

SELECT

cells that are highlighted blue contain a dropdown menu click to select one option from the list

[guidance document link](#)

cells that contain underlined text click to access relevant guidance documents for this section

Table heading *

table headings followed by a symbol have an associated footnote or instructions


Cells with red indicator in top right corner

cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Facility Information Summary	
AER Reporting Year	2012
Licence Register Number	W0151-01
Name of site	Murphy Environmental Gormanston
Site Location	Sarsfieldstown, Gormanston, Co. Meath
NACE Code	3832
Class/Classes of Activity	3.1, 3.13, 4.3, 4.4, 4.13
National Grid Reference (6E, 6 N)	-6.25153 53.654
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	<p>Land Restoration - Using clean construction and demolition waste - Soil & Stones, Concrete, and other compatible C&D materials, in line with licence requirements, as available. It has been agreed with the Agency that W0151-01 is a recovery activity.</p> <p>The facility continues to suffer from the collapse of the construction/demolition sector, with incoming tonnages significantly lower than a number of years ago.</p> <p>There were no infrastructural or other significant changes during the reporting year.</p> <p>Annual monitoring was conducted during the reporting year for: noise, LF gas, dust, surface water, groundwater and leachate. There were a number of breaches of trigger levels, as detailed in the 'Complaints-Incidents' tab - all were reported as 'minor incidents' to the EPA.</p>

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.

	29th March 2013
Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

AIR-summary template Lic No: W0151-01 Year 2012

Answer all questions and complete all tables where relevant

1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
No	Ambient dust monitoring was conducted at 4 monitoring locations during Aug. 2012 - there were no breaches of the dust deposition ELV.

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	
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3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

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

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

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

AIR-summary template	Lic No: W0151-01	Year: 2012
Continuous Monitoring		

4 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 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

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

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

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table [Bypass protocol](#)

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

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

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

AIR-summary template		Lic No: W0151-01	Year: 2012					
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			SELECT					
Table A4: Solvent Management Plan Summary		Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6						
Total VOC Emission limit value								
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site	Total VOC emissions as %of solvent					
			Total Emission Limit Value (ELV) in licence or any revision thereof					
			Compliance					
			SELECT					
			SELECT					
Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

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

Lic No:

W0151-01

Year:

2012

Additional information

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licensed emissions you **only** need to complete table W1 and or W2 for surface water analysis and visual inspections

2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising **only** any evidence of contamination noted during visual inspections

No	
Yes	No contamination noted

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
ST-1	upstream		Alkalinity, Total	12/12/2012	Not applicable	Not applicable	200.00	mg/l	Not applicable	
ST-1	upstream		Ammoniacal Nitrogen	12/12/2012	Not applicable	Not applicable	0.05	mg/l	Not applicable	
ST-1	upstream		BOD	12/12/2012	Not applicable	Not applicable	1.00	mg/l	Not applicable	
ST-1	upstream		Boron	12/12/2012	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-1	upstream		Cadmium	12/12/2012	Not applicable	Not applicable	0.00	mg/l	Not applicable	
ST-1	upstream		Calcium	12/12/2012	Not applicable	Not applicable	145.90	mg/l	Not applicable	
ST-1	upstream		Chloride	12/12/2012	Not applicable	Not applicable	35.80	mg/l	Not applicable	
ST-1	upstream		Chromium, Total	12/12/2012	Not applicable	Not applicable	0.00	mg/l	Not applicable	
ST-1	upstream		COD	12/12/2012	Not applicable	Not applicable	7.00	mg/l	Not applicable	
ST-1	upstream		Colour	12/12/2012	Not applicable	Not applicable	Clear	N/A	Not applicable	
ST-1	upstream		Conductivity	12/12/2012	Not applicable	Not applicable	0.81	mS/cm	Not applicable	
ST-1	upstream		Copper	12/12/2012	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-1	upstream		Cyanide, Total	12/12/2012	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-1	upstream		Dissolved Oxygen	12/12/2012	Not applicable	Not applicable	6.10	mg/l	Not applicable	
ST-1	upstream		Iron	12/12/2012	Not applicable	Not applicable	0.02	mg/l	Not applicable	
ST-1	upstream		Lead	12/12/2012	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-1	upstream		Magnesium	12/12/2012	Not applicable	Not applicable	14.50	mg/l	Not applicable	
ST-1	upstream		Manganese	12/12/2012	Not applicable	Not applicable	0.02	mg/l	Not applicable	
ST-1	upstream		Nickel	12/12/2012	Not applicable	Not applicable	0.00	mg/l	Not applicable	
ST-1	upstream		Odour	12/12/2012	Not applicable	Not applicable	None	N/A	Not applicable	
ST-1	upstream		Orthophosphates	12/12/2012	Not applicable	Not applicable	0.06	mg/l	Not applicable	
ST-1	upstream		pH	12/12/2012	Not applicable	Not applicable	7.90	pH units	Not applicable	
ST-1	upstream		Phosphorus, Total	12/12/2012	Not applicable	Not applicable	0.05	mg/l	Not applicable	
ST-1	upstream		Potassium	12/12/2012	Not applicable	Not applicable	2.30	mg/l	Not applicable	
ST-1	upstream		Sodium	12/12/2012	Not applicable	Not applicable	18.80	mg/l	Not applicable	
ST-1	upstream		Sulphate	12/12/2012	Not applicable	Not applicable	28.11	mg/l	Not applicable	
ST-1	upstream		Suspended Solids, Total	12/12/2012	Not applicable	Not applicable	10.00	mg/l	Not applicable	
ST-1	upstream		Temperature	12/12/2012	Not applicable	Not applicable	6.40	°C	Not applicable	
ST-1	upstream		Zinc	12/12/2012	Not applicable	Not applicable	0.00	mg/l	Not applicable	
							0.00			
ST-2	upstream		Alkalinity, Total	20/06/12 12/12/12	Not applicable	Not applicable	147.00	mg/l	Not applicable	
ST-2	upstream		Ammoniacal Nitrogen	20/06/12 12/12/12	Not applicable	Not applicable	0.04	mg/l	Not applicable	
ST-2	upstream		BOD	20/06/12 12/12/12	Not applicable	Not applicable	1.00	mg/l	Not applicable	
ST-2	upstream		Boron	20/06/12 12/12/12	Not applicable	Not applicable	0.03	mg/l	Not applicable	
ST-2	upstream		Cadmium	20/06/12 12/12/12	Not applicable	Not applicable	0.00	mg/l	Not applicable	
ST-2	upstream		Calcium	20/06/12 12/12/12	Not applicable	Not applicable	96.70	mg/l	Not applicable	
ST-2	upstream		Chloride	20/06/12 12/12/12	Not applicable	Not applicable	34.55	mg/l	Not applicable	
ST-2	upstream		Chromium, Total	20/06/12 12/12/12	Not applicable	Not applicable	0.00	mg/l	Not applicable	
ST-2	upstream		COD	20/06/12 12/12/12	Not applicable	Not applicable	7.00	mg/l	Not applicable	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)													Lic No:		W0151-01		Year		2012	
	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

Additional Information

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

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 table W4 below

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

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below**

Yes	Bund testing is stipulated in W0151-01; however fuel is no longer stored on site (the plant items which required diesel are no longer on site). Bund testing has, therefore, not been required (diesel tanks are empty).
SELECT	
SELECT	
SELECT	
SELECT	

- 1
- 2 Please provide integrity testing frequency period
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore"
- 3 type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested witin the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested witin the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?
Please list any sump integrity failures in table B1
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Table B1: Summary details of bund /containment structure integrity test

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

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

- 14 line with BS8007/EPA Guidance
Has integrity testing been carried out in accordance with licence requirements and are all structures tested in [bunding and storage guidelines](#)
- 15 Are channels/transfer systems to remote containment systems tested?
- 16 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all

- 1 underground structures and pipelines on site **which failed the integrity test**
- 2 Please provide integrity testing frequency period

SELECT	
SELECT	

Table B2: Summary details of pipeline/underground structures integrity test

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

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

Groundwater/Soil monitoring template	Lic No: W0151-01	Year: 2012
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	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
2 Are you required to carry out soil monitoring as part of your licence requirements?	no
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	no There is an area of historic waste deposits, which is monitored for leachate and landfill gas.
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7 Please specify the proposed time frame for the remediation strategy	SELECT
8 Is there a licence condition to carry out/update ELRA for the site?	SELECT
9 Has any type of risk assesment been carried out for the site?	SELECT
10 Has a Conceptual Site Model been developed for the site?	SELECT
11 Have potential receptors been identified on and off site?	SELECT
12 Is there evidence that contamination is migrating offsite?	SELECT

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
29/03/12 02/08/12	MW-18	Ammoniacal Nitrogen	Lab analysis	Biannual	0.08	0.06	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-25%	No
29/03/12 02/08/12	MW-18	Chloride	Lab analysis	Biannual	36.5	35.65	mg/l	W0151-01 EPA Trigger Level	70	-1%	No
29/03/12 02/08/12	MW-18	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-18	Sulphate	Lab analysis	Biannual	2.99	2.955	mg/l	W0151-01 EPA Trigger Level	140	18%	No
29/03/12 02/08/12	MW-18	Total Organic Carbon	Lab analysis	Biannual	8	6	mg/l	W0151-01 EPA Trigger Level	50	-17%	No
29/03/12 02/08/12	MW-18	Colour	Field analysis	Biannual	Light brown	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-18	Conductivity	Field analysis	Biannual	0.2	0.2	mS/cm	W0151-01 EPA Trigger Level	1	-10%	No
29/03/12 02/08/12	MW-18	Dissolved Oxygen	Field analysis	Biannual	2.84	1.675	mg/l	W0151-01 EPA Trigger Level	N/A	-13%	No
29/03/12 02/08/12	MW-18	Level, Water	Field analysis	Biannual	13.11	13.05	mOD	W0151-01 EPA Trigger Level	N/A	3%	No
29/03/12 02/08/12	MW-18	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	pH	Field analysis	Biannual	7.9	7.9	pH	W0151-01 EPA Trigger Level	6<pH<9	-3%	No
29/03/12 02/08/12	MW-18	Temperature	Field analysis	Biannual	13.7	13.3	°C	W0151-01 EPA Trigger Level	N/A	24%	No
29/03/12 02/08/12	MW-18	Alkalinity, Total	Lab analysis	Biannual	46	46	mg/l	W0151-01 EPA Trigger Level	N/A	-1848%	No
29/03/12 02/08/12	MW-18	Boron	Lab analysis	Biannual	0.012	0.012	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-18	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-18	Calcium	Lab analysis	Biannual	15.8	15.8	mg/l	W0151-01 EPA Trigger Level	N/A	-23%	No
29/03/12 02/08/12	MW-18	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	#DIV/0!	No
29/03/12 02/08/12	MW-18	Coliforms, Total	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	#DIV/0!	No
29/03/12 02/08/12	MW-18	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-18	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Fluoride	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level	N/A	20%	No
29/03/12 02/08/12	MW-18	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-18	Lead	Lab analysis	Biannual	0.05	0.05	mg/l	W0151-01 EPA Trigger Level	N/A	90%	No
29/03/12 02/08/12	MW-18	Magnesium	Lab analysis	Biannual	1.4	1.4	mg/l	W0151-01 EPA Trigger Level	N/A	-43%	No
29/03/12 02/08/12	MW-18	Manganese	Lab analysis	Biannual	0.174	0.174	mg/l	W0151-01 EPA Trigger Level	N/A	9%	No
29/03/12 02/08/12	MW-18	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Phosphorous, Total	Lab analysis	Biannual	0.019	0.019	mg/l	W0151-01 EPA Trigger Level	N/A	-26%	No
29/03/12 02/08/12	MW-18	Potassium	Lab analysis	Biannual	1.4	1.4	mg/l	W0151-01 EPA Trigger Level	N/A	-21%	No
29/03/12 02/08/12	MW-18	Residue on Evaporation	Lab analysis	Biannual	127	127	mg/l	W0151-01 EPA Trigger Level	N/A	-10%	No
29/03/12 02/08/12	MW-18	Sodium	Lab analysis	Biannual	17.3	17.3	mg/l	W0151-01 EPA Trigger Level	80	-11%	No
29/03/12 02/08/12	MW-18	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-18	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-19	Chloride	Lab analysis	Biannual	43.9	38.95	mg/l	W0151-01 EPA Trigger Level	70	-18%	No
29/03/12 02/08/12	MW-19	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-19	Sulphate	Lab analysis	Biannual	119.97	88.935	mg/l	W0151-01 EPA Trigger Level	140	-5%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-19	Total Organic Carbon	Lab analysis	Biannual	7	5.5	mg/l	W0151-01 EPA Trigger Level	50	0%	No
29/03/12 02/08/12	MW-19	Colour	Field analysis	Biannual	Brown	Light brown	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Conductivity	Field analysis	Biannual	0.92	0.845	mS/cm	W0151-01 EPA Trigger Level	1	-10%	No
29/03/12 02/08/12	MW-19	Dissolved Oxygen	Field analysis	Biannual	1.75	1.675	mg/l	W0151-01 EPA Trigger Level	N/A	9%	No
29/03/12 02/08/12	MW-19	Level, Water	Field analysis	Biannual	13.23	13.195	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-19	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	pH	Field analysis	Biannual	7.3	7.25	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
29/03/12 02/08/12	MW-19	Temperature	Field analysis	Biannual	14.3	13.75	°C	W0151-01 EPA Trigger Level	N/A	29%	No
29/03/12 02/08/12	MW-19	Alkalinity, Total	Lab analysis	Biannual	202	202	mg/l	W0151-01 EPA Trigger Level	N/A	-418%	No
29/03/12 02/08/12	MW-19	Boron	Lab analysis	Biannual	0.03	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	-40%	No
29/03/12 02/08/12	MW-19	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-19	Calcium	Lab analysis	Biannual	170	170	mg/l	W0151-01 EPA Trigger Level	N/A	10%	No
29/03/12 02/08/12	MW-19	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Coliforms, Faecal	Lab analysis	Biannual	10	10	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-19	Coliforms, Total	Lab analysis	Biannual	25	25	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-19	Copper	Lab analysis	Biannual	0.011	0.011	mg/l	W0151-01 EPA Trigger Level	0.5	36%	No
29/03/12 02/08/12	MW-19	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-19	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Magnesium	Lab analysis	Biannual	13.4	13.4	mg/l	W0151-01 EPA Trigger Level	N/A	6%	No
29/03/12 02/08/12	MW-19	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-19	Phosphorous, Total	Lab analysis	Biannual	0.165	0.165	mg/l	W0151-01 EPA Trigger Level	N/A	85%	No
29/03/12 02/08/12	MW-19	Potassium	Lab analysis	Biannual	3.1	3.1	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
29/03/12 02/08/12	MW-19	Residue on Evaporation	Lab analysis	Biannual	1323	1323	mg/l	W0151-01 EPA Trigger Level	N/A	53%	No
29/03/12 02/08/12	MW-19	Sodium	Lab analysis	Biannual	21.4	21.4	mg/l	W0151-01 EPA Trigger Level	80	-3%	No
29/03/12 02/08/12	MW-19	Total Oxidized Nitrogen	Lab analysis	Biannual	1.9	1.9	mg/l	W0151-01 EPA Trigger Level	N/A	-11%	No
29/03/12 02/08/12	MW-19	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-67%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Chloride	Lab analysis	Quarterly	79.7	60.2	mg/l	W0151-01 EPA Trigger Level	70	-20%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Sulphate	Lab analysis	Quarterly	66.01	43.4825	mg/l	W0151-01 EPA Trigger Level	140	3%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Total Organic Carbon	Lab analysis	Quarterly	10	6.25	mg/l	W0151-01 EPA Trigger Level	50	-28%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Colour	Field analysis	Quarterly	Brown-sediment	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Conductivity	Field analysis	Quarterly	0.94	0.85	mS/cm	W0151-01 EPA Trigger Level	1	-16%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Dissolved Oxygen	Field analysis	Quarterly	10	5.7875	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Level, Water	Field analysis	Quarterly	13.46	12.895	mOD	W0151-01 EPA Trigger Level	N/A	1%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	pH	Field analysis	Quarterly	7.7	7.525	pH	W0151-01 EPA Trigger Level	6<pH<9	5%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Temperature	Field analysis	Quarterly	17.8	14.25	°C	W0151-01 EPA Trigger Level	N/A	17%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Alkalinity, Total	Lab analysis	Quarterly	108	108	mg/l	W0151-01 EPA Trigger Level	N/A	-791%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Boron	Lab analysis	Quarterly	0.035	0.035	mg/l	W0151-01 EPA Trigger Level	N/A	-43%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Cadmium	Lab analysis	Quarterly	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Calcium	Lab analysis	Quarterly	148.5	148.5	mg/l	W0151-01 EPA Trigger Level	N/A	-10%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Coliforms, Faecal	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Coliforms, Total	Lab analysis	Quarterly	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Copper	Lab analysis	Quarterly	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Magnesium	Lab analysis	Quarterly	10.2	10.2	mg/l	W0151-01 EPA Trigger Level	N/A	-37%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Mercury	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Phosphorus, Total	Lab analysis	Quarterly	0.024	0.024	mg/l	W0151-01 EPA Trigger Level	N/A	46%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Potassium	Lab analysis	Quarterly	3.4	3.4	mg/l	W0151-01 EPA Trigger Level	N/A	-47%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Residue on Evaporation	Lab analysis	Quarterly	807	807	mg/l	W0151-01 EPA Trigger Level	N/A	-11%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Sodium	Lab analysis	Quarterly	33.5	33.5	mg/l	W0151-01 EPA Trigger Level	80	14%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Total Oxidized Nitrogen	Lab analysis	Quarterly	14.3	14.3	mg/l	W0151-01 EPA Trigger Level	N/A	6%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-21	Zinc	Lab analysis	Quarterly	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-24	Ammoniacal Nitrogen	Lab analysis	Biannual	0.84	0.433333333	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-239%	No
29/03/12 02/08/12	MW-24	Chloride	Lab analysis	Biannual	41.8	40.133	mg/l	W0151-01 EPA Trigger Level	70	-4%	No
29/03/12 02/08/12	MW-24	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-24	Sulphate	Lab analysis	Biannual	37.79	35.14	mg/l	W0151-01 EPA Trigger Level	140	6%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-24	Total Organic Carbon	Lab analysis	Biannual	5	4.5	mg/l	W0151-01 EPA Trigger Level	50	-67%	No
29/03/12 02/08/12	MW-24	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-24	Conductivity	Field analysis	Biannual	0.8	0.763	mS/cm	W0151-01 EPA Trigger Level	1	-4%	No
29/03/12 02/08/12	MW-24	Dissolved Oxygen	Field analysis	Biannual	4.02	3.18	mg/l	W0151-01 EPA Trigger Level	N/A	-46%	No
29/03/12 02/08/12	MW-24	Level, Water	Field analysis	Biannual	11.68	11.61	mOD	W0151-01 EPA Trigger Level	N/A	3%	No
29/03/12 02/08/12	MW-24	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-24	pH	Field analysis	Biannual	7.7	7.4	pH	W0151-01 EPA Trigger Level	6<pH<9	3%	No
29/03/12 02/08/12	MW-24	Temperature	Field analysis	Biannual	15.7	15.35	°C	W0151-01 EPA Trigger Level	N/A	21%	No
29/03/12 02/08/12	MW-24	Alkalinity, Total	Lab analysis	Biannual	186	186	mg/l	W0151-01 EPA Trigger Level	N/A	-290%	No
29/03/12 02/08/12	MW-24	Boron	Lab analysis	Biannual	0.031	0.0215	mg/l	W0151-01 EPA Trigger Level	N/A	-63%	No
29/03/12 02/08/12	MW-24	Cadmium	Lab analysis	Biannual	0.0005	0.0003	mg/l	W0151-01 EPA Trigger Level	0.004	-67%	No
29/03/12 02/08/12	MW-24	Calcium	Lab analysis	Biannual	132	130.8	mg/l	W0151-01 EPA Trigger Level	N/A	-2%	No
29/03/12 02/08/12	MW-24	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-24	Coliforms, Faecal	Lab analysis	Biannual	4	4	cfus/100ml	W0151-01 EPA Trigger Level	N/A	25%	No
29/03/12 02/08/12	MW-24	Coliforms, Total	Lab analysis	Biannual	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-1400%	No
29/03/12 02/08/12	MW-24	Copper	Lab analysis	Biannual	0.007	0.00465	mg/l	W0151-01 EPA Trigger Level	0.5	-51%	No
29/03/12 02/08/12	MW-24	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-24	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
29/03/12 02/08/12	MW-24	Iron	Lab analysis	Biannual	0.02	0.015	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-24	Lead	Lab analysis	Biannual	0.005	0.00275	mg/l	W0151-01 EPA Trigger Level	N/A	-82%	No
29/03/12 02/08/12	MW-24	Magnesium	Lab analysis	Biannual	15.5	13.85	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
29/03/12 02/08/12	MW-24	Manganese	Lab analysis	Biannual	0.037	0.026	mg/l	W0151-01 EPA Trigger Level	N/A	-1719%	No
29/03/12 02/08/12	MW-24	Mercury	Lab analysis	Biannual	0.001	0.000525	mg/l	W0151-01 EPA Trigger Level	N/A	-90%	No
29/03/12 02/08/12	MW-24	Nickel	Lab analysis	Biannual	0.002	0.0018	mg/l	W0151-01 EPA Trigger Level	N/A	-2011%	No
29/03/12 02/08/12	MW-24	Orthophosphates	Lab analysis	Biannual	0.23	0.1175	mg/l	W0151-01 EPA Trigger Level	N/A	-2904%	No
29/03/12 02/08/12	MW-24	Phosphorous, Total	Lab analysis	Biannual	0.148	0.148	mg/l	W0151-01 EPA Trigger Level	N/A	89%	No
29/03/12 02/08/12	MW-24	Potassium	Lab analysis	Biannual	4.04	3.82	mg/l	W0151-01 EPA Trigger Level	N/A	-19%	No
29/03/12 02/08/12	MW-24	Residue on Evaporation	Lab analysis	Biannual	571	571	mg/l	W0151-01 EPA Trigger Level	N/A	10%	No
29/03/12 02/08/12	MW-24	Sodium	Lab analysis	Biannual	22.9	21.2	mg/l	W0151-01 EPA Trigger Level	80	-34%	No
29/03/12 02/08/12	MW-24	Total Oxidized Nitrogen	Lab analysis	Biannual	14.7	11.55	mg/l	W0151-01 EPA Trigger Level	N/A	81%	No
29/03/12 02/08/12	MW-24	Zinc	Lab analysis	Biannual	0.005	0.00405	mg/l	W0151-01 EPA Trigger Level	N/A	-23%	No
29/03/12 02/08/12	MW-25	Ammoniacal Nitrogen	Lab analysis	Biannual	0.05	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-88%	No
29/03/12 02/08/12	MW-25	Chloride	Lab analysis	Biannual	43.3	41.65	mg/l	W0151-01 EPA Trigger Level	70	-40%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-25	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-25	Sulphate	Lab analysis	Biannual	40.54	38.12	mg/l	W0151-01 EPA Trigger Level	140	11%	No
29/03/12 02/08/12	MW-25	Total Organic Carbon	Lab analysis	Biannual	5	4.5	mg/l	W0151-01 EPA Trigger Level	50	-89%	No
29/03/12 02/08/12	MW-25	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Conductivity	Field analysis	Biannual	0.75	0.745	mS/cm	W0151-01 EPA Trigger Level	1	-15%	No
29/03/12 02/08/12	MW-25	Dissolved Oxygen	Field analysis	Biannual	4.1	2.975	mg/l	W0151-01 EPA Trigger Level	N/A	-1%	No
29/03/12 02/08/12	MW-25	Level, Water	Field analysis	Biannual	11.62	11.55	mOD	W0151-01 EPA Trigger Level	N/A	3%	No
29/03/12 02/08/12	MW-25	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	pH	Field analysis	Biannual	7.4	7.35	pH	W0151-01 EPA Trigger Level	6<pH<9	4%	No
29/03/12 02/08/12	MW-25	Temperature	Field analysis	Biannual	14.8	14.55	°C	W0151-01 EPA Trigger Level	N/A	19%	No
29/03/12 02/08/12	MW-25	Alkalinity, Total	Lab analysis	Biannual	164	164	mg/l	W0151-01 EPA Trigger Level	N/A	-607%	No
29/03/12 02/08/12	MW-25	Boron	Lab analysis	Biannual	0.012	0.012	mg/l	W0151-01 EPA Trigger Level	N/A	-133%	No
29/03/12 02/08/12	MW-25	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-25	Calcium	Lab analysis	Biannual	131.3	131.3	mg/l	W0151-01 EPA Trigger Level	N/A	-2%	No
29/03/12 02/08/12	MW-25	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Coliforms, Faecal	Lab analysis	Biannual	7	7	cfus/100ml	W0151-01 EPA Trigger Level	N/A	29%	No
29/03/12 02/08/12	MW-25	Coliforms, Total	Lab analysis	Biannual	17	17	cfus/100ml	W0151-01 EPA Trigger Level	N/A	71%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-25	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-25	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Magnesium	Lab analysis	Biannual	12.1	12.1	mg/l	W0151-01 EPA Trigger Level	N/A	-32%	No
29/03/12 02/08/12	MW-25	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	-50%	No
29/03/12 02/08/12	MW-25	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-25	Phosphorous, Total	Lab analysis	Biannual	0.038	0.038	mg/l	W0151-01 EPA Trigger Level	N/A	-84%	No
29/03/12 02/08/12	MW-25	Potassium	Lab analysis	Biannual	3.4	3.4	mg/l	W0151-01 EPA Trigger Level	N/A	-15%	No
29/03/12 02/08/12	MW-25	Residue on Evaporation	Lab analysis	Biannual	882	882	mg/l	W0151-01 EPA Trigger Level	N/A	39%	No
29/03/12 02/08/12	MW-25	Sodium	Lab analysis	Biannual	19.7	19.7	mg/l	W0151-01 EPA Trigger Level	80	-34%	No
29/03/12 02/08/12	MW-25	Total Oxidized Nitrogen	Lab analysis	Biannual	7.1	7.1	mg/l	W0151-01 EPA Trigger Level	N/A	51%	No
29/03/12 02/08/12	MW-25	Zinc	Lab analysis	Biannual	0.004	0.004	mg/l	W0151-01 EPA Trigger Level	N/A	25%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	TW-2	Ammoniacal Nitrogen	Lab analysis	Biannual	2.91	2.75	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	13%	No
29/03/12 02/08/12	TW-2	Chloride	Lab analysis	Biannual	40	32.5	mg/l	W0151-01 EPA Trigger Level	70	24%	No
29/03/12 02/08/12	TW-2	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	TW-2	Sulphate	Lab analysis	Biannual	36.75	18.9	mg/l	W0151-01 EPA Trigger Level	140	95%	No
29/03/12 02/08/12	TW-2	Total Organic Carbon	Lab analysis	Biannual	11	8.5	mg/l	W0151-01 EPA Trigger Level	50	29%	No
29/03/12 02/08/12	TW-2	Colour	Field analysis	Biannual	Clear with some sediment	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Conductivity	Field analysis	Biannual	0.27	0.265	mS/cm	W0151-01 EPA Trigger Level	1	-2%	No
29/03/12 02/08/12	TW-2	Dissolved Oxygen	Field analysis	Biannual	2.21	1.245	mg/l	W0151-01 EPA Trigger Level	N/A	-97%	No
29/03/12 02/08/12	TW-2	Level, Water	Field analysis	Biannual	13.64	13.64	mOD	W0151-01 EPA Trigger Level	N/A	3%	No
29/03/12 02/08/12	TW-2	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	pH	Field analysis	Biannual	9.5	9.35	pH	W0151-01 EPA Trigger Level	6<pH<9	-2%	No
29/03/12 02/08/12	TW-2	Temperature	Field analysis	Biannual	18	15.7	°C	W0151-01 EPA Trigger Level	N/A	15%	No
29/03/12 02/08/12	TW-2	Boron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-70%	No
29/03/12 02/08/12	TW-2	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	TW-2	Calcium	Lab analysis	Biannual	3.5	3.5	mg/l	W0151-01 EPA Trigger Level	N/A	-6%	No
29/03/12 02/08/12	TW-2	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Coliforms, Faecal	Lab analysis	Biannual	0	0	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	TW-2	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-100%	No
29/03/12 02/08/12	TW-2	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	TW-2	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Magnesium	Lab analysis	Biannual	9.8	9.8	mg/l	W0151-01 EPA Trigger Level	N/A	-13%	No
29/03/12 02/08/12	TW-2	Manganese	Lab analysis	Biannual	0.021	0.021	mg/l	W0151-01 EPA Trigger Level	N/A	19%	No
29/03/12 02/08/12	TW-2	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	TW-2	Potassium	Lab analysis	Biannual	3.9	3.9	mg/l	W0151-01 EPA Trigger Level	N/A	-5%	No
29/03/12 02/08/12	TW-2	Residue on Evaporation	Lab analysis	Biannual	158	158	mg/l	W0151-01 EPA Trigger Level	N/A	15%	No
29/03/12 02/08/12	TW-2	Sodium	Lab analysis	Biannual	31.4	31.4	mg/l	W0151-01 EPA Trigger Level	80	0%	No
29/03/12 02/08/12	TW-2	Alkalinity, Total	Lab analysis	Biannual	114	114	mg/l	W0151-01 EPA Trigger Level	N/A	-789%	No
29/03/12 02/08/12	TW-2	Total Oxidized Nitrogen	Lab analysis	Biannual	7.1	7.1	mg/l	W0151-01 EPA Trigger Level	N/A	97%	No
29/03/12 02/08/12	TW-2	Phosphorous, Total	Lab analysis	Biannual	0.018	0.018	mg/l	W0151-01 EPA Trigger Level	N/A	72%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	TW-2	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.06	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-213%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Chloride	Lab analysis	Quarterly	10.6	10.08	mg/l	W0151-01 EPA Trigger Level	70	-11%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Phenols, Total	Lab analysis	Quarterly	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Sulphate	Lab analysis	Quarterly	2.71	1.83	mg/l	W0151-01 EPA Trigger Level	140	-17%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Total Organic Carbon	Lab analysis	Quarterly	8	6.00	mg/l	W0151-01 EPA Trigger Level	50	-63%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Colour	Field analysis	Quarterly	Clear, some red-orange sediment	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Conductivity	Field analysis	Quarterly	0.59	0.49	mS/cm	W0151-01 EPA Trigger Level	1	-2%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Dissolved Oxygen	Field analysis	Quarterly	6	3.19	mg/l	W0151-01 EPA Trigger Level	N/A	24%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Level, Water	Field analysis	Quarterly	14.76	14.74	mOD	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	pH	Field analysis	Quarterly	8.2	7.78	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Temperature	Field analysis	Quarterly	17.6	15.18	°C	W0151-01 EPA Trigger Level	N/A	16%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Alkalinity, Total	Lab analysis	Quarterly	308	308.00	mg/l	W0151-01 EPA Trigger Level	N/A	-208%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Boron	Lab analysis	Quarterly	0.016	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Cadmium	Lab analysis	Quarterly	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Calcium	Lab analysis	Quarterly	51.7	51.70	mg/l	W0151-01 EPA Trigger Level	N/A	13%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Chromium, Total	Lab analysis	Quarterly	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Coliforms, Faecal	Lab analysis	Quarterly	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Coliforms, Total	Lab analysis	Quarterly	1	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Copper	Lab analysis	Quarterly	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Fluoride	Lab analysis	Quarterly	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Lead	Lab analysis	Quarterly	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Magnesium	Lab analysis	Quarterly	37	37.00	mg/l	W0151-01 EPA Trigger Level	N/A	-12%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Manganese	Lab analysis	Quarterly	0.39	0.39	mg/l	W0151-01 EPA Trigger Level	N/A	-382%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Mercury	Lab analysis	Quarterly	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Nickel	Lab analysis	Quarterly	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Phosphorous, Total	Lab analysis	Quarterly	0.015	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	67%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Potassium	Lab analysis	Quarterly	4.1	4.10	mg/l	W0151-01 EPA Trigger Level	N/A	15%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Residue on Evaporation	Lab analysis	Quarterly	371	371.00	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Sodium	Lab analysis	Quarterly	36.7	36.70	mg/l	W0151-01 EPA Trigger Level	80	-28%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	MW-1	Zinc	Lab analysis	Quarterly	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-2	Ammoniacal Nitrogen	Lab analysis	Biannual	0.14	0.11	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-5%	No
29/03/12 02/08/12	MW-2	Chloride	Lab analysis	Biannual	28.3	27.40	mg/l	W0151-01 EPA Trigger Level	70	-1%	No
29/03/12 02/08/12	MW-2	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-2	Sulphate	Lab analysis	Biannual	113.23	99.09	mg/l	W0151-01 EPA Trigger Level	140	25%	No
29/03/12 02/08/12	MW-2	Total Organic Carbon	Lab analysis	Biannual	4	4.00	mg/l	W0151-01 EPA Trigger Level	50	-138%	No
29/03/12 02/08/12	MW-2	Colour	Field analysis	Biannual	Black	Black	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Conductivity	Field analysis	Biannual	0.58	0.45	mS/cm	W0151-01 EPA Trigger Level	1	-11%	No
29/03/12 02/08/12	MW-2	Dissolved Oxygen	Field analysis	Biannual	1.84	1.00	mg/l	W0151-01 EPA Trigger Level	N/A	-16%	No
29/03/12 02/08/12	MW-2	Level, Water	Field analysis	Biannual	12.34	12.29	mOD	W0151-01 EPA Trigger Level	N/A	5%	No
29/03/12 02/08/12	MW-2	Odour	Field analysis	Biannual	Odourous	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	pH	Field analysis	Biannual	8.1	7.70	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
29/03/12 02/08/12	MW-2	Temperature	Field analysis	Biannual	13.5	12.85	°C	W0151-01 EPA Trigger Level	N/A	15%	No
29/03/12 02/08/12	MW-2	Alkalinity, Total	Lab analysis	Biannual	78	78.00	mg/l	W0151-01 EPA Trigger Level	N/A	-974%	No
29/03/12 02/08/12	MW-2	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-2	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-2	Calcium	Lab analysis	Biannual	46.3	46.30	mg/l	W0151-01 EPA Trigger Level	N/A	43%	No
29/03/12 02/08/12	MW-2	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Coliforms, Total	Lab analysis	Biannual	1	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-2	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-2	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Magnesium	Lab analysis	Biannual	9.4	9.40	mg/l	W0151-01 EPA Trigger Level	N/A	36%	No
29/03/12 02/08/12	MW-2	Manganese	Lab analysis	Biannual	0.234	0.23	mg/l	W0151-01 EPA Trigger Level	N/A	71%	No
29/03/12 02/08/12	MW-2	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Orthophosp hates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Phosphorou s, Total	Lab analysis	Biannual	0.061	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	85%	No
29/03/12 02/08/12	MW-2	Potassium	Lab analysis	Biannual	3.5	3.50	mg/l	W0151-01 EPA Trigger Level	N/A	14%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-2	Residue on Evaporation	Lab analysis	Biannual	589	589.00	mg/l	W0151-01 EPA Trigger Level	N/A	51%	No
29/03/12 02/08/12	MW-2	Sodium	Lab analysis	Biannual	22.8	22.80	mg/l	W0151-01 EPA Trigger Level	80	29%	No
29/03/12 02/08/12	MW-2	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-2	Zinc	Lab analysis	Biannual	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-3	Ammoniacal Nitrogen	Lab analysis	Biannual	0.3	0.20	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	67%	No
29/03/12 02/08/12	MW-3	Chloride	Lab analysis	Biannual	12.3	12.00	mg/l	W0151-01 EPA Trigger Level	70	-42%	No
29/03/12 02/08/12	MW-3	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-3	Sulphate	Lab analysis	Biannual	67.54	65.46	mg/l	W0151-01 EPA Trigger Level	140	58%	No
29/03/12 02/08/12	MW-3	Total Organic Carbon	Lab analysis	Biannual	12	10.00	mg/l	W0151-01 EPA Trigger Level	50	15%	No
29/03/12 02/08/12	MW-3	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Conductivity	Field analysis	Biannual	0.56	0.55	mS/cm	W0151-01 EPA Trigger Level	1	13%	No
29/03/12 02/08/12	MW-3	Dissolved Oxygen	Field analysis	Biannual	2.27	2.19	mg/l	W0151-01 EPA Trigger Level	N/A	55%	No
29/03/12 02/08/12	MW-3	Level, Water	Field analysis	Biannual	11.9	11.84	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-3	Odour	Field analysis	Biannual	Strong eggy	Eggy	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	pH	Field analysis	Biannual	8.1	7.85	pH	W0151-01 EPA Trigger Level	6<pH<9	4%	No
29/03/12 02/08/12	MW-3	Temperature	Field analysis	Biannual	20	16.85	°C	W0151-01 EPA Trigger Level	N/A	23%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-3	Alkalinity, Total	Lab analysis	Biannual	236	236.00	mg/l	W0151-01 EPA Trigger Level	N/A	-284%	No
29/03/12 02/08/12	MW-3	Boron	Lab analysis	Biannual	0.021	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-14%	No
29/03/12 02/08/12	MW-3	Cadmium	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	0.004	90%	No
29/03/12 02/08/12	MW-3	Calcium	Lab analysis	Biannual	111.1	111.10	mg/l	W0151-01 EPA Trigger Level	N/A	20%	No
29/03/12 02/08/12	MW-3	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Coliforms, Faecal	Lab analysis	Biannual	1	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-3	Coliforms, Total	Lab analysis	Biannual	1	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-3	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Magnesium	Lab analysis	Biannual	6.5	6.50	mg/l	W0151-01 EPA Trigger Level	N/A	12%	No
29/03/12 02/08/12	MW-3	Manganese	Lab analysis	Biannual	0.162	0.16	mg/l	W0151-01 EPA Trigger Level	N/A	71%	No
29/03/12 02/08/12	MW-3	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-3	Orthophosph ates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	-133%	No

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29/03/12 02/08/12	MW-3	Phosphorus, Total	Lab analysis	Biannual	0.149	0.15	mg/l	W0151-01 EPA Trigger Level	N/A	44%	No
29/03/12 02/08/12	MW-3	Potassium	Lab analysis	Biannual	4.1	4.10	mg/l	W0151-01 EPA Trigger Level	N/A	-22%	No
29/03/12 02/08/12	MW-3	Residue on Evaporation	Lab analysis	Biannual	395	395.00	mg/l	W0151-01 EPA Trigger Level	N/A	23%	No
29/03/12 02/08/12	MW-3	Sodium	Lab analysis	Biannual	11.6	11.60	mg/l	W0151-01 EPA Trigger Level	80	-6%	No
29/03/12 02/08/12	MW-3	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	-150%	No
29/03/12 02/08/12	MW-3	Zinc	Lab analysis	Biannual	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-4	Ammoniacal Nitrogen	Lab analysis	Biannual	0.95	0.60	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	17%	No
29/03/12 02/08/12	MW-4	Chloride	Lab analysis	Biannual	37.8	36.80	mg/l	W0151-01 EPA Trigger Level	70	-2%	No
29/03/12 02/08/12	MW-4	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-4	Sulphate	Lab analysis	Biannual	92.4	84.16	mg/l	W0151-01 EPA Trigger Level	140	8%	No
29/03/12 02/08/12	MW-4	Total Organic Carbon	Lab analysis	Biannual	6	5.50	mg/l	W0151-01 EPA Trigger Level	50	-18%	No
29/03/12 02/08/12	MW-4	Colour	Field analysis	Biannual	Clear, red sediment	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Conductivity	Field analysis	Biannual	0.759	0.73	mS/cm	W0151-01 EPA Trigger Level	1	-3%	No
29/03/12 02/08/12	MW-4	Dissolved Oxygen	Field analysis	Biannual	1.57	0.90	mg/l	W0151-01 EPA Trigger Level	N/A	15%	No
29/03/12 02/08/12	MW-4	Level, Water	Field analysis	Biannual	11.85	11.80	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-4	Odour	Field analysis	Biannual	Slightly eggy	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No

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29/03/12 02/08/12	MW-4	pH	Field analysis	Biannual	7.5	7.40	pH	W0151-01 EPA Trigger Level	6<pH<9	3%	No
29/03/12 02/08/12	MW-4	Temperature	Field analysis	Biannual	17.8	15.10	°C	W0151-01 EPA Trigger Level	N/A	16%	No
29/03/12 02/08/12	MW-4	Alkalinity, Total	Lab analysis	Biannual	224	224.00	mg/l	W0151-01 EPA Trigger Level	N/A	-186%	No
29/03/12 02/08/12	MW-4	Boron	Lab analysis	Biannual	0.066	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	-2%	No
29/03/12 02/08/12	MW-4	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	-67%	No
29/03/12 02/08/12	MW-4	Calcium	Lab analysis	Biannual	128	120.10	mg/l	W0151-01 EPA Trigger Level	N/A	17%	No
29/03/12 02/08/12	MW-4	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Coliforms, Total	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Copper	Lab analysis	Biannual	0.007	0.00	mg/l	W0151-01 EPA Trigger Level	0.5	-87%	No
29/03/12 02/08/12	MW-4	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	37%	No
29/03/12 02/08/12	MW-4	Iron	Lab analysis	Biannual	3.01	1.52	mg/l	W0151-01 EPA Trigger Level	N/A	99%	No
29/03/12 02/08/12	MW-4	Lead	Lab analysis	Biannual	0.005	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-82%	No
29/03/12 02/08/12	MW-4	Magnesium	Lab analysis	Biannual	16.4	16.30	mg/l	W0151-01 EPA Trigger Level	N/A	-4%	No
29/03/12 02/08/12	MW-4	Manganese	Lab analysis	Biannual	0.85	0.74	mg/l	W0151-01 EPA Trigger Level	N/A	35%	No
29/03/12 02/08/12	MW-4	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-90%	No

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29/03/12 02/08/12	MW-4	Nickel	Lab analysis	Biannual	0.0034	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	6%	No
29/03/12 02/08/12	MW-4	Orthophosphates	Lab analysis	Biannual	0.06	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-4	Phosphorous, Total	Lab analysis	Biannual	0.016	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	69%	No
29/03/12 02/08/12	MW-4	Potassium	Lab analysis	Biannual	7.1	7.03	mg/l	W0151-01 EPA Trigger Level	N/A	-4%	No
29/03/12 02/08/12	MW-4	Residue on Evaporation	Lab analysis	Biannual	540	540.00	mg/l	W0151-01 EPA Trigger Level	N/A	39%	No
29/03/12 02/08/12	MW-4	Sodium	Lab analysis	Biannual	30.4	29.65	mg/l	W0151-01 EPA Trigger Level	80	-15%	No
29/03/12 02/08/12	MW-4	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.15	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-4	Zinc	Lab analysis	Biannual	0.0051	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	26%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-5	Ammoniacal Nitrogen	Lab analysis	Biannual	0.04	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-63%	No
29/03/12 02/08/12	MW-5	Chloride	Lab analysis	Biannual	13.6	9.05	mg/l	W0151-01 EPA Trigger Level	70	-170%	No
29/03/12 02/08/12	MW-5	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-5	Sulphate	Lab analysis	Biannual	18.73	11.44	mg/l	W0151-01 EPA Trigger Level	140	-415%	No
29/03/12 02/08/12	MW-5	Total Organic Carbon	Lab analysis	Biannual	7	7.00	mg/l	W0151-01 EPA Trigger Level	50	43%	No
29/03/12 02/08/12	MW-5	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Conductivity	Field analysis	Biannual	0.34	0.29	mS/cm	W0151-01 EPA Trigger Level	1	-88%	No
29/03/12 02/08/12	MW-5	Dissolved Oxygen	Field analysis	Biannual	5.22	3.58	mg/l	W0151-01 EPA Trigger Level	N/A	61%	No

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29/03/12 02/08/12	MW-5	Level, Water	Field analysis	Biannual	12.86	12.41	mOD	W0151-01 EPA Trigger Level	N/A	5%	No
29/03/12 02/08/12	MW-5	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	pH	Field analysis	Biannual	8	7.95	pH	W0151-01 EPA Trigger Level	6<pH<9	3%	No
29/03/12 02/08/12	MW-5	Temperature	Field analysis	Biannual	14.9	14.55	°C	W0151-01 EPA Trigger Level	N/A	16%	No
29/03/12 02/08/12	MW-5	Alkalinity, Total	Lab analysis	Biannual	108	108.00	mg/l	W0151-01 EPA Trigger Level	N/A	-722%	No
29/03/12 02/08/12	MW-5	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-383%	No
29/03/12 02/08/12	MW-5	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-5	Calcium	Lab analysis	Biannual	24.2	24.20	mg/l	W0151-01 EPA Trigger Level	N/A	-410%	No
29/03/12 02/08/12	MW-5	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Coliforms, Faecal	Lab analysis	Biannual	32	32.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-5	Coliforms, Total	Lab analysis	Biannual	46	46.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-5	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-5	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Magnesium	Lab analysis	Biannual	0.9	0.90	mg/l	W0151-01 EPA Trigger Level	N/A	-1667%	No

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29/03/12 02/08/12	MW-5	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-12500%	No
29/03/12 02/08/12	MW-5	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-5	Orthophosphates	Lab analysis	Biannual	0.46	0.46	mg/l	W0151-01 EPA Trigger Level	N/A	87%	No
29/03/12 02/08/12	MW-5	Phosphorous, Total	Lab analysis	Biannual	0.233	0.23	mg/l	W0151-01 EPA Trigger Level	N/A	83%	No
29/03/12 02/08/12	MW-5	Potassium	Lab analysis	Biannual	26.8	26.80	mg/l	W0151-01 EPA Trigger Level	N/A	55%	No
29/03/12 02/08/12	MW-5	Residue on Evaporation	Lab analysis	Biannual	331	331.00	mg/l	W0151-01 EPA Trigger Level	N/A	-54%	No
29/03/12 02/08/12	MW-5	Sodium	Lab analysis	Biannual	11.5	11.50	mg/l	W0151-01 EPA Trigger Level	80	-143%	No
29/03/12 02/08/12	MW-5	Total Oxidized Nitrogen	Lab analysis	Biannual	0.9	0.90	mg/l	W0151-01 EPA Trigger Level	N/A	-100%	No
29/03/12 02/08/12	MW-5	Zinc	Lab analysis	Biannual	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-6	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-217%	No
29/03/12 02/08/12	MW-6	Chloride	Lab analysis	Biannual	11.7	11.45	mg/l	W0151-01 EPA Trigger Level	70	-41%	No
29/03/12 02/08/12	MW-6	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-6	Sulphate	Lab analysis	Biannual	22.14	21.71	mg/l	W0151-01 EPA Trigger Level	140	-77%	No
29/03/12 02/08/12	MW-6	Total Organic Carbon	Lab analysis	Biannual	12	10.00	mg/l	W0151-01 EPA Trigger Level	50	55%	No
29/03/12 02/08/12	MW-6	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No

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29/03/12 02/08/12	MW-6	Conductivity	Field analysis	Biannual	0.34	0.33	mS/cm	W0151-01 EPA Trigger Level	1	-52%	No
29/03/12 02/08/12	MW-6	Dissolved Oxygen	Field analysis	Biannual	4.06	3.09	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
29/03/12 02/08/12	MW-6	Level, Water	Field analysis	Biannual	11.87	11.84	mOD	W0151-01 EPA Trigger Level	N/A	1%	No
29/03/12 02/08/12	MW-6	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	pH	Field analysis	Biannual	7.9	7.75	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
29/03/12 02/08/12	MW-6	Temperature	Field analysis	Biannual	14.7	13.60	°C	W0151-01 EPA Trigger Level	N/A	13%	No
29/03/12 02/08/12	MW-6	Alkalinity, Total	Lab analysis	Biannual	134	134.00	mg/l	W0151-01 EPA Trigger Level	N/A	-621%	No
29/03/12 02/08/12	MW-6	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-192%	No
29/03/12 02/08/12	MW-6	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-6	Calcium	Lab analysis	Biannual	44.6	44.60	mg/l	W0151-01 EPA Trigger Level	N/A	-32%	No
29/03/12 02/08/12	MW-6	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Coliforms, Faecal	Lab analysis	Biannual	12	12.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	25%	No
29/03/12 02/08/12	MW-6	Coliforms, Total	Lab analysis	Biannual	15	15.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	40%	No
29/03/12 02/08/12	MW-6	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-6	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

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29/03/12 02/08/12	MW-6	Lead	Lab analysis	Biannual	0.05	0.05	mg/l	W0151-01 EPA Trigger Level	N/A	90%	No
29/03/12 02/08/12	MW-6	Magnesium	Lab analysis	Biannual	3	3.00	mg/l	W0151-01 EPA Trigger Level	N/A	-203%	No
29/03/12 02/08/12	MW-6	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Orthophosphates	Lab analysis	Biannual	0.39	0.39	mg/l	W0151-01 EPA Trigger Level	N/A	-59%	No
29/03/12 02/08/12	MW-6	Phosphorous, Total	Lab analysis	Biannual	0.201	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	-32%	No
29/03/12 02/08/12	MW-6	Potassium	Lab analysis	Biannual	15	15.00	mg/l	W0151-01 EPA Trigger Level	N/A	-97%	No
29/03/12 02/08/12	MW-6	Residue on Evaporation	Lab analysis	Biannual	240	240.00	mg/l	W0151-01 EPA Trigger Level	N/A	-34%	No
29/03/12 02/08/12	MW-6	Sodium	Lab analysis	Biannual	11.7	11.70	mg/l	W0151-01 EPA Trigger Level	80	-115%	No
29/03/12 02/08/12	MW-6	Total Oxidized Nitrogen	Lab analysis	Biannual	0.8	0.80	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-6	Zinc	Lab analysis	Biannual	0.008	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	38%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-14	Ammoniacal Nitrogen	Lab analysis	Biannual	0.04	0.04	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-43%	No
29/03/12 02/08/12	MW-14	Chloride	Lab analysis	Biannual	41.2	39.80	mg/l	W0151-01 EPA Trigger Level	70	-7%	No
29/03/12 02/08/12	MW-14	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-14	Sulphate	Lab analysis	Biannual	1.35	0.89	mg/l	W0151-01 EPA Trigger Level	140	-5%	No

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29/03/12 02/08/12	MW-14	Total Organic Carbon	Lab analysis	Biannual	7	5.50	mg/l	W0151-01 EPA Trigger Level	50	-27%	No
29/03/12 02/08/12	MW-14	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Conductivity	Field analysis	Biannual	0.22	0.21	mS/cm	W0151-01 EPA Trigger Level	1	0%	No
29/03/12 02/08/12	MW-14	Dissolved Oxygen	Field analysis	Biannual	1.55	1.30	mg/l	W0151-01 EPA Trigger Level	N/A	-62%	No
29/03/12 02/08/12	MW-14	Level, Water	Field analysis	Biannual	11.92	11.88	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-14	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	pH	Field analysis	Biannual	8.5	8.15	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
29/03/12 02/08/12	MW-14	Temperature	Field analysis	Biannual	14.7	13.45	°C	W0151-01 EPA Trigger Level	N/A	5%	No
29/03/12 02/08/12	MW-14	Alkalinity, Total	Lab analysis	Biannual	38	38.00	mg/l	W0151-01 EPA Trigger Level	N/A	-2258%	No
29/03/12 02/08/12	MW-14	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-92%	No
29/03/12 02/08/12	MW-14	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-14	Calcium	Lab analysis	Biannual	6	6.00	mg/l	W0151-01 EPA Trigger Level	N/A	-17%	No
29/03/12 02/08/12	MW-14	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Coliforms, Total	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-14	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-14	Fluoride	Lab analysis	Biannual	1.4	1.40	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
29/03/12 02/08/12	MW-14	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Magnesium	Lab analysis	Biannual	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	-50%	No
29/03/12 02/08/12	MW-14	Manganese	Lab analysis	Biannual	0.004	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-75%	No
29/03/12 02/08/12	MW-14	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Phosphorous, Total	Lab analysis	Biannual	0.038	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Potassium	Lab analysis	Biannual	1.4	1.40	mg/l	W0151-01 EPA Trigger Level	N/A	-14%	No
29/03/12 02/08/12	MW-14	Residue on Evaporation	Lab analysis	Biannual	122	122.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Sodium	Lab analysis	Biannual	33.2	33.20	mg/l	W0151-01 EPA Trigger Level	80	-8%	No
29/03/12 02/08/12	MW-14	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-14	Zinc	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-80%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-16	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-67%	No
29/03/12 02/08/12	MW-16	Chloride	Lab analysis	Biannual	46.6	45.25	mg/l	W0151-01 EPA Trigger Level	70	-2%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-16	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-16	Sulphate	Lab analysis	Biannual	5.15	5.14	mg/l	W0151-01 EPA Trigger Level	140	-66%	No
29/03/12 02/08/12	MW-16	Total Organic Carbon	Lab analysis	Biannual	9	7.00	mg/l	W0151-01 EPA Trigger Level	50	29%	No
29/03/12 02/08/12	MW-16	Colour	Field analysis	Biannual	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Conductivity	Field analysis	Biannual	0.31	0.31	mS/cm	W0151-01 EPA Trigger Level	1	-16%	No
29/03/12 02/08/12	MW-16	Dissolved Oxygen	Field analysis	Biannual	3.81	2.09	mg/l	W0151-01 EPA Trigger Level	N/A	54%	No
29/03/12 02/08/12	MW-16	Level, Water	Field analysis	Biannual	11.31	11.30	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-16	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	pH	Field analysis	Biannual	8.2	8.15	pH	W0151-01 EPA Trigger Level	6<pH<9	2%	No
29/03/12 02/08/12	MW-16	Temperature	Field analysis	Biannual	17.5	15.20	°C	W0151-01 EPA Trigger Level	N/A	16%	No
29/03/12 02/08/12	MW-16	Alkalinity, Total	Lab analysis	Biannual	86	86.00	mg/l	W0151-01 EPA Trigger Level	N/A	-995%	No
29/03/12 02/08/12	MW-16	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-92%	No
29/03/12 02/08/12	MW-16	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-16	Calcium	Lab analysis	Biannual	19.4	19.40	mg/l	W0151-01 EPA Trigger Level	N/A	-44%	No
29/03/12 02/08/12	MW-16	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Coliforms, Faecal	Lab analysis	Biannual	63	63.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-16	Coliforms, Total	Lab analysis	Biannual	94	94.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-16	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-16	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Magnesium	Lab analysis	Biannual	5.4	5.40	mg/l	W0151-01 EPA Trigger Level	N/A	-56%	No
29/03/12 02/08/12	MW-16	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Orthophosphates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Phosphorous, Total	Lab analysis	Biannual	0.025	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	-16%	No
29/03/12 02/08/12	MW-16	Potassium	Lab analysis	Biannual	2.1	2.10	mg/l	W0151-01 EPA Trigger Level	N/A	-14%	No
29/03/12 02/08/12	MW-16	Residue on Evaporation	Lab analysis	Biannual	254	254.00	mg/l	W0151-01 EPA Trigger Level	N/A	24%	No
29/03/12 02/08/12	MW-16	Sodium	Lab analysis	Biannual	33.6	33.60	mg/l	W0151-01 EPA Trigger Level	80	-1%	No
29/03/12 02/08/12	MW-16	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.20	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-16	Zinc	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
					0	0.00				0%	

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-17	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-17	Chloride	Lab analysis	Biannual	39	38.05	mg/l	W0151-01 EPA Trigger Level	70	-1%	No
29/03/12 02/08/12	MW-17	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-17	Sulphate	Lab analysis	Biannual	122.9	111.96	mg/l	W0151-01 EPA Trigger Level	140	17%	No
29/03/12 02/08/12	MW-17	Total Organic Carbon	Lab analysis	Biannual	7	4.50	mg/l	W0151-01 EPA Trigger Level	50	0%	No
29/03/12 02/08/12	MW-17	Colour	Field analysis	Biannual	Brown	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Conductivity	Field analysis	Biannual	0.99	0.96	mS/cm	W0151-01 EPA Trigger Level	1	-4%	No
29/03/12 02/08/12	MW-17	Dissolved Oxygen	Field analysis	Biannual	3.33	2.18	mg/l	W0151-01 EPA Trigger Level	N/A	36%	No
29/03/12 02/08/12	MW-17	Level, Water	Field analysis	Biannual	11.25	11.22	mOD	W0151-01 EPA Trigger Level	N/A	2%	No
29/03/12 02/08/12	MW-17	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	pH	Field analysis	Biannual	7.1	7.05	pH	W0151-01 EPA Trigger Level	6<pH<9	-1%	No
29/03/12 02/08/12	MW-17	Temperature	Field analysis	Biannual	19.1	15.65	°C	W0151-01 EPA Trigger Level	N/A	17%	No
29/03/12 02/08/12	MW-17	Alkalinity, Total	Lab analysis	Biannual	250	250.00	mg/l	W0151-01 EPA Trigger Level	N/A	-303%	No
29/03/12 02/08/12	MW-17	Boron	Lab analysis	Biannual	0.058	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	7%	No
29/03/12 02/08/12	MW-17	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 02/08/12	MW-17	Calcium	Lab analysis	Biannual	171.1	171.10	mg/l	W0151-01 EPA Trigger Level	N/A	9%	No
29/03/12 02/08/12	MW-17	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-17	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	#DIV/0!	No
29/03/12 02/08/12	MW-17	Coliforms, Total	Lab analysis	Biannual	20	20.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	100%	No
29/03/12 02/08/12	MW-17	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-17	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Magnesium	Lab analysis	Biannual	18.2	18.20	mg/l	W0151-01 EPA Trigger Level	N/A	-16%	No
29/03/12 02/08/12	MW-17	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Orthophosph ates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-17	Phosphorou s, Total	Lab analysis	Biannual	0.021	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	76%	No
29/03/12 02/08/12	MW-17	Potassium	Lab analysis	Biannual	6.2	6.20	mg/l	W0151-01 EPA Trigger Level	N/A	-84%	No
29/03/12 02/08/12	MW-17	Residue on Evaporation	Lab analysis	Biannual	724	724.00	mg/l	W0151-01 EPA Trigger Level	N/A	-13%	No
29/03/12 02/08/12	MW-17	Sodium	Lab analysis	Biannual	27.2	27.20	mg/l	W0151-01 EPA Trigger Level	80	-17%	No
29/03/12 02/08/12	MW-17	Total Oxidized Nitrogen	Lab analysis	Biannual	1.2	1.20	mg/l	W0151-01 EPA Trigger Level	N/A	-925%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-17	Zinc	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-20	Ammoniacal Nitrogen	Lab analysis	Biannual	5.5	1.85	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	97%	No
29/03/12 02/08/12	MW-20	Chloride	Lab analysis	Biannual	79.7	49.63	mg/l	W0151-01 EPA Trigger Level	70	24%	No
29/03/12 02/08/12	MW-20	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-20	Sulphate	Lab analysis	Biannual	100.87	75.02	mg/l	W0151-01 EPA Trigger Level	140	-23%	No
29/03/12 02/08/12	MW-20	Total Organic Carbon	Lab analysis	Biannual	8	6.50	mg/l	W0151-01 EPA Trigger Level	50	15%	No
29/03/12 02/08/12	MW-20	Colour	Field analysis	Biannual	Brown	Cloudy (red)	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Conductivity	Field analysis	Biannual	1.08	0.98	mS/cm	W0151-01 EPA Trigger Level	1	4%	No
29/03/12 02/08/12	MW-20	Dissolved Oxygen	Field analysis	Biannual	3.85	2.73	mg/l	W0151-01 EPA Trigger Level	N/A	58%	No
29/03/12 02/08/12	MW-20	Level, Water	Field analysis	Biannual	15.02	13.03	mOD	W0151-01 EPA Trigger Level	N/A	16%	No
29/03/12 02/08/12	MW-20	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	pH	Field analysis	Biannual	7.4	7.20	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
29/03/12 02/08/12	MW-20	Temperature	Field analysis	Biannual	14.7	8.36	°C	W0151-01 EPA Trigger Level	N/A	-64%	No
29/03/12 02/08/12	MW-20	Alkalinity, Total	Lab analysis	Biannual	108	108.00	mg/l	W0151-01 EPA Trigger Level	N/A	-494%	No
29/03/12 02/08/12	MW-20	Boron	Lab analysis	Biannual	0.068	0.05	mg/l	W0151-01 EPA Trigger Level	N/A	-57%	No
29/03/12 02/08/12	MW-20	Cadmium	Lab analysis	Biannual	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	-67%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-20	Calcium	Lab analysis	Biannual	165	156.75	mg/l	W0151-01 EPA Trigger Level	N/A	-3%	No
29/03/12 02/08/12	MW-20	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Coliforms, Faecal	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Coliforms, Total	Lab analysis	Biannual	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Copper	Lab analysis	Biannual	0.007	0.00	mg/l	W0151-01 EPA Trigger Level	0.5	-46%	No
29/03/12 02/08/12	MW-20	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	40%	No
29/03/12 02/08/12	MW-20	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-20	Lead	Lab analysis	Biannual	0.005	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-82%	No
29/03/12 02/08/12	MW-20	Magnesium	Lab analysis	Biannual	19.9	15.05	mg/l	W0151-01 EPA Trigger Level	N/A	-41%	No
29/03/12 02/08/12	MW-20	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-33%	No
29/03/12 02/08/12	MW-20	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-90%	No
29/03/12 02/08/12	MW-20	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	-60%	No
29/03/12 02/08/12	MW-20	Orthophosp hates	Lab analysis	Biannual	0.06	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-20	Phosphorou s, Total	Lab analysis	Biannual	0.024	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-213%	No
29/03/12 02/08/12	MW-20	Potassium	Lab analysis	Biannual	7.26	5.33	mg/l	W0151-01 EPA Trigger Level	N/A	-40%	No
29/03/12 02/08/12	MW-20	Residue on Evaporation	Lab analysis	Biannual	807	807.00	mg/l	W0151-01 EPA Trigger Level	N/A	-28%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-20	Sodium	Lab analysis	Biannual	33.5	30.50	mg/l	W0151-01 EPA Trigger Level	80	-25%	No
29/03/12 02/08/12	MW-20	Total Oxidized Nitrogen	Lab analysis	Biannual	14.3	8.40	mg/l	W0151-01 EPA Trigger Level	N/A	73%	No
29/03/12 02/08/12	MW-20	Zinc	Lab analysis	Biannual	0.0077	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	44%	No
					0	0.00				0%	
29/03/12 02/08/12	MW-22	Ammoniacal Nitrogen	Lab analysis	Biannual	0.09	0.06	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Chloride	Lab analysis	Biannual	96.9	92.20	mg/l	W0151-01 EPA Trigger Level	70	-48%	No
29/03/12 02/08/12	MW-22	Phenols, Total	Lab analysis	Biannual	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 02/08/12	MW-22	Sulphate	Lab analysis	Biannual	16.01	15.75	mg/l	W0151-01 EPA Trigger Level	140	-24%	No
29/03/12 02/08/12	MW-22	Total Organic Carbon	Lab analysis	Biannual	3	3.00	mg/l	W0151-01 EPA Trigger Level	50	-50%	No
29/03/12 02/08/12	MW-22	Colour	Field analysis	Biannual	Red/brown	Cloudy (red)	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Conductivity	Field analysis	Biannual	1.08	1.03	mS/cm	W0151-01 EPA Trigger Level	1	-18%	No
29/03/12 02/08/12	MW-22	Dissolved Oxygen	Field analysis	Biannual	3.85	2.73	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Level, Water	Field analysis	Biannual	15.02	14.84	mOD	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Odour	Field analysis	Biannual	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	pH	Field analysis	Biannual	7.4	7.30	pH	W0151-01 EPA Trigger Level	6<pH<9	1%	No
29/03/12 02/08/12	MW-22	Temperature	Field analysis	Biannual	18.9	16.80	°C	W0151-01 EPA Trigger Level	N/A	22%	No
29/03/12 02/08/12	MW-22	Alkalinity, Total	Lab analysis	Biannual	170	170.00	mg/l	W0151-01 EPA Trigger Level	N/A	-511%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-22	Boron	Lab analysis	Biannual	0.012	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-75%	No
29/03/12 02/08/12	MW-22	Cadmium	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	0.004	90%	No
29/03/12 02/08/12	MW-22	Calcium	Lab analysis	Biannual	162.7	162.70	mg/l	W0151-01 EPA Trigger Level	N/A	3%	No
29/03/12 02/08/12	MW-22	Chromium, Total	Lab analysis	Biannual	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Coliforms, Faecal	Lab analysis	Biannual	15	15.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-1253%	No
29/03/12 02/08/12	MW-22	Coliforms, Total	Lab analysis	Biannual	6	6.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	-3283%	No
29/03/12 02/08/12	MW-22	Copper	Lab analysis	Biannual	0.007	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	0%	No
29/03/12 02/08/12	MW-22	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Fluoride	Lab analysis	Biannual	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Lead	Lab analysis	Biannual	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Magnesium	Lab analysis	Biannual	8.7	8.70	mg/l	W0151-01 EPA Trigger Level	N/A	-22%	No
29/03/12 02/08/12	MW-22	Manganese	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Mercury	Lab analysis	Biannual	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Nickel	Lab analysis	Biannual	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Orthophosp hates	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 02/08/12	MW-22	Phosphorou s, Total	Lab analysis	Biannual	0.022	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	-18%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 02/08/12	MW-22	Potassium	Lab analysis	Biannual	1.1	1.10	mg/l	W0151-01 EPA Trigger Level	N/A	-27%	No
29/03/12 02/08/12	MW-22	Residue on Evaporation	Lab analysis	Biannual	837	837.00	mg/l	W0151-01 EPA Trigger Level	N/A	-4%	No
29/03/12 02/08/12	MW-22	Sodium	Lab analysis	Biannual	71.2	71.20	mg/l	W0151-01 EPA Trigger Level	80	-39%	No
29/03/12 02/08/12	MW-22	Total Oxidized Nitrogen	Lab analysis	Biannual	7.3	7.30	mg/l	W0151-01 EPA Trigger Level	N/A	32%	No
29/03/12 02/08/12	MW-22	Zinc	Lab analysis	Biannual	0.003	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
					0	0.00				0%	
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.08	0.05	mg/l NH ₄ -N	W0151-01 EPA Trigger Level	N/A	-18%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Chloride	Lab analysis	Quarterly	36.9	29.87	mg/l	W0151-01 EPA Trigger Level	70	-32%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Phenols, Total	Lab analysis	Quarterly	0.1	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	-25%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Sulphate	Lab analysis	Quarterly	86.14	73.06	mg/l	W0151-01 EPA Trigger Level	140	-84%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Total Organic Carbon	Lab analysis	Quarterly	5	3.33	mg/l	W0151-01 EPA Trigger Level	50	-80%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Colour	Field analysis	Quarterly	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Conductivity	Field analysis	Quarterly	0.66	0.63	mS/cm	W0151-01 EPA Trigger Level	1	-18%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Dissolved Oxygen	Field analysis	Quarterly	10	6.18	mg/l	W0151-01 EPA Trigger Level	N/A	31%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	pH	Field analysis	Quarterly	7.7	7.60	pH	W0151-01 EPA Trigger Level	6<pH<9	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Temperature	Field analysis	Quarterly	15.9	15.37	°C	W0151-01 EPA Trigger Level	N/A	12%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Boron	Lab analysis	Quarterly	0.014	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	-243%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Cadmium	Lab analysis	Quarterly	0.0005	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Calcium	Lab analysis	Quarterly	104.1	104.10	mg/l	W0151-01 EPA Trigger Level	N/A	-15%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Chromium, Total	Lab analysis	Quarterly	0.0015	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Coliforms, Faecal	Lab analysis	Quarterly	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Coliforms, Total	Lab analysis	Quarterly	0	0.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Copper	Lab analysis	Quarterly	0.191	0.19	mg/l	W0151-01 EPA Trigger Level	0.5	36%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Fluoride	Lab analysis	Quarterly	0.3	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Lead	Lab analysis	Quarterly	0.005	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Magnesium	Lab analysis	Quarterly	6.9	6.90	mg/l	W0151-01 EPA Trigger Level	N/A	-26%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Manganese	Lab analysis	Quarterly	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Mercury	Lab analysis	Quarterly	0.001	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Nickel	Lab analysis	Quarterly	0.002	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	0%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Phosphorous, Total	Lab analysis	Quarterly	0.039	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	38%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Potassium	Lab analysis	Quarterly	0.9	0.90	mg/l	W0151-01 EPA Trigger Level	N/A	-56%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Residue on Evaporation	Lab analysis	Quarterly	417	417.00	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Sodium	Lab analysis	Quarterly	23	23.00	mg/l	W0151-01 EPA Trigger Level	80	-26%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Total Alkalinity	Lab analysis	Quarterly	174	174.00	mg/l	W0151-01 EPA Trigger Level	N/A	-484%	No

Groundwater/Soil monitoring template				Lic No:	W0151-01	Year	2012				
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Total Oxidized Nitrogen	Lab analysis	Quarterly	2.3	2.30	mg/l	W0151-01 EPA Trigger Level	N/A	39%	No
29/03/12 20/06/12 02/08/12 12/12/12	PW-3	Zinc	Lab analysis	Quarterly	0.063	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	-8%	No

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

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

[Groundwater regulations](#)
[Surface water EQS](#)
[GTV's](#)

[Drinking water \(public supply\) standards](#)

Table 3: Soil results

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

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

Environmental Liabilities template

Lic No:

W0151-01

Year

2012

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

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

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0151-01	Year	2012
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	Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

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

Noise monitoring summary report Lic No: W0151-01 Year 2012

- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? [Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
26/06/2012	10:27 - 10:57		NMP5	68	53	72	92	No	SELECT	Results in excess of the daytime noise criterion (of 55dB LAeq (30 Minutes)) related to the dominant noise source during the measurement, i.e. passing traffic on the local road (R132) network.	Yes
26/06/2012	12:46 - 13:16		NMP5	67	51	71	80	No			Yes
26/06/2012	15:48 - 16:18		NMP5	67	54	70	86	No			Yes
26/06/2012	09:15 - 09:45		NMP7	57	47	53	86	No			Yes
26/06/2012	11:37 - 12:07		NMP7	50	43	50	78	No			Yes
26/06/2012	14:03 - 14:33		NMP7	54	48	55	77	No			Yes
26/06/2012	09:50 - 10:20		NMP8	47	43	48	65	No			Yes
26/06/2012	12:12 - 12:42		NMP8	54	39	51	78	No			Yes
26/06/2012	14:38 - 15:08		NMP8	50	43	49	76	No			Yes
26/06/2012	11:02 - 11:32		NMP13	59	51	62	74	No			Yes
26/06/2012	13:20 - 13:50		NMP13	57	49	60	68	No			Yes
26/06/2012	15:48 - 16:18		NMP13	59	53	62	69	No			Yes

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

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

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

		Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	No formal audit completed; ongoing monitoring and management of energy use by licensee.
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	no
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	SELECT not applicable

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (CMN)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* where consumption of energy can be 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

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

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

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

Resource Usage/Energy efficiency summary	Lic No:	W0151-01	Year	2012
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Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

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

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

WASTE SUMMARY	Lic No:	W0151-01	Year	2012
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

1 Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

Additional Information

Yes	
-----	--

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

No	
----	--

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

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)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWG code European Waste Catalogue EWG codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which European Waste Catalogue EWG codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Increase over previous year +/- %	Reason for reduction/increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
750000	170504	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	soil & stones	11,176.00	58,976.00	-81%	market demand	0%	R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials	0	

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

SELECT	
SELECT	
SELECT	

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

SELECT	
SELECT	
SELECT	

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
inert waste	738,000			all incoming waste is recovered

WASTE SUMMARY		Lic No:	W0151-01	Year	2012
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Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8	2003	Not applicable	Yes	Private	Inert	subject to filling	No	No	No				

Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

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

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

Table 5 Capping-Landfill only

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

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

No

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

SELECT

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

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

Table 7 Landfill Gas-Landfill only

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

AER Returns Workbook

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

Parent Company Name	Murphy Environmental Hollywood Limited
Facility Name	Murphy Concrete Manufacturing Ltd
PRTR Identification Number	W0151
Licence Number	W0151-01

Waste or IPPC Classes of Activity

No.	class_name
4.4	Recycling or reclamation of other inorganic materials.
3.1	Deposit on, in or under land (including landfill).
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
Address 1	Sarsfieldtown
Address 2	Gormanstown
Address 3	Co. Meath
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.25153 53.654
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Louise O'Donnell
AER Returns Contact Email Address	louise.odonnell@pateltonra.com
AER Returns Contact Position	Environmental Consultant
AER Returns Contact Telephone Number	01 8020523
AER Returns Contact Mobile Phone Number	086 8333724
AER Returns Contact Fax Number	01 8020525
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	4
User Feedback/Comments	The parent company name is 'Murphy Concrete Manufacturing Ltd.'. The facility name is 'Murphy Environmental Gormanston'.
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
5(d)	Landfills
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	No
Have you been granted an exemption ?	
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#: W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151-01 PRTR 2012.xls | Return Year : 2012 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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

* 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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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

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

Additional Data Requested from Landfill operators

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

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

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR#: W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151-01 PRTR 2012.xls | Return Year : 2012 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151-01 PRT

05/04/2013 16:31

SECTION A : PRTR POLLUTANTS

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

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
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# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151-01 PRTR 2012.xls | Return Year : 2012 |

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SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Ltd | Filename : W0151-01 PRTR 2012.xls | Return Year : 2012 |

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Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Address of Next Destination Facility	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)
						Non	Non		Non			
						M/C/E	Method Used		Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer		
Within the Country	17 05 04	No	11176.0	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Onsite of generati	Murphy Environmental,W0151-01	Sarsfieldstown,Gormanston, Co. Meath,.,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](#)