Facility Information Summary		
Licence Register Number Name of site Site Location NACE Code Class of Activity RBME risk category	W0129-02 MEHL (Murphy Environmental Hollywood Ltd.) Hollywood Great, Nag's Head, Naul, Co. Dublin As W0129-02: Disposal Classes 1, 5, 13; Recovery Classes 3, 4, 13 C2	
National Grid Reference (bE, 6 N)	E315723 N258073 The principal activity carried out on site is the deposition of inert wa	aste into enginered landfill cells. Only inert
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;	waste is accepted, and is subject strict Waste Acceptance Procedure i) Level 1 Basic Characterisation Testing - Extensive chemical analysi delivered to MEHL to ensure that the waste meets our acceptance of We use an independent, accredited laboratory for all of our testing ii) Level 2 "1 in 100" Compliance Testing - For 1 in 100 loads which h we are in any doubt as to whether or not the waste is acceptable, it that it meets the requirements of our Waste Acceptance Criteria. iii) Level 3 On-Site Verification Testing - Each and every load arriving and odour inspection, both at the weighbridge and upon tipping.	es as follows: is is carried out prior to the materials being rriteria. requirements. nave undergone Level 1 for a given site, or if must be sent for laboratory analysis to prove g at Hollywood Landfill is subject to a visual

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 requiren								
Louise O'Donnell*	10/04/2012							
Signature Group/Facility manager	Date							
(or nominated, suitably qualified and experienced deputy)								

* Completed by Patel Tonra Ltd., Environmental Consultants to MEHL

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

Table 1 Fugitive emissions

1

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Dust	<elv< td=""><td>М</td></elv<>	М

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

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

Was all monitoring carried out in accordance with EPA 3 guidance note AG2 and using the basic air monitoring checklist?

Basic air	
monitoring	
<u>checklist</u>	AGN2

No	All results significantly below Emission Limit Value
Not applicable	No stack emissions. Standard method applied for dust monitoring, as specified in W0129-02

										% change in mass load	
Emission		Data of	ELV in licence			Unit of	Compliant with		Annual mass	from	
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	year +/-	Comments
D1	Dust	27/06/2011 to 27/07/2011	350	100 % of values < ELV	19	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D1	Dust	18/11/2011 to 16/12/2011	350	100 % of values < ELV	17	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D2	Dust	27/06/2011 to 27/07/2011	350	100 % of values < ELV	10	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D2	Dust	18/11/2011 to 16/12/2011	350	100 % of values < ELV	149	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D3A	Dust	27/06/2011 to 27/07/2011	350	100 % of values < ELV	17	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D3A	Dust	18/11/2011 to 16/12/2011	350	100 % of values < ELV	29	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	

No

Additional information

D5	Dust	27/06/2011 to 27/07/2011	350	100 % of values < ELV	25	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	
D5	Dust	18/11/2011 to 16/12/2011	350	100 % of values < ELV	8	mg/m2/day	yes	VDI 2119	Not applicable	Not applicable	

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

Continuous Monitoring

4 Does your site carry out continuous air emissions monitoring?

SELECT NOT APPLICABLE

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

⁶ Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7

Did your site experience any abatement system bypasses? If yes please detail them in table 4 below

Table 3: Summary of average emissions -continuous monitoring

Emission	Parameter/ Substance		Averaging	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	% compliance	Comments
reference no:		ELV in licence or any revision therof	Period		measurement			Equipment downtime (hours)	current reporting year	
NOT APPLICABLE	SELECT			SELECT	SELECT					

SELECT

SELECT

SELECT

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

Table 4: Abatement system bypass reporting table B

Bypass protocol

Date*	Duration** (hours)	Location	Reason for bypass	Corrective action
NOT APPLICABLE				

* 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

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

Table 5: Solver Total VOC Emi	e 5: Solvent Management Plan Summary al VOC Emission limit value			ary Solvent regulations Please refer to linked solvent recomplete table 5 and complete table 5 and VOC Total VOC emissions as tire site %of solvent t and tive) Total Emission Limit Value (ELV) in licence or any revision therof Co		
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	
NOT APPLICABLE					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)	
NOT APPLICABLE									
		Total							

SELECT NOT APPLICABLE

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 <u>only</u> need to complete table 1 and /table 2 below for ambient monitoring and visual inspections

Was it a requirement of your licence to carry out visual inspections on any surface water 2 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

. .

Tal	ble 1 Ambient n	nonitoring								
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
	upstream	SELECT	SELECT			All values < ELV		mg/L	SELECT	
SW-1	upstream		Ammoniacal Nitrogen	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	0.09	mg/l NH ₄ -N	Not applicable	
SW-1	upstream		Calcium	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	124.43	mg/l	Not applicable	
SW-1	upstream		Chemical Oxygen Demand	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	12.33	mg/l	Not applicable	
SW-1	upstream		Chloride	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	41.30	mg/l	Not applicable	
SW-1	upstream		Conductivity	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	0.78	mS/cm	Not applicable	
SW-1	upstream		Dissolved Oxygen	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	6.28	mg/l	Not applicable	
SW-1	upstream		Magnesium	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	12.57	mg/l	Not applicable	
SW-1	upstream		Manganese	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	0.16	mg/l	Not applicable	
SW-1	upstream		Orthophosphate	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	0.06	mg/l	Not applicable	
SW-1	upstream		рН	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	7.93	рН	Not applicable	
SW-1	upstream		Sodium	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	26.87	mg/l	Not applicable	
SW-1	upstream		Sulphate	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	160.38	mg/l	Not applicable	
SW-1	upstream		Temperature	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	10.15	°c	Not applicable	
SW-1	upstream		Total Alkalinity	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	181.00	mg/l	Not applicable	
SW-1	upstream		Total Suspended Solids	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	10.00	mg/l	Not applicable	
SW-2	downstream		Ammoniacal Nitrogen	28/03/2011; 27/06/2011; 01/12/2011	Not applicable	Not applicable	0.04	mg/I NH ₄ -N	Not applicable	

Yes

	Additional information
Yes	

Addit

SW-2	downstream	Calcium	28/03/2011;	Not applicable	Not applicable	118.60	mg/l	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Chemical Oxygen	28/03/2011;	Not applicable	Not applicable	10.67	mg/l	Not applicable	
		Demand	27/06/2011;						
			01/12/2011						_
SW-2	downstream	Chloride	28/03/2011;	Not applicable	Not applicable	34.90	mg/l	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Conductivity	28/03/2011;	Not applicable	Not applicable	0.74	mS/cm	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Dissolved Oxygen	28/03/2011;	Not applicable	Not applicable	6.70	mg/l	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Magnesium	28/03/2011;	Not applicable	Not applicable	11.27	mg/l	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Manganese	28/03/2011;	Not applicable	Not applicable	0.35	mg/l	Not applicable	
		_	27/06/2011;				-		
			01/12/2011						
SW-2	downstream	Orthophosphate	28/03/2011;	Not applicable	Not applicable	0.16	mg/l	Not applicable	
			27/06/2011;				-		
			01/12/2011						
SW-2	downstream	pH	28/03/2011;	Not applicable	Not applicable	7.83	pН	Not applicable	
			27/06/2011;						
			01/12/2011						
SW-2	downstream	Sodium	28/03/2011:	Not applicable	Not applicable	20.20	mg/l	Not applicable	
			27/06/2011;				0		
			01/12/2011						
SW-2	downstream	Sulphate	28/03/2011:	Not applicable	Not applicable	142.60	mg/l	Not applicable	
			27/06/2011:				0		
			01/12/2011						
SW-2	downstream	Temperature	28/03/2011	Not applicable	Not applicable	10.15	°c	Not applicable	
5112	downstream	remperature	27/06/2011;	Not applicable	Not applicable	10.15	C	not applicable	
			01/12/2011						
SW-2	downstream	Total Alkalinity	28/03/2011	Not applicable	Not applicable	162.00	mg/l	Not applicable	1
5112	downstream	rotarrukanney	27/06/2011:	Not applicable	Not applicable	102.00		not applicable	
			01/12/2011						
SW-2	downstream	Total Suspended	28/03/2011	Not applicable	Not applicable	10.00	mg/l	Not applicable	1
5***2	uownsuleann	Colide	20/05/2011;	not applicable	Not applicable	10.00	111B/1	not applicable	
		Solius	27/00/2011;						
			01/12/2011						

*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
		No contamination observed	SELECT		
			SELECT		

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

3	Was there any result in breach of licence requirements? If yes please provide brief comment section of Table 3 below	f details in the	No	Additional information
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 checklist phone checklist	Assessment of results checklist	Yes	

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

						ELV or trigger										
						values in licence or	Charles and the second s						Procedural		% change in mass	
market and	For the state of					any revision	Licence		11.11.11	Consultant of the		Provident and			le el Grene	
Emission	Emission	Parameter/		Date of		any revision	Compliance		Unit of	Compliant with		Procedural	reference	Annual mass load	load from	
reference no:	released to	SubstanceNote 1	Type of sample	Monitoring	Averaging period	therof ^{Note 2}	criteria	Measured value	measurement	licence	Method of analysis	reference source	standard number	(kg)	previous year +/-	Comments

SWD-1	Water	Suspended Solids	discrete	27/6/11; 1/12/11	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis	SELECT	Not applicable	Not applicable	
SWD-2	Water	Suspended Solids	discrete	27/6/11; 1/12/12	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	
SWD-3	Water	Suspended Solids	discrete	27/6/11; 1/12/13	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	
SWD-4	Water	Suspended Solids	discrete	27/6/11; 1/12/14	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	
SWD-5	Water	Suspended Solids	discrete	27/6/11; 1/12/15	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	
SWD-6	Water	Suspended Solids	discrete	27/6/11; 1/12/16	Not applicable	35	All values < ELV	<10	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	
SWD-7	Water	Suspended Solids	discrete	27/6/11; 1/12/17	Not applicable	35	All values < ELV	Dry	mg/L	yes	Gravimetric analysis		Not applicable	Not applicable	

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

Continuous monitoring

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

Additional Information

Not applicable

Not applicable

Not applicable

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

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

8 Did abatement system bypass occur during the reporting year? If yes please complete table 5 below

Table 4: Summary of average emissions -continuous monitoring

			ELV or trigger				Annual Emission	% change +/- from			
			values in licence				for current	previous reporting	Monitoring	% compliance	
Emission	Emission		or any revision	Averaging	Compliance	Units of	reporting year	year	Equipment	current reporting	
reference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	(kg)		downtime (hours)	year	Comments
Not applicable	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	Reason for	Corrective	Was a report	When was this
			emissions	bypass	action*	submitted to the	report
						EPA?	submitted?
Not applicable						SELECT	

SELECT

SELECT

SELECT

*Measures taken or proposed to reduce or limit bypass frequency

Bund/pipe test	ing report summary ALL IPP	C/WASTE licensed facilities	Intensive agricultu	re facilities please use alternative template	_						
Bund testing		dropdown menu cli	ck to see options			Additional information					
Are you required by y containment structur	vour licence to undertake int es on site	tegrity testing on bunds and cont	ainment structures 7 if yes pl	ese fill out table 1 below listing all bunds and	Not applicable	Bund testing is stipulated in W0129- Q2. however field is no longer stored in the dised stars in the bunded area of the (the plant terms which required dised are no longer on stor). Bund the star the factore, not been required (dised tanks are enspy). The only dised currently stored on store is in the safer (with in the stars which is stored in the stars area which is stored in the stars area.					
 Please provide integri 	ity testing frequency period	-			Not applicable						
Does the site maintai 3 type units and mobile	in a register of bunds, under 2 bunds)	rground pipelines (including storn	mwater and foul), Tanks, sump	ps and containers? (containers refers to "Chemstore"	Yes						
Tabl	le 1: Summary details of bur	ind integrity test	F								
Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity Actual capacity	Type of integrity test	Other test type	T est date	ntegrity reports maintained on site?	Results of test	integrity test failure explanation <50 words	Corre
Copadry required should cc Has intregrity testing t Hais intregrity testing t Hain b S8007/EPA For channels/transfer For channels/transfer Are channels/transfer Are channels/transfer Are channels/transfer For b old sumps and char B f yes to Q7 are these	ampy with 25% or 110% containment been carried out in accordar G uidance? T systems to remote contain r systems compliant in both mbers have high level liquid failsafe systems included in	rue as depand in your frome nee with licence requirements and ment systems tested? i integrity and available volume? I alarms? i a maintenance and testing progr	d are all structures tested in ramme?	bunding and storage publicities	Not applicable Not applicable Not applicable Not applicable Not applicable	Commentary		-			
Pipeline/undergr Are you required by y 1 underground structur 2 Please provide integri	round structure testing our licence to undertake inf e and pipelines on ste ity testing frequency period	Liegrity testing on underground st	cructures e.g. pipelines or sum	us etc 2 if yes please fill outtable 2 below listing all	Not applicable Not applicable	The only underground pipes are for surface water runoff.	_				
Tat	ble 2: Summary details of un	nderground structures/pipeline in	itegrity test								
Structure ID	Type system	Material of construction:	Does this structure have	Type of secondary containment Type integrity testing	Integrity reports minitalmed on site?	Results of test	Integrity test failure explanation <50 words	Corrective action	Scheduled date for retest	Results of retest(if in current	
	SELECT	SELECT	Seleci	SELECI SELECI	Select	SELECT				SELECT	

Results of retest(if in current reporting year)

Scheduled date for retest

ctive action taken

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

Tank and Pipeline assessment reporting-Intensive Agriculture sector only

1 Is it a requirement of your licence to carry out a tank and pipeline assessment for effluent storage on site?

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?

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 3 enter date of submission in additional information

- 4 What method has been proposed for the testing of under and over ground effluent storage tanks and pipelines?
- Has the testing and inspection of under and over ground effluent storage tanks and pipelines been completed during the current reporting year? If
- 5 no please enter date last tank and pipeline assessment was completed in additional information.
- 6 If Visual inspection was the method used were any cracks or defects detected? If yes please detail in additional information
- 7 If yes to Q6 have the cracks or defects been repaired successfully? If no please explain in additional information

If hydrogeological or geophysics investigation methods were used was there any evidence of contamination detected? If yes please detail in

- 8 additional information
- 9 If yes to Q8 please detail proposed or completed remediation work in additional information
- Are there any leak detection systems on site? Please see Department of Agricultures S126 and EPA
- 10 guidance on Storage and Bunding of materials for required systems

bunding and storage guidelines

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

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

13 When is the next tank and pipeline assessment due?

14 Does the licensee consider they are compliant with licence conditions?

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					

S126.pdf

Table 3 Storage capacity for Organic Fertiliser

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

*DAFM -Department of Agriculture Food and Marine

	Additional information if required
SELECT	NOT APPLICABLE
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	1
SELECT	
522201	I
L	

	Additional information			
		٨	No	
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	

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	
Not Applicable	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								

					AUDITIONAL INTOLINA	LION								
Have any incidents	s occurred on site in the current rep year in Ta	brting year? Please list all incide ble 2 below	ents for current reporting	Yes										
*For informati cor	ion on how to report and what nstitutes an incident	What is an incident												
			-											
Table 2 Incidents su	ummary													
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at			Corrective action<20	action <20	R	Resolution L	iklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status d	date r	eoccurence
29/06/2011	Breach of ELV	Monitoring Locations BH-5, BH-8 and BH-10A	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	EPA	Recurring	Not required	Not applicable	Complete	05/07/2011	Medium
		Monitoring locations BH-6,			Not related to									
13/09/2011	Breach of ELV	BH-8, BH-10A, SW-1 and SWD-6	1. Minor	No Uncontrolled release	site activities		Normal activities	EPA	Recurring	Not required	Not applicable	Complete	13/09/2011	Aedium
14/11/2011	Breach of ELV	Monitoring Location BH-8	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	EPA	Recurring	Not required	Not applicable	Complete	17/11/2011	Medium
22/12/2011	Breach of ELV	Monitoring Locations in BH- 8, BH-10A, BH-12, SWD-6	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	EPA	Recurring	Not required	Not applicable	Complete	22/12/2011	Medium
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT	S	ELECT
Total number of														
incidents current														
year	-	4												
Total number of														
incidents previous														
year		4												
% reduction/														
Increase														

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

	yes	
	no	
	no	
	no	
	SELECT	Not applicable
on	SELECT	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*	DWS	previous year +/-	data
22/02/2011;	BH-5	Ammoniacal	Lab analysis	Quarterly	0.11	0.057	mg/I NH ₄ -N	N/A	DWS	-59%	No
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Arsenic	Lab analysis	Quarterly	0.008	0.006	mg/l	N/A	DWS	-167%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Barium	Lab analysis	Quarterly	0.03	0.020	mg/l	N/A	DWS	-100%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Calcium	Lab analysis	Quarterly	88.1	80.8	mg/l	N/A	DWS	-18%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Chloride	Lab analysis	Quarterly	22.9	20.8	mg/l	75	DWS	-2%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Colour	Field analysis	Quarterly	Clear	Clear	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											

			Groundwa	ter /Contaminated	l land summary r	eport					
22/02/2011;	BH-5	Conductivity	Field analysis	Quarterly	0.66	0.62	mS/cm	1	DWS	-2%	No
27/06/2011;			-								
14/09/2011;											
01/12/2011											
22/02/2011	BH-5	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011;	BH-5	Dissolved Oxygen	Field analysis	Quarterly	3.3	2.0	mg/l	N/A	DWS	-191%	No
27/06/2011;			-								
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	16%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Level, Water	Field analysis	Quarterly	102.75	101.85	mOD	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Manganese	Lab analysis	Quarterly	0.17	0.15	mg/l	N/A	DWS	3%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	рН	Field analysis	Quarterly	7.4	7.1	рН	6 <ph<9< td=""><td>DWS</td><td>0%</td><td>No</td></ph<9<>	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Phenols, Total	Lab analysis	Quarterly	0.15	0.08	mg/l	0.1	DWS	-56%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Potassium	Lab analysis	Quarterly	1.5	1.4	mg/l	N/A	DWS	19%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-5	Sodium	Lab analysis	Quarterly	52.1	42.0	mg/I	80	DWS	30%	No
27/06/2011;											
14/09/2011;											
01/12/2011	DU1 5	C. Labora	tali and sta		04.0	<u> </u>		150	DIALC	4.40/	NL .
22/02/2011;	вн-5	Sulphate	Lab analysis	Quarterly	84.3	69.9	ilig/i	150	DWS	14%	NO
27/06/2011;											
14/09/2011;											
01/12/2011		Tomporatura	Field analysis	Quartarly	10.1	0.4	°C	N/A	DWE	90/	No
22/02/2011;	6-110	remperature	Field allalysis	Quarteriy	12.1	9.4	L.	1975	0005	070	NU
14/09/2011;											
01/12/2011			1								
22/02/2011	BH-5	Total Organic	Lah analysis	Quarterly	5.0	4.3	ma/l	50	DWS	-53%	No
27/06/2011	55	Carbon	205 01019515	a conterry	5.0	4.5			2.05	5570	
14/09/2011		Carbon									
01/12/2011			1								

			Groundwa	ter /Contaminated	l land summary r	eport					
22/02/2011:	BH-5	Total Oxidized	Lab analysis	Quarterly	0.2	0.2	mg/l	N/A	DWS	-115%	No
27/06/2011;		Nitrogen									
14/09/2011:											
01/12/2011											
22/02/2011	BH-5	Boron	Lab analysis	Annually	0.054	0.054	mg/l	N/A	DWS	78%	No
22/02/2011	BH-5	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	-120%	No
22/02/2011	BH-5	Chromium Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	-353%	No
22/02/2011	BH-5	Coliforms Faecal	Lab analysis	Annually	4	4	cfus/100ml	, N/A	DWS	100%	No
22/02/2011	BH-5	Coliforms Total	Lab analysis	Annually	4	4	cfus/100ml	, N/A	DWS	-400%	No
22/02/2011	BH-5	Conner	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	46%	No
22/02/2011	BH-5	Eluoride	Lab analysis	Annually	0.300	0.300	mg/l	N/A	DWS	0%	No
22/02/2011	BH-5	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	-43%	No
22/02/2011	BH-5	List Land II	Lab analysis	Annually	0.010	0.010	mg/l	N/A	DWS	0%	No
22,02,2011		Substances	Lab analysis	,	0.010	0.010	5.			***	
22/02/2011	BH-5	Magnesium	Lah analysis	Annually	6.5	6.5	ma/l	N/A	DW/S	-39%	No
22/02/2011	BH-5	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	, N/A	DWS	25%	No
22/02/2011	BH-5	Orthonhosphates	Lab analysis	Annually	0.06	0.06	mg/l	, N/A	DWS	-483%	No
22/02/2011	511 5	orthophosphates	Lub unurysis	, unidany	0.00	0.00	5.	,	5115	10070	
27/06/2011	BH-5	PAHs (Total 17)	Lab analysis	Annually	-	-	ma/l	N/A	DWS	-	No
22/02/2011	BH-5	Phosphorus Total	Lab analysis	Annually	0.625	0.625	mg/l	N/A	DWS	-396%	No
22, 02, 2011		r noopnor us, rotui	Lab analysis	,	0.025	0.020					
22/02/2011	BH-5	Total Solids	Lab analysis	Annually	347	347	mg/l	N/A	DWS	-17%	No
22/02/2011	BH-5	Zinc	Lab analysis	Annually	0.033	0.033	mg/l	N/A	DWS	59%	No
22/02/2011:	BH-6	Ammoniacal	Lab analysis	Quarterly	0.52	0.33	mg/I NH ₄ -N	N/A	DWS	12%	No
27/06/2011:	-	Nitrogen		···· /			-		-		-
14/09/2011:											
01/12/2011											
22/02/2011:	BH-6	Arsenic	Lab analysis	Quarterly	0.0025	0.0025	mg/l	N/A	DWS	43%	No
27/06/2011:											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Barium	Lab analysis	Quarterly	0.239	0.101	mg/l	N/A	DWS	37%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Calcium	Lab analysis	Quarterly	101.9	91.1	mg/l	N/A	DWS	-2%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Chloride	Lab analysis	Quarterly	22.8	21.1	mg/l	75	DWS	-5%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Colour	Field analysis	Quarterly	Clear	Clear	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011			1								
22/02/2011;	BH-6	Conductivity	Field analysis	Quarterly	0.70	0.63	mS/cm	1	DWS	-2%	No
27/06/2011;											
14/09/2011;			1								
01/12/2011											
22/02/2011	BH-6	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-233%	No

			Groundwa	ter /Contaminate							
22/02/2011:	BH-6	Dissolved Oxygen	Field analysis	Quarterly	2.54	1.09	mg/l	N/A	DWS	-452%	No
27/06/2011:		,01									
14/09/2011											
01/12/2011											
22/02/2011	BH-6	Iron	Lab analysis	Quarterly	0.02	0.02	ma/l	N/A	DWS	_1115%	No
22/02/2011,	DII-0	11011	Lab analysis	Quarterly	0.02	0.02		,,,,	0005	-111570	NO
27/06/2011;											
14/09/2011;											
22/02/2011		Loval Mator	Field applyrig	Quartarly	117.21	117.21	mOD	N/A	DWC	0%	No
22/02/2011;	вн-о	Level, water	Field analysis	Quarteriy	117.31	117.31	mod	N/A	DWS	0%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	a			a i i	0.010	0.400		N1/A	B1110		
22/02/2011;	BH-6	Manganese	Lab analysis	Quarterly	0.218	0.188	mg/I	N/A	DWS	-9%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	рН	Field analysis	Quarterly	7.6	7.3	pH	6 <ph<9< td=""><td>DWS</td><td>-1%</td><td>No</td></ph<9<>	DWS	-1%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Phenols, Total	Lab analysis	Quarterly	0.15	0.11	mg/l	0.1	DWS	-27%	No
27/06/2011;			-								
14/09/2011:											
01/12/2011											
22/02/2011:	BH-6	Potassium	Lab analysis	Quarterly	6.80	5.62	mg/l	N/A	DWS	11%	No
27/06/2011:	-			,					-		
14/09/2011											
01/12/2011											
22/02/2011	BH-6	Sodium	Lab analysis	Quarterly	27 30	19 53	ma/l	80	DWS	-18%	No
27/06/2011	5.1.0	boulan	Lub unurjois	quarterry	27.00	10100	5,		5.115	10/0	
14/09/2011:											
01/12/2011											
22/02/2011		Sulphata	Lab analysis	Quartarly	50.50	20.20	ma/l	150	DWS	2%	No
22/02/2011,	BII-0	Sulphate	Lab analysis	Quarterly	39.50	30.20	ilig/1	150	0003	370	NO
14/00/2011;											
14/03/2011,											
01/12/2011		Townsteins	Field evelopie	Quartarly	12.00	0.02	°C	N/A	DWC	120/	No
22/02/2011;	БП-0	Temperature	Field analysis	Quarterly	12.60	8.83		17/7	DVVS	-15%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	a			a i i				50	B1110	1001	
22/02/2011;	вн-е	Iotal Organic	Lab analysis	Quarterly	9	5	mg/I	50	DWS	-129%	NO
27/06/2011;		Carbon								1	
14/09/2011;											
01/12/2011											
22/02/2011;	BH-6	Total Oxidized	Lab analysis	Quarterly	0.4	0.2	mg/l	N/A	DWS	-24%	No
27/06/2011;		Nitrogen								1	
14/09/2011;											
01/12/2011											
22/02/2011	BH-6	Boron	Lab analysis	Annually	0.105	0.105	mg/l	N/A	DWS	44%	No

			Groundwa	ter /Contaminated	l land summary	report					
22/02/2011	BH-6	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.004	DWS	66%	No
22/02/2011	BH-6	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	N/A	DWS	-72%	No
22/02/2011	BH-6	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	0%	No
22/02/2011	BH-6	Coliforms, Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-1100%	No
22/02/2011	BH-6	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	38%	No
22/02/2011	BH-6	Fluoride	Lab analysis	Annually	0.4	0.3	mg/l	N/A	DWS	21%	No
22/02/2011	BH-6	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	38%	No
22/02/2011	BH-6	List I and II	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	0%	No
, . , .		Substances	,								
22/02/2011	BH-6	Magnesium	Lab analysis	Annually	18.4	18.0	mg/l	N/A	DWS	-1%	No
22/02/2011	BH-6	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	36%	No
22/02/2011	BH-6	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	N/A	DWS	24%	No
22/02/2011		orthophosphates	Lab analysis	,	0.00	0.00	5.				
27/06/2011	BH-6	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-6	Phosphorus Total	Lab analysis	Annually	0.02	0.02	ma/l	N/A	DWS	-73%	No
,,			,	,			5.				
22/02/2011	BH-6	Total Solids	Lab analysis	Annually	358	358	ma/l	N/A	DWS	26%	No
22/02/2011	BH-6	Zinc	Lab analysis	Annually	0.015	0.015	mg/l	N/A	DWS	68%	No
22/02/2011	biro	Line	Lub unurysis	Amudany	0.015	0.015		,	5113	0070	110
22/02/2011	BH-8	Ammoniacal	Lab analysis	Quarterly	0.98	0.74	ma/l NH₄-N	N/A	DWS	-416%	No
27/06/2011	DII-0	Nitrogen	Lab analysis	Quarterly	0.56	0.74		,	0003	-410/0	NO
14/00/2011;		Nitrogen									
14/09/2011;											
01/12/2011		Arconic	Lab applysis	Quartarly	0.0025	0.0025	ma/l	N/A	DWS	40%	No
22/02/2011;	DI FO	Arsenic	Lab analysis	Quarterly	0.0025	0.0025	1119/1	1975	0003	40%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	DUL 0	Denium	lah sashuis	Ouentealu	0.077	0.000	ma/l	NI/A	DWG	120/	Ne
22/02/2011;	вн-я	Barium	Lab analysis	Quarterly	0.077	0.063	ing/i	N/A	DWS	-12%	NO
27/06/2011;											
14/09/2011;											
01/12/2011								NI/A		444	
22/02/2011;	вн-8	Calcium	Lab analysis	Quarterly	117.6	99.3	mg/i	N/A	DWS	1%	NO
27/06/2011;											
14/09/2011;											
01/12/2011								75			
22/02/2011;	BH-8	Chloride	Lab analysis	Quarterly	74.5	55.8	mg/I	/5	DWS	1%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Colour	Field analysis	Quarterly	Brown - high	Brown - high	N/A	N/A	DWS	0%	No
27/06/2011;					sediment	sediment					
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Conductivity	Field analysis	Quarterly	0.77	0.7125	mS/cm	1	DWS	-9%	No
27/06/2011;											
14/09/2011;											
01/12/2011		1									
22/02/2011	BH-8	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011;	BH-8	Dissolved Oxygen	Field analysis	Quarterly	4	1.8975	mg/l	N/A	DWS	-147%	No
27/06/2011;											
14/09/2011;											
01/12/2011											

			Groundwa	ter /Contaminated	land summary r	eport					
22/02/2011;	BH-8	Iron	Lab analysis	Quarterly	0.179	0.095	mg/l	N/A	DWS	-342%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Level, Water	Field analysis	Quarterly	133.62	133.42	mOD	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Manganese	Lab analysis	Quarterly	1.73	1.25	mg/l	N/A	DWS	-88%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	рН	Field analysis	Quarterly	7.3	6.9	pН	6 <ph<9< td=""><td>DWS</td><td>4%</td><td>No</td></ph<9<>	DWS	4%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Phenols, Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-29%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Potassium	Lab analysis	Quarterly	4.8	3.8	mg/l	N/A	DWS	-71%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-8	Sodium	Lab analysis	Quarterly	34.2	31.3	mg/l	80	DWS	5%	No
27/06/2011;											
14/09/2011;											
01/12/2011								. = 0			
22/02/2011;	BH-8	Sulphate	Lab analysis	Quarterly	186.9	141.7	mg/l	150	DWS	10%	No
27/06/2011;											
14/09/2011;											
01/12/2011		-		a			0.7	NI / A			
22/02/2011;	вн-8	Temperature	Field analysis	Quarterly	14.1	11.2	°C	N/A	DWS	2%	No
27/06/2011;											
14/09/2011;											
01/12/2011	рц о	Tatal Orașaia	Lab analysia	Quartarly	21	10	ma/l	50	DWC	2.20/	No
22/02/2011;	ып-о	Total Organic	Lab analysis	Quarterly	21	19	iiig/i	50	D112	-52%	INU
27/06/2011,		Carbon									
14/09/2011;											
01/12/2011		Total Ovidized	Lab analysis	Quartarly	1.2	0.62	ma/l	N/A	DWS	1.29/	No
22/02/2011;	ып-о	Nitrogon	Lab analysis	Quarterly	1.2	0.63	ilig/i	11/1	D112	1270	INO
14/09/2011;		i i i i ogen									
01/12/2011;											
22/02/2011	BH-8	Boron	Lah analysis	Annually	0.047	0.047	ma/l	N/A	DWS	74%	No
22/02/2011	BH-8	Cadmium	Lab analysis	Annually	0.0006	0.0006	mg/l	0.004	DWS	-383%	No
22/02/2011	BH-8	Chromium. Total	Lab analysis	Annually	0.0015	0.0015	mg/l	N/A	DWS	-10927%	No
22/02/2011	BH-8	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-59900%	No
22/02/2011	BH-8	Coliforms, Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-125900%	No

			Groundwa	ter /Contaminated							
22/02/2011	BH-8	Copper	Lab analysis	Annually	0.008	0.008	mg/l	0.5	DWS	-63%	No
22/02/2011	BH-8	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	N/A	DWS	0%	No
22/02/2011	BH-8	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	40%	No
22/02/2011	BH-8	List I and II Substances	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	0%	No
22/02/2011	BH-8	Magnesium	Lab analysis	Annually	11.4	11.4	mg/l	N/A	DWS	13%	No
22/02/2011	BH-8	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	25%	No
22/02/2011	BH-8	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	N/A	DWS	0%	No
27/06/2011	BH-8	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-8	Phosphorus, Total	Lab analysis	Annually	1.96	1.96	mg/l	N/A	DWS	-706%	No
22/02/2011	BH-8	Total Solids	Lab analysis	Annually	864	864	mg/l	N/A	DWS	-473%	No
22/02/2011	BH-8	Zinc	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	55%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	ВН-9	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.11	0.09	mg/l NH₄-N	N/A	DWS	-53%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Arsenic	Lab analysis	Quarterly	0.0053	0.0033	mg/l	N/A	DWS	-133%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Barium	Lab analysis	Quarterly	0.017	0.0068	mg/l	N/A	DWS	-893%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Calcium	Lab analysis	Quarterly	92.9	88.7	mg/l	N/A	DWS	4%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Chloride	Lab analysis	Quarterly	25.4	24.1	mg/l	75	DWS	4%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Colour	Field analysis	Quarterly	Brown (sediment)	Brown (sediment)	N/A	N/A	DWS	0%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	ВН-9	Conductivity	Field analysis	Quarterly	0.52	0.5125	mS/cm	1	DWS	-2%	No
22/02/2011	BH-9	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-9	Dissolved Oxygen	Field analysis	Quarterly	6.0	2.4	mg/l	N/A	DWS	-34%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	ВН-9	Iron	Lab analysis	Quarterly	0.031	0.023	mg/l	N/A	DWS	21%	No

			Groundwa	ter /Contaminated							
22/02/2011;	BH-9	Level, Water	Field analysis	Quarterly	107.47	105.42	mOD	N/A	DWS	0%	No
27/06/2011;		,									
14/09/2011;											
01/12/2011											
22/02/2011:	BH-9	Manganese	Lab analysis	Quarterly	0.101	0.065	mg/l	N/A	DWS	-58%	No
27/06/2011							5.				
14/09/2011											
01/12/2011											
22/02/2011	BH-9	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DW/S	0%	No
27/06/2011	biris	ououi	ricia analysis	Quarterry	None	None		,	5115	0,0	110
14/09/2011:											
01/12/2011											
22/02/2011		лЦ	Field analysis	Quarterly	6.0	6.0	nH	6 <nh<9< td=""><td>DWS</td><td>2%</td><td>No</td></nh<9<>	DWS	2%	No
22/02/2011,	611-5	pri	Field allalysis	Quarterly	0.5	0.5	pri	0 4 11 4 2	0003	=2.70	NU
27/00/2011,											
14/09/2011,											
22/02/2011	DH O	Dhanals Tatal	Lab analysis	Quartarly	0.15	0.10	ma/l	0.1	DWE	1.79/	No
22/02/2011,	БП-9	Phenois, Total	Lab allalysis	Quarterly	0.15	0.10	1119/1	0.1	DWS	-1270	INU
27/06/2011,											
14/09/2011;											
01/12/2011	BH 0	Deterriture	Lab analysia	Quartarly	0.70	0.02	ma/l	N/A	DWC	0%	No
22/02/2011;	вп-9	Potassium	Lab analysis	Quarterly	0.70	0.63	iiig/i	11/7	DWS	0%	INU
27/06/2011;											
14/09/2011;											
01/12/2011	844.0	C I'	1.		45.5	11.0	ma/l	00	DUNC	201	N .
22/02/2011;	вн-9	Sodium	Lab analysis	Quarterly	15.5	14.0	iiig/i	80	DWS	3%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	BUL O	Culabata	Lab analysia	Questadu	40.72	20.00	ma/l	150	DIALE	10/	Na
22/02/2011;	вн-9	Sulphate	Lab analysis	Quarterly	40.72	36.96	iiig/i	150	DWS	-1%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	BUL O	T	Cield exelusie	Questadu	12.4	11.0	°C	N/A	DIALE	20/	Na
22/02/2011;	вн-9	remperature	Field analysis	Quarterly	12.4	11.0		N/A	DWS	3%	NO
27/06/2011;											
14/09/2011;											
01/12/2011	844.0	T. I. I. O	1.		44	0	ma/l	FO	DUNC	200/	N .
22/02/2011;	вн-9	Total Organic	Lab analysis	Quarterly	11	8	ilig/i	50	DWS	-38%	NO
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011	BUL O	Total October 1	toto contrato	Questadu	0.2	0.2	ma/l	N/A	DIALE	E0/	Na
22/02/2011;	вн-9	Total Oxidized	Lab analysis	Quarterly	0.2	0.2	iiig/i	N/A	DWS	-5%	NO
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011	BUL O	D	tota contrata	Annually	0.020	0.020	ma/l	N/A	DIAG	C00/	Na
22/02/2011	вн-9	Boron	Lab analysis	Annually	0.038	0.038	mg/l	IN/A	DWS	b8%	NO
22/02/2011	BH-9	Cadmium Charmium Tatal	Lab analysis	Annually	0.0005	0.0005	mg/l	0.00 4	DWS	-410%	NO
22/02/2011	BH-9	Coliforms Essent	Lab analysis	Annually	0.0015	0.0015	cfus/100ml	N/A N/Δ	DWS	-40%	No
22/02/2011	BH-9	Coliforms Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	_2300%	No
22/02/2011	BH-9	Conner	Lab analysis	Δnnually	0.007	0.007	ma/l	0.5	DWS	230070	No
22/02/2011	BH-9	Fluoride	Lab analysis	Annually	0.007	0.007	ma/l	N/A	DWS	0%	No
22/02/2011	BH-9	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	20%	No
-,,,						2.200			-		

	Groundwater /Contaminated land summary report										
22/02/2011	BH-9	List I and II Substances	Lab analysis	Annually	0	0	mg/l	N/A	DWS	0%	No
22/02/2011	BH-9	Magnesium	Lab analysis	Annually	4.3	4.3	mg/l	N/A	DWS	-26%	No
22/02/2011	BH-9	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	25%	No
22/02/2011	BH-9	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	N/A	DWS	0%	No
27/06/2011	BH-9	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-9	Phosphorus, Total	Lab analysis	Annually	0.387	0.387	mg/l	N/A	DWS	60%	No
22/02/2011	BH-9	Total Solids	Lab analysis	Annually	348	348	mg/l	N/A	DWS	4%	No
22/02/2011	BH-9	Zinc	Lab analysis	Annually	0.011	0.011	mg/l	N/A	DWS	27%	No
											No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.29	0.23	mg/l NH ₄ -N	N/A	DWS	4%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Arsenic	Lab analysis	Quarterly	0.027	0.019	mg/l	N/A	DWS	-39%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Barium	Lab analysis	Quarterly	0.035	0.025	mg/l	N/A	DWS	-16%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Calcium	Lab analysis	Quarterly	101.5	90.3	mg/l	N/A	DWS	1%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Chloride	Lab analysis	Quarterly	25.0	23.4	mg/l	75	DWS	0%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Colour	Field analysis	Quarterly	Cloudy	Clear	N/A	N/A	DWS	0%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Conductivity	Field analysis	Quarterly	0.62	0.48	mS/cm	1	DWS	-22%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Dissolved Oxygen	Field analysis	Quarterly	4.0	1.9	mg/l	N/A	DWS	-89%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	-1340%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-11A	Level, Water	Field analysis	Quarterly	98.47	98.41	mOD	N/A	DWS	0%	No

			Groundwa	ter /Contaminated							
22/02/2011;	BH-11A	Manganese	Lab analysis	Quarterly	0.372	0.3556	mg/l	N/A	DWS	11%	No
27/06/2011;		-									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	рH	Field analysis	Quarterly	7.9	7.3	pН	6 <ph<9< td=""><td>DWS</td><td>0%</td><td>No</td></ph<9<>	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Phenols, Total	Lab analysis	Quarterly	0.15	0.11	mg/l	0.1	DWS	-27%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Potassium	Lab analysis	Quarterly	2.4	2.0	mg/l	N/A	DWS	5%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Sodium	Lab analysis	Quarterly	16.5	16.3	mg/l	80	DWS	3%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Sulphate	Lab analysis	Quarterly	11.67	9.52	mg/l	150	DWS	-18%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Temperature	Field analysis	Quarterly	13.6	11.1	°C	N/A	DWS	12%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Total Organic	Lab analysis	Quarterly	9	4.4	mg/l	50	DWS	-150%	No
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-11A	Total Oxidized	Lab analysis	Quarterly	0.2	0.2	mg/l	N/A	DWS	4%	No
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011											
22/02/2011	BH-11A	Boron	Lab analysis	Annually	0.053	0.053	mg/l	N/A	DWS	65%	No
22/02/2011	BH-11A	Cadmium	Lab analysis	Annually	0.005	0.005	mg/l	0.004	DWS	67%	No
22/02/2011	BH-11A	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/I	N/A	DWS	-73%	No
22/02/2011	BH-11A	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	0%	No
22/02/2011	BH-11A	Coliforms, Total	Lab analysis	Annually	0	0	crus/100mi	N/A	DWS	-500%	NO
22/02/2011	BH-11A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	38%	NO
22/02/2011	BH-11A	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-233%	NO
22/02/2011		Fluoride	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	15%	No
22/02/2011		Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	47%	No
22/02/2011	DILITY	Substances	Lab analysis	Annually	0.01	0.01	1113/1	13/75	5003	U70	NO
22/02/2011	BH-11A	Magnesium	Lah analysis	Annually	12.2	12.05	ma/l	N/A	DW/S	2%	No
22/02/2011	RH-11Δ	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	36%	No
, 02/2011	5	y	1200 01013013	, and any	0.001	0.001			12.75	3070	

			Groundwa	ter /Contaminated							
22/02/2011	BH-11A	Orthophosphates	Lab analysis	Annually	0.06	0.055	mg/l	N/A	DWS	14%	No
27/06/2011	BH-11A	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-11A	Phosphorus, Total	Lab analysis	Annually	0.02	0.02	mg/l	N/A	DWS	-1570%	No
22/02/2011	BH-11A	Total Solids	Lab analysis	Annually	348	348	mg/l	N/A	DWS	-121%	No
22/02/2011	BH-11A	Zinc	Lab analysis	Annually	0.018	0.018	mg/l	N/A	DWS	40%	No
							SELECT				SELECT
unhoro puor	go indicatos arit	thmatic maan									

.+ 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 SELECT	GTV's*	SELECT**	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
22/02/2011:	BH-4A	Ammoniacal	Lab analysis	Quarterly	0.03	0.03	mg/I NH ₄ -N	N/A	DWS	-83%	No
27/06/2011;		Nitrogen		,					-		
14/09/2011;		-									
01/12/2011											
22/02/2011;	BH-4A	Arsenic	Lab analysis	Quarterly	0.0065	0.0035	mg/l	N/A	DWS	74%	No
27/06/2011;											
14/09/2011;											
01/12/2011	DUL 44	Duct in	tala sa tatu		0.046	0.027	ma/l	NI/A	DIAK	2.04	N
22/02/2011;	BH-4A	Barium	Lab analysis	Quarterly	0.046	0.027	ilig/1	11/7	DWS	20%	NO
14/09/2011,											
01/12/2011											
22/02/2011;	BH-4A	Calcium	Lab analysis	Quarterly	103.1	88.5	mg/l	N/A	DWS	-21%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Chloride	Lab analysis	Quarterly	21.6	17.2	mg/l	75	DWS	-42%	No
27/06/2011;											
14/09/2011;											
01/12/2011		Calaura	Cield eveluaie	Oversterly	Class	Class	N/A	NI/A	DWG	00/	No
22/02/2011;	DIT-4A	Colour	rieiu analysis	Quarteriy	Clear	Clear	iv/A	N/A	0003	0%	NU
14/09/2011;											
01/12/2011											

			Groundwa	ter /Contaminate							
22/02/2011;	BH-4A	Conductivity	Field analysis	Quarterly	0.62	0.565	mS/cm	1	DWS	-17%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011	BH-4A	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011;	BH-4A	Dissolved Oxygen	Field analysis	Quarterly	4.0	1.6	mg/l	N/A	DWS	-119%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	13%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Level, Water	Field analysis	Quarterly	91.96	91.96	mOD	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Manganese	Lab analysis	Quarterly	0.37	0.26	mg/l	N/A	DWS	34%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	None	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	pН	Field analysis	Quarterly	7.7	7.4	pН	6 <ph<9< td=""><td>DWS</td><td>1%</td><td>No</td></ph<9<>	DWS	1%	No
27/06/2011;			-								
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Phenols, Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-30%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Potassium	Lab analysis	Quarterly	1.5	1.3	mg/l	N/A	DWS	5%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Sodium	Lab analysis	Quarterly	15.2	11.6	mg/l	80	DWS	10%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Sulphate	Lab analysis	Quarterly	31.61	24.45	mg/l	150	DWS	-101%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Temperature	Field analysis	Quarterly	16.1	12.0	°C	N/A	DWS	18%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-4A	Total Organic	Lab analysis	Quarterly	8.0	5.3	mg/l	50	DWS	-26%	No
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011		1									

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22/02/2011:	BH-4A	Total Oxidized	Lab analysis	Quarterly	0.2	0.2	mg/l	N/A	DWS	-394%	No
27/06/2011:		Nitrogen				-					
14/09/2011:											
01/12/2011											
22/02/2011	BH-4A	Boron	Lab analysis	Annually	0.049	0.049	mg/l	N/A	DWS	76%	No
22/02/2011	BH-4A	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.004	DWS	10%	No
22/02/2011	BH-44	Chromium Total	Lab analysis	Annually	0.0005	0.0005	mg/l	N/A	DWS	47%	No
22/02/2011	BH-4A	Coliforms Faecal	Lab analysis	Annually	0.0015	0.0015	cfus/100ml	N/A	DWS	0%	No
22/02/2011	BH-4A	Coliforms Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-100%	No
22/02/2011	BH-4A	Conner	Lab analysis	Annually	0.007	0.007	ma/l	0.5	DWS	29%	No
22/02/2011	BH-4A	Eluoride	Lab analysis	Annually	0.007	0.007	mg/l	N/A	DWS	0%	No
22/02/2011	BH-4A	Lead	Lab analysis	Annually	0.0	0.005	mg/l	N/A	DWS	30%	No
22/02/2011	BH-4A	List Lond II	Lab analysis	Annually	0.005	0.005	mg/l	Ν/Δ	DWS	0%	No
22/02/2011	DIT-4A	Substances	Lab analysis	Annuany	0.01	0.01		14/7	D 113	070	NO
22/02/2011		Magnocium	Lab analysis	Annually	0.2	0.2	ma/l	N/A	DWS	E 9/	No
22/02/2011		Morcury	Lab analysis	Annually	9.2	0.001	mg/l	N/A	DWS	-578	No
22/02/2011		Orthonhosphatos	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	23%	No
22/02/2011	BII-4A	Orthophosphates	Lab analysis	Annually	0.95	0.95	ing/i	14/74	DVV3	0370	NO
27/06/2011		DAUs (Total 17)	Lab analysis	Annually	0.0002	0.0002	ma/l	N/A	DWC	15020/	No
27/00/2011		PARS (TOLdi 17)	Lab analysis	Annually	0.0005	0.0005	mg/l	N/A	DWS	-1365%	No
22/02/2011	6п-4А	Phosphorus, rotai	Lab analysis	Annually	0.069	0.069	ing/i	11/ 1	DWS	19%	INO
22/02/2011	DUL 44	Total Calida	Lab analysia	Annually	247	247	ma/l	NI/A	DWC	120/	Na
22/02/2011	BH-4A		Lab analysis	Annually	347	347	mg/l	N/A	DWS	-12%	NO
22/02/2011	6п-4А	ZIIIC	Lab analysis	Annually	0.004	0.004	iiig/i	11/ 1	DWS	0%	INU
22/02/2011	DUL 104	A	Lab analysia	Quartarlu	0.02	0.02	ma/I NH N	NI/A	DWC	00/	Na
22/02/2011;	BH-IUA	Allinollidedi	Lab analysis	Quarterly	0.05	0.05	1119/1 N114 N	10/7	DWS	-070	INO
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011		Arconic	Lab analysis	Quartarly	0.0025	0.0025	ma/l	N/A	DWS	21%	No
22/02/2011;	BIFIOA	Arsenic	Lab analysis	Quarterly	0.0025	0.0025	ing/i	19/2	DVV3	21/0	NO
27/06/2011;											
14/09/2011;											
22/02/2011		Barium	Lab analysis	Quartarly	0.015	0.014	ma/l	N/A	DWS	27%	No
22/02/2011;	BIFIOA	Dariulli	Lab analysis	Quarterly	0.015	0.014	ing/i	19/2	DVV3	-32/6	NO
14/00/2011;											
14/03/2011,											
22/02/2011		Calcium	Lab analysis	Quartarly	212.0	170.2	ma/l	N/A	DWS	E 9/	No
27/06/2011	DIFION	Calcium	Lab analysis	Quarteriy	213.0	17 5.2		,	0003	-576	NO
14/00/2011;											
14/03/2011,											
22/02/2011	BH-10A	Chloride	Lab analysis	Quarterly	38.8	35.1	ma/l	75	DWS	13%	No
27/06/2011	DIFION	chionae	Lab analysis	Quarteriy	50.0	55.1			0003	1370	NO
14/00/2011;											
14/03/2011,											
22/02/2011	BH-10A	Colour	Field analysis	Quarterly	Cloudy	Clear	N/A	N/A	DWS	0%	No
22/02/2011,	BIFIOA	Colour	Field analysis	Quarterly	Cloudy	Cieai	1975	1975	DVV3	078	NO
27/00/2011,											
01/12/2011	1										
22/02/2011	DU 104	Conductivity	Field applysi-	Quartarh	1 1 5	0.02	mS/cm	1	DWS	70/	No
22/02/2011;	BH-10A	conductivity	rielu analysis	quarteriy	1.15	0.93	m3/cm	÷	0003	-1%	NO OI
14/00/2011;	1										
14/09/2011;	1										
01/12/2011		Quanida	Lab analysis	Annually	0.01	0.01	ma/l	N/A	DWS	200%	No
22/02/2011	DIT-TUA	cyanide	Lad analysis	Annually	0.01	0.01	1119/1	11/71	0003	-200%	INU

	Groundwater /Contaminated land summary report										
22/02/2011:	BH-10A	Dissolved Oxygen	Field analysis	Quarterly	11.0	7.9	mg/l	N/A	DWS	12%	No
27/06/2011:		///	,	. ,							
14/09/2011											
01/12/2011											
22/02/2011	BH-104	Iron	Lah analysis	Quarterly	0.02	0.02	ma/l	N/A	DWS	23%	No
22/02/2011,	DIFION	iron	Lab analysis	Quarterry	0.02	0.02		,//	0005	2370	NO
27/06/2011;											
14/09/2011;											
22/02/2011	DH 104	Lovel Water	Field applysis	Quartarly	100 54	00.07	mOD	N/A	DWC	0%	No
22/02/2011;	BH-10A	Level, water	Field analysis	Quarterly	100.54	99.97	mob	IN/A	DWS	0%	NO
27/06/2011;											
14/09/2011;											
01/12/2011							0				
22/02/2011;	BH-10A	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/I	N/A	DWS	-645%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-10A	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-10A	рН	Field analysis	Quarterly	7.8	7.6	рН	6 <ph<9< td=""><td>DWS</td><td>-1%</td><td>No</td></ph<9<>	DWS	-1%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-10A	Phenols, Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-72%	No
27/06/2011;											
14/09/2011:											
01/12/2011											
22/02/2011:	BH-10A	Potassium	Lab analysis	Quarterly	3.1	2.8	mg/l	N/A	DWS	10%	No
27/06/2011:				,					-		-
14/09/2011											
01/12/2011											
22/02/2011	BH-10A	Sodium	Lab analysis	Quarterly	29.3	20.3	ma/l	80	DWS	26%	No
27/06/2011	511 2011	bouldin	Lab analysis	quarterry	2010	20.5	5,		5.115	20/0	
14/09/2011:											
01/12/2011											
22/02/2011	BH-10A	Sulphate	Lab analysis	Quarterly	401.65	310.02	ma/l	150	DWS	-1/1%	No
27/06/2011;	DIFION	Suphace	Lab analysis	Quarterry	401.05	515.52		100	0005	-14/0	NO
14/00/2011;											
14/03/2011,											
01/12/2011	DH 104	T	Cield e relucie	Quartarly	12.1	11.5	00	N/A	DWC	1.09/	No
22/02/2011;	DH-IUA	remperature	Field analysis	Quarterly	13.1	11.5	C C	11/ 1	DVV3	10%	NO
27/06/2011;											
14/09/2011;											
01/12/2011								50	B1110	1011	
22/02/2011;	RH-10A	fotal Organic	Lab analysis	Quarterly	10.0	7.8	mg/I	50	DWS	-13%	NO
27/06/2011;	1	Carbon									
14/09/2011;	1										
01/12/2011	ļ		<u> </u>								
22/02/2011;	BH-10A	Total Oxidized	Lab analysis	Quarterly	0.9	0.7	mg/l	N/A	DWS	-62%	No
27/06/2011;	1	Nitrogen								1	
14/09/2011;	1										
01/12/2011											
22/02/2011	BH-10A	Boron	Lab analysis	Annually	0.054	0.054	mg/l	N/A	DWS	69%	No

			Groundwa								
22/02/2011	BH-10A	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.004	DWS	40%	No
22/02/2011	BH-10A	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	N/A	DWS	31%	No
22/02/2011	BH-10A	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	0%	No
22/02/2011	BH-10A	Coliforms, Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-5500%	No
22/02/2011	BH-10A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	50%	No
22/02/2011	BH-10A	Fluoride	Lab analysis	Annually	0.3	0.19	mg/l	N/A	DWS	-5%	No
22/02/2011	BH-10A	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	57%	No
22/02/2011	BH-10A	List I and II	Lab analysis	Annually			mg/l	N/A	DWS		No
		Substances									
22/02/2011	BH-10A	Magnesium	Lab analysis	Annually	15.6	14.65	mg/l	N/A	DWS	25%	No
22/02/2011	BH-10A	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	48%	No
22/02/2011	BH-10A	Orthophosphates	Lab analysis	Annually	0.06	0.0325	mg/l	N/A	DWS	-43%	No
, . , .			,								
27/06/2011	BH-10A	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	67%	No
22/02/2011	BH-10A	Phosphorus, Total	Lab analysis	Annually	0.136	0.136	mg/l	N/A	DWS	-144%	No
		. ,									
22/02/2011	BH-10A	Total Solids	Lab analysis	Annually	1024	1024	mg/l	N/A	DWS	59%	No
22/02/2011	BH-10A	Zinc	Lab analysis	Annually	0.009	0.009	mg/l	N/A	DWS	47%	No
			í í	· · ·							
22/02/2011;	BH-12	Ammoniacal	Lab analysis	Quarterly	0.9	0.28	mg/I NH ₄ -N	N/A	DWS	89%	No
27/06/2011;		Nitrogen									
14/09/2011;		0									
01/12/2011											
22/02/2011;	BH-12	Arsenic	Lab analysis	Quarterly	0.0055	0.00325	mg/l	N/A	DWS	-214%	No
27/06/2011;			-								
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Barium	Lab analysis	Quarterly	0.036	0.025	mg/l	N/A	DWS	84%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Calcium	Lab analysis	Quarterly	40.3	22.9	mg/l	N/A	DWS	-86%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Chloride	Lab analysis	Quarterly	9.6	6.3	mg/l	75	DWS	-248%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Colour	Field analysis	Quarterly	Light brown	Light brown	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Conductivity	Field analysis	Quarterly	0.2	0.1	mS/cm	1	DWS	-119%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Dissolved Oxygen	Field analysis	Quarterly	8.0	3.5	mg/l	N/A	DWS	-133%	No
27/06/2011;											
14/09/2011;											
01/12/2011	1		1	1		1		1	1	1	1

	Groundwater /Contaminated land summary report										
22/02/2011;	BH-12	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	16%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Level, Water	Field analysis	Quarterly	101.5	100.7	mOD	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	N/A	DWS	6%	No
27/06/2011;		0									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011:											
01/12/2011											
22/02/2011:	BH-12	pΗ	Field analysis	Quarterly	8.1	7.8	pН	6 <ph<9< td=""><td>DWS</td><td>4%</td><td>No</td></ph<9<>	DWS	4%	No
27/06/2011:		r	,	,		-			-		
14/09/2011;											
01/12/2011											
22/02/2011:	BH-12	Phenols. Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-13%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Potassium	Lab analysis	Quarterly	4.1	3.0	mg/l	N/A	DWS	10%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Sodium	Lab analysis	Quarterly	11.9	7.0	mg/l	80	DWS	-63%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Sulphate	Lab analysis	Quarterly	9.81	4.18	mg/l	150	DWS	-177%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Temperature	Field analysis	Quarterly	12.0	10.7	°C	N/A	DWS	6%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Total Organic	Lab analysis	Quarterly	12.0	8.5	mg/l	50	DWS	24%	No
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-12	Total Oxidized	Lab analysis	Quarterly	0.5	0.5	mg/l	N/A	DWS	-962%	No
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011	ļ	ļ									
22/02/2011	BH-12	Boron	Lab analysis	Annually	0.056	0.056	mg/l	N/A	DWS	79%	No
22/02/2011	BH-12	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.004	DWS	47%	No
22/02/2011	BH-12	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	N/A	DWS	-310%	No
22/02/2011	BH-12	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	0%	No
22/02/2011	BH-12	Coliforms, Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	-100%	No

	Groundwater /Contaminated land summary report										
22/02/2011	BH-12	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	29%	No
22/02/2011	BH-12	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011	BH-12	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	N/A	DWS	0%	No
22/02/2011	BH-12	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	40%	No
22/02/2011	BH-12	List I and II Substances	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	0%	No
22/02/2011	BH-12	Magnesium	Lab analysis	Annually	0.7	0.7	mg/l	N/A	DWS	-386%	No
22/02/2011	BH-12	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	25%	No
22/02/2011	BH-12	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	N/A	DWS	-517%	No
27/06/2011	BH-12	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1733%	No
22/02/2011	BH-12	Phosphorus, Total	Lab analysis	Annually	0.511	0.511	mg/l	N/A	DWS	-272%	No
		. ,									
22/02/2011	BH-12	Total Solids	Lab analysis	Annually	358	358	mg/l	N/A	DWS	-183%	No
22/02/2011	BH-12	Zinc	Lab analysis	Annually	0.006	0.006	mg/l	N/A	DWS	50%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.05	0.04	mg/I NH₄-N	N/A	DWS	6%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Arsenic	Lab analysis	Quarterly	0.008	0.004	mg/l	N/A	DWS	35%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Barium	Lab analysis	Quarterly	0.016	0.010	mg/l	N/A	DWS	16%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Calcium	Lab analysis	Quarterly	60.8	51.0	mg/l	N/A	DWS	8%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Chloride	Lab analysis	Quarterly	39.8	36.33	mg/l	75	DWS	-5%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Colour	Field analysis	Quarterly	Brown (sediment)	Brown (sediment)	N/A	N/A	DWS	0%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Conductivity	Field analysis	Quarterly	0.44	0.39	mS/cm	1	DWS	-3%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Dissolved Oxygen	Field analysis	Quarterly	11.0	4.7	mg/l	N/A	DWS	-120%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-13	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	-5%	No

			Groundwa	ter /Contaminated							
22/02/2011;	BH-13	Level, Water	Field analysis	Quarterly	112.86	112.21	mOD	N/A	DWS	2%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	N/A	DWS	-69%	No
27/06/2011;		-									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	pН	Field analysis	Quarterly	8.0	7.6	pН	6 <ph<9< td=""><td>DWS</td><td>2%</td><td>No</td></ph<9<>	DWS	2%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Phenols, Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-29%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Potassium	Lab analysis	Quarterly	2.1	1.9	mg/l	N/A	DWS	-7%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Sodium	Lab analysis	Quarterly	18.5	17.4	mg/l	80	DWS	4%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Sulphate	Lab analysis	Quarterly	17.44	11.80	mg/l	150	DWS	1%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Temperature	Field analysis	Quarterly	11.4	10.5	°C	N/A	DWS	9%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Total Organic	Lab analysis	Quarterly	10.0	6.3	mg/l	50	DWS	16%	No
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-13	Total Oxidized	Lab analysis	Quarterly	10.8	9.2	mg/I	N/A	DWS	-17%	No
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011											
22/02/2011	BH-13	Boron	Lab analysis	Annually	0.012	0.012	mg/I	N/A	DWS	0%	NO
22/02/2011	BH-13	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/I	0.004	DWS	40%	No
22/02/2011	BH-13	Californium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	IN/A	DWS	-/47%	NO
22/02/2011	BH-13	Coliforms, Faecal	Lab analysis	Annually	U	U	cius/100ml	IN/A	DWS	0%	NO
22/02/2011	DH-13	Connor	Lab analysis	Annually	U	U	cius/100iiii mc/l	N/A	DWS	-100%	No
22/02/2011	DH-13	Cuanida	Lab analysis	Annually	0.007	0.007	mg/l	0.5 N/A	DWS	29%	No
22/02/2011	DI-13	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011	DI 12	Fluoride	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	20%	No
22/02/2011	DH-13	read	Lap analysis	Annually	0.005	0.005	1119/1	IN/M	0402	30%	INU

			Groundwa	ter /Contaminate							
22/02/2011	BH-13	List I and II Substances	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	0%	No
22/02/2011	BH-13	Magnesium	Lab analysis	Annually	3.9	3.9	mg/l	N/A	DWS	-1%	No
22/02/2011	BH-13	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	25%	No
22/02/2011	BH-13	Orthophosphates	Lab analysis	Annually	0.81	0.81	mg/l	N/A	DWS	16%	No
27/06/2011	BH-13	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-13	Phosphorus, Total	Lab analysis	Annually	6.415	6.415	mg/l	N/A	DWS	88%	No
22/02/2011	BH-13	Total Solids	Lab analysis	Annually	4669	4669	mg/l	N/A	DWS	95%	No
22/02/2011	BH-13	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	-100%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.07	0.04	mg/l NH ₄ -N	N/A	DWS	24%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Arsenic	Lab analysis	Quarterly	0.0026	0.0025	mg/l	N/A	DWS	64%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Barium	Lab analysis	Quarterly	0.033	0.023	mg/l	N/A	DWS	52%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Calcium	Lab analysis	Quarterly	32.2	26.5	mg/l	N/A	DWS	-17%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Chloride	Lab analysis	Quarterly	30.5	21.4	mg/l	75	DWS	18%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Colour	Field analysis	Quarterly	Light brown	Clear	N/A	N/A	DWS	0%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Conductivity	Field analysis	Quarterly	0.28	0.24	mS/cm	1	DWS	-14%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Dissolved Oxygen	Field analysis	Quarterly	8.00	3.54	mg/l	N/A	DWS	-126%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	N/A	DWS	15%	No
22/02/2011; 27/06/2011; 14/09/2011; 01/12/2011	BH-14	Level, Water	Field analysis	Quarterly	99.65	99.00	mOD	N/A	DWS	0%	No

			Groundwa	ter /Contaminated							
22/02/2011;	BH-14	Manganese	Lab analysis	Quarterly	0.02	0.01	mg/l	N/A	DWS	-20%	No
27/06/2011;		0									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Odour	Field analysis	Quarterly	None	None	N/A	N/A	DWS	0%	No
27/06/2011:											
14/09/2011:											
01/12/2011											
22/02/2011;	BH-14	рН	Field analysis	Quarterly	7.8	7.0	pН	6 <ph<9< td=""><td>DWS</td><td>5%</td><td>No</td></ph<9<>	DWS	5%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Phenols, Total	Lab analysis	Quarterly	0.15	0.10	mg/l	0.1	DWS	-29%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Potassium	Lab analysis	Quarterly	3.2	2.6	mg/l	N/A	DWS	-17%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Sodium	Lab analysis	Quarterly	13.9	10.5	mg/l	80	DWS	9%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Sulphate	Lab analysis	Quarterly	39.04	28.7	mg/l	150	DWS	-62%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Temperature	Field analysis	Quarterly	12.6	10.7	°C	N/A	DWS	4%	No
27/06/2011;											
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Total Organic	Lab analysis	Quarterly	11.0	8.5	mg/l	50	DWS	21%	No
27/06/2011;		Carbon									
14/09/2011;											
01/12/2011											
22/02/2011;	BH-14	Total Oxidized	Lab analysis	Quarterly	9.8	6.5	mg/I	N/A	DWS	21%	No
27/06/2011;		Nitrogen									
14/09/2011;											
01/12/2011											
22/02/2011	BH-14	Boron	Lab analysis	Annually	0.069	0.069	mg/I	N/A	DWS	48%	No
22/02/2011	BH-14	Cadmium	Lab analysis	Annually	0.0006	0.0006	mg/l	0.004	DWS	-325%	NO
22/02/2011	BH-14	Colifornium, Total	Lab analysis	Annually	0.0018	0.0018	cfus/100ml	N/A	DWS	-28%	NO
22/02/2011	DII-14	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	N/A	DWS	0%	NU
22/02/2011	DI-14	Connor	Lab analysis	Annually	24	24	ma/l	0.5	DWS	-108%	No
22/02/2011	BH-14 BH-1/	Cupper	Lab analysis	Annually	0.011	0.011	mg/l	N/A	DWS	-300%	No
22/02/2011	BH-14	Eluoride	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	-300%	No
22/02/2011	BH-14	Lead	Lab analysis	Annually	0.0	0.0	mg/l	N/A	DWS	30%	No
22/02/2011	BH-14	List Land II	Lab analysis	Annually	0.005	0.01	mg/l	N/A	DWS	0%	No
22, 02, 2011	514	Substances	200 0101900	, and dry	0.01	0.01			2.1.5	0,0	
22/02/2011	BH-14	Magnesium	Lab analysis	Annually	1.8	1.8	mg/l	N/A	DWS	-111%	No
22/02/2011	BH-14	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	25%	No
· · · · ·											

			Groundwat	ter /Contaminated	land summary r	eport					
22/02/2011	BH-14	Orthophosphates	Lab analysis	Annually	0.37	0.37	mg/l	N/A	DWS	84%	No
27/06/2011	BH-14	PAHs (Total 17)	Lab analysis	Annually	0.0003	0.0003	mg/l	N/A	DWS	-1583%	No
22/02/2011	BH-14	Phosphorus, Total	Lab analysis	Annually	0.124	0.124	mg/l	N/A	DWS	28%	No
22/02/2011	BH-14	Total Solids	Lab analysis	Annually	315	315	mg/l	N/A	DWS	30%	No
22/02/2011	BH-14	Zinc	Lab analysis	Annually	0.027	0.027	mg/l	N/A	DWS	0.259259259	No

						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											
whet the citize is a constrained with the citize is constrained wither constrained with the citize											
**Depending on location of	the site and proximity to o	other sensitive rece	ptors alternative Receptor	r based Water Quality s	tandards should be u	sed in addition to the GTV		Groundwater	Drinking water		
e.g. if the site is close to surf	ce water compare to Surfa	ce Water Environm	nental Quality Standards (S	SWEQS), If the site is clo	ose to a drinking wate	er supply compare results to	Surface	regulations	(private supply)	Drinking water (public	Inte
		the Dr	inking Water Standards (D	WS)			water EQS	<u>GTV's</u>	<u>standards</u>	supply) standards	Valu
Table 2. Call secondar											

Table 3: Soil results

		Groundwater /Contaminated land summary report											
	Sample												
Date of	location	Parameter/			Maximum	Average							
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration	Concentration	unit						
Not applicable							SELECT						
							SELECT						

NB - The analysis of monitoring results ignores 'less than' (<) values, e.g. if the result for a given parameter was less than the limit of detection, say <0.05, the model herein assumes a result of 0.05. Results shown above are, therefore, in many cases reported as being higher than the actual result obtained.

Groundwater monitoring results also include results of EPA sampling on 28/3/11 at BH-6, BH-10A and BH-11A, plus MEHL duplicates.

	Environmenta	l Liability Risk Assessment
1	Is it a requirement of your licence to complete an ELRA?	Commentary
		Yes Submitted to EPA on 24/5/10 but no formal approval/response by the
2	Has an initial ELRA been submitted to and approved by the Agency?	Yes agency
3	Please enter the date of submission of the initial ELRA	24/05/2010
4	Date of most recent substantial ELRA update	May-10
5	What financial instrument/s do you have in place to cover unknown liabilities?	Insurance
6	Has this financial instrument/s been verified by the Agency?	No
7	What is the date of expiry of this financial instrument?	Renewed annually
8	Date of next required review of the ELRA?	May-15

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

Table 1	ELRA summary information								
Click have to serve 504]						
click here to access EPA	Operational Rick Accessment Category	SELECT							
guidance on ELKA	Operational Risk Assessment Category	SELECT							
				Mitigat	ion measures to redu	ice risk	ELI	RA	
					Data of				Doos the surrent
					implementation		Revised Risk score		financial provision
					of mitigation		for current reporting		(FP) cover the risk
Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	measures	Comment	vear	FLRA costing	score?
							100.	8	
SELECT			SELECT	SELECT			SELECT		SELECT
	The ELRA submitted to the Agency follows EPA								
SELECT	guidance, the format of which does not correspond		SELECT	SELECT			SELECT		SELECT
SELECT	with the table outlined herein. Further information		SELECT	SELECT			SELECT		SELECT
	available on request.								
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/ Restora	tion plan (CRAMP/RI
1	Was a closure or restoration plan a requirement of the licence?	Yes	
			Submitted 24/5/10 but no
2	Has a closure plan submission been approved by the Agency?	No	formal approval by the Agency
3	What is the timescale for submission?		
4	What financial instrument do you have in place to cover known liabilities?	Cash in bank	
5	What is the date of expiry of this financial instrument?		
6	What is the status of implementation of the plan?		
Table 2 C	RAMP summary information (NON Landfill)		

 Date of submission of plan
 Risk category
 Closure plan in place
 Clean closure
 Management Plan
 previous year
 Increase in risk category
 Does the current financial provision

 Not Applicable
 SELECT
 SELECT
 SELECT
 SELECT
 SELECT
 SELECT
 SELECT
 SELECT
 SELECT

Environmental Management Progra	mme (EMP)/Continuous Improver	nent Programme
Highlighted cells contain dropdown menu click to view		Additional Information
Do you maintain an Environmental Mangement System for the site. If yes, please detail in additional		
information	Yes	Independently certified to ISO 14001:2004
Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance		
with the licence requirements	Yes	
Do you maintain an onvironmental documentation (communication system to inform the public on		
environmental performance of the facility, as required by the licence	Yes	
4 environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme	invironmental Management Programme (EMP) report											
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes							
	Ongoing monitoring and				Improved Environmental							
Groundwater protection	measurement - water	100	Monitoring completed	Individual	Management Practices							
	Ongoing monitoring and				Improved Environmental							
Noise reduction	measurement - noise	100	Monitoring completed	Individual	Management Practices							
	Ongoing monitoring and				Improved Environmental							
Reduction of emissions to Air	measurement - dust	100	Monitoring completed	Individual	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

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?

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Not applicable (Guidance Note post-Draft Noise dates monitoring) <u>Guidance</u> No No

Yes

Table 1: Noise monitoring summary				1					
Date of Noise locatic monitoring Time period (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 c</u> ompliant with noise limits (day/evening/night)?
23/06/2011 09:00 - 13:00	N4	51	42	52		No	Not applicable		Yes
23/06/2011 09:00 - 13:00	N5	57	35	54		No		Road traffic on local road network + intermittent aircraft noise	Yes
23/06/2011 09:00 - 13:00	N6	56	36	52		No		Road traffic on local road network + intermittent aircraft noise	Yes
23/06/2011 09:00 - 13:00	N7	63	38	56		No		Road traffic on local road network + intermittent aircraft noise + motorway noise	Yes
23/06/2011 09:00 - 13:00	N8	64	34	56		No		Road traffic on local road network + intermittent aircraft noise + motorway noise	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?

Any additional comments? (less than 200 words)

Resource usage/ Energy Efficiency

Additional information

Cells D13 and E13 based on SEAI: 10.169kWh/litre of diesel

						L
No formal audit	completed; ongoing	monitoring and	management of	energy use by	licen see.	
					When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	

Ļ

 SEAL - Large
 SEAL - Large

 1
 State a member of any accredited programmes for reducing energy usage/water conservation such
 Industry Energy

 2
 as the SEAI programme linked to the right? If yes please list them in additional information
 Network (LEN)

 Where Fuel Oil is used in boilers on site is the suphur content compliant with licence conditions? Please state percentage in additional information
 Network (LEN)

Not applicable

Table 1 Energy usage	e on site			
			Production +/- % compared to previous reporting	Energy Consumption +/- % vs overall site
Energy Use	Previous year kWh	Current year kWh	year**	production*
Total	215,083.37	195,330.82		-10.11%
Electricity	46,400.00	33,420.00		-38.84%
Fossil Fuels:				
Heavy Fuel Oil	168,683.37	161,910.82		-4.18%
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 year Table 2 Water usage on site

			Production +/- %	Energy
			compared to	Consumption +/- %
			previous reporting	vs overall site
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*
Groundwater				
Surface water				
Public supply	2,287.00	1,338.00		-70.93%
Total	2,287.00	1,338.00		-70.93%
* where consumption of water can be	e compared to overall site	production please enti-	er this information a	s percentage increase

decrease compared to the previous reporting year. ** where site production information is available please enter percentage increase or decrease compared to previous year

it tinding recommendation			
Description of	Predicted energy		
Recommendations Measures proposed	of measures savings % Implementation date	Responsibility	Completion date

17- CONSTRUCTION AND

19- WASTES FROM WASTE

MANAGEMENT FACILITIES, 10- WASTES FROM THERMAL

PROCESSES 15- WASTE PACKAGING

ABSORBENTS, WIPING

MANAGEMENT FACILITIES, OF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMANN CONSUMPTION AND WATER FOR INDUSTRIAL USE 19- WASTES FROM WASTE Glass

DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) Insulation materials

Sludges from water clarifi

Bottom/Boiler Ash

Glass packaging

170604

190902

100101

drondown	list click to see ontion	15

Quantity of

waste

remaining on

site at the end

of reporting

year (tonnes)

Comments -

1892 1.892 tonnes in

orage

0% D5- Specially engineered landfill

ECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES Additional Information 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 1 boundaries is to be captured through PRTR reporting) 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 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 3 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 EWC code Source of waste accepted Description of waste Quantity of waste Quantity of waste accepted in Reduction/Incr Reason for Packaging Content (%)-Disposal/Recovery or onnage limit for you accepted accepted in current previous reporting year (tonnes) ease over duction/increase only applies if the waste eatment operation carried out at your site and the description site (total Please enter an from previous has a packaging reporting year (tonnes) previous year tonnes/annum) accurate and detailed +/-% reporting year component of this operation description - which European Waste European Waste Catalogue EWC codes Catalogue EWC codes 12-WASTES FROM SHAPING Waste blasting material 120117 738.14 #DIV/0! 0% D5- Specially engineered landfill AND PHYSICAL AND other than those MECHANICAL SURFACE nentioned in 12 01 16 TREATMENT OF METALS AND PLASTICS E.g. 170101 17- CONSTRUCTION AND 72.48 0% D5- Specially engineered landfill Concrete 79 DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 17- CONSTRUCTION AND Mixture of concrete. 16.70 0% D5- Specially engineered landfill DEMOLITION WASTES bricks, tiles and ceramics INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES 170202 17- CONSTRUCTION AND Glass 26.94 67 0% D5- Specially engineered landfill DEMOLITION WASTES INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 170302 17- CONSTRUCTION AND Bituminous mixtures #DIV/0! 0% D5- Specially engineered landfill DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) E.g. 3803.66 recovered 170504 17- CONSTRUCTION AND Soil & stones 20,692.48 27991 0% D5- Specially engineered landfill DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 17- CONSTRUCTION AND 170504 Soil & stones 3 803 66 0% R5-Recyclina/reclamation or DEMOLITION WASTES other inorganic materials which (INCLUDING EXCAVATED SOIL ncludes soil celaning resuling ir FROM CONTAMINATED SITES recovery of the soil and recvclina of inoraanic struction materials

13.70

1,029.66

412.10

20

129

329

309

22

698%

25%

170506	17- CONSTRUCTION AND	Dredging spoil	-	1578		0%	D5- Specially engineered landfill	
	DEMOLITION WASTES							
170904	17- CONSTRUCTION AND	Mixed C&D wastes	-	103		0%	D5- Specially engineered landfill	
	DEMOLITION WASTES							

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

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

6 Does your facility have relevant nuisance controls in place?

D TO BE COMPLETED BY LAN

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

	Table 2 Waste type	e 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.	Inert waste	500,000	27,378		
e.g.				4,040,649	

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	
						Dependent on input + planning						0 (further areas of quarry to be developed as lined cells in line with phased restoration	Inert landfill liner in accordance with Landfill
W0129-02	2003	Ongoing	Yes	Private	Inert	requirements	No	No	No	30,650m ²	30,650m ²	of the site).	Directive 1999
1	1	1											

No No

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

Was meterological monitoring in compliance with Landfill Directive (LD) standard	Was leachate monitored in compliance with LD standard in	Was Landfill Gas monitored in compliance with LD standard in	Was SW monitored in compliance with LD	Have GW trigger levels	Were emission limit values agreed with	Was topography of the site surveyed in	Has the statement under S53(A)(5) of WMA been submitted in	
in reporting year +	reporting year	reporting year	standard in reporting year	been established	the Agency (ELVs)	reporting year	reporting year	Comments
Yes	Yes	N/A	Yes	Yes	Yes	Yes	No	N/A
.+ please refer to Landfill	Manual linked above for relevant I	Landfill Directive monitoring stand	dards					

Table 5 Capping-Landfill only

				Area with waste that		
Area uncapped*	Area with temporary cap			should be permanently		
SELECT UNIT	CELECT INIT	Area with final cap to LD		capped to date under		
SELECT UNIT	SELECTUMI	Standard m2 ha, a	Area capped other	licence	What materials are used in the cap	Comments
	0	3600m2	Not applicable	Not applicable	Subsoil and topsoil	

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

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

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

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated			Was surface emissions monitoring performed	
by LFG System m3	Power generated (MW/KWh)	Used on-site or to national grid	during the reporting year?	Comments
Not applicable			SELECT	





REFERENCE YEAR 2011

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2011.xls | Return Year : 2011 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.13

1. FACILITY IDENTIFICATION	
Parent Company Name	Murphy Environmental Hollywood Limited
Facility Name	Murphy Environmental Hollywood Limited
PRTR Identification Number	W0129
Licence Number	W0129-02

Waste or IPPC Classes of Activity	
No.	class_name
	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one
3.5	another and the environment.
3.1	Deposit on, in or under land (including landfill).
	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary
3.13	storage, pending collection, on the premises where the waste concerned is produced.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Hollywood Great
Address 2	Nags Head
Address 3	The Naul
Address 4	County Dublin
	Dublin
Country	Ireland
Coordinates of Location	-9.09708 52.6126
River Basin District	IEEA
NACE Code	3900
Main Economic Activity	Remediation activities and other waste management services
AER Returns Contact Name	Ken Rooney
AER Returns Contact Email Address	ken_rooney@murphyenvironmental.ie
AER Returns Contact Position	Facility Manager
AER Returns Contact Telephone Number	01-8433744
AER Returns Contact Mobile Phone Number	087-9824322
AER Returns Contact Fax Number	01-8433747
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(d)	Landfills						
50.1	General						
3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)							
Is it applicable?	No						
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 ?							

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2011.xls | Return Year : 2011 |

02/05/2012 09:40

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR	Please enter all quantities in this section in KGs							
POI	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/Yea
					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				METHOD	QUANTITY				
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidenta	al) 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			
POL	POLLUTANT			NETHOD	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

Additional Data Requested from Landfill operators											
or the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide ummary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total nethane generated. Operators should only report their Net methane (CH4) emission to the environment under (Itotal) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:											
Landfill:	Murphy Environmental Hollywood Limited				_						
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				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

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2011.xls | Return Year : 2011 |

02/05/2012 09:45

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 onl RELEASES TO WATERS 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)

		Please enter all quantities in this section in KGs						
PO	LLUTANT		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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PI 02/05/2012 09:40

SECTION A : PRTR POLLUTANTS

OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TRE	ATMENT OR SEWER		Please enter all quantities in this section in KGs				
POLLUTANT			METHO)D	QUANTITY				
			Met	hod Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG	G/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 TRAN	ATMENT OR SEWER		Please enter all quantities in this section in KGs					
POLLUTANT			METHO	DD	QUANTITY			
			Me	thod 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

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2011.xls | Return Year : 2011 |

02/05/2012 09:40

SECTION A : PRTR POLLUTANTS

	Please enter all quantities in this section in KGs						
POLLUTANT			METH	OD		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

* 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)

				Please enter all quantities			
POLLUTANT			METHO	D			QUANTITY
			Met	nod 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 00

5. ON	S. ONTEL INCLAIMENT & OT OTEL INCLUE OF ITACE PRIVE WOLDS Packing ware and a support of the inclusion of the second of the s											02/05/2012 09:40	
Trans	sfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Non</u> <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility <u>Non Haz Waste</u> : 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)
Traine	Jor Doolination	0000	riazaraoao			opolation		mounoù ocoù	Hoddinoni	•	Hollywood Great,Nag's		
Withi	n the Country	12 01 17	No	738.0	waste blasting material other than those mentioned in 12 01 16	D5	М	Weighed	Offsite in Ireland	MEHL,W0129-02	Head,Naul,Co. Dublin,Ireland Hollywood Great,Nag's Head Naul Co		
Withi	n the Country	17 01 01	No	72.0	concrete mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	D5	м	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul.Co.		
Within	n the Country	17 01 07	No	16.7	01 06	D5	м	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul.Co.		
Within	n the Country	17 02 02	No	26.94	glass bituminous mixtures containing other than	D5	М	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul,Co.		
Withi	n the Country	17 03 02	No	572.5	those mentioned in 17 03 01 soil and stones other than those mentioned	D5	М	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul,Co,		
Withi	n the Country	17 05 04	No	20692.48	in 17 05 03	D5	м	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head Naul Co		
Withi	n the Country	17 06 04	No	13.92	mentioned in 17 06 01 and 17 06 03	D5	Μ	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul,Co.		
Withi	n the Country	19 09 02	No	1029.66	sludges from water clarification	D5	Μ	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul,Co.		
Withi	n the Country	19 12 05	No	412.46	glass soil and stones other than those mentioned	D5	м	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin,Ireland Hollywood Great,Nag's Head,Naul,Co.		
Within	n the Country	17 05 04	No	3803.66	in 17 05 03	R5	М	Weighed	Offsite in Ireland	MEHL,W0129-02	Dublin, Ireland		
			* Select a row	by double-clicking	the Description of Waste then click the delete button								

5 ONSITE TREATMENT & OFESITE TRANSFERS OF WASTE | PPTR# - W0120 | Equility Name - Murphy Environ tal Hollywood Limited L Eilanama - W0120, PPTP 2011 via L Batum Voor - 2011

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