

Facility Information Summary	
AER Reporting Year	2012
Licence Register Number	W0022-01
Name of site	East Cork Landfill
Site Location	Rossmore, Carrigtwohill, Co. Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	8.25588E 51.8851N
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 <b>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.</b>	<p>East Cork Landfill has been closed since February 2007. Final Capping took place in 2008 and was completed in 2009. The environmental performance of the facility has continued to improve in comparison with previous years. No complaints were registered in 2012. The gas extraction system has continued to perform with the enclosed flare burning off the gas generated. Minor exceedances have again been measured in the perimeter gas wells but are explained by the estuarine conditions and limestone bedrock that account for naturally occurring CO<sub>2</sub> and CH<sub>4</sub>. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with no large landfill compacting plant from the site. Overall the site has been compliant with its Licence.</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.

Signature	15/04/2013
	Date

<b>AIR-summary template</b>	Lic No: W0022-01	Year: 2012
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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	
Yes	

<b>Periodic/Non-Continuous Monitoring</b>		
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- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No	
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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](#)

Yes	
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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
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT	361334	m3	yes	MAB	649462	Annual mass load refers to difference between measured burn-off and estimate Gas Model value.
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	429737	m3	yes	ISO 12039:2001	1976082	Annual mass load refers to difference between measured burn-off and estimate Gas Model value.
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	41.4	mg/Nm3	yes	ISO 12039:2001		
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	25.3	mg/Nm3	yes	EN 14792:2005		
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A	SELECT	12.8	mg/Nm3	yes	EN 14792:2005		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

<b>AIR-summary template</b>	Lic No: W0022-01	Year: 2012
<b>Continuous Monitoring</b>		

4 Does your site carry out continuous air emissions monitoring?  Yes

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  Yes

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

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below  No

**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
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3			292		Have recorded the combined annual downtime of both Flares at Youghal Landfill in this section. The emissions totals have been submitted in the above table.
	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:	W0022-01	Year	2012			
<b>Solvent use and management on site</b>								
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				
<b>Table A4: Solvent Management Plan Summary</b>		<a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6						
<b>Total VOC Emission limit value</b>								
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			
<b>Table A5: Solvent Mass Balance summary</b>								
	(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. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
								Total

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

Lic No:

W0022-01

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

SELECT

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

SELECT

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
sw1	upstream		pH	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median vaule for 2012
sw1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	14.1	degrees C	yes	Median vaule for 2012
sw1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	43200	µS/cm @20oC	yes	Median vaule for 2012
sw1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.2	mg/L	yes	Median vaule for 2012
sw1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	12271	mg/L	yes	Median vaule for 2012
sw1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.3	mg/L	yes	Median vaule for 2012
sw1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	2122.5	mg/L	yes	Median vaule for 2012 interference due to saline water
sw1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.501	mg/L	yes	Median vaule for 2012
sw1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	214	mg/L	yes	Median vaule for 2012
3	sw1	upstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	7.2	µg/L	yes	Annual value for 2012
4	sw1	upstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	0.121	µg/L	yes	Annual value for 2012
sw1	upstream		Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	0.2	µg/L	yes	Annual value for 2012
sw1	upstream		CALCIUM			N/A	361	mg/L	yes	Annual value for 2012
sw1	upstream		Iron	Annual	No ELV or trigger levels	N/A	128.3	µg/L	yes	Annual value for 2012
sw1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.4	mg/L	yes	Annual value for 2012
sw1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	846.5	mg/L	yes	Annual value for 2012.Elevation due to
sw1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	22	µg/L	yes	Annual value for 2012
sw1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	0.07	µg/L	yes	Annual value for 2012
sw1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	308.5	mg/L	yes	Annual value for 2012
sw1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	3546.9	mg/L	yes	Annual value for 2012.Sample site at estuary
sw1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.138	mg/L	yes	Annual value for 2012

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0022-01 Year 2012

Station	Location	Parameter	Frequency	Trigger Level	Value	Unit	Compliance	Notes
sw1	upstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	8	µg/L	yes
5	sw1	upstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.05	mg/L
6	sw2	upstream	pH	Quarterly	No ELV or trigger levels	N/A	7.7	pH units
7	sw2	upstream	Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C
8	sw2	upstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	3985	µS/cm @20oC
	sw2	upstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.64	mg/L
	sw2	upstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	8934	mg/L
	sw2	upstream	BOD	Quarterly	No ELV or trigger levels	N/A	3.5	mg/L
	sw2	upstream	COD	Quarterly	No ELV or trigger levels	N/A	2865	mg/L
	sw2	upstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.301	mg/L
	sw2	upstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	216	mg/L
	sw2	upstream	Total Alkalinity	Annual	No ELV or trigger levels	N/A	170.2	mg/L
	sw2	upstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	4.6	µg/L
	sw2	upstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	0.068	µg/L
	sw2	upstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	0.1	µg/L
	sw2	upstream	CALCIUM	Annual	No ELV or trigger levels	N/A	238.9	mg/L
	sw2	upstream	Iron	Annual	No ELV or trigger levels	N/A	153.6	µg/L
	sw2	upstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	0.9	µg/L
	sw2	upstream	Magnesium	Annual	No ELV or trigger levels	N/A	550.8	mg/L
	sw2	upstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	5.9	µg/L
	sw2	upstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	0.05	mg/L
	sw2	upstream	Potassium	Annual	No ELV or trigger levels	N/A	177.4	mg/L
	sw2	upstream	Sulphate	Annual	No ELV or trigger levels	N/A	1606.5	mg/L
	sw2	upstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.138	mg/L
	sw2	upstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	10.3	µg/L
	sw2	upstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.04	mg/L
	sw3	downstream	pH	Quarterly	No ELV or trigger levels	N/A	7.6	pH units
	sw3	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C
	sw3	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	4575	µS/cm @20oC
	sw3	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.8	mg/L
	sw3	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	9197	mg/L
	sw3	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	9.5	mg/L
	sw3	downstream	COD	Quarterly	No ELV or trigger levels	N/A	2535	mg/L
	sw3	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.305	mg/L
	sw3	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	269	mg/L
	sw3	downstream	Total Alkalinity	Annual	No ELV or trigger levels	N/A	138.3	mg/L
	sw3	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	7.4	µg/L
	sw3	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	0.125	µg/L
	sw3	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	0.1	µg/L
	sw3	downstream	CALCIUM	Annual	No ELV or trigger levels	N/A	269.8	mg/L
	sw3	downstream	Iron	Annual	No ELV or trigger levels	N/A	177.2	µg/L
	sw3	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	0.6	µg/L
	sw3	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	778.2	mg/L
	sw3	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	25.2	µg/L
	sw3	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	0.08	mg/L
	sw3	downstream	Potassium	Annual	No ELV or trigger levels	N/A	318.1	mg/L
	sw3	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	3508.2	mg/L
	sw3	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.138	mg/L

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0022-01		Year	2012		
sw3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	0.3	µg/L	yes	Annual value for 2012
sw3	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.06	mg/L	yes	Annual value for 2012

**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**
- 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" type units and mobile bunds)
  - How many bunds are on site?
  - How many of these bunds have been tested within the required test schedule?
  - How many mobile bunds are on site?
  - Are the mobile bunds included in the bund test schedule?
  - How many of these mobile bunds have been tested within the required test schedule?
  - How many sumps on site are included in the integrity test schedule?
  - How many of these sumps are included in the integrity test schedule?
  - Please list any sump integrity failures in table B1
  - Do all sumps and chambers have high level liquid alarms?
  - If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	
3 years	
No	
3	
3	
0	
No	
0	
0	
0	
N/A	
N/A	

**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)
Leachate Lagoon	reinforced concrete		leachate	1400	1000	Structural assessment		Nov-08	Yes	Pass		SELECT	2013	
Surfacewater Lagoon	reinforced concrete		surfacewater	10000	7500	Structural assessment		Nov-08	Yes	Pass			2013	
Surfacewater Lagoon	reinforced concrete		surfacewater	2500	2000	Structural assessment		Nov-08	Yes	Pass		SELECT	2013	

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

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

[bundling and storage guidelines](#)

- Are channels/transfer systems to remote containment systems tested?
- Are channels/transfer systems compliant in both integrity and available volume?

Yes	
SELECT	N/A
SELECT	N/A

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

SELECT	N/A
SELECT	N/A

**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



<b>Groundwater/Soil monitoring template</b>	Lic No:	W0022-01	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
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A
7 Please specify the proposed time frame for the remediation strategy	N/A
8 Is there a licence condition to carry out/update ELRA for the site?	N/A
9 Has any type of risk assessment been carried out for the site?	N/A
10 Has a Conceptual Site Model been developed for the site?	N/A
11 Have potential receptors been identified on and off site?	N/A
12 Is there evidence that contamination is migrating offsite?	N/A

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTVs*	SW EQS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	BH4	pH	meter	Quarterly	7.07	6.87	SELECT		9.5	1.39%-	no
	BH4	Temp	meter	Quarterly	19.1	14.1	SELECT			32.39	no
	BH4	Elec.Conductivity	meter	Quarterly	28.3	20.3	SELECT		1000	99.81%-	no
	BH4	Chlorides	titration	Quarterly	2584	1749			250	72%	no
	BH4	Ammoniacal Nitrogen	ise meter	Quarterly /Monthly	2.51	0.27	mg/l		0.02	6.82%-	no
	BH4	Iron		Annual	389.6	389.6	ug/l		1		no
	BH4	TON		Quarterly	0.99	0.199	mg/l			70.09%-	no
	BH4	TOC	Hach	Quarterly	130	19.8	mg/l			75.38%-	no
Annual	BH4	Cadmium		Annual	0.4	0.4	ug/l		0.005mg/l		no
	BH4	Chromium (total)		Annual	7.4	7.4	ug/l		0.03mg/l		no
	BH4	Copper		Annual	0.032	0.032	ug/l		0.03mg/l		no
	BH4	Cyanide (Total)		Annual	<10	<10	ug/l		0.01mg/l		no
	BH4	Lead		Annual	<0.3	<0.3	ug/l		0.01mg/l		no
	BH4	Magnesium		Annual	258.2	258.2	mg/l				no
	BH4	Manganese		Annual	1090.9	1090.9	ug/l		0.3mg/l		no
	BH4	Mercury		Annual	0.02	0.02	ug/l		0.001mg/l		no
	BH4	Potassium		Quarterly	234.6	115.2	mg/l		5mg/l		112% no
	BH5	Sodium		Quarterly	6625.3	5160.3					344% no
	BH4	Sulphate		Annual	498.9	498.9	mg/l		200mg/l		no
	BH4	Total Alkalinity		Annual	339.7	339.7	mg/l				no
	BH4	Total Phosphorus		Annual	0.34	0.34	mg/l				no
	BH4	Phenols		Annual	<1.0	<1.0	ug/l		0.5ug/l		no
	BH4	Acenaphthylene		Annual	<1.0	<1.0	ug/l				no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012		
BH4	Anthracene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzene		Annual	<1.0	<1.0	ug/l	10ug/l	no
BH4	Bromodichloromethane		Annual	<1.0	<1.0	ug/l		no
BH4	Bromoform		Annual	<1.0	<1.0	ug/l	12ug/l	no
BH4	Chloroform		Annual	<1.0	<1.0	ug/l	12ug/l	no
BH4	Chrysene		Annual	<1.0	<1.0	ug/l		no
BH4	Dibromochloromethane		Annual	<1.0	<1.0	ug/l		no
BH4	Fluoranthene		Annual	<1.0	<1.0	ug/l		no
BH4	Fluorene		Annual	<1.0	<1.0	ug/l		no
BH4	Naphthalene		Annual	<2.0	<2.0	ug/l		no
BH4	Dibromochloromethane		Annual	<1.0	<1.0	ug/l		no
BH4	Pentachlorophenol		Annual	<1.0	<1.0	ug/l	2.0ug/l	no
BH4	Phenanthrene		Annual	<1.0	<1.0	ug/l		no
BH4	Pyrene		Annual	<1.0	<1.0	ug/l		no
BH4	Tetrachloroethene		Annual	<0.1	<0.1	ug/l		no
BH4	Trichloroethene		Annual	<1.0	<1.0	ug/l		no
BH4	Hexachlorobenzene		Annual	<1.0	<1.0	ug/l	0.03ug/l	no
BH4	Hexachlorobutadiene		Annual	<0.1	<0.1	ug/l	0.10ug/l	no
BH4	2,4,6-Trichlorophenol		Annual	<1.0	<1.0	ug/l		no
BH4	2,4-Dichlorophenol		Annual	<1.0	<1.0	ug/l		no
BH4	2,4-Dimethylphenol		Annual	<1.0	<1.0	ug/l		no
BH4	2-Chlorophenol		Annual	<1.0	<1.0	ug/l		no
BH4	1,2,4-trichlorobenzene		Annual	<1.0	<1.0	ug/l		no
BH4	1,2-dichlorobenzene		Annual	<1.0	<1.0	ug/l		no
BH4	1,3-dichlorobenzene		Annual	<1.0	<1.0	ug/l		no
BH4	1,4-dichlorobenzene		Annual	<1.0	<1.0	ug/l		no
BH4	2,4,5-Trichlorophenol		Annual	<1.0	<1.0	ug/l		no
BH4	2,4-Dinitrotoluene		Annual	<1.0	<1.0	ug/l		no
BH4	2,6-Dinitrotoluene		Annual	<1.0	<1.0	ug/l		no
BH4	2-Chloronaphthalene		Annual	<1.0	<1.0	ug/l		no
BH4	2-Methylnaphthalene		Annual	<1.0	<1.0	ug/l		no
BH4	2-Methylphenol		Annual	<1.0	<1.0	ug/l		no
BH4	2-Nitrophenol		Annual	<1.0	<1.0	ug/l		no
BH4	4-Bromophenyl Phenyl Ether		Annual	<1.0	<1.0	ug/l		no
BH4	4-Chloro-3-methylphenol		Annual	<1.0	<1.0	ug/l		no
BH4	4-Chlorophenyl phenyl ether		Annual	<1.0	<1.0	ug/l		no
BH4	4-Nitrophenol		Annual	<5.0	<5.0	ug/l		no
BH4	Acenaphthene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzo(a)anthracene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzo(a)pyrene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzo(b)fluoranthene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzo(g,h,i)perylene		Annual	<1.0	<1.0	ug/l		no
BH4	Benzyl Butyl Phthalate		Annual	<1.0	<1.0	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012				
BH4	Bis(2-chloroethoxy)methane	Annual	<1.0	<1.0	ug/l					no
BH4	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l					no
BH4	Bis(2-chloroisopropyl)ether	Annual	<1.0	<1.0	ug/l					no
BH4	Bis(2-ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l					no
BH4	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l					no
BH4	Dibenzofuran	Annual	<1.0	<1.0	ug/l					no
BH4	Diethylphthalate	Annual	<1.0	<1.0	ug/l					no
BH4	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l					no
BH4	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l					no
BH4	Diphenylamine	Annual	<1.0	<1.0	ug/l					no
BH4	Hexachloroethane	Annual	<1.0	<1.0	ug/l					no
BH4	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l					no
BH4	Isophorone	Annual	<1.0	<1.0	ug/l					no
BH4	Nitrobenzene	Annual	<1.0	<1.0	ug/l					no
BH4	n-Nitrosodi-n-propylamine	Annual	<1.0	<1.0	ug/l					no
BH4	Acetone	Annual	<2.0	<2.0	ug/l					no
BH4	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l			no
BH4	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l					no
BH4	Toluene	Annual	<0.5	<0.5	ug/l					no
BH4	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l			no
BH4	Dichlorodifluoromethane	Annual	<1.0	<1.0	ug/l					no
BH4	Chloromethane	Annual	<0.5	<0.5	ug/l					no
BH4	Ethyl Chloride/Chloroethane	Annual	<0.5	<0.5	ug/l					no
BH4	Vinyl Chloride	Annual	<0.5	<0.5	ug/l					no
BH4	Bromomethane	Annual	<0.5	<0.5	ug/l					no
BH4	Trichloromonofluoromethane	Annual	<0.5	<0.5	ug/l					no
BH4	Ethyl Ether/Diethyl Ether	Annual	<0.5	<0.5	ug/l					no
BH4	1,1 Dichloroethene	Annual	<0.5	<0.5	ug/l					no
BH4	Iodomethane/Methyl Iodide	Annual	<0.5	<0.5	ug/l					no
BH4	Carbon Disulphide	Annual	<0.5	<0.5	ug/l					no
BH4	Allyl Chloride	Annual	<0.5	<0.5	ug/l					no
BH4	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<0.5	<0.5	ug/l					no
BH4	Propanenitrile	Annual	<10.	<10.	ug/l					no
BH4	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l					no
BH4	MtBE	Annual	<0.5	<0.5	ug/l					no
BH4	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l					no
BH4	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l					no
BH4	cis-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l					no
BH4	2-Butanone	Annual	<5.0	<5.0	ug/l					no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012			
BH4	Methyl Acrylate		Annual	<0.5	<0.5	ug/l			no
BH4	Bromochloromethane		Annual	<0.5	<0.5	ug/l			no
BH4	Methacrylonitrile		Annual	<5.0	<5.0	ug/l			no
BH4	1,1,1-trichloroethane		Annual	<0.5	<0.5	ug/l			no
BH4	1-Chlorobutane		Annual	<0.5	<0.5	ug/l			no
BH4	Carbon Tetrachloride		Annual	<0.5	<0.5	ug/l			no
BH4	11 Dichloropropene		Annual	<0.5	<0.5	ug/l			no
BH4	1,2 dichloroethane		Annual	<0.5	<0.5	ug/l			no
BH4	1,2-dichloropropane		Annual	<0.5	<0.5	ug/l	10ug/l		no
BH4	Dibromomethane		Annual	<0.5	<0.5	ug/l			no
BH4	Methyl Methacrylate		Annual	<0.5	<0.5	ug/l			no
BH4	13 Dichloropropene,cis		Annual	<2.0	<2.0	ug/l			no
BH4	MIBK/4 Methyl 2 Pentanone		Annual	<2.0	<2.0	ug/l			no
BH4	13 Dichloropropene,trans		Annual	<2.0	<2.0	ug/l			no
BH4	Ethyl Methacrylate		Annual	<2.0	<2.0	ug/l			no
BH4	112 Trichloroethane		Annual	<0.5	<0.5	ug/l			no
BH4	1,3-dichloropropane		Annual	<0.5	<0.5	ug/l			no
BH4	2-Hexanone		Annual	<1.0	<1.0	ug/l			no
BH4	1,2-dibromoethane		Annual	<0.5	<0.5	ug/l			no
BH4	Chlorobenzene		Annual	<0.5	<0.5	ug/l	1.0ug/l		no
BH4	1,1,1,2-tetrachloroethane		Annual	<2.0	<2.0	ug/l			no
BH4	Ethylbenzene		Annual	<0.5	<0.5	ug/l	10ug/l		no
BH4	Xylene P&M		Annual	<0.5	<0.5	ug/l			no
BH4	Styrene		Annual	<0.5	<0.5	ug/l			no
BH4	Isopropylbenzene		Annual	<0.5	<0.5	ug/l			no
BH4	Bromobenzene		Annual	<0.5	<0.5	ug/l			no
BH4	1,1,2,2-tetrachloroethane		Annual	<0.5	<0.5	ug/l			no
BH4	1,2,3-trichloropropane		Annual	<2.0	<2.0	ug/l			no
BH4	Trans 14 Dichloro 2 Butene, tran		Annual	<2.0	<2.0	ug/l			no
BH4	Propylbenzene		Annual	<0.5	<0.5	ug/l			no
BH4	2-chlorotoluene		Annual	<0.5	<0.5	ug/l			no
BH4	4-chlorotoluene		Annual	<0.5	<0.5	ug/l			no
BH4	1,3,5-trimethylbenzene		Annual	<0.5	<0.5	ug/l			no
BH4	Tert Butyl Benzene		Annual	<0.5	<0.5	ug/l			no
BH4	1,2,4-trimethylbenzene		Annual	<0.5	<0.5	ug/l			no
BH4	sec-butylbenzene		Annual	<0.5	<0.5	ug/l			no
BH4	P Isopropyltoluene		Annual	<0.5	<0.5	ug/l			no
BH4	N Butyl Benzene		Annual	<0.5	<0.5	ug/l			no
BH4	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l			no
BH4	1,2,3-trichlorobenzene		Annual	<0.5	<0.5	ug/l			no
BH4	Total Solids		Annual		7954	mg/l			no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012			
	BH4	Total Coliforms	Annual	4600	4600	MPN/100ML			no
	BH4	Faecal Coliforms	Annual	4600	4600	MPN/100ML			no
Quarterly	BH5	pH	Quarterly	7.46	7.23	SELECT		5.90%	no
	BH5	Temp	Quarterly	14	14	SELECT	9.5	7.5%-	no
	BH5	Elec.Conductivity	Quarterly	610	610	SELECT	1000	94%-	no
	BH5	Chlorides	Quarterly	1219	1219		250	177%	no
	BH5	Ammoniacal Nitrogen	Quarterly /Monthly	0.24	0.164	mg/l	0.02	62%-	no
	BH5	Iron	Annual			ug/l	0.02		no
	BH5	TON	Quarterly	1.339	0.759	mg/l		97%-	no
	BH5	TOC	Quarterly	220	220	mg/l		5150%	no
Annual	BH5	Cadmium	Annual	no annual	no annual	ug/l	0.005mg/l		no
	BH5	Chromium (total)	Annual	no annual	no annual	ug/l	0.03mg/l		no
	BH5	Copper	Annual	no annual	no annual	ug/l	0.03mg/l		no
	BH5	Cyanide (Total)	Annual	no annual	no annual	ug/l	0.01mg/l		no
	BH5	Lead	Annual	no annual	no annual	ug/l	0.01mg/l		no
	BH5	Magnesium	Annual	no annual	no annual	mg/l			no
	BH5	Manganese	Annual	no annual	no annual	ug/l	0.3mg/l		no
	BH5	Mercury	Annual	no annual	no annual	ug/l	0.001mg/l		no
	BH5	Potassium	Quarterly	827	416	mg/l	5mg/l	3966%	no
	BH5	Sodium	Quarterly	46	38			58%-	no
	BH5	Sulphate	Annual	no annual	no annual	mg/l			no
	BH5	Total Alkalinity	Annual	no annual	no annual	mg/l			no
	BH5	Total Phosphorus	Annual	no annual	no annual	mg/l			no
	BH5	Phenols	Annual	no annual	no annual	ug/l	0.5ug/l		no
	BH5	Acenaphthylene	Annual	no annual	no annual	ug/l			no
	BH5	Acenaphthylene	Annual	no annual	no annual	ug/l			no
	BH5	Anthracene	Annual	no annual	no annual	ug/l			no
	BH5	Benzene	Annual	no annual	no annual	ug/l			no
	BH5	Bromodichloromethane	Annual	no annual	no annual	ug/l			no
	BH5	Bromoform	Annual	no annual	no annual	ug/l			no
	BH5	Chloroform	Annual	no annual	no annual	ug/l	12ug/l		no
	BH5	Chrysene	Annual	no annual	no annual	ug/l			no
	BH5	Dibromochloromethane	Annual	no annual	no annual	ug/l			no
	BH5	Fluoranthene	Annual	no annual	no annual	ug/l			no
	BH5	Fluorene	Annual	no annual	no annual	ug/l			no
	BH5	Naphthalene	Annual	no annual	no annual	ug/l			no
	BH5	Dibromochloromethane	Annual	no annual	no annual	ug/l			no
	BH5	Pentachlorophenol	Annual	no annual	no annual	ug/l	2.0ug/l		no
	BH5	Phenanthrene	Annual	no annual	no annual	ug/l			no
	BH5	Pyrene	Annual	no annual	no annual	ug/l			no
	BH5	Tetrachloroethene	Annual	no annual	no annual	ug/l			no
	BH5	Trichloroethene	Annual	no annual	no annual	ug/l			no
	BH5	Hexachlorobenzene	Annual	no annual	no annual	ug/l	0.03ug/l		no
	BH5	Hexachlorobutadiene	Annual	no annual	no annual	ug/l	0.10ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012				
BH5	2,4,6-Trichlorophenol		Annual	no annual	no annual	ug/l				no
BH5	2,4-Dichlorophenol		Annual	no annual	no annual	ug/l				no
BH5	2,4-Dimethylphenol		Annual	no annual	no annual	ug/l				no
BH5	2-Chlorophenol		Annual	no annual	no annual	ug/l				no
BH5	1,2,4-trichlorobenzene		Annual	no annual	no annual	ug/l				no
BH5	1,2-dichlorobenzene		Annual	no annual	no annual	ug/l				no
BH5	1,3-dichlorobenzene		Annual	no annual	no annual	ug/l				no
BH5	1,4-dichlorobenzene		Annual	no annual	no annual	ug/l				no
BH5	2,4,5-Trichlorophenol		Annual	no annual	no annual	ug/l				no
BH5	2,4-Dinitrotoluene		Annual	no annual	no annual	ug/l				no
BH5	2,6-Dinitrotoluene		Annual	no annual	no annual	ug/l				no
BH5	2-Chloronaphthalene		Annual	no annual	no annual	ug/l				no
BH5	2-Methylnaphthalene		Annual	no annual	no annual	ug/l				no
BH5	2-Methylphenol		Annual	no annual	no annual	ug/l				no
BH5	2-Nitrophenol		Annual	no annual	no annual	ug/l				no
BH5	4-Bromophenyl Phenyl Ether		Annual	no annual	no annual	ug/l				no
BH5	4-Chloro-3-methylphenol		Annual	no annual	no annual	ug/l				no
BH5	4-Chlorophenyl phenyl ether		Annual	no annual	no annual	ug/l				no
BH5	4-Nitrophenol		Annual	no annual	no annual	ug/l				no
BH5	Acenaphthene		Annual	no annual	no annual	ug/l				no
BH5	Benzo(a)anthracene		Annual	no annual	no annual	ug/l				no
BH5	Benzo(a)pyrene		Annual	no annual	no annual	ug/l				no
BH5	Benzo(b)fluoranthene		Annual	no annual	no annual	ug/l				no
BH5	Benzo(g,h,i)perylene		Annual	no annual	no annual	ug/l				no
BH5	Benzyl Butyl Phthalate		Annual	no annual	no annual	ug/l				no
BH5	Bis(2-chloroethoxy)methane		Annual	no annual	no annual	ug/l				no
BH5	Bis(2-chloroethyl)ether		Annual	no annual	no annual	ug/l				no
BH5	Bis(2-chloroisopropyl)ether		Annual	no annual	no annual	ug/l				no
BH5	Bis(2-ethylhexyl)phthalate		Annual	no annual	no annual	ug/l				no
BH5	Dibenz(a,h)anthracene		Annual	no annual	no annual	ug/l				no
BH5	Dibenzofuran		Annual	no annual	no annual	ug/l				no
BH5	Diethylphthalate		Annual	no annual	no annual	ug/l				no
BH5	di-n-Butylphthalate		Annual	no annual	no annual	ug/l				no
BH5	Di-n-octylphthalate		Annual	no annual	no annual	ug/l				no
BH5	Diphenylamine		Annual	no annual	no annual	ug/l				no
BH5	Hexachloroethane		Annual	no annual	no annual	ug/l				no
BH5	Indeno(1,2,3-c,d)pyrene		Annual	no annual	no annual	ug/l				no
BH5	Isophorone		Annual	no annual	no annual	ug/l				no
BH5	Nitrobenzene		Annual	no annual	no annual	ug/l				no
BH5	n-Nitrosodi-n-propylamine		Annual	no annual	no annual	ug/l				no

Groundwater/Soil monitoring template		Lic No:	W0022-01	Year	2012					
BH5	Acetone		Annual	no annual	no annual	ug/l				no
BH5	Dichloromethane		Annual	no annual	no annual	ug/l				no
BH5	Tetrahydrofuran		Annual	no annual	no annual	ug/l				no
BH5	Toluene		Annual	no annual	no annual	ug/l		10ug/l		no
BH5	Xylene -o		Annual	no annual	no annual	ug/l				no
BH5	Dichlorodifluoromethane		Annual	no annual	no annual	ug/l				no
BH5	Chloromethane		Annual	no annual	no annual	ug/l				no
BH5	Ethyl Chloride/Chloroethane		Annual	no annual	no annual	ug/l				no
BH5	Vinyl Chloride		Annual	no annual	no annual	ug/l				no
BH5	Bromomethane		Annual	no annual	no annual	ug/l				no
BH5	Trichloromonofluoromethane		Annual	no annual	no annual	ug/l				no
BH5	Ethyl Ether/Diethyl Ether		Annual	no annual	no annual	ug/l				no
BH5	1,1 Dichloroethene		Annual	no annual	no annual	ug/l				no
BH5	Iodomethane/Methyl Iodide		Annual	no annual	no annual	ug/l				no
BH5	Carbon Disulphide		Annual	no annual	no annual	ug/l				no
BH5	Allyl Chloride		Annual	no annual	no annual	ug/l				no
BH5	Chlormethyl Cyanide/Chloroacetonitrile		Annual	no annual	no annual	ug/l				no
BH5	Propanenitrile		Annual	no annual	no annual	ug/l				no
BH5	Trans-1,2 Dichloroethene		Annual	no annual	no annual	ug/l				no
BH5	MtBE		Annual	no annual	no annual	ug/l				no
BH5	1,1-dichloroethane		Annual	no annual	no annual	ug/l				no
BH5	2,2-dichloropropane		Annual	no annual	no annual	ug/l				no
BH5	cis-1,2 Dichloroethene		Annual	no annual	no annual	ug/l				no
BH5	2-Butanone		Annual	no annual	no annual	ug/l				no
BH5	Methyl Acrylate		Annual	no annual	no annual	ug/l				no
BH5	Bromochloromethane		Annual	no annual	no annual	ug/l				no
BH5	Methacrylonitrile		Annual	no annual	no annual	ug/l				no
BH5	1,1,1-trichloroethane		Annual	no annual	no annual	ug/l				no
BH5	1-Chlorobutane		Annual	no annual	no annual	ug/l				no
BH5	Carbon Tetrachloride		Annual	no annual	no annual	ug/l				no
BH5	1,1 Dichloropropene		Annual	no annual	no annual	ug/l				no
BH5	1,2 dichloroethane		Annual	no annual	no annual	ug/l				no
BH5	1,2-dichloropropane		Annual	no annual	no annual	ug/l		10ug/l		no
BH5	Dibromomethane		Annual	no annual	no annual	ug/l				no
BH5	Methyl Methacrylate		Annual	no annual	no annual	ug/l				no
BH5	1,3 Dichloropropene,cis		Annual	no annual	no annual	ug/l				no
BH5	MIBK/4 Methyl 2 Pentanone		Annual	no annual	no annual	ug/l				no
BH5	1,3 Dichloropropene,trans		Annual	no annual	no annual	ug/l				no
BH5	Ethyl Methacrylate		Annual	no annual	no annual	ug/l				no
BH5	1,1,1 Trichloroethane		Annual	no annual	no annual	ug/l				no
BH5	1,3-dichloropropane		Annual	no annual	no annual	ug/l				no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012				
BH5	2-Hexanone		Annual	no annual	no annual	ug/l			no	
BH5	1,2-dibromoethane		Annual	no annual	no annual	ug/l			no	
BH5	Chlorobenzene		Annual	no annual	no annual	ug/l		1.0ug/l	no	
BH5	1,1,1,2-tetrachloroethane		Annual	no annual	no annual	ug/l			no	
BH5	Ethylbenzene		Annual	no annual	no annual	ug/l		10ug/l	no	
BH5	Xylene P&M		Annual	no annual	no annual	ug/l			no	
BH5	Styrene		Annual	no annual	no annual	ug/l			no	
BH5	Isopropylbenzene		Annual	no annual	no annual	ug/l			no	
BH5	Bromobenzene		Annual	no annual	no annual	ug/l			no	
BH5	1,1,2,2-tetrachloroethane		Annual	no annual	no annual	ug/l			no	
BH5	1,2,3-trichloropropane		Annual	no annual	no annual	ug/l			no	
BH5	Trans 1,4 Dichloro 2 Butene, tran		Annual	no annual	no annual	ug/l			no	
BH5	Propylbenzene		Annual	no annual	no annual	ug/l			no	
BH5	2-chlorotoluene		Annual	no annual	no annual	ug/l			no	
BH5	4-chlorotoluene		Annual	no annual	no annual	ug/l			no	
BH5	1,3,5-trimethylbenzene		Annual	no annual	no annual	ug/l			no	
BH5	Tert Butyl Benzene		Annual	no annual	no annual	ug/l			no	
BH5	1,2,4-trimethylbenzene		Annual	no annual	no annual	ug/l			no	
BH5	sec-butylbenzene		Annual	no annual	no annual	ug/l			no	
BH5	P Isopropyltoluene		Annual	no annual	no annual	ug/l			no	
BH5	N Butyl Benzene		Annual	no annual	no annual	ug/l			no	
BH5	1,2-dibromo-3-chloropropane		Annual	no annual	no annual	ug/l			no	
BH5	1,2,3-trichlorobenzene		Annual	no annual	no annual	ug/l			no	
BH5	Total Solids		Annual	no annual	no annual	mg/l			no	
BH5	Total Coliforms		Annual	no annual	no annual	MPN/100ML			no	
BH5	Faecal Coliforms		Annual	no annual	no annual	MPN/100ML			no	
Quaterly	BH3	pH	Quaterly	9.09	6.13	SELECT		9.5	12%-	no
	BH3	Temp	Quaterly	21.5	14.1	SELECT			34%	no
	BH3	Elec.Conductivity	Quaterly	8940	8645	SELECT		1000	87%-	no
	BH3	Chlorides	Quaterly	1804	1769			250	13%	no
	BH3	Ammoniacal Nitrogen	Quaterly /Monthly	12.2	7.9	mg/l		0.02NH3	13%	no
	BH3	Iron	Annual	67554.5		ug/l		1.0mg/l		no
	BH3	TON	Quaterly	0.618	0.618	mg/l			0	no
	BH3	TOC	Quaterly	45	19.8	mg/l			45%-	no
Annual	BH3	Cadmium	Annual	0.1	0.1	ug/l		0.005mg/l		no
	BH3	Chromium (total)	Annual	20	20	ug/l		0.03mg/l		no
	BH3	Copper	Annual	0.02	0.02	ug/l		0.03mg/l		no
	BH3	Cyanide (Total)	Annual	<10.0	<10.1	ug/l		0.01mg/l		no
	BH3	Lead	Annual	<0.3	<0.4	ug/l		0.01mg/l		no
	BH3	Magnesium	Annual	131.1	131.1	mg/l				no
	BH3	Manganese	Annual	1768	1768	ug/l		0.3mg/l		no
	BH3	Mercury	Annual	<0.02	<0.03	ug/l		0.001mg/l		no
	BH3	Potassium	Quarterly	54.9	50.5	mg/l		5mg/l	6.8%-	no
	BH3	Sodium	Quarterly	2977	1820				56%	no
	BH3	Sulphate	Annual	76	76	mg/l				no



Groundwater/Soil monitoring template		Lic No:	W0022-01	Year	2012				
BH3	Total Alkalinity	Annual	17.5	17.5	mg/l				no
BH3	Total Phosphorus	Annual	0.02	0.02	mg/l				no
BH3	Phenols	Annual	<1.0	<1.1	ug/l		0.5ug/l		no
BH3	Acenaphthylene	Annual	<1.0	<1.0	ug/l				no
BH3	Acenaphthylene	Annual	<1.0	<1.0	ug/l				no
BH3	Anthracene	Annual	<1.0	<1.0	ug/l				no
BH3	Benzene	Annual	<1.0	<1.0	ug/l		10ug/l		no
BH3	Bromodichloromethane	Annual	<1.0	<1.0	ug/l				no
BH3	Bromoform	Annual	<1.0	<1.0	ug/l				no
BH3	Chloroform	Annual	<1.0	<1.0	ug/l		12ug/l		no
BH3	Chrysene	Annual	<1.0	<1.0	ug/l				no
BH3	Dibromochloromethane	Annual	<1.0	<1.0	ug/l				no
BH3	Fluoranthene	Annual	<1.0	<1.0	ug/l				no
BH3	Fluorene	Annual	<1.0	<1.0	ug/l				no
BH3	Naphthalene	Annual	<2.0	<2.0	ug/l				no
BH3	Dibromochloromethane	Annual	<1.0	<1.0	ug/l				no
BH3	Pentachlorophenol	Annual	<1.0	<1.0	ug/l		2.0ug/l		no
BH3	Phenanthrene	Annual	<1.0	<1.0	ug/l				no
BH3	Pyrene	Annual	<1.0	<1.0	ug/l				no
BH3	Tetrachloroethene	Annual	<0.1	<0.1	ug/l				no
BH3	Trichloroethene	Annual	<1.0	<1.0	ug/l				no
BH3	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l		0.03ug/l		no
BH3	Hexachlorobutadiene	Annual	<0.1	<0.1	ug/l		0.10ug/l		no
BH3	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l				no
BH3	2,4-Dichlorophenol	Annual	<1.0	<1.0	ug/l				no
BH3	2,4-Dimethylphenol	Annual	<1.0	<1.0	ug/l				no
BH3	2-Chlorophenol	Annual	<1.0	<1.0	ug/l				no
BH3	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l		0.40ug/l		no
BH3	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no
BH3	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no
BH3	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l				no
BH3	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l				no
BH3	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l				no
BH3	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l				no
BH3	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l				no
BH3	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l				no
BH3	2-Methylphenol	Annual	<1.0	<1.0	ug/l				no
BH3	2-Nitrophenol	Annual	<1.0	<1.0	ug/l				no
BH3	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l				no
BH3	4-Chloro-3-methylphenol	Annual	<1.0	<1.0	ug/l				no
BH3	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l				no
BH3	4-Nitrophenol	Annual	<5.0	<5.0	ug/l				no
BH3	Acenaphthene	Annual	<1.0	<1.0	ug/l				no
BH3	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l				no

Groundwater/Soil monitoring template		Lic No:	W0022-01	Year	2012				
BH3	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l				no
BH3	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l				no
BH3	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l				no
BH3	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/l				no
BH3	Bis(2-chloroethoxy)methane	Annual	<1.0	<1.0	ug/l				no
BH3	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l				no
BH3	Bis(2-chloroisopropyl)ether	Annual	<1.0	<1.0	ug/l				no
BH3	Bis(2-ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l				no
BH3	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l				no
BH3	Dibenzofuran	Annual	<1.0	<1.0	ug/l				no
BH3	Diethylphthalate	Annual	<1.0	<1.0	ug/l				no
BH3	Di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l				no
BH3	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l				no
BH3	Diphenylamine	Annual	<1.0	<1.0	ug/l				no
BH3	Hexachloroethane	Annual	<1.0	<1.0	ug/l				no
BH3	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l				no
BH3	Isophorone	Annual	<1.0	<1.0	ug/l				no
BH3	Nitrobenzene	Annual	<1.0	<1.0	ug/l				no
BH3	n-Nitrosodi-n-propylamine	Annual	<1.0	<1.0	ug/l				no
BH3	Acetone	Annual	<2.0	<2.0	ug/l				no
BH3	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l		no
BH3	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l				no
BH3	Toluene	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH3	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH3	Dichlorodifluoromethane	Annual	<1.0	<1.0	ug/l				no
BH3	Chloromethane	Annual	<0.5	<0.5	ug/l				no
BH3	Ethyl Chloride/Chloroethane	Annual	<0.5	<0.5	ug/l				no
BH3	Vinyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH3	Bromomethane	Annual	<0.5	<0.5	ug/l				no
BH3	Trichloromonofluoromethane	Annual	<0.5	<0.5	ug/l				no
BH3	Ethyl Ether/Diethyl Ether	Annual	<0.5	<0.5	ug/l				no
BH3	1,1 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH3	Iodomethane/Methyl Iodide	Annual	<0.5	<0.5	ug/l				no
BH3	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH3	Allyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH3	Chloromethyl Cyanide/Chloroacetonitrile	Annual	<0.5	<0.5	ug/l				no
BH3	Propanenitrile	Annual	<10.	<10.	ug/l				no
BH3	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH3	MtBE	Annual	<0.5	<0.5	ug/l				no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012
BH3	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l	no
BH3	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l	no
BH3	cis-12 Dichloroethene	Annual	<0.5	<0.5	ug/l	no
BH3	2-Butanone	Annual	<5.0	<5.0	ug/l	no
BH3	Methyl Acrylate	Annual	<0.5	<0.5	ug/l	no
BH3	Bromochloromethane	Annual	<0.5	<0.5	ug/l	no
BH3	Methacrylonitrile	Annual	<5.0	<5.0	ug/l	no
BH3	1,1,1-trichloroethane	Annual	<0.5	<0.5	ug/l	500ug/l
BH3	1-Chlorobutane	Annual	<0.5	<0.5	ug/l	no
BH3	Carbon Tetrachloride	Annual	<0.5	<0.5	ug/l	no
BH3	11 Dichloropropene	Annual	<0.5	<0.5	ug/l	no
BH3	1,2 dichloroethane	Annual	<0.5	<0.5	ug/l	10ug/l
BH3	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l	no
BH3	Dibromomethane	Annual	<0.5	<0.5	ug/l	no
BH3	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l	no
BH3	13 Dichloropropene,cis	Annual	<2.0	<2.0	ug/l	no
BH3	MIBK/4 Methyl 2 Pentanone	Annual	<2.0	<2.0	ug/l	no
BH3	13 Dichloropropene,trans	Annual	<2.0	<2.0	ug/l	no
BH3	Ethyl Methacrylate	Annual	<2.0	<2.0	ug/l	no
BH3	112 Trichloroethane	Annual	<0.5	<0.5	ug/l	no
BH3	1,3-dichloropropane	Annual	<0.5	<0.5	ug/l	no
BH3	2-Hexanone	Annual	<1.0	<1.0	ug/l	no
BH3	1,2-dibromoethane	Annual	<0.5	<0.5	ug/l	no
BH3	Chlorobenzene	Annual	<0.5	<0.5	ug/l	1.0ug/l
BH3	1,1,1,2-tetrachloroethane	Annual	<2.0	<2.0	ug/l	no
BH3	Ethylbenzene	Annual	<0.5	<0.5	ug/l	10ug/l
BH3	Xylene P&M	Annual	<0.5	<0.5	ug/l	no
BH3	Styrene	Annual	<0.5	<0.5	ug/l	no
BH3	Isopropylbenzene	Annual	<0.5	<0.5	ug/l	no
BH3	Bromobenzene	Annual	<0.5	<0.5	ug/l	no
BH3	1,1,2,2-tetrachloroethane	Annual	<0.5	<0.5	ug/l	no
BH3	1,2,3-trichloropropane	Annual	<2.0	<2.0	ug/l	no
BH3	Trans 14 Dichloro 2 Butene, tran	Annual	<2.0	<2.0	ug/l	no
BH3	Propylbenzene	Annual	<0.5	<0.5	ug/l	no
BH3	2-chlorotoluene	Annual	<0.5	<0.5	ug/l	no
BH3	4-chlorotoluene	Annual	<0.5	<0.5	ug/l	no
BH3	1,3,5-trimethylbenzene	Annual	<0.5	<0.5	ug/l	no
BH3	Tert Butyl Benzene	Annual	<0.5	<0.5	ug/l	no
BH3	1,2,4-trimethylbenzene	Annual	<0.5	<0.5	ug/l	no
BH3	sec-butylbenzene	Annual	<0.5	<0.5	ug/l	no
BH3	P Isopropyltoluene	Annual	<0.5	<0.5	ug/l	no
BH3	N Butyl Benzene	Annual	<0.5	<0.5	ug/l	no

Groundwater/Soil monitoring template				Lic No:	W0022-01	Year	2012
BH3	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l	no
BH3	1,2,3-trichlorobenzene		Annual	<0.5	<0.5	ug/l	no
BH3	Total Solids		Annual	5432	5432	mg/l	no
BH3	Total Coliforms		Annual	43	43	MPN/100ML	no
BH3	Faecal Coliforms		Annual	43	43	MPN/100ML	no

Table 2: Down Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	BH1	pH	METER	Quarterly	7.84	7.09	SELECT		9.5	2.90%	no
	BH1	Temp	METER	Quarterly	24	15.08	SELECT			12.36%	no
	BH1	Elec.Conductivity	METER	Quarterly	9830	3400	SELECT		1000	1236%	no
	BH1	Chlorides	TITRATION	Quarterly	15945	4988			250	0%	no
	BH1	Ammoniacal Nitrogen	ISE METER	Quarterly /Monthly	9.9	6.9	mg/l		0.02	50%-	no
	BH1	Iron		Annual	59.6	59.6	ug/l				no
	BH1	TON		Quarterly	2.52	0.21	mg/l			0	no
	BH1	TOC	HACH	Quarterly	54	14.35	mg/l			154%	no
Annual	BH1	Cadmium		Annual	0.4	0.4	ug/l		0.005mg/l		no
	BH1	Chromium (total)		Annual	1.5	1.5	ug/l		0.03mg/l		no
	BH1	Copper		Annual	0.005	0.005	ug/l		0.03mg/l		no
	BH1	Cyanide (Total)		Annual	<10.00	<10.01	ug/l		0.01mg/l		no
	BH1	Lead		Annual	<0.3	<0.4	ug/l		0.01mg/l		no
	BH1	Magnesium		Annual	44.3	44.3	mg/l				no
	BH1	Manganese		Annual	2107.2	2107.2	ug/l		0.3mg/l		no
	BH1	Mercury		Annual	<0.02	<0.03	ug/l		0.001mg/l		no
	BH1	Potassium		Quarterly	120	64.4	mg/l		5mg/l	17%-	no
	BH1	Sodium		Quarterly	3589	2030				0%	no
	BH1	Sulphate		Annual	160.5	160.5	mg/l		200mg/l		no
	BH1	Total Alkalinity		Annual	401.2	401.2	mg/l				no
	BH1	Total Phosphorus		Annual	0.09	0.09	mg/l				no
	BH1	Phenols		Annual	<1.0	<1.0	ug/l		0.5ug/l		no
	BH1	Acenaphthylene		Annual	<1.0	<1.0	ug/l				no
	BH1	Anthracene		Annual	<1.0	<1.0	ug/l				no
	BH1	Benzene		Annual	<1.0	<1.0	ug/l		10ug/l		no
	BH1	Bromodichloromethane		Annual	<1.0	<1.0	ug/l				no
	BH1	Bromoform		Annual	<1.0	<1.0	ug/l		12ug/l		no
	BH1	Chloroform		Annual	<1.0	<1.0	ug/l		12ug/l		no
	BH1	Chrysene		Annual	<1.0	<1.0	ug/l				no
	BH1	Dibromochloromethane		Annual	<1.0	<1.0	ug/l				no
	BH1	Fluoranthene		Annual	<1.0	<1.0	ug/l				no
	BH1	Fluorene		Annual	<1.0	<1.0	ug/l				no
	BH1	Naphthalene		Annual	<2.0	<2.0	ug/l				no
	BH1	Dibromochloromethane		Annual	<1.0	<1.0	ug/l				no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012	
BH1	Pentachlorophenol	Annual	<1.0	<1.0	ug/l	2.0ug/l	no
BH1	Phenanthrene	Annual	<1.0	<1.0	ug/l		no
BH1	Pyrene	Annual	<1.0	<1.0	ug/l		no
BH1	Tetrachloroethene	Annual	<0.1	<0.1	ug/l		no
BH1	Trichloroethene	Annual	<1.0	<1.0	ug/l		no
BH1	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l	0.03ug/l	no
BH1	Hexachlorobutadiene	Annual	<0.1	<0.1	ug/l	0.10ug/l	no
BH1	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l		no
BH1	2,4-Dichlorophenol	Annual	<<1.0	<1.0	ug/l		no
BH1	2,4-Dimethylphenol	Annual	<1.0	<1.0	ug/l		no
BH1	2-Chlorophenol	Annual	<1.0	<1.0	ug/l		no
BH1	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH1	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH1	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH1	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH1	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l		no
BH1	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
BH1	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
BH1	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l		no
BH1	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l		no
BH1	2-Methylphenol	Annual	<1.0	<1.0	ug/l		no
BH1	2-Nitrophenol	Annual	<1.0	<1.0	ug/l		no
BH1	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l		no
BH1	4-Chloro-3-methylphenol	Annual	<1.0	<1.0	ug/l		no
BH1	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l		no
BH1	4-Nitrophenol	Annual	<5.0	<5.0	ug/l		no
BH1	Acenaphthene	Annual	<1.0	<1.0	ug/l		no
BH1	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l		no
BH1	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l		no
BH1	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l		no
BH1	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l		no
BH1	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/l		no
BH1	Bis(2-chloroethoxy)methane	Annual	<1.0	<1.0	ug/l		no
BH1	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l		no
BH1	Bis(2-chloroisopropyl)ether	Annual	<1.0	<1.0	ug/l		no
BH1	Bis(2-ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l		no
BH1	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l		no
BH1	Dibenzofuran	Annual	<1.0	<1.0	ug/l		no
BH1	Diethylphthalate	Annual	<1.0	<1.0	ug/l		no
BH1	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012			
BH1	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l				no
BH1	Diphenylamine	Annual	<1.0	<1.0	ug/l				no
BH1	Hexachloroethane	Annual	<1.0	<1.0	ug/l				no
BH1	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l				no
BH1	Isophorone	Annual	<1.0	<1.0	ug/l				no
BH1	Nitrobenzene	Annual	<1.0	<1.0	ug/l				no
BH1	n-Nitrosodi-n-propylamine	Annual	<1.0	<1.0	ug/l				no
BH1	Acetone	Annual	<2.0	<2.0	ug/l				no
BH1	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l		no
BH1	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l				no
BH1	Toluene	Annual	<0.5	<0.5	ug/l				no
BH1	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH1	Dichlorodifluoromethane	Annual	<1.0	<1.0	ug/l				no
BH1	Chloromethane	Annual	<0.5	<0.5	ug/l				no
BH1	Ethyl Chloride/Chloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	Vinyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH1	Bromomethane	Annual	<0.5	<0.5	ug/l				no
BH1	Trichloromonofluoromethane	Annual	<0.5	<0.5	ug/l				no
BH1	Ethyl Ether/Diethyl Ether	Annual	<0.5	<0.5	ug/l				no
BH1	1,1 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH1	Iodomethane/Methyl iodide	Annual	<0.5	<0.5	ug/l				no
BH1	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH1	Allyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH1	Chloromethyl Cyanide/Chloroacetonitrile	Annual	<0.5	<0.5	ug/l				no
BH1	Propanenitrile	Annual	<10.	<10.	ug/l				no
BH1	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH1	MtBE	Annual	<0.5	<0.5	ug/l				no
BH1	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH1	cis-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH1	2-Butanone	Annual	<5.0	<5.0	ug/l				no
BH1	Methyl Acrylate	Annual	<0.5	<0.5	ug/l				no
BH1	Bromochloromethane	Annual	<0.5	<0.5	ug/l				no
BH1	Methacrylonitrile	Annual	<5.0	<5.0	ug/l				no
BH1	1,1,1-trichloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	1-Chlorobutane	Annual	<0.5	<0.5	ug/l				no
BH1	Carbon Tetrachloride	Annual	<0.5	<0.5	ug/l				no
BH1	1,1 Dichloropropene	Annual	<0.5	<0.5	ug/l				no
BH1	1,2 dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH1	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH1	Dibromomethane	Annual	<0.5	<0.5	ug/l				no
BH1	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l				no

Groundwater/Soil monitoring template				Lic No:	W0022-01	Year	2012				
	BH1	13 Dichloropropene,cis		Annual	<2.0	<2.0	ug/l				no
	BH1	MIBK/4 Methyl 2 Pentanone		Annual	<2.0	<2.0	ug/l				no
	BH1	13 Dichloropropene,trans		Annual	<2.0	<2.0	ug/l				no
	BH1	Ethyl Methacrylate		Annual	<2.0	<2.0	ug/l				no
	BH1	112 Trichloroethane		Annual	<0.5	<0.5	ug/l				no
	BH1	1,3-dichloropropane		Annual	<0.5	<0.5	ug/l				no
	BH1	2-Hexanone		Annual	<1.0	<1.0	ug/l				no
	BH1	1,2-dibromoethane		Annual	<0.5	<0.5	ug/l				no
	BH1	Chlorobenzene		Annual	<0.5	<0.5	ug/l		1.0ug/l		no
	BH1	1,1,1,2-tetrachloroethane		Annual	<2.0	<2.0	ug/l				no
	BH1	Ethylbenzene		Annual	<0.5	<0.5	ug/l		10ug/l		no
	BH1	Xylene P&M		Annual	<0.5	<0.5	ug/l				no
	BH1	Styrene		Annual	<0.5	<0.5	ug/l				no
	BH1	Isopropylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	Bromobenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	1,1,2,2-tetrachloroethane		Annual	<0.5	<0.5	ug/l				no
	BH1	1,2,3-trichloropropane		Annual	<2.0	<2.0	ug/l				no
	BH1	Trans 14 Dichloro 2 Butene, tran		Annual	<2.0	<2.0	ug/l				no
	BH1	Propylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	2-chlorotoluene		Annual	<0.5	<0.5	ug/l				no
	BH1	4-chlorotoluene		Annual	<0.5	<0.5	ug/l				no
	BH1	1,3,5-trimethylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	Tert Butyl Benzene		Annual	<0.5	<0.5	ug/l				no
	BH1	1,2,4-trimethylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	sec-butylbenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	P Isopropyltoluene		Annual	<0.5	<0.5	ug/l				no
	BH1	N Butyl Benzene		Annual	<0.5	<0.5	ug/l				no
	BH1	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l				no
	BH1	1,2,3-trichlorobenzene		Annual	<0.5	<0.5	ug/l				no
	BH1	Total Solids		Annual		2124	2124 mg/l				no
	BH1	Total Coliforms		Annual		2400	2400 MPN/100ML				no
	BH1	Faecal Coliforms		Annual		1100	1100 MPN/100ML				no
Quaterly	BH2	pH	METER	Quaterly	7.77	7.21	SELECT		9.5	<1%-	no
	BH2	Temp	METER	Quaterly	19.4	13.4	SELECT			16%-	no
	BH2	Elec.Conductivity	METER	Quaterly	608	585	SELECT		1000	78%-	no
	BH2	Chlorides	TITRATION	Quaterly	2300	1459			250	710%-	no
	BH2	Ammoniacal Nitrogen	ISE METER	Quaterly /Monthly	0.56	0.113	mg/l		0.02	92%-	no
	BH2	Iron		Annual	<20	<20	ug/l				no
	BH2	TON		Quaterly		2.1	1.69 mg/l			28%-	no
	BH2	TOC	HACH	Quaterly		39	20 mg/l				370%
Annual	BH2	Cadmium		Annual		0.1	0.1 ug/l		0.005mg/l		no
	BH2	Chromium (total)		Annual		3.2	3.2 ug/l		0.03mg/l		no

Groundwater/Soil monitoring template			Lic No: W0022-01		Year 2012		
BH2	Copper	Annual	0.003	0.003	ug/l	0.03mg/l	no
BH2	Cyanide (Total)	Annual	<10.00	<10.01	ug/l	0.01mg/l	no
BH2	Lead	Annual	<0.3	<0.4	ug/l	0.01mg/l	no
BH2	Magnesium	Annual	7.6	8.6	mg/l		no
BH2	Manganese	Annual	<1.0	<1.1	ug/l	0.3mg/l	no
BH2	Mercury	Annual	<0.02	<0.03	ug/l	0.001mg/l	no
BH2	Potassium	Quarterly	7	5.6	mg/l	5mg/l	62%-
BH2	Sodium	Quarterly	26.2	22.2			84%-
BH2	Sulphate	Annual	1.4	1.4	mg/l	200mg/l	no
BH2	Total Alkalinity	Annual	294.5	294.5	mg/l		no
BH2	Total Phosphorus	Annual	0.07	0.07	mg/l		no
BH2	Phenols	Annual	<1.0	<1.0	ug/l	0.5ug/l	no
BH2	Acenaphthylene	Annual	<1.0	<1.0	ug/l		no
BH2	Anthracene	Annual	<1.0	<1.0	ug/l		no
BH2	Benzene	Annual	<1.0	<1.0	ug/l	10ug/l	no
BH2	Bromodichloromethane	Annual	<1.0	<1.0	ug/l		no
BH2	Bromoform	Annual	<1.0	<1.0	ug/l	12ug/l	no
BH2	Chloroform	Annual	<1.0	<1.0	ug/l	12ug/l	no
BH2	Chrysene	Annual	<1.0	<1.0	ug/l		no
BH2	Dibromochloromethane	Annual	<1.0	<1.0	ug/l		no
BH2	Fluoranthene	Annual	<1.0	<1.0	ug/l		no
BH2	Fluorene	Annual	<1.0	<1.0	ug/l		no
BH2	Naphthalene	Annual	<2.0	<2.0	ug/l		no
BH2	Dibromochloromethane	Annual	<1.0	<1.0	ug/l		no
BH2	Pentachlorophenol	Annual	<1.0	<1.0	ug/l	2.0ug/l	no
BH2	Phenanthrene	Annual	<1.0	<1.0	ug/l		no
BH2	Pyrene	Annual	<1.0	<1.0	ug/l		no
BH2	Tetrachloroethene	Annual	<0.1	<0.1	ug/l		no
BH2	Trichloroethene	Annual	<1.0	<1.0	ug/l		no
BH2	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l	0.03ug/l	no
BH2	Hexachlorobutadiene	Annual	<0.1	<0.1	ug/l	0.10ug/l	no
BH2	2,4,6-Trichlorophenol	Annual	<1.0	<1.0	ug/l		no
BH2	2,4-Dichlorophenol	Annual	<<1.0	<1.0	ug/l		no
BH2	2,4-Dimethylphenol	Annual	<1.0	<1.0	ug/l		no
BH2	2-Chlorophenol	Annual	<1.0	<1.0	ug/l		no
BH2	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH2	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH2	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH2	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
BH2	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l		no
BH2	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
BH2	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
BH2	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l		no
BH2	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l		no
BH2	2-Methylphenol	Annual	<1.0	<1.0	ug/l		no
BH2	2-Nitrophenol	Annual	<1.0	<1.0	ug/l		no



Groundwater/Soil monitoring template			Lic No:	W0022-01	Year	2012				
BH2	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l					no
BH2	4-Chloro-3-methylphenol	Annual	<1.0	<1.0	ug/l					no
BH2	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l					no
BH2	4-Nitrophenol	Annual	<5.0	<5.0	ug/l					no
BH2	Acenaphthene	Annual	<1.0	<1.0	ug/l					no
BH2	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l					no
BH2	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l					no
BH2	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l					no
BH2	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l					no
BH2	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/l					no
BH2	Bis(2-chloroethoxy)methane	Annual	<1.0	<1.0	ug/l					no
BH2	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l					no
BH2	Bis(2-chloroisopropyl)ether	Annual	<1.0	<1.0	ug/l					no
BH2	Bis(2-ethylhexyl)phthalate	Annual	<5.0	<5.0	ug/l					no
BH2	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l					no
BH2	Dibenzofuran	Annual	<1.0	<1.0	ug/l					no
BH2	Diethylphthalate	Annual	<1.0	<1.0	ug/l					no
BH2	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l					no
BH2	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l					no
BH2	Diphenylamine	Annual	<1.0	<1.0	ug/l					no
BH2	Hexachloroethane	Annual	<1.0	<1.0	ug/l					no
BH2	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l					no
BH2	Isophorone	Annual	<1.0	<1.0	ug/l					no
BH2	Nitrobenzene	Annual	<1.0	<1.0	ug/l					no
BH2	n-Nitrosodi-n-propylamine	Annual	<1.0	<1.0	ug/l					no
BH2	Acetone	Annual	<2.0	<2.0	ug/l					no
BH2	Dichloromethane	Annual	<5.0	<5.0	ug/l		10ug/l			no
BH2	Tetrahydrofuran	Annual	<0.5	<0.5	ug/l					no
BH2	Toluene	Annual	<0.5	<0.5	ug/l					no
BH2	Xylene -o	Annual	<0.5	<0.5	ug/l		10ug/l			no
BH2	Dichlorodifluoromethane	Annual	<1.0	<1.0	ug/l					no
BH2	Chloromethane	Annual	<0.5	<0.5	ug/l					no
BH2	Ethyl Chloride/Chloroethane	Annual	<0.5	<0.5	ug/l					no
BH2	Vinyl Chloride	Annual	<0.5	<0.5	ug/l					no
BH2	Bromomethane	Annual	<0.5	<0.5	ug/l					no
BH2	Trichloromonofluoromethane	Annual	<0.5	<0.5	ug/l					no
BH2	Ethyl Ether/Diethyl Ether	Annual	<0.5	<0.5	ug/l					no
BH2	1,1 Dichloroethene	Annual	<0.5	<0.5	ug/l					no
BH2	Iodomethane/Methyl iodide	Annual	<0.5	<0.5	ug/l					no

Groundwater/Soil monitoring template		Lic No:	W0022-01	Year	2012				
BH2	Carbon Disulphide	Annual	<0.5	<0.5	ug/l				no
BH2	Allyl Chloride	Annual	<0.5	<0.5	ug/l				no
BH2	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<0.5	<0.5	ug/l				no
BH2	Propanenitrile	Annual	<10.	<10.	ug/l				no
BH2	Trans-1,2 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH2	MtBE	Annual	<0.5	<0.5	ug/l				no
BH2	1,1-dichloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	2,2-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH2	cis-12 Dichloroethene	Annual	<0.5	<0.5	ug/l				no
BH2	2-Butanone	Annual	<5.0	<5.0	ug/l				no
BH2	Methyl Acrylate	Annual	<0.5	<0.5	ug/l				no
BH2	Bromochloromethane	Annual	<0.5	<0.5	ug/l				no
BH2	Methacrylonitrile	Annual	<5.0	<5.0	ug/l				no
BH2	1,1,1-trichloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1-Chlorobutane	Annual	<0.5	<0.5	ug/l				no
BH2	Carbon Tetrachloride	Annual	<0.5	<0.5	ug/l				no
BH2	11 Dichloropropene	Annual	<0.5	<0.5	ug/l				no
BH2	1,2 dicloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1,2-dichloropropane	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH2	Dibromomethane	Annual	<0.5	<0.5	ug/l				no
BH2	Methyl Methacrylate	Annual	<0.5	<0.5	ug/l				no
BH2	13 Dichloropropene,cis	Annual	<2.0	<2.0	ug/l				no
BH2	MIBK/4 Methyl 2 Pentanone	Annual	<2.0	<2.0	ug/l				no
BH2	13 Dichloropropene,trans	Annual	<2.0	<2.0	ug/l				no
BH2	Ethyl Methacrylate	Annual	<2.0	<2.0	ug/l				no
BH2	112 Trichloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1,3-dichloropropane	Annual	<0.5	<0.5	ug/l				no
BH2	2-Hexanone	Annual	<1.0	<1.0	ug/l				no
BH2	1,2-dibromoethane	Annual	<0.5	<0.5	ug/l				no
BH2	Chlorobenzene	Annual	<0.5	<0.5	ug/l		1.0ug/l		no
BH2	1,1,1,2-tetrachloroethane	Annual	<2.0	<2.0	ug/l				no
BH2	Ethylbenzene	Annual	<0.5	<0.5	ug/l		10ug/l		no
BH2	Xylene P&M	Annual	<0.5	<0.5	ug/l				no
BH2	Styrene	Annual	<0.5	<0.5	ug/l				no
BH2	Isopropylbenzene	Annual	<0.5	<0.5	ug/l				no
BH2	Bromobenzene	Annual	<0.5	<0.5	ug/l				no
BH2	1,1,2,2-tetrachloroethane	Annual	<0.5	<0.5	ug/l				no
BH2	1,2,3-trichloropropane	Annual	<2.0	<2.0	ug/l				no
BH2	Trans 14 Dichloro 2 Butene, tran	Annual	<2.0	<2.0	ug/l				no
BH2	Propylbenzene	Annual	<0.5	<0.5	ug/l				no
BH2	2-chlorotoluene	Annual	<0.5	<0.5	ug/l				no
BH2	4-chlorotoluene	Annual	<0.5	<0.5	ug/l				no

Groundwater/Soil monitoring template				Lic No:	W0022-01	Year	2012				
BH2	1,3,5-trimethylbenzene		Annual	<0.5	<0.5	ug/l					no
BH2	Tert Butyl Benzene		Annual	<0.5	<0.5	ug/l					no
BH2	1,2,4-trimethylbenzene		Annual	<0.5	<0.5	ug/l					no
BH2	sec-butylbenzene		Annual	<0.5	<0.5	ug/l					no
BH2	P Isopropyltoluene		Annual	<0.5	<0.5	ug/l					no
BH2	N Butyl Benzene		Annual	<0.5	<0.5	ug/l					no
BH2	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l					no
BH2	1,2,3-trichlorobenzene		Annual	<0.5	<0.5	ug/l					no
BH2	Total Solids		Annual		2124	2124 mg/l					no
BH2	Total Coliforms		Annual		2400	2400 MPN/100ML					no
BH2	Faecal Coliforms		Annual		1100	1100 MPN/100ML					no

Comment

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

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	Closed Feb 2007
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	Continued Local Authority Responsibility as covered under the Annual Budget of Costs.
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:	W0022-01	Year	2012
Highlighted cells contain dropdown menu click to view		Additional Information			
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	An EMS is updated and retained on site on an annual basis since 2008. It includes sections on Use of manual, Site location and description, Types of waste accepted and procedures, Engineering details, Control of nuisance and Environmental management system requirements.		
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
Reduction of emissions to Air	Maintain Low complaint numbers against the facility	100	Improvement of gas extraction system and operation	Individual	Reduced emissions
Materials Handling/Storage/Bunding	Improve annual recycling rate by 5%	90	Improvement of Civic Amenity Site layout and improved maintenance of existing infrastructure	Individual	Installation of infrastructure
Additional improvements	Improve Site security	100	Liasing with Security Company and An Gardaí Síochana to deter would-be intruders	Individual	Improved Environmental Management Practices
Additional improvements	To control environmental nuisances at the facility	80	Reduction of waste intake, improved site practises	Individual	Increased compliance with licence conditions
Additional improvements	Review the closure modifications of the Waste Licence following the closure of landfill in Feb 2007	15	Improvement of site practise to ensure minimal interaction with surrounding environment	Individual	Increased compliance with licence conditions

## Noise monitoring summary report

Lic No: W0022-01

Year

2012

1 Was noise monitoring a licence requirement for the AER period?

Yes

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

No

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

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

No

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	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)?
19/10/2012	30min	N1		44	46	36		No	No	No noise from landfill site. External noise from road, nature and over head planes	Yes
19/10/2012	30min	N3		44	45	38		No	No	No noise from landfill site. External noise from road and over head planes and nature	Yes
19/10/2012	30min	N4		50	52	42		No	No	No noise from landfill site. External noise from road, nature and over head planes	Yes

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

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

SELECT

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

Monitoring was also carried out in accordance with Section 7 'Environmental Noise Surveys' of the EPA's 2012 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities' (NG4) except for Section 7.2 'Survey Methodologies and Assessment Procedures' where only a single sampling event was carried by the consultant at CORK Co.Co. request.

## Resource Usage/Energy efficiency summary

Lic No:

W0022-01

Year

2012

## Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 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
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

no	
SELECT	N/A

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	87.609	70.093	-20%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	87.609	70.093	-20%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	1	0.85	-15%	
Light Fuel Oil (m3)	120	100	-20%	
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	
					Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater								
Surface water								
Public supply	250	238	-5%	N/A	238	N/A		0
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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					



## Resource Usage/Energy efficiency summary

Lic No: W0022-01

Year

2012

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:	W0022-01	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							
Within the Country	13 02 08	Yes	3.48 other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate, " ",Portlaoise,Co Laois,Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate, " ",Portlaoise,Co Laois,Ireland
Within the Country	15 01 01	No	56.0 paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire,Co Cork,Ireland		
Within the Country	15 01 02	No	13.0 plastic packaging	R5	M	Weighed	Offsite in Ireland	Green Dragon Recycling Ltd,CK/09/0629/01	Corbally North,Srasfields Court,Glanmire,Co Cork,Ireland		
Within the Country	15 01 04	No	1.0 metallic packaging	R4	M	Weighed	Offsite in Ireland	Mr Binman,W0061-01	Luddenmore,Grange,Kilmallock,Co Limerick,Ireland		
Within the Country	15 01 07	No	23.0 glass packaging	R5	M	Weighed	Offsite in Ireland	Mr Binman,W0061-01	Luddenmore,Grange,Kilmallock,Co Limerick,Ireland		
Within the Country	16 06 01	Yes	2.262 lead batteries	R6	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	16 06 04	No	0.0 alkaline batteries (except 16 06 03) mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R13	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland		
Within the Country	17 01 07	No	453.0 01 06	D5	M	Weighed	Offsite in Ireland	Youghal Landfill,W0068-03	Mudlands,Foxhole,Youghal,Co Cork,Ireland		
Within the Country	19 07 03	No	6541.4 landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Carrigtwohill Wastewater Treatment Plant,D0044-01	Wastewater Treatment Plant,Tullagreen,Carrigtwohill Wastewater Treatment Plant,Co Cork,Ireland		
Within the Country	20 01 01	No	66.0 paper and cardboard	R3	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire,Co Cork,Ireland		
Within the Country	20 01 02	No	9.0 glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling Ltd,W0079-01	41-42 Cookstown Industrial Estate,Tallaght,Dublin,D24,Ireland		
Within the Country	20 01 11	No	3.0 textiles	R5	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WCP-DC-08-1225-01	Glen Abbey Business Park,Tallaght,Dublin,D24,Ireland		
Within the Country	20 01 23	Yes	0.0 discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	20 01 28	No	17.03 paint, inks, adhesives and resins other than those mentioned in 20 01 27	R1	M	Weighed	Offsite in Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate, " ",Portlaoise,Co Laois,Ireland		
Within the Country	20 01 35	Yes	0.0 discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland

**WASTE SUMMARY** Lic No: W0022-01 Year: 2012

Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 0.0 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 0.0 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	20 01 38	No	wood other than that mentioned in 20 01 37, 254.0	R13	M	Weighed	Offsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0018/02	Tait's Farm,Rostellan,Midleton, Co Cork,Ireland
Within the Country	20 01 40	No	116.0 metals	R4	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers Ltd,CK/0584/01	Pouladuff Rd,Togher,Cork,Cork,Ireland
Within the Country	20 03 01	No	0.0 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Youghal Landfill,W0068-03	Mudlans,Foxhole,Youghal,Co Cork,Ireland
Within the Country	20 03 01	No	845.0 mixed municipal waste	D5	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire,Co Cork,Ireland
Within the Country	20 02 01	No	257.0 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona,W0198-01	Kilberry,Athy,Co Kildare,Kildare,Ireland

**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)  
If yes please enter details in table 1 below

Additional Information

No	
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2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

No	
----	--

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

No	
----	--

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

Licenced annual tonnage limit for your site (total tonnes/annum)	EWG code	Source of waste accepted	Description of waste accepted <b>Please enter an accurate and detailed description which applies to European Waste Catalogue EWG codes</b>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incr ease over previous year +/- %	Reason for reduction/increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -

**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?



<b>WASTE SUMMARY</b>	Lic No: W0022-01	Year: 2012
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**Table 4 Environmental monitoring-landfill on** [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	Yes	Yes	Yes	All license conditions being met under current monitoring regime

+ 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
m2	m2					
0	0	65760m2		0 65760m2	1mm HDPE welded liner, geotextile drainage layer and protection barrier covered with 1m of suitable, screened soil.	

\*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?

Yes

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

No

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
6541.4	399.03	10891.43	3206.59	8955.18	No	Wastewater Treatment Plant with Mixing tank, Oxidation ditch & Settlement tanks	

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
361334 kg CH4/annum	0	0	Yes	Gas captured figure is Annual Methane burn-off in kg/annum. Areas of elevated VOC's are identified by the surveys and are attended to by site staff.