous years emissions data

SECTION B: REMAINING PRTR POLLUTANTS

			Please enter all quantities in this section in KGs							
	POLLUTANT			ME	ETHOD	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
ď						0.0		0.0	0.0	0.0

 $^{^{\}star}$ 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 KG	is			
P	POLLUTANT			METHOD	QUANTITY					
			Method Used							
Pollutant No.	Name	M/C/E	M/C/E Method Code Designation or Description		Emission Point 1	T (Total) KG/Year	Α ((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) KGlyr 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			Meth	nod Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as per						
site model)	0.0				N/A	
Methane flared	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	

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only Please enter all quantities in this section in KGs

	RELEASES TO WATERS		Flease effer all quantities in this section in Ros						
PO	LLUTANT						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

		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)

- 1			Please enter all quantities in this section in KGs						
	POLLUTANT			QUANTITY					
ı					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
1						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 A : PRTR POLITITANTS

SECTION A . PRIR PULLUTANTS										
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs					
POLLUTANT			ME	THOD	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		

Link to previous years emissions data

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

SECTION B: REMAINING POLLUTANT EMIS	SIONS (as required in your Licence)									
OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-W	VATER TREATMENT OR SEWER			Please enter all quantities in this section in KGs					
PO	METHOD			QUANTITY						
			Met	hod Used						
Pollutant No.	o. Name		M/C/E Method Code Designation or Description		Emission Point 1	T (Total) KG/Year	A (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

^{*} 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

PRTR#: W0048 | Facility Name: Kilmurry South | Filename: W0048-01 PRTR 2012.xls | Return Year: 2012 |

28/03/2013 15:45

SECTION A: PRTR POLLUTANTS

SECTION A. PRINTPOLLO		EASES TO LAND	Please enter all quantities in this section in KGs						
POLLUTANT			MET	HOD		QUANTITY			
				/lethod 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)

	SECTION B. REMAINING FOLLOTANT EMISSIONS (as required in your elecence)										
		RELEASES TO LAND	Please enter all quantities in this section in KGs								
	POLLUTANT			ME	THOD				ANTITY		
					Method Used						
F	Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (A	ccidental) 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

_	Please enter all quantities on this sheet in Tonnes 6												
				Quantity (Tonnes per Year)		W4-		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/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)
		European Waste				Waste Treatment			Location of				
	Transfer Destination		Hazardous		Description of Waste		M/C/E	Method Used	Treatment				
Ĭ										Various off-site reuse in	•		
	Within the Country	17 01 01	No	21791.43	concrete	R5	М	Weighed		construction-related activities,Not Applicable Various off-site reuse in	.,,,,,,lreland		
,	Within the Country	17 03 02	No		bituminous mixtures containing other than those mentioned in 17 03 01	R5	М	Weighed		construction-related	.,.,,,,lreland		
	Within the Country	17 05 04	No		soil and stones other than those mentioned in 17 05 03	R5	М	Weighed	Offsite in Ireland	construction-related	.,,,,,,lreland		

^{*} 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