Facility Information Summary	,		
AER Reporting Year	2014	7	
Licence Register Number	W0129-02]
Name of site	Murphy Environmental Hollywoo	od Ltd.	1
Site Location	Hollywood Great, Nag's Head, N	aul, Co. Dublin	
NACE Code	3821		
Class/Classes of Activity	As W0129-02: Disposal Classes 1	, 5, 13; Recovery Classes 3, 4, 13	
National Grid Reference (6E, 6 N)	E315723 N258073		
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence <u>listing all</u> <u>exceedances of licence limits (where</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u>	waste is accepted, and is subject Characterisation Testing, (ii) Leve Tonnage recieved in 2014 was ap low levels as a result of depresse The facility was certified to ISO1 No significant infrastructure/dev In relation to environmental mod	to strict Waste Acceptance Proceded 2 "1 in 100" Compliance Testing, opprox. 20% higher than 2013. Input d construction/development activit 4001:2004, the International Standa elopment works were undertaken of hitoring during the reporting year, t	and (iii) Level 3 On-Site Verification Testing. tonnage to the site continues to remain at ty nationally. ard for Environmental Management Systems.
	trends in monitoring results have	•	

Declaration:

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

derste Hary-Kerstie Flanagan, PATEL TONRA LTD. **Environmental Consultant** (or nominated, suitably qualified and experienced deputy)

<u>30/03/2015</u>

Date

AIR-summary template	Lic No:	W0129-02	Year	2014
Answer all questions and complete all tables where relevant				
		Addi	itional information	_
	No	Ambient dust monitorin	ng was conducted at 4 monitoring	
Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current		locations twice during t	he reporting year - there were no	
1 reporting year and answer further questions. If you do not have licenced emissions and do not complete a		breaches of the dust de	position ELV.	
solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables				
				<u>-</u>
Periodic/Non-Continuous Monitoring				

2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below SELECT
Basic air

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

<u>g</u>_____

AGN2	SELECT	

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

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

No

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

Continuous Monitoring

Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

SELECT		
SELECT		

6

4

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

AIR-summary template	Lic No:	W0129-02	Year	2014	
7					
Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	SELECT				

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table

	<u>Bypass</u>	<u>protocol</u>	
-			

Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action	
	Duration** (hours)	Duration** (hours) Location	Duration** (hours) Location Reason for bypass	Duration** (hours) Location Reason for bypass Impact magnitude Impact magnitude Impact magnitude Impact magnitude Impact magnitude Impact magnitude	

* 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

Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

	ent Management Pla ssion limit value	n Summary	<u>Solvent</u> regulations				
Reporting year	Total solvent input on site (kg)		Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance		
					SELECT		
					SELECT		



AIR-summary	template				Lic No:	W0129-02		Year	2014			
Table A5:	Solvent Mass Balan	ce summary			_							
	(I) Inputs (kg)		(O) Outputs (kg)									
Solvent	(I) Inputs (kg)	-			Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)				
							Total					

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0129-02		Year	2014			
Additional information									
Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections		SWD2 to SV surface wat pumping ac observed at landfill area	⁷ No. licensed Surface Water Disc MD7 were previously surface wa ter pumping associated with qua ctivities have been suspended; ti t these locations is sourced from as. The norm is that these locatin ring each surface water sampling	er discharge points from rrying operations. The wat erefore any water/flow nor surface water run-off from ons are dry; however this is	er w non-				
 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u> 	Yes								

Lisened in location Lisened in location <thlisened in="" location<="" th=""> Lisened in loca</thlisened>										1	
Location reference Location activities PRTR Parameter Lie method Parameter Monitoring date activities Lie method measuremit Lie method measuremit 5W-1 ugstream Ammenia- Introquenci 21/05/2014 N/A N/A 0.010 mg/l Hi_A yes 5W-1 ugstream Calcium 21/05/2014 N/A N/A 0.012 mg/l yes 5W-1 ugstream Calcium 21/05/2014 N/A N/A 0.012 mg/l yes 5W-1 ugstream Calcium 21/05/2014 N/A N/A N/A 21.05 mg/l yes 5W-1 ugstream Calciuthy 21/05/2014 N/A N/A N/A 0.01 mg/l yes 5W-1 ugstream Conductivity 21/05/2014 N/A N/A N/A 0.07 mg/l yes 5W-1 ugstream Conductivity 21/05/2014 N/A N/A N/A 0.06 mg/l yes 5W-1 ugstream </th <th>Table</th> <th>W1 Storm wat</th> <th>er monitoring</th> <th>_</th> <th>-</th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th>	Table	W1 Storm wat	er monitoring	_	-			-			
SW-1 upstream Mintagen Intergen 09/12/2014 N/A N/A 0.10 mg/l Ni-N yes SW-1 upstream Calcium 21/5/2014 N/A N/A 107.20 mg/l yes SW-1 upstream Calcium 21/5/2014 N/A N/A N/A 21.05 mg/l yes SW-1 upstream Calcium 21/5/2014 N/A N/A N/A 21.05 mg/l yes SW-1 upstream Calciustrivity 21/5/2014 N/A N/A N/A 3.40 mg/l yes SW-1 upstream Caductivity 21/5/2014 N/A N/A N/A 0.70 mg/l yes SW-1 upstream Caductivity 21/5/2014 N/A N/A N/A 0.70 mg/l yes SW-1 upstream Magnesium 21/5/2014 N/A N/A N/A 0.66 mg/l 0.91 yes SW-1 upstream		relative to site	PRTR Parameter		0	level in licence or any revision	Compliance	Measured value		Compliant with licence	Comments
SW-1 upstream Calcium 09/12/2014 N/A N/A N/A 107.20 mg/h yes SW-1 upstream Chemical Dogen 21/97/2014 N/A N/A 21.50 mg/h yes SW-1 upstream Chorde 21/97/2014 N/A N/A 35.40 mg/h yes SW-1 upstream Chorde 21/97/2014 N/A N/A 0.70 ms/cm yes SW-1 upstream Conduct/nity 09/1/2014 N/A N/A 0.70 ms/cm yes SW-1 upstream Conduct/nity 09/1/2014 N/A N/A 10.00 mg/h yes SW-1 upstream Magnesium 21/97/2014 N/A N/A 10.70 mg/h yes SW-1 upstream Magnesium 21/97/2014 N/A N/A 0.46 mg/h yes SW-1 upstream QH 21/97/2014 N/A N/A 0.46 m	SW-1	upstream				N/A	N/A	0.10	mg/l NH ₄ -N	yes	
SW-1 upstream Demand Uppen Demand 09/12/2014 N/A N/A 21.50 mg/l yes SW-1 upstream Chorde 20/05/2014 N/A N/A N/A 35.40 mg/l yes SW-1 upstream Conductivity 20/05/2014 N/A N/A 0.70 ms/cm 9/12 SW-1 upstream Conductivity 20/05/2014 N/A N/A 0.70 ms/cm 9/12 SW-1 upstream Conductivity 20/05/2014 N/A N/A 10.00 mg/l yes SW-1 upstream Magnesium 20/05/2014 N/A N/A 0.46 mg/l yes SW-1 upstream Magnesium 20/05/2014 N/A N/A 0.46 mg/l yes SW-1 upstream Magnesium 20/05/2014 N/A N/A 0.46 mg/l yes SW-1 upstream pH 20/05/2014 N/A N/A 0.46	SW-1	upstream		Calcium		N/A	N/A	107.20	mg/l	yes	
SW-1 upstream Chloride 09/12/2014 N/A N/A N/A SA mg/l yes SW-1 upstream Conductivity 09/12/2014 N/A N/A N/A 0.70 mg/l yes SW-1 upstream Conductivity 09/12/2014 N/A N/A N/A 0.00 mg/l yes SW-1 upstream Conductivity 09/12/2014 N/A N/A N/A 10.00 mg/l yes SW-1 upstream Magnesium 21/05/2014 N/A N/A N/A 0.46 mg/l yes SW-1 upstream Orthophosphate/Ph 21/05/2014 N/A N/A N/A 0.46 mg/l yes SW-1 upstream Orthophosphate/Ph 21/05/2014 N/A N/A N/A 0.46 mg/l yes SW-1 upstream Orthophosphate/Ph 21/05/2014 N/A N/A N/A 9.10 mg/l yes	SW-1	upstream				N/A	N/A	21.50	mg/l	yes	
SW-1upstreamconductivity09/12/2014N/AN/A0.70mS/cmvesSW-1upstreamlbisolved Oxgen09/12/2014N/AN/A10.00mg/nvesSW-1upstreamMagnesium21/05/2014 09/12/2014N/AN/A10.70mg/nvesSW-1upstreamMagnesium21/05/2014 09/12/2014N/AN/A10.70mg/nvesSW-1upstreamMagnesium21/05/2014 09/12/2014N/AN/A0.46mg/nvesSW-1upstreamOrthophosphate/Pb09/12/2014 09/12/2014N/AN/A0.06mg/nvesSW-1upstreamoptimum21/05/2014 09/12/2014N/AN/A8.20pHvesSW-1upstreamoptimum21/05/2014 09/12/2014N/AN/AN/A8.20pHvesSW-1upstreamoptimum21/05/2014 09/12/2014N/AN/AN/A8.20pHvesSW-1upstreamsolum21/05/2014 09/12/2014N/AN/AN/A9.100mg/nvesSW-1upstreamcolumsulptate21/05/2014 09/12/2014N/AN/AN/A10.80°cvesSW-1upstreamfcolalAllalinity09/12/2014N/AN/AN/A10.80°cvesSW-1upstreamfcolalAllalinity09/12/2014N/AN/AN/A10.00mg/nves<	SW-1	upstream		Chloride		N/A	N/A	35.40	mg/l	yes	
SW-1UpstreamInsolved Oxygen09/12/2014N/AN/A1.0.00mg/lyesSW-1UpstreamAngersium21/57/014 09/12/2014N/AN/A1.0.07mg/lyesSW-1upstreamMagnesium09/12/2014N/AN/AA.0.46mg/lyesSW-1upstreamOntophosphate/m ophorus09/12/2014N/AN/AA.0.46mg/lyesSW-1upstreamOntophosphate/m ophorus21/57/014 09/12/2014N/AN/AA.0.66mg/lyesSW-1upstreamOntophosphate/m ophorus21/57/014 09/12/2014N/AN/AA.0.66mg/lyesSW-1upstreamOntophosphate/m 	SW-1	upstream		Conductivity		N/A	N/A	0.70	mS/cm	yes	
SW-1upstreamMagnesium09/12/2014N/AN/A10.70mg/IyesSW-1upstreamMagnese21/05/2014N/AN/AA.6.6mg/Igr/mg/Igr/mg/ISW-1upstreamOrthophosphate//p21/05/2014N/AN/AA.6.6mg/Igr/mg/Igr/mg/ISW-1upstreamOrthophosphate//p21/05/2014N/AN/AA.6.6mg/Igr/mg/Igr/mg/ISW-1upstreamIupstreamofthophosphate//p21/05/2014N/AN/AA.8.20pHgr/mg/Igr/mg/ISW-1upstreamGodium69/12/2014N/AN/AN/A19.30mg/Igr/mg/Igr/mg/ISW-1upstreamfoldum60/12/2014N/AN/AN/A19.00mg/Igr/mg/Igr/mg/ISW-1upstreamfoldum60/12/2014N/AN/AN/A19.00mg/Igr/mg/Igr/mg/ISW-1upstreamfoldum60/12/2014N/AN/AN/A19.00mg/Igr/mg/Igr/gr/gr/mg/ISW-1upstreamfoldumfold/Alcalinity21/05/2014N/AN/AN/A10.00mg/Igr/gr/gr/gr/gr/gr/gr/gr/gr/gr/gr/gr/gr/g	SW-1	upstream		Dissolved Oxygen		N/A	N/A	10.00	mg/l	yes	Results also
SW-1upstreamManganese09/12/2014N/AN/A0.46mg/l(mg/lyesSW-1upstreamOrthophosphate/h sphorus09/12/2014N/AN/AA.0.66mg/l0mg/l0yesSW-1upstreamupstreampH09/12/2014N/AN/AA.8.20pHyesSW-1upstreamodumpH09/12/2014N/AN/AA.8.20pHyesSW-1upstreamodum21/05/2014N/AN/A19.30mg/lyesSW-1upstreamsolum0/12/2014N/AN/A19.30mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A19.30mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A19.30mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A10.80cyesSW-1upstreamfemperature0/12/2014N/AN/A10.80mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A10.80mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A10.80mg/lyesSW-1upstreamfemperature0/12/2014N/AN/A10.00mg/lyesSW-2downstreamfemmenale0/12/2014N/AN/A13.20mg/lyesSW-2downstream <td>SW-1</td> <td>upstream</td> <td></td> <td>Magnesium</td> <td></td> <td>N/A</td> <td>N/A</td> <td>10.70</td> <td>mg/l</td> <td>yes</td> <td>compared against A3 waters, Surface Water Regulations</td>	SW-1	upstream		Magnesium		N/A	N/A	10.70	mg/l	yes	compared against A3 waters, Surface Water Regulations
SW-1upstreamopstream <td>SW-1</td> <td>upstream</td> <td></td> <td>Manganese</td> <td></td> <td>N/A</td> <td>N/A</td> <td>0.46</td> <td>mg/l</td> <td>yes</td> <td>and Salmonid Water Reguations -</td>	SW-1	upstream		Manganese		N/A	N/A	0.46	mg/l	yes	and Salmonid Water Reguations -
SW-1upstreamupstreamPH09/12/2014N/AN/A8.20pHyesSW-1upstreamcodium21/05/2014N/AN/ASN/A19.30mg/lgmg/l<	SW-1	upstream				N/A	N/A	0.06	mg/l	yes	no exceedances noted in SW-1 during the
SW-1upstreamoupstreamSodium09/12/2014N/AN/A19.30mg/lyesSW-1upstreamSulphate21/05/2014 09/12/2014N/AN/A92.10mg/lgg/lyesSW-1upstreamTemperature21/05/2014 09/12/2014N/AN/A10.80°cyesSW-1upstreamTotal Alkalinity21/05/2014 09/12/2014N/AN/A220.00mg/lyesSW-1upstreamTotal Suspended Solids21/05/2014 09/12/2014N/AN/A220.00mg/lyesSW-1upstreamTotal Suspended Solids21/05/2014 09/12/2014N/AN/A10.00mg/lyesSW-2downstreamMomoniacal Nitrogen21/05/2014 09/12/2014N/AN/A0.00mg/lyesSW-2downstreamCalcium21/05/2014 09/12/2014N/AN/A133.20mg/lyesSW-2downstreamChemical Oxggen 02/12/201421/05/2014 09/12/2014N/AN/A10.00mg/lyes	SW-1	upstream		рН		N/A	N/A	8.20	рН	yes	reporting year.
SW-1upstreamupstreamSulphate $09/12/2014$ N/AN/A 92.10 mg/lmg/lyesSW-1upstreamremperature $09/12/2014$ N/A N/A 10.80 $0^{\circ}C$ yes SW-1upstreamremperature $09/12/2014$ N/A N/A 10.80 $0^{\circ}C$ yes SW-1upstreamremperature $09/12/2014$ N/A N/A 220.00 mg/l yes SW-1upstreamrotal Alkalinity $21/05/2014$ N/A N/A 220.00 mg/l yes SW-1upstreamrotal Suspended Solids $21/05/2014$ N/A N/A 10.00 mg/l yes SW-2downstreamrotal Suspended Solids $21/05/2014$ N/A N/A 0.00 mg/l yes SW-2downstreamcalciam $21/05/2014$ N/A N/A 0.00 mg/l yes SW-2downstreamcalciam $21/05/2014$ N/A N/A 133.20 mg/l yes SW-2downstreamchemical Oxygen $21/05/2014$ N/A N/A 150.00 mg/l yes	SW-1	upstream		Sodium		N/A	N/A	19.30	mg/l	yes	
SW-1upstreamremperature09/12/2014N/AN/A10.80°CyesSW-1upstreamrotal Alkalinity21/05/2014 09/12/2014N/AN/A220.00mg/lgmg/lyesSW-1upstreamrotal Suspended Solids21/05/2014 09/12/2014N/AN/AN/A10.00mg/lmg/lyesSW-1upstreamrotal Suspended Solids21/05/2014 09/12/2014N/AN/A10.00mg/lyesSW-2downstreamrotal Suspended Solids21/05/2014 09/12/2014N/AN/A0.00mg/lyesSW-2downstreamcalcum21/05/2014 09/12/2014N/AN/A133.20mg/lyesSW-2downstreamchemical Oxygen21/05/2014 09/12/2014N/AN/A15.00mg/lupstream	SW-1	upstream		Sulphate		N/A	N/A	92.10	mg/l	yes	
SW-1upstreamrotal Alkalinity09/12/2014N/AN/A220.00mg/lyesSW-1upstreamrotal Suspended solids21/05/2014 09/12/2014N/AN/A10.00mg/lyesTImage: Solid Sol	SW-1	upstream		Temperature		N/A	N/A	10.80	°C	yes	
SW-1 upstream local suspensed (odi suspensed) 09/12/2014 N/A N/A 10.00 mg/l yes Image: Market and Mark	SW-1	upstream		Total Alkalinity		N/A	N/A	220.00	mg/l	yes	
SW-2 downstream Ammonical Nitrogen 09/12/2014 N/A N/A 0.00 mg/l NH ₄ ·N yes SW-2 downstream Calcium 21/05/2014 09/12/2014 N/A N/A 133.20 mg/l yes SW-2 downstream Chemical Oxygen 21/05/2014 09/12/2014 N/A N/A 133.20 mg/l yes	SW-1	upstream				N/A	N/A	10.00	mg/l	yes	
SW-2 downstream Ammoniacal Nitrogen 09/12/2014 N/A N/A 0.00 mg/l NH ₄ ·N yes SW-2 downstream calcium 21/05/2014 09/12/2014 N/A N/A 133.20 mg/l yes					21/05/2014						
SW-2 downstream Calcium 09/12/2014 N/A N/A 133.20 mg/l yes SW 3 downstream Chemical Oxygen 00/12/2014 N/A N/A 133.20 mg/l yes	SW-2	downstream			09/12/2014	N/A	N/A	0.00	mg/l NH ₄ -N	yes	
SW 2 downstream Chemical Oxygen op (12/2014 N/A N/A 10 00 mm// 100	SW-2	downstream		Calcium	09/12/2014	N/A	N/A	133.20	mg/l	yes	
	SW-2	downstream		Chemical Oxygen Demand		N/A	N/A	16.00	mg/l	yes	

AER I	Monitori	ing returns su	mmary template-W/	ATER/WASTEWA	TER(SEWER)		Lic No:	W0129-02		Year	2014	
	SW-2	downstream		Chloride	21/05/2014 09/12/2014	N/A	N/A	33.40	mg/l	yes		
	300-2	uownstream		Chioride		N/A	N/A	55.40	mg/i	yes		
5	SW-2	downstream		Conductivity	21/05/2014 09/12/2014	N/A	N/A	0.80	mS/cm	yes		
s	SW-2	downstream		Dissolved Oxygen	21/05/2014 09/12/2014	N/A	N/A	10.50	mg/l	yes	Results also	
2	SW-2	downstream		Magnesium	21/05/2014 09/12/2014	N/A	N/A	11.60	mg/l	yes	compared against A3 waters, Surface	
s	SW-2	downstream		Manganese	21/05/2014 09/12/2014	N/A	N/A	0.00	mg/l	yes	Water Regulations and Salmonid Water Reguations -	
s	SW-2	downstream		Orthophosphate/Ph osphorus	21/05/2014 09/12/2014	N/A	N/A	0.10	mg/l	yes	no exceedances noted in SW-2 during the	
5	SW-2	downstream		рН	21/05/2014 09/12/2014	N/A	N/A	8.60	рН	yes	reporting year.	
5	SW-2	downstream		Sodium	21/05/2014 09/12/2014	N/A	N/A	16.10	mg/l	yes		
5	SW-2	downstream		Sulphate	21/05/2014 09/12/2014	N/A	N/A	144.30	mg/l	yes		
5	SW-2	downstream		Temperature	21/05/2014 09/12/2014	N/A	N/A	11.70	°c	yes		
5	SW-2	downstream		Total Alkalinity	21/05/2014 09/12/2014	N/A	N/A	202.00	mg/l	yes		
5	SW-2	downstream		Total Suspended Solids	21/05/2014 09/12/2014	N/A	N/A	67.50	mg/l	yes		
ST	SWD-6	onsite		Ammoniacal Nitrogen	21/05/2014 09/12/2014	N/A	N/A	0.00	mg/I NH ₄ -N	yes		
S	SWD-6	onsite		Calcium	21/05/2014 09/12/2014	N/A	N/A	269.40	mg/l	yes		
SI	SWD-6	onsite		Chemical Oxygen Demand	21/05/2014 09/12/2014	N/A	N/A	9.00	mg/l	yes		
SI	SWD-6	onsite		Chloride	21/05/2014 09/12/2014	N/A	N/A	26.10	mg/l	yes		
S	SWD-6	onsite		Conductivity	21/05/2014 09/12/2014	N/A	N/A	1.20	mS/cm	yes		
S	SWD-6	onsite		Dissolved Oxygen	21/05/2014 09/12/2014	N/A	N/A	8.00	mg/l	yes		
S	SWD-6	onsite		Magnesium	21/05/2014 09/12/2014	N/A	N/A	17.60	mg/l	yes		
S	SWD-6	onsite		Manganese	21/05/2014 09/12/2014	N/A	N/A	0.50	mg/l	yes		
S	SWD-6	onsite		Orthophosphate	21/05/2014 09/12/2014	N/A	N/A	0.10	mg/l	yes		
S	SWD-6	onsite		рН	21/05/2014 09/12/2014	N/A	N/A	7.20	рН	yes		
S	SWD-6	onsite		Sodium	21/05/2014 09/12/2014	N/A	N/A	15.10	mg/l	yes		
S	SWD-6	onsite		Sulphate	21/05/2014 09/12/2014	N/A	N/A	400.30	mg/l	yes		
S	SWD-6	onsite		Suspended Solids	21/05/2014 09/12/2014	35	All values < ELV	155.00	mg/l	yes		
S	SWD-6	onsite		Temperature	21/05/2014 09/12/2014	N/A	N/A	11.10	°c	yes		

AER Monito	ring returns su	mmary template-W	ATER/WASTEWA	ATER(SEWER)		Lic No:	W0129-02		Year	2014
SWD-6	onsite		Total Alkalinity	21/05/2014 09/12/2014	N/A	N/A	238.00	mg/l	yes	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

Table W2 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	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 y comment section of Table W3		ef details in the	SELECT	Additional information	
	Was all monitoring carried out in accordance with EPA					
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal				
	Data Reported to the EPA? If no please detail what areas	Lab Quality	Assessment of			
4	require improvement in additional information box	checklist	results checklist	SELECT		

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1		Frequency of monitoring		ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value		Compliant with licence		Procedural reference source	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		

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

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

Continuous monitoring

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

Additional Information

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6	Did continuous monitoring equipment experience downtime? If yes please record downtime in		
0	table W4 below	SELECT	
-	Do you have a proactive service contract for each piece of continuous monitoring equipment on		
	site?	SELECT	
	Did abatement system bypass occur during the reporting year? If yes please complete table W5		
ð	below	SELECT	

Table W4: Summary of average emissions -continuous monitoring

			ELV or trigger					% change +/- from			
			values in licence or					previous reporting	Monitoring	Number of ELV	
Emission	Emission		any revision	Averaging	Compliance	Units of	Annual Emission for current	year	Equipment	exceedences in	
reference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	reporting year (kg)		downtime (hours)	reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					
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note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

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

AER Monit	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)					Lic No:	W0129-02	Year	2014	

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template Lic No:	W0129-02		Year	2014		
Bund testing dropdown menu click to see options		Additional information				
	Yes	Bund testing is stipulated in W0129-	T			
		02; however fuel is no longer stored				
		in the diesel tanks in the bunded				
		area on site (the plant items which				
		required diesel are no longer on				
Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are structured by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all new bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on bunds are your licence to undertake integrity testing on		site). Bund testing has, therefore,				
containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be list	sted in	not been required (diesel tanks are				
the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)		empty). The only diesel currently				
		stored on site is in the self-				
		contained mobile fuel bowser which				
		is stored in the garage building.				
1						
2 Please provide integrity testing frequency period	SELECT					
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Che						
3 type units and mobile bunds)	SELECT					
4 How many bunds are on site?						
5 How many of these bunds have been tested within the required test schedule?						
6 How many mobile bunds are on site?						
7 Are the mobile bunds included in the bund test schedule?	SELECT					
8 How many of these mobile bunds have been tested within the required test schedule?			1			
9 How many sumps on site are included in the integrity test schedule?			_			
0 How many of these sumps are integrity tested within the test schedule?			1			
Please list any sump integrity failures in table B1			т			
1 Do all sumps and chambers have high level liquid alarms?	SELECT		4			
2 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	SELECT		4			
3 Is the Fire Water Retention Pond included in your integrity test programme?	SELECT		1			
Table B1: Summary details of bund /containment structure integrity test						

		bund / containment structure inte	-8)											
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date	Results of retest(if in current reporting year)
Structure 15		Speeny other type	riouder containient	rectuar capacity	cupuerty required		other test type	Test date			explanation (50 words		Torrectest	reporting yeary
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		
* Capacity required should com	nply with 25% or 110% containment	rule as detailed in your licence					Commentary							
Has integrity testing be	een carried out in accorda	nce with licence requirements and	d are all structures tested in					T						
15 line with BS8007/EPA	Guidance?		SELECT											
16 Are channels/transfer	Are channels/transfer systems to remote containment systems tested?							I						
17 Are channels/transfer	systems compliant in both	n integrity and available volume?	SELECT		1									

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? if yes please fill out table 2 below listing a 1 underground structures and pipelines on site which failed the integrity test and all which have not been tested withing the integrity test period as specified 2 Please provide integrity testing frequency period *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

g all		
	SELECT	
	SELECT	

	Table	B2: Summary details of pi	ipeline/underground structures in	tegrity test]						
Struct	ture ID:	Type system		Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?		Integrity test failure explanation <50 words		Results of retest(if in current reporting year)
		SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT			SELECT

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

Year

		Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	interpretation box below or if you require additional space please
Do you extract groundwater for use on site? If yes please specify use in comment		include a groundwater/contaminated land monitoring results
³ section	no	interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward 4 trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return OND answersteine (12 below)		Groundwater is monitored on a quarterly basis and a quarterly report submitted to the Agency. Results were generally in conformance with
AND answer questions 5-12 below. template	no	relevant limit values and the EPA trigger levels set for the site. There
5 Is the contamination related to operations at the facility (either current and/or historic	N/A	were a number of breaches of trigger levels/ELVs reported to the Agency as minor incidents during the reporting year (detailed in 'Incidents' tab).
6 Have actions been taken to address contamination issues?If yes please summarise		Exceedances relative to tirgger levels/ELVs are thought to be largely
remediation strategies proposed/undertaken for the site	N/A	related to external sources, and not as a result of the operation of the
7 Please specify the proposed time frame for the remediation strategy	N/A	subject facility.
8 Is there a licence condition to carry out/update ELRA for the site?	N/A	
9 Has any type of risk assessment been carried out for the site?	N/A	
10 Has a Conceptual Site Model been developed for the site?	N/A	
11 Have potential receptors been identified on and off site?	N/A	
12 Is there evidence that contamination is migrating offsite?	N/A	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.12	0.078	mg/I NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Arsenic	Lab analysis	Quarterly	0.046	0.013	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Barium	Lab analysis	Quarterly	0.011	0.008	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Calcium	Lab analysis	Quarterly	92	75.825	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Chloride	Lab analysis	Quarterly	22.7	22.250	mg/l	75	DWS	No

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04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Conductivity	Field analysis	Quarterly	0.581	0.485	mS/cm	1	DWS	No		
04/02/2014	BH-5	Cyanide	Lab analysis	Annually	0.01	0.000	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Dissolved Oxygen	Field analysis	Quarterly	11	6.750	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Iron	Lab analysis	Quarterly	0.23	0.073	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Level, Water	Field analysis	Quarterly	103.75	103.365	mOD	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Manganese	Lab analysis	Quarterly	0.322	0.183	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	рН	Field analysis	Quarterly	10.4	7.625	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Potassium	Lab analysis	Quarterly	1.3	1.100	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Sodium	Lab analysis	Quarterly	27.3	22.050	mg/l	80	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Sulphate	Lab analysis	Quarterly	75.72	72.070	mg/l	150	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Temperature	Field analysis	Quarterly	13.3	11.475	oC	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-5	Total Organic Carbon	Lab analysis	Quarterly	15	6.000	mg/l	50	DWS	No		

roundwate	er/Soil mo	nitoring templ	ate		Lic No:	W0129-02		Year 2014				
04/02/2014 21/05/2014 29/07/2014	BH-5	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.200	mg/l	N/A	DWS	No		
09/12/2014 04/02/2014	BH-5	Boron	Lab analysis	Annually	0.012	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Cadmium	Lab analysis	Annually	0.0007	0.001	mg/l	0.004	DWS	No		
04/02/2014	BH-5	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No		
04/02/2014	BH-5	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No		
04/02/2014	BH-5	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No		
04/02/2014	BH-5	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No		
04/02/2014	BH-5	List I and II Substances	Lab analysis	Annually	0.01	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Magnesium	Lab analysis	Annually	8.5	8.500	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Orthophosphat es	Lab analysis	Annually	0.03	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	PAHs (Total 17)	Lab analysis	Annually	0.01	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Phosphorus, Total	Lab analysis	Annually	0.241	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Total Solids	Lab analysis	Annually	343	0.000	mg/l	N/A	DWS	No		
04/02/2014	BH-5	Zinc	Lab analysis	Annually	0.25	0.250	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Ammoniacal Nitrogen	Lab analysis	Quarterly	1.38	0.818	mg/l NH4-N	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Barium	Lab analysis	Quarterly	0.062	0.048	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Calcium	Lab analysis	Quarterly	108.6	68.975	mg/l	N/A	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Chloride	Lab analysis	Quarterly	24.8	21.850	mg/l	75	DWS	No		
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No		

	er/Soil mor	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Conductivity	Field analysis	Quarterly	0.64	0.540	mS/cm	1	DWS	No
04/02/2014	BH-6	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-6	Dissolved	Field analysis	Quarterly	6	3.250	mg/l	N/A	DWS	No
21/05/2014 29/07/2014 09/12/2014	5110	Oxygen		Quarterry	, , , , , , , , , , , , , , , , , , ,	0.200			55	
04/02/2014 21/05/2014 29/07/2014	BH-6	Iron	Lab analysis	Quarterly	0.06	0.030	mg/l	N/A	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Level, Water	Field analysis	Quarterly	118.31	118.048	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014	BH-6	Manganese	Lab analysis	Quarterly	0.456	0.264	mg/l	N/A	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014	BH-6	рН	Field analysis	Quarterly	8.8	7.875	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Potassium	Lab analysis	Quarterly	6.7	6.075	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Sodium	Lab analysis	Quarterly	62.5	32.400	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Sulphate	Lab analysis	Quarterly	36.78	21.570	mg/l	150	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Temperature	Field analysis	Quarterly	20.5	13.600	oC	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Total Organic Carbon	Lab analysis	Quarterly	4	2.500	mg/l	50	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-6	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.200	mg/l	N/A	DWS	No
04/02/2014	BH-6	Boron	Lab analysis	Annually	0.061	0.061	mg/l	N/A	DWS	No

Froundwate	er/Soil mor	nitoring templ	ate		Lic No:	W0129-02		Year 2014			
04/02/2014	BH-6	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No	
04/02/2014	BH-6	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No	
04/02/2014	BH-6	Coliforms, Total	Lab analysis	Annually	58	58.000	cfus/100ml	N/A	DWS	No	
04/02/2014	BH-6	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No	
04/02/2014	BH-6	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No	
04/02/2014	BH-6	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Magnesium	Lab analysis	Annually	19.8	19.800	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No	
04/02/2014	BH-6	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Phosphorus, Total	Lab analysis	Annually	0.052	0.052	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Total Solids	Lab analysis	Annually	221	221.000	mg/l	N/A	DWS	No	
04/02/2014	BH-6	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Ammoniacal Nitrogen	Lab analysis	Quarterly	6.29	3.093	mg/l NH4-N	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Arsenic	Lab analysis	Quarterly	0.0029	0.003	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Barium	Lab analysis	Quarterly	0.063	0.060	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Calcium	Lab analysis	Quarterly	102.2	90.267	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Chloride	Lab analysis	Quarterly	56	53.067	mg/l	75	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Conductivity	Field analysis	Quarterly	0.76	0.720	mS/cm	1	DWS	No	
04/02/2014	BH-8	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No	

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04/02/2014 21/05/2014 29/07/2014	BH-8	Dissolved Oxygen	Field analysis	Quarterly	4	2.667	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Iron	Lab analysis	Quarterly	26.46	10.982	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Level, Water	Field analysis	Quarterly	133.86	133.387	mOD	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Manganese	Lab analysis	Quarterly	4.056	2.611	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	рН	Field analysis	Quarterly	6.7	6.433	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Potassium	Lab analysis	Quarterly	9	6.000	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Sodium	Lab analysis	Quarterly	34.3	33.067	mg/l	80	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Sulphate	Lab analysis	Quarterly	151.84	133.173	mg/l	150	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Temperature	Field analysis	Quarterly	14.3	12.133	oC	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Total Organic Carbon	Lab analysis	Quarterly	57	35.333	mg/l	50	DWS	No	
04/02/2014 21/05/2014 29/07/2014	BH-8	Total Oxidized Nitrogen	Lab analysis	Quarterly	1	0.467	mg/l	N/A	DWS	No	
04/02/2014	BH-8	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No	
04/02/2014	BH-8	Cadmium	Lab analysis	Annually	0.0014	0.001	mg/l	0.004	DWS	No	
04/02/2014	BH-8	Chromium, Total	Lab analysis	Annually	0.0023	0.002	mg/l	N/A	DWS	No	
04/02/2014	BH-8	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No	

Groundwate	er/Soil mor	nitoring templ	ate		Lic No:	W0129-02		Year	2014	•
04/02/2014	BH-8	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-8	Copper	Lab analysis	Annually	0.012	0.012	mg/l	0.5	DWS	No
04/02/2014	BH-8	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-8	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-8	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-8	Magnesium	Lab analysis	Annually	13.5	13.500	mg/l	N/A	DWS	No
04/02/2014	BH-8	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-8	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No
04/02/2014	BH-8	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-8	Phosphorus, Total	Lab analysis	Annually	0.776	0.776	mg/l	N/A	DWS	No
04/02/2014	BH-8	Total Solids	Lab analysis	Annually	1260	1260.000	mg/l	N/A	DWS	No
04/02/2014	BH-8	Zinc	Lab analysis	Annually	0.008	0.008	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.1	0.058	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Barium	Lab analysis	Quarterly	0.032	0.024	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Calcium	Lab analysis	Quarterly	128	117.625	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Chloride	Lab analysis	Quarterly	35.9	35.025	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Conductivity	Field analysis	Quarterly	0.65	0.630	mS/cm	1	DWS	No
04/02/2014	BH-8A	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Dissolved Oxygen	Field analysis	Quarterly	10	7.750	mg/l	N/A	DWS	No

roundwate	er/Soil moi	nitoring templ	ate		Lic No:	W0129-02		Year 2014			
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Iron	Lab analysis	Quarterly	0.02	0.020	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Level, Water	Field analysis	Quarterly	108.46	107.328	mOD	N/A	DWS	No	
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Manganese	Lab analysis	Quarterly	0.02	0.011	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	рН	Field analysis	Quarterly	7.3	7.100	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Potassium	Lab analysis	Quarterly	3.1	2.525	mg/l	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Sodium	Lab analysis	Quarterly	14.7	12.875	mg/l	80	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Sulphate	Lab analysis	Quarterly	23.03	16.385	mg/l	150	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Temperature	Field analysis	Quarterly	12.8	11.125	oC	N/A	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Total Organic Carbon	Lab analysis	Quarterly	2	2.000	mg/l	50	DWS	No	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-8A	Total Oxidized Nitrogen	Lab analysis	Quarterly	12.2	11.950	mg/l	N/A	DWS	No	
04/02/2014	BH-8A	Cyanide	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No	
04/02/2014	BH-8A	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No	
04/02/2014	BH-8A	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No	
04/02/2014	BH-8A	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No	
04/02/2014	BH-8A	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No	
04/02/2014	BH-8A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No	

roundwate	er/Soil moi	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014	BH-8A	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-8A	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Magnesium	Lab analysis	Annually	7.9	7.900	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No
04/02/2014	BH-8A	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/I	N/A	DWS	No
04/02/2014	BH-8A	Phosphorus, Total	Lab analysis	Annually	2.811	2.811	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Total Solids	Lab analysis	Annually	3864	3864.000	mg/l	N/A	DWS	No
04/02/2014	BH-8A	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.14	0.088	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Arsenic	Lab analysis	Quarterly	0.025	0.014	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Barium	Lab analysis	Quarterly	0.004	0.004	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Calcium	Lab analysis	Quarterly	99.9	98.425	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Chloride	Lab analysis	Quarterly	27.3	26.450	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Conductivity	Field analysis	Quarterly	0.57	0.548	mS/cm	1	DWS	No
04/02/2014	BH-9	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Dissolved Oxygen	Field analysis	Quarterly	9	5.750	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Iron	Lab analysis	Quarterly	0.022	0.021	mg/l	N/A	DWS	No

iroundwate	er/Soil moi	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Level, Water	Field analysis	Quarterly	108.25	107.133	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Manganese	Lab analysis	Quarterly	0.067	0.030	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	рН	Field analysis	Quarterly	7	6.800	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Potassium	Lab analysis	Quarterly	0.7	0.675	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Sodium	Lab analysis	Quarterly	17.1	16.050	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Sulphate	Lab analysis	Quarterly	52.36	48.990	mg/l	150	DWS	No
4/02/2014 1/05/2014 9/07/2014	BH-9	Temperature	Field analysis	Quarterly	12.3	10.950	oC	N/A	DWS	No
4/02/2014 1/05/2014 9/07/2014 9/12/2014	BH-9	Total Organic Carbon	Lab analysis	Quarterly	4	2.500	mg/l	50	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-9	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.200	mg/l	N/A	DWS	No
4/02/2014	BH-9	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
4/02/2014	BH-9	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No
4/02/2014	BH-9	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No
4/02/2014	BH-9	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
4/02/2014	BH-9	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-9	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-9	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-9	Lead	Lab analysis	Annually	0.005	0.005	mg/I	N/A	DWS	No

Groundwate	er/Soil mor	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014	BH-9	List I and II Substances	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	No
04/02/2014	BH-9	Magnesium	Lab analysis	Annually	5	5	mg/l	N/A	DWS	No
04/02/2014	BH-9	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-9	Orthophosphat es	Lab analysis	Annually	0.03	0.03	mg/l	N/A	DWS	No
04/02/2014	BH-9	PAHs (Total 17)	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	No
04/02/2014	BH-9	Phosphorus, Total	Lab analysis	Annually	0.4	0.4	mg/l	N/A	DWS	No
04/02/2014	BH-9	Total Solids	Lab analysis	Annually	283	283	mg/l	N/A	DWS	No
04/02/2014	BH-9	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.23	0.2125	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Arsenic	Lab analysis	Quarterly	0.037	0.012925	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Barium	Lab analysis	Quarterly	0.024	0.019	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Calcium	Lab analysis	Quarterly	98.1	97.2	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Chloride	Lab analysis	Quarterly	24	23.3	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Conductivity	Field analysis	Quarterly	0.63	0.47	mS/cm	1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Dissolved Oxygen	Field analysis	Quarterly	9	5.5	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Iron	Lab analysis	Quarterly	0.067	0.03175	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Level, Water	Field analysis	Quarterly	102.33	99.4475	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Manganese	Lab analysis	Quarterly	0.39	0.35875	mg/l	N/A	DWS	No

Groundwate	er/Soil mon	itoring templ	ate		Lic No:	W0129-02		Year	2014	•
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	рН	Field analysis	Quarterly	8.2	7.4	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	0.1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Potassium	Lab analysis	Quarterly	2.1	1.975	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Sodium	Lab analysis	Quarterly	17.1	16.625	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Sulphate	Lab analysis	Quarterly	14.37	11.065	mg/l	150	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Temperature	Field analysis	Quarterly	12.8	11.2	oC	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Total Organic Carbon	Lab analysis	Quarterly	2	2	mg/l	50	DWS	Yes
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-11A	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.2	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	0.004	DWS	No
04/02/2014	BH-11A	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Coliforms, Faecal	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	No
04/02/2014	BH-11A	Coliforms, Total	Lab analysis	Annually	0	0	cfus/100ml	N/A	DWS	No
04/02/2014	BH-11A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-11A	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Fluoride	Lab analysis	Annually	0.4	0.4	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-11A	List I and II Substances	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Magnesium	Lab analysis	Annually	12.4	12.4	mg/l	N/A	DWS	No
04/02/2014	BH-11A	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No

G	roundwate	er/Soil mon	itoring templ	ate		Lic No:	W0129-02		Year	2014	
(04/02/2014	BH-11A	Orthophosphat es	Lab analysis	Annually	0.03	0.03	mg/l	N/A	DWS	No
0	04/02/2014	BH-11A	PAHs (Total 17)	Lab analysis	Annually	0.01	0.01	mg/l	N/A	DWS	No
0	04/02/2014	BH-11A	Phosphorus, Total	Lab analysis	Annually	0.021	0.021	mg/l	N/A	DWS	No
(04/02/2014	BH-11A	Total Solids	Lab analysis	Annually	309	309	mg/l	N/A	DWS	No
(04/02/2014	BH-11A	Zinc	Lab analysis	Annually	0.013	0.013	mg/l	N/A	DWS	No
								SELECT			SELECT
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+ where average indicates arithmetic mean

um measured concentration from all monitoring results produced during the reporting year

: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.61	0.220	mg/I NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Barium	Lab analysis	Quarterly	0.013	0.010	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Calcium	Lab analysis	Quarterly	106.8	85.775	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Chloride	Lab analysis	Quarterly	23.8	22.025	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Conductivity	Field analysis	Quarterly	0.63	0.605	mS/cm	1	DWS	No
04/02/2014	BH-4A	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Dissolved Oxygen	Field analysis	Quarterly	7	3.750	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-4A	Iron	Lab analysis	Quarterly	0.065	0.040	mg/l	N/A	DWS	No

roundwate	er/Soil mor	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014	BH-4A	Level, Water	Field analysis	Quarterly	93.9	93.733	mOD	N/A	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Manganese	Lab analysis	Quarterly	0.278	0.195	mg/l	N/A	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	рН	Field analysis	Quarterly	9.1	7.975	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Potassium	Lab analysis	Quarterly	2.5	1.725	mg/l	N/A	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Sodium	Lab analysis	Quarterly	105.7	37.600	mg/l	80	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Sulphate	Lab analysis	Quarterly	55.94	34.585	mg/l	150	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Temperature	Field analysis	Quarterly	18.6	13.600	oC	N/A	DWS	No
21/05/2014										
29/07/2014										
09/12/2014										
04/02/2014	BH-4A	Total Organic	Lab analysis	Quarterly	7	2.800	mg/l	50	DWS	No
21/05/2014		Carbon								
29/07/2014										
09/12/2014		Tuble	1.1	0		0.000		A-1/2	Divis	
04/02/2014	BH-4A	Total Oxidized	Lab analysis	Quarterly	0.2	0.200	mg/l	N/A	DWS	No
21/05/2014		Nitrogen								
29/07/2014										
09/12/2014	DU 44	Datis	Lab and St.	Ann - 11	0.042	0.012		N1/A	DIAK	N
04/02/2014	BH-4A	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
04/02/2014	BH-4A BH-4A	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS DWS	No No
04/02/2014	вн-4А	Chromium,	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	NO
04/02/2014	BH-4A	Total Coliforms,	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	рп-4 А		Lab analysis	Annually	U	0.000	cius/100mi	IN/A	0462	NO
04/02/2014		Faecal	Lob opeliseie	Annesti	0	0.000	ofus /100ml	N1/A	DIALC	N-
04/02/2014	BH-4A	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-4A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-4A BH-4A	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	0.5 N/A	DWS	No
04/02/2014	BH-4A BH-4A	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A N/A	DWS	No
	BH-4A BH-4A	List I and II	Lab analysis	Annually	0.003	0.003	mg/l	N/A N/A	DWS	No
	DIC4A	Substances	200 01019515	Annually	0.01	0.010	1115/1	11/5	5005	110
04/02/2014				Annually	9.7	9.700	mg/l	N/A	DWS	No
	BH-4A	Magnecium	l ah analycic							
04/02/2014	BH-4A BH-4A	Magnesium	Lab analysis							
	BH-4A BH-4A BH-4A	Magnesium Mercury Orthophosphat	Lab analysis Lab analysis Lab analysis	Annually Annually Annually	0.001	0.001	mg/l mg/l	N/A N/A	DWS DWS	No No

oroundwate	er/Soli mor	nitoring templ	ate		Lic No:	W0129-02		Year	2014	
04/02/2014	BH-4A	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-4A	Phosphorus, Total	Lab analysis	Annually	0.081	0.081	mg/l	N/A	DWS	No
04/02/2014	BH-4A	Total Solids	Lab analysis	Annually	456	456.000	mg/l	N/A	DWS	No
04/02/2014	BH-4A	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Ammoniacal	Lab analysis	Quarterly	0.03	0.030	mg/I NH4-N	N/A	DWS	No
21/05/2014 29/07/2014 09/12/2014		Nitrogen		, , , , , , , , , , , , , , , , , , ,						
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Barium	Lab analysis	Quarterly	0.013	0.011	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Calcium	Lab analysis	Quarterly	176.6	151.500	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Chloride	Lab analysis	Quarterly	50	46.275	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Conductivity	Field analysis	Quarterly	0.88	0.835	mS/cm	1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Dissolved Oxygen	Field analysis	Quarterly	10	7.500	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Iron	Lab analysis	Quarterly	0.02	0.020	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Level, Water	Field analysis	Quarterly	103.38	101.503	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	рН	Field analysis	Quarterly	7.9	7.625	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No

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04/02/2014 21/05/2014 29/07/2014	BH-10A	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014	BH-10A	Potassium	Lab analysis	Quarterly	2.7	2.550	mg/l	N/A	DWS	No
09/12/2014	DU 104	Cardinar	Lab analysia	Questadu	24.7	22.525		80	DWC	N-
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Sodium	Lab analysis	Quarterly	24.7	22.525	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Sulphate	Lab analysis	Quarterly	283.22	257.368	mg/l	150	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Temperature	Field analysis	Quarterly	16	12.100	oC	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Total Organic Carbon	Lab analysis	Quarterly	3	2.250	mg/l	50	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-10A	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.4	0.325	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No
04/02/2014	BH-10A	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Coliforms, Faecal	Lab analysis	Annually	2	2.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-10A	Coliforms, Total	Lab analysis	Annually	2	2.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-10A	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-10A	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-10A	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Magnesium	Lab analysis	Annually	12.9	12.900	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No
04/02/2014	BH-10A	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Phosphorus, Total	Lab analysis	Annually	0.192	0.192	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Total Solids	Lab analysis	Annually	734	734.000	mg/l	N/A	DWS	No
04/02/2014	BH-10A	Zinc	Lab analysis	Annually	0.004	0.004	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.17	0.083	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No

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04/02/2014 21/05/2014 29/07/2014	BH-12	Barium	Lab analysis	Quarterly	0.017	0.012	mg/l	N/A	DWS	No
09/12/2014 04/02/2014	BH-12	Calcium	Lab analysis	Quarterly	24	19.025	mg/l	N/A	DWS	No
21/05/2014 29/07/2014 09/12/2014										
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Chloride	Lab analysis	Quarterly	6.4	3.875	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Conductivity	Field analysis	Quarterly	0.2	0.145	mS/cm	1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Dissolved Oxygen	Field analysis	Quarterly	10	6.500	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Iron	Lab analysis	Quarterly	0.365	0.106	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Level, Water	Field analysis	Quarterly	102.33	100.890	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Manganese	Lab analysis	Quarterly	0.042	0.012	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	рН	Field analysis	Quarterly	8.2	7.600	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Potassium	Lab analysis	Quarterly	2.6	2.225	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Sodium	Lab analysis	Quarterly	6.1	3.975	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Sulphate	Lab analysis	Quarterly	11.69	4.358	mg/l	150	DWS	No

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04/02/2014 21/05/2014 29/07/2014	BH-12	Temperature	Field analysis	Quarterly	12.8	10.925	oC	N/A	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014	BH-12	Total Organic Carbon	Lab analysis	Quarterly	4	2.500	mg/l	50	DWS	Yes
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-12	Total Oxidized Nitrogen	Lab analysis	Quarterly	1.2	0.625	mg/l	N/A	DWS	No
04/02/2014	BH-12	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
04/02/2014	BH-12	Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No
04/02/2014	BH-12	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No
04/02/2014	BH-12	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-12	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-12	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-12	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-12	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-12	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-12	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-12	Magnesium	Lab analysis	Annually	0.8	0.800	mg/l	N/A	DWS	No
04/02/2014	BH-12	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-12	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No
04/02/2014	BH-12	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-12	Phosphorus, Total	Lab analysis	Annually	0.26	0.260	mg/l	N/A	DWS	No
04/02/2014	BH-12	Total Solids	Lab analysis	Annually	338	338.000	mg/l	N/A	DWS	No
04/02/2014	BH-12	Zinc	Lab analysis	Annually	0.014	0.014	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.06	0.048	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Arsenic	Lab analysis	Quarterly	0.005	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Barium	Lab analysis	Quarterly	0.014	0.011	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Calcium	Lab analysis	Quarterly	63	57.325	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Chloride	Lab analysis	Quarterly	41.1	38.075	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No

04/02/2014 21/05/2014 29/07/2014	BH-13	Conductivity	Field analysis	Quarterly	0.43	0.393	mS/cm	1	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014	BH-13	Dissolved Oxygen	Field analysis	Quarterly	11	9.750	mg/l	N/A	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014	BH-13	Iron	Lab analysis	Quarterly	0.02	0.020	mg/l	N/A	DWS	No
09/12/2014 04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Level, Water	Field analysis	Quarterly	114.53	113.678	mOD	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	рН	Field analysis	Quarterly	8.5	7.650	pН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Potassium	Lab analysis	Quarterly	2.2	2.050	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Sodium	Lab analysis	Quarterly	19.8	19.375	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Sulphate	Lab analysis	Quarterly	19.23	15.048	mg/l	150	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Temperature	Field analysis	Quarterly	12	10.975	oC	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Total Organic Carbon	Lab analysis	Quarterly	2	2.000	mg/l	50	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-13	Total Oxidized Nitrogen	Lab analysis	Quarterly	14.9	12.625	mg/l	N/A	DWS	No
04/02/2014	BH-13	Boron	Lab analysis	Annually	0.012	0.012	mg/l	N/A	DWS	No
		Cadmium	Lab analysis	Annually	0.0005	0.001	mg/l	0.004	DWS	No
04/02/2014	BH-13	Cadmium	Lab analysis	Annually	0.0005	0.001	116/1	0.004	0113	NO

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04/02/2014	BH-13	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-13	Coliforms, Total	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-13	Copper	Lab analysis	Annually	0.007	0.007	mg/l	0.5	DWS	No
04/02/2014	BH-13	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-13	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-13	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-13	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-13	Magnesium	Lab analysis	Annually	5.4	5.400	mg/l	N/A	DWS	No
04/02/2014	BH-13	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-13	Orthophosphat es	Lab analysis	Annually	0.1	0.100	mg/l	N/A	DWS	No
04/02/2014	BH-13	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-13	Phosphorus, Total	Lab analysis	Annually	4.532	4.532	mg/l	N/A	DWS	No
04/02/2014	BH-13	Total Solids	Lab analysis	Annually	12843	12843.000	mg/l	N/A	DWS	No
04/02/2014	BH-13	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.030	mg/l NH4-N	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Arsenic	Lab analysis	Quarterly	0.003	0.003	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Barium	Lab analysis	Quarterly	0.054	0.051	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Calcium	Lab analysis	Quarterly	29.5	26.925	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Chloride	Lab analysis	Quarterly	45.1	36.500	mg/l	75	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Colour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Conductivity	Field analysis	Quarterly	0.25	0.245	mS/cm	1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Dissolved Oxygen	Field analysis	Quarterly	71	28.000	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Iron	Lab analysis	Quarterly	0.02	0.020	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Level, Water	Field analysis	Quarterly	100.2	99.930	mOD	N/A	DWS	No

roundwate	er/soli mor	nitoring templ	ale		Lic No:	W0129-02		Year	2014	
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Manganese	Lab analysis	Quarterly	0.07	0.040	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Odour	Field analysis	Quarterly	N/A	N/A	N/A	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	рН	Field analysis	Quarterly	6.4	6.025	рН	6 <ph<9< td=""><td>DWS</td><td>No</td></ph<9<>	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Phenols, Total	Lab analysis	Quarterly	0.1	0.100	mg/l	0.1	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Potassium	Lab analysis	Quarterly	5.9	5.100	mg/l	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Sodium	Lab analysis	Quarterly	15	11.175	mg/l	80	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Sulphate	Lab analysis	Quarterly	21.77	18.778	mg/l	150	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Temperature	Field analysis	Quarterly	12.4	10.850	oC	N/A	DWS	No
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Total Organic Carbon	Lab analysis	Quarterly	5	4.667	mg/l	50	DWS	Yes
04/02/2014 21/05/2014 29/07/2014 09/12/2014	BH-14	Total Oxidized Nitrogen	Lab analysis	Quarterly	6.6	5.950	mg/l	N/A	DWS	No
04/02/2014	BH-14	Boron	Lab analysis	Annually	0.029	0.029	mg/l	N/A	DWS	Yes
04/02/2014	BH-14	Cadmium	Lab analysis	Annually	0.0014	0.001	mg/l	0.004	DWS	No
04/02/2014	BH-14	Chromium, Total	Lab analysis	Annually	0.0015	0.002	mg/l	N/A	DWS	No
04/02/2014	BH-14	Coliforms, Faecal	Lab analysis	Annually	0	0.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-14	Coliforms, Total	Lab analysis	Annually	6	6.000	cfus/100ml	N/A	DWS	No
04/02/2014	BH-14	Copper	Lab analysis	Annually	0.013	0.013	mg/l	0.5	DWS	No
04/02/2014	BH-14	Cyanide	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-14	Fluoride	Lab analysis	Annually	0.3	0.300	mg/l	N/A	DWS	No
04/02/2014	BH-14	Lead	Lab analysis	Annually	0.005	0.005	mg/l	N/A	DWS	No
04/02/2014	BH-14	List I and II Substances	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No
04/02/2014	BH-14	Magnesium	Lab analysis	Annually	2.5	2.500	mg/l	N/A	DWS	No
04/02/2014	BH-14	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	N/A	DWS	No
04/02/2014	BH-14	Orthophosphat es	Lab analysis	Annually	0.03	0.030	mg/l	N/A	DWS	No
04/02/2014	BH-14	PAHs (Total 17)	Lab analysis	Annually	0.01	0.010	mg/l	N/A	DWS	No

	er/Soil mon	itoring temp	late		Lic No:	W0129-02		Year	2014	Ļ		
04/02/2014	BH-14	Phosphorus, Total	Lab analysis	Annually	0.062	0.062	mg/l	N/A	DWS	No		_
04/02/2014	BH-14	Total Solids	Lab analysis	Annually	527	527.000	mg/l	N/A	DWS	No		
04/02/2014	BH-14	Zinc	Lab analysis	Annually	0.028	0.028	mg/l	N/A	DWS	No		
							SELECT			SELECT	-	
by the EPA. More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).												
	d risk assessmen	t tools is available	in the EPA publis	hed guidance (see	<u>Guidance on th</u>	<u>ie Management of (</u>	Contaminated Land and Gr	<u>oundwater a</u>	<u>t EPA Licensed Si</u>	<u>ites (EPA 2013).</u>		
the link in G31) **Depending o	n location of the	site and proximity	r to other sensitive npare to Surface V	e receptors alternative	e Receptor based Wate Quality Standards (SWI	r Quality standards sl	Contaminated Land and Gr hould be used in addition to se to a drinking water supply	Surface water EQS	Groundwater regulations GTV's	ites (EPA 2013). Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guidelir Values (IGV)
the link in G31) **Depending o	n location of the ne site is close to	site and proximity	r to other sensitive npare to Surface V	e receptors alternative Vater Environmental	e Receptor based Wate Quality Standards (SWI	r Quality standards sl	hould be used in addition to	<u>Surface</u>	<u>Groundwater</u> <u>regulations</u>	Drinking water (private supply)		
he link in G31) **Depending o the GTV e.g. if t	n location of the ne site is close to	site and proximity	r to other sensitive npare to Surface V	e receptors alternative Vater Environmental	e Receptor based Wate Quality Standards (SWI	r Quality standards sl	hould be used in addition to	<u>Surface</u>	<u>Groundwater</u> <u>regulations</u>	Drinking water (private supply)		
he link in G31) **Depending o the GTV e.g. if t Table 3: Soi Date of	n location of the ne site is close to I results Sample location	site and proximity surface water cor Parameter/	r to other sensitive npare to Surface V compare result	e receptors alternative Vater Environmental s to the Drinking Wat Monitoring	e Receptor based Wate Quality Standards (SWI er Standards (DWS) Maximum	r Quality standards sl GQS), If the site is clos Average Concentration	hould be used in addition to se to a drinking water supply	<u>Surface</u>	<u>Groundwater</u> <u>regulations</u>	Drinking water (private supply)		<u>Interim Guidelin</u> Values (IGV)

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

Environmental Liabilities template	Lic No:	W0129-02	Year	2014
Click here to access EPA guidance on Environmental Liabilities and Financial				
provision				

			Commentary
1	ELRA initial agreement status		
		Submitted and not agreed by EPA;	
			No review completed
2	ELRA review status		in reporting period.
3	Amount of Financial Provision cover required as determined by the latest ELRA		
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
			Closure details were
			included in EIS. The
			site is subject to
			Waste Licence
			Application W0129-
			03, which, if granted,
			will impact on closure
9	Closure plan review status	SELECT	issues.
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0129-02	Year	2014
	Highlighted cells contain dropdown menu click to view		Additional Informatio	on		
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in		EMS was independen	tly certified to ISO14001:2004.		
-	additional information	Yes				
2	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					
3	with the licence requirements	Yes				
	Do you maintain an environmental documentation/communication system to inform the public on					
4	environmental performance of the facility, as required by the licence	Yes				

Environmental Management 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					
	Ongoing monitoring and				Improved Environmental					
Energy Efficiency/Utility conservation	measurement - energy	100	Monitoring completed	Individual	Management Practices					

Noise monitoring summary report	Lic No:	W0129-02	Year	2014
1 Was noise monitoring a licence requirement for the AER period?		Yes		
If yes please fill in table N1 noise summary below				
	Noise			
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	<u>Guidance</u>	Yes		
"Checklist for noise measurement report" included in the guidance note as table 6?	<u>note NG4</u>			
3 Does your site have a noise reduction plan		No		
4 When was the noise reduction plan last updated?		Enter date		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) sin survey?	nce the last noise	No		
Table N1: Noise monitoring summary				

Date of monitoring		Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
04/08/2014	Daytime		N4	46	35	45	68	No	Yes		Yes
04/08/2014	Daytime		N5	60	35	54	82	No	Yes		Yes
04/08/2014	Daytime		N6	54	31	50	78	Yes	Yes		Yes
04/08/2014	Daytime		N7	63	38	58	83	No	Yes	Occasional traffic,	Yes
04/08/2014	Daytime		N8	64	39	58	84	No	Yes	aircraft, birdsong, leaf	Yes
04-05/08/2014	Night-time		N4	32	26	32	66	Yes	Yes	rustle, distant	Yes
04-05/08/2014	Night-time		N5	40	25	36	68	No	Yes	motorway	Yes
04-05/08/2014	Night-time		N6	36	47	28	68	Yes	Yes		Yes
04-05/08/2014	Night-time		N7	53	28	36	82	No	Yes		Yes
04-05/08/2014	Night-time		N8	52	31	35	82	No	Yes		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 summary	Lic No:	W0129-02	Year	2014

				Additional information
				No formal audit
				completed; ongoing
				monitoring and
				management of
				energy use by
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in tak	ole 3 below	Enter date of audit	licensee.
		SEAI - Large		
ls	s the site a member of any accredited programmes for reducing energy usage/water conservation such	dustry Energy		
2	as the SEAI programme linked to the right? If yes please list them in additional information	etwork (LIEN)	No	
١	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state	percentage in		
3	additional information		SELECT	NOT APPLICABLE

Table R1 Energy usag	e on site				
Energy Use	Previous year	Current year	compared to previous reporting year**	production*	
Total Energy Used (MWHrs)	153.04	153.037	0%		
Total Energy Generated (MWHrs)					
Total Renewable Energy Generated (N	IWHrs)				
Electricity Consumption (MWHrs)	39.84	35.28	-13%		
Fossil Fuels Consumption:					
Heavy Fuel Oil (m3)	11.50	11.58	1%		SEAI: 10.169kWh/litre of diesel
Light Fuel Oil (m3)					
Natural gas (m3)					
Coal/Solid fuel (metric tonnes)					
Peat (metric tonnes)					
Renewable Biomass					
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

-

E

Table R2 Water usage	e on site				Water Emissions	Water Consumption	
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							

rce Usage/Energy efficiency s	summary		Lic No:	W0129-02	Year	2014
						Note:
						Reduction in
						water
						consumption
						due to
						discovery and
						repair of leak in
Public supply	2168	65	-3235%			late 2013.
Recycled water						
Total						

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

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

Table R3 Waste Stream	Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)	0.28	0.22		0.06	

Table R4: Energy A	udit finding recommendat	tions					
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy	Implementation date	Responsibility	Status and comments
			SELECT				
			SELECT				
			SELECT				

Table R5: Power Generation: Where p	oower is generate	ed onsite (e.g. power gene	eration facilities/food	and drink industry)p	lease complete the following ir
	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on	Site				

Complaints and Incidents summary template		Lic No:	W0129-02	Year	2014
 Complaints					
		Additional information	_		
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	No				

Table	1 Complaints summary						
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
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

		Inc	idents			1								
					Additional information	_								
Have any incidents	occurred on site in the current repo	rting year? Please list all incide	ents for current reporting											
	year in Tab	le 2 below		Yes										
						-								
	on on how to report and what	What is an incident												
con	stitutes an incident	what is an incident	J											
Table 2 Incidents sun	nmary		1											
Tuble 2 meldents sun						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence		Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
											Ongoing			
		Other location (monitoring									routine			
13/03/2014	Breach of ELV	point)	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	EPA	Recurring	monitoring		Complete	13/03/2014	Medium
											Ongoing			
		Other location (monitoring									routine			
24/06/2014	Breach of ELV	point)	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	FPA	Recurring	monitoring		Complete	24/06/2014	Medium
		,,									Ongoing		,,	
		Other location (monitoring									routine			
24/06/2014	Breach of ELV	point)	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	FPA	Recurring	monitoring		Complete	24/06/2014	Medium
		,,									Ongoing		,,	
		Other location (monitoring								Ongoing routine	implementati			
12/09/2014	Breach of ELV	point)	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	FPA	Recurring	monitoring	on of WAP	Complete	12/09/2014	High
		,,									Ongoing			
		Other location (monitoring									routine			
22/12/2014	Breach of ELV	point)	1. Minor	No Uncontrolled release	Not related to site activities		Normal activities	FPA	Recurring	monitoring	monitoring	Complete	22/12/2014	Medium
Total number of		,												
incidents current														
year	5													
Total number of		1												
incidents previous														
year	5													
% reduction/		1												
increase	0%													
		_												

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WASTE SUMMARY	Lic No:	W0129-02	Year	2014	
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY	ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list	click to see options	-

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

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

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

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/	Reason for reduction/	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
tonnage limit for your	Life code	Source of Music accepted	accepted	accepted in current	previous reporting year (tonnes)	Increase over	increase from previous	only applies if the	treatment operation carried	waste	connents
site (total			Please enter an	reporting year (tonnes)	previous reporting year (tornes)	previous year +/ -	reporting year	waste has a packaging	out at your site and the	remaining on	
tonnes/annum)			accurate and detailed	reporting year (tornes)		%	reporting year	component	description of this operation	site at the end	
tornies/annunij			description - which			70		component	description of this operation	of reporting	
			applies to relevant EWC							year (tonnes)	
			code							year (tonnes)	
	European Waste Catalogue EWC codes										
	European waste catalogue Ewc codes		European Waste Catalogue EWC codes								
			Catalogue EWC codes								
500,000	10 11 99		Wastes from manufacture	52.74	519.2	-884%	Market demand	0%	D5- Specially engineered landfill	0	
			of glass and glass products - wastes not otherwise								
		10- WASTES FROM THERMAL	specified - pre-consumer								
		PROCESSES	glass off-cuts used in an								
			industrial process to produce glass products								
			produce glass products								
500,000	16 01 20		Glass from ELV's	13.54	35.1	-159%	Market demand	0%	D5- Specially engineered landfill	0	
		16- WASTES NOT OTHERWISE									
		SPECIFIED IN THE LIST									
500,000	17 01 01	17- CONSTRUCTION AND	Concrete	15.60	244.3	-1466%	Market demand	0%	D5- Specially engineered landfill	0	
		DEMOLITION WASTES									
		(INCLUDING EXCAVATED SOIL									
		FROM CONTAMINATED SITES)									
		THOM CONTAMINATED SITES,									
500,000	17 01 07	17- CONSTRUCTION AND	Mixture of concrete, bricks, tiles & ceramics	-	26.5	#DIV/0!	Market demand	0%	D5- Specially engineered landfill	0	
		DEMOLITION WASTES	tiles à cerainics								
		(INCLUDING EXCAVATED SOIL									
		FROM CONTAMINATED SITES)									
500,000	17 02 02		Glass	65.90	0	100%	Market demand	100%	D5- Specially engineered landfill	1	
500,000		17- CONSTRUCTION AND		03.90	0	100%	Warket demand	100%	DS- Specially engineered landjin	1	
		DEMOLITION WASTES									
		(INCLUDING EXCAVATED SOIL									
		FROM CONTAMINATED SITES)									
500,000	17 03 02		Bituminous mixture	-	474.1	#DIV/0!	Market demand	0%	D5- Specially engineered landfill	0	
		17- CONSTRUCTION AND				-					
		DEMOLITION WASTES									
		(INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)									
		PROMICONTAMINATED SITES									
500,000	17 05 04	17- CONSTRUCTION AND	Soil & Stones	27,552.04	22,008.00	20%	Market demand	0%	D5- Specially engineered landfill	0	
		DEMOLITION WASTES									
		(INCLUDING EXCAVATED SOIL									
		FROM CONTAMINATED SITES)									
500,000	17 06 04		Insulation materials	6.52	3.1	E 20/	Market demand	0%	D5- Specially engineered landfill	0	
500,000	17 00 04	17- CONSTRUCTION AND	mosidion materials	6.52	3.1	52%	warket aemana	0%	55- Specially engineered lanafill	0	
		DEMOLITION WASTES									
		(INCLUDING EXCAVATED SOIL									
		FROM CONTAMINATED SITES)									
500,000	19 09 02	19- WASTES FROM WASTE	Sludges from water	2,424.56	1709.4	29%	Market demand	0%	D5- Specially engineered landfill	0	
		MANAGEMENT FACILITIES,	clarification	,						-	
500,000	19 12 05	19- WASTES FROM WASTE	Glass	213.40	0	100%	Market demand	0%	D5- Specially engineered landfill	0	
		MANAGEMENT FACILITIES,									



WASTE SUMMARY		Lic No:	W0129-02	Year	2014	

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?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

SECTION D-TO BE C	OMPLETED BY LANDFILL SITES O	NLY	
Table 2 Waste type	and tonnage-landfill only		
			-

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Inert waste	500,000	30,344	3,992,181	

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	area occupied by	Lined disposal area occupied by waste SELECT UNIT	Unlined area SELECT UNIT	Comments on liner type
W0129-02	2003	Ongoing	Yes	Private	Inert	Dependent on input + planning requirements	No	No	No	30,650m ²	,	0 (further areas of quarry to be developed as lined cells in line with phased restoration of the site).	liner in accordance with Landfill Directive

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

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

Table 5 Capping-Landfill only

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

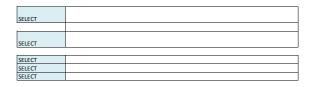
Table 6 Leachate-Landfill only

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

 	,,	-			1
Volume of leachate in reporting year(m3)		 Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Specify type of leachate treatment	Comments

ure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR retur Please en

Table 7 Landfill Gas-Landfill only



WASTE SUMMARY					Lic No:	W0129-02	Year	2014
			Was surface emissions					
Gas Captured&Treated			monitoring performed					
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments				
			SELECT		1			



| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2014.xls | Return Year : 2014 |

30/03/2015 11:16

Guidance to completing the PRTR workbook

Environmental Protection Agency

AER Returns Workbook

REFERENCE YEAR	2014

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

Classes of Activity

No.	class_name
	Poter to PRTP close activities below

	Hollywood Great
	Nags Head
Address 3	The Naul
Address 4	
	Dublin
Country	
Coordinates of Location	
River Basin District	
NACE Code	
	Remediation activities and other waste management services
AER Returns Contact Name	
AER Returns Contact Email Address	
	Environmental Consultant (Patel Tonra Ltd)
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	
Web Address	www.mehl.ie

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 20	02)
Is it applicable?	No
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE	Guidance on waste imported/accepted onto site
Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) ?	Yes

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

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PRTR 2014.xls | Return Year : 2014 |

30/03/2015 11:16

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

	RELEASES TO AIR		Please enter all quantities in this section in KGs							
PO			METHOD	QUANTITY						
		Method Used								
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
					0.0		0.0 0	.0 0.0		

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

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

	Please enter all quantities in this section in KGs								
PO	METHOD			QUANTITY					
				Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Ye	ar F (Fugitive) KG/Year	
					0.	0	0.0	0.0 0.0	

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

Additional Data Requested from Land	dditional Data Requested from Landfill operators									
For the purposes of the National Inventory on Greenhou summary data on landfill gas (Methane) flared or utilise methane generated. Operators should only report their T(total) KG/yr for Section A: Sector specific PRTR pollu	ed on their facilities to accompany the figures for total Net methane (CH4) emission to the environment under									
Landfill:	Murphy Environmental Hollywood Limited				-					
Please enter summary data on the quantities of methane flared and / or utilised			Meth	nod Used						
			liidu	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)					N/A					
Methane flared						(Total Flaring Capacity)				
Methane utilised in engine/s					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# : \	V0129 Facility Nan	ne : Murphy Environmental Hollywoo	d Limited Filename : W012	9 PRTR	2014.xls Return Year : 201	4	30/03/2015 11:16			
SECTION A : SECTOR SPECIFIC PRTR	RELEASES TO WATERS	Data on an	nbient monitoring o	of storm/surface water or groundwa			ce requirements, should N n this section in KGs		PRTR Reporting as this or	ly concerns Releases from your facility		
	POLLUTANT											
No. Annex II	Name	M/C/E	Method Code	Method Used 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 clic	k the delete button									
SECTION B : REMAINING PRTR POLLUT	TANTS											
	RELEASES TO WATERS Please enter all quantities in this section in KGs											
	POLLUTANT					t						
			1	Method Used				QUANTITY		t		
No. Annex II	Name	M/C/E	Method Code		Emission Point 1		T (Total) KG/Year	A (Accidental) KG/Year	E (Euclitive) KG/Vear			
Ho. Funda II	Hano	INFORCE	method oode	Designation of Description	Linibolon roman	0.0	0.0					
	* Select a row by double-clicking on the Pollutant Name (Column	D) then alia	h the delate hutter			0.0	0.0	0.0	0.0			
	Select a low by double-clickling on the Politikanic Name (Column	i b) theri ciic	k ale delete battori									
SECTION C : REMAINING POLLUTANT I	EMISSIONS (as required in your Licence)											
SECTION C. REMAINING FOLLOTANT	RELEASES TO WATERS				Disease enter all such	dillion i	n this section in KGs			r		
	POLLUTANT				riease enter all qua	ruues i	Turns section in KGS	QUANTITY		ŧ		
	FULLUTANI		1	Method Used		_		QUANTITY	1	ł		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1			A (Accidental) KG/Year				
						0.0	0.0	0.0	0.0			
	* Select a row by double-clicking on the Pollutant Name (Column	B) then clic	k the delete button									

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0129 | Facility Name : Murphy Environmental Hollywood Limited | Filename : W0129_PI 30/03/2015 11:16

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSF	ER OF POLLUTANTS DESTINED FOR WASTE-W	Please enter all quantities in this section in KGs							
POLL	UTANT		METHO	DD	QUANTITY				
		Method Used							
No. Annex II Na	ame	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0		0.0 0.0	0.0	

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

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

OFFSIT	E TRANSFER OF POLLUTANTS DESTINED FO	Please enter all quantities in this section in KGs							
	POLLUTANT		М	ETHOD	QUANTITY				
				Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0	0	0.0 0.0	0.0	

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

4.4 RELEASES TO LAND	Link to previous years emissions data	PRTR# : W	/0129 Facility Name : Murphy Environmental Hollywood Limited Fil	ename : W0129_PRTR 2014.xls R	eturn Year : 2014	30/03/2015 11:16
SECTION A : PRTR POLLUTANTS						
	RELEASES TO LAND			Please enter all quantities	in this section in KGs	
	POLLUTANT		METHOD			QUANTITY
			Method Used			
No. Annex II	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.	0.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the	e delete button			
SECTION B : REMAINING POLLUTA	ANT EMISSIONS (as required in your Licence)					
	RELEASES TO LAND			Please enter all quantities	in this section in KGs	
	POLLUTANT		METHOD			QUANTITY
			Method Used			
Pollutant No.	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.	0.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the	e delete button			

ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRTR#: W0129 Facility Name : Murphy Ervironmental Hollywood Limited Filename : W0129_PRTR 2014.xks Return Year : 2014 Please enter all quantities on this sheet in Tonnes												30/03/2015 11:16 5
	European Waste		Quantity (Tonnes per Year)		Waste Treatment		Method Used	Location of	Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Nor</u> Haz Waste: Name and Licence/Permit No of Recover/Disposer	n <u>Haz Waste</u> : 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)
Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
Within the Country		No		mixed municipal waste	D15	С	Volume Calculation			Beauparc,Navan,Co. Meath,0,Ireland Beauparc,Navan,Co.		
Within the Country	20 03 01	No	0.06	mixed municipal waste	R3	С	Volume Calculation	Offsite in Ireland	Panda,W0140-03	Meath,0,Ireland		

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

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