Facility Information Summary

AER Reporting Year Licence Register Number Name of site Site Location NACE Code Class/Classes of Activity National Grid Reference (6E, 6 N)

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

			_						
2015									
W0151-01									
	Murpl	hy Environme	ntal Gormanston						
Sarsfieldstown, Gormanston, Co. Meath									
		383	2						
		3.1, 3.13, 4.3	6, 4.4, 4.13						
		-6.25153	53.654						

Land Restoration - Using clean construction and demolition waste - Soil & Stones and Concrete, in line with licence requirements. It has been agreed with the Agency that W0151-01 is a recovery activity.

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

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.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality

of the information is assured to meet licence requirements.

derste Hary ---

Kerstie Flanagan Environmental Consultant (or nominated, suitably qualified and experienced deputy) 24/03/2016

Date

AIR-summary template	Lic No:	W0151-01	Year	2015
Answer all questions and complete all tables where relevant		Additio	onal information	
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 <u>do not</u> need to complete the tables		locations in Q2, 2015 (7/0 (26/08/15 to 25/09/15) - t ELV set in the licence.Dust	was conducted at 4 No. monitoring 5/15 to 6/06/15) and Q3, 2015 there was one breache of the dust monitoring result at D3/D3A for ceedance of the EPA licence W0151- y	

	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	
3	Was all monitoring carried out in accordance with EPA guidance monitoring of the basic air monitoring checklist? AGN2 Mathematical content of the basic air monitoring checklist? checklist AGN2	SELECT	

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

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

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

Continuous Monitoring

4

Does your site carry out continuous air emissions monitoring?

SELECT

AIR-summary template	Lic No:	W0151-01	Year	2015

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

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

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 A3 below Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3:	Abatement system byp	ass 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

r

SELECT	
SELECT	
SELECT	

4

AIR-summary	emplate				Lic No:	W0151-01		Year	2015
Table A4: Solvent Management Plan Summary Total VOC Emission limit value			<u>Solvent</u> <u>regulations</u>	Please refer to linked solven complete table 5 a	•				
Reporting year	Total solvent input on site (kg)		emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
					SELECT				
					SELECT				
Table A5:	Solvent Mass Balanc	e summary							
	(I) Inputs (kg)			(O)	Outputs (kg)				
Solvent	(I) Inputs (kg)		Solvents lost in water (kg)			Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
							Total		

AER Monitoring	g returns summary	/ temp	late-WATER/	WASTEWATER	(SEWER)	

W0151-01

Additional information

Year

2015

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

 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

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
ST-1	upstream		Alkalinity, Total	7/05/2015 28/11/2015	Not applicable	Not applicable	354	mg/l	Not applicable	
ST-1	upstream		Ammoniacal Nitrogen	7/05/2015 28/11/2015	Not applicable	Not applicable	0.135	mg/l	Not applicable	
ST-1	upstream		BOD	7/05/2015 28/11/2015	Not applicable	Not applicable	2	mg/l	Not applicable	
ST-1	upstream		Boron	7/05/2015 28/11/2015	Not applicable	Not applicable	0.027	mg/l	Not applicable	
ST-1	upstream		Cadmium	7/05/2015 28/11/2015	Not applicable	Not applicable	0.0005	mg/l	Not applicable	
ST-1	upstream		Calcium	7/05/2015 28/11/2015	Not applicable	Not applicable	143.85	mg/l	Not applicable	
ST-1	upstream		Chloride	7/05/2015 28/11/2015	Not applicable	Not applicable	31.4	mg/l	Not applicable	
ST-1	upstream		Chromium, Total	7/05/2015 28/11/2015	Not applicable	Not applicable	0.0042	mg/l	Not applicable	
ST-1	upstream		COD	7/05/2015 28/11/2015	Not applicable	Not applicable	16.5	mg/l	Not applicable	
ST-1	upstream		Colour	7/05/2015 28/11/2015	Not applicable	Not applicable	#VALUE!	N/A	Not applicable	
ST-1	upstream		Conductivity	7/05/2015 28/11/2015	Not applicable	Not applicable	0.724	mS/cm	Not applicable	
ST-1	upstream		Copper	7/05/2015 28/11/2015	Not applicable	Not applicable	0.007	mg/l	Not applicable	
ST-1	upstream		Cyanide, Total	7/05/2015 28/11/2015	Not applicable	Not applicable	0.01	mg/l	Not applicable	
ST-1	upstream		Dissolved Oxygen	7/05/2015 28/11/2015	Not applicable	Not applicable	9.5	mg/l	Not applicable	
ST-1	upstream		Iron	7/05/2015 28/11/2015	Not applicable	Not applicable	0.02	mg/l	Not applicable	
ST-1	upstream		Lead	7/05/2015 28/11/2015	Not applicable	Not applicable	0.005	mg/l	Not applicable	
ST-1	upstream		Magnesium	7/05/2015 28/11/2015	Not applicable	Not applicable	11.55	mg/l	Not applicable	
ST-1	upstream		Manganese	7/05/2015 28/11/2015	Not applicable	Not applicable	0.002	mg/l	Not applicable	
ST-1	upstream		Nickel	7/05/2015 28/11/2015	Not applicable	Not applicable	0.002	mg/l	Not applicable	
ST-1	upstream		Odour	7/05/2015 28/11/2015	Not applicable	Not applicable	#VALUE!	N/A	Not applicable	
ST-1	upstream		Orthophosphates	7/05/2015 28/11/2015	Not applicable	Not applicable	0.065	mg/l	Not applicable	
ST-1	upstream		рН	7/05/2015 28/11/2015	Not applicable	Not applicable	8.1	pH units	Not applicable	
ST-1	upstream		Phosphorus, Total	7/05/2015 28/11/2015	Not applicable	Not applicable	0.113	mg/l	Not applicable	
ST-1	upstream		Potassium	7/05/2015 28/11/2015	Not applicable	Not applicable	3.3	mg/l	Not applicable	
ST-1	upstream		Sodium	7/05/2015 28/11/2015	Not applicable	Not applicable	16.9	mg/l	Not applicable	

Lic No:

No

Yes

AER Monitori	ing returns su	mmary template-W	ATER/WASTEWATE	R(SEWER)		Lic No:	W0151-01		Year	2015	
ST-1				7/05/2015 28/11/2015	Not applicable		39.055				
ST-1	upstream		Sulphate	7/05/2015	Not applicable	Not applicable	10	mg/l	Not applicable		
ST-1	upstream		Suspended Solids, Total	28/11/2015 7/05/2015	Not applicable	Not applicable	12.5	mg/l	Not applicable		
ST-1	upstream		Temperature	28/11/2015 7/05/2015	Not applicable	Not applicable	0.0065	oC	Not applicable		
511	upstream		Zinc	28/11/2015	Not applicable	Not applicable	0.0000	mg/l	Not applicable		
ST-2	upstream		Alkalinity, Total	7/05/2015	Not applicable	Not applicable	186	mg/l	Not applicable		
ST-2	upstream		Ammoniacal Nitrogen	7/05/2015	Not applicable	Not applicable	0.05	mg/l	Not applicable		
ST-2	upstream		BOD	7/05/2015	Not applicable	Not applicable	2	mg/l	Not applicable		
ST-2	upstream		Boron	7/05/2015	Not applicable	Not applicable	0.029	mg/l	Not applicable		
ST-2	upstream		Cadmium	7/05/2015	Not applicable	Not applicable	0.0005	mg/l	Not applicable		
ST-2				7/05/2015	Not applicable		95.1				
ST-2	upstream		Calcium Chloride	7/05/2015	Not applicable	Not applicable Not applicable	36.2	mg/l mg/l	Not applicable Not applicable		
ST-2	upstream		Chromium, Total	7/05/2015	Not applicable	Not applicable	0.0015	mg/l	Not applicable		
ST-2				7/05/2015	Not applicable		7				
ST-2	upstream		COD	7/05/2015	Not applicable	Not applicable	#VALUE!	mg/l	Not applicable		
ST-2	upstream		Colour	7/05/2015	Not applicable	Not applicable	0.657	N/A	Not applicable		
ST-2	upstream		Conductivity	7/05/2015	Not applicable	Not applicable	0.007	mS/cm	Not applicable		
ST-2	upstream		Copper	7/05/2015	Not applicable	Not applicable	0.01	mg/l	Not applicable		
ST-2	upstream		Cyanide, Total	7/05/2015	Not applicable	Not applicable	9	mg/l	Not applicable		
ST-2	upstream		Dissolved Oxygen	7/05/2015	Not applicable	Not applicable	0.02	mg/l	Not applicable		
ST-2	upstream		Iron	7/05/2015	Not applicable	Not applicable	0.005	mg/l	Not applicable		
ST-2	upstream		Lead	7/05/2015	Not applicable	Not applicable	15.6	mg/l	Not applicable		
ST-2	upstream		Magnesium	7/05/2015	Not applicable	Not applicable	0.002	mg/l	Not applicable		
ST-2	upstream		Manganese	7/05/2015	Not applicable	Not applicable	0.002	mg/l	Not applicable		
ST-2	upstream		Nickel	7/05/2015	Not applicable	Not applicable	#VALUE!	mg/l	Not applicable		
ST-2	upstream		Odour	7/05/2015	Not applicable	Not applicable	0.06	N/A	Not applicable		
	upstream		Orthophosphates	7/05/2015		Not applicable		mg/l	Not applicable		
ST-2	upstream		рH	7/05/2015	Not applicable	Not applicable	8.5	pH units	Not applicable		
ST-2	upstream		Phosphorus, Total	7/05/2015	Not applicable	Not applicable	0.06	mg/l	Not applicable		
ST-2	upstream		Potassium	7/05/2015	Not applicable	Not applicable	7.3	mg/l	Not applicable		
ST-2	upstream		Sodium	7/05/2015	Not applicable	Not applicable	23.6	mg/l	Not applicable		
ST-2	upstream		Sulphate	7/05/2015	Not applicable	Not applicable	97.02	mg/l	Not applicable		
ST-2	upstream		Suspended Solids, Total	7/05/2015	Not applicable	Not applicable	14	mg/l	Not applicable		
ST-2	upstream		Temperature	7705/2015	Not applicable	Not applicable	12.6	oC	Not applicable		

R Monito	ring returns summary tei	mplate-WATER/WASTEWATE	R(SEWER)		Lic No:	W0151-01		Year	2015	
ST-2	upstream	Zinc	7/05/2015	Not applicable	Not applicable	0.003	mg/l	Not applicable		
0110 1										
SWD-1	downstream	Alkalinity, Total	07/05/2015	Not applicable	Not applicable	178	mg/l	Not applicable		
SWD-1	downstream	Ammoniacal Nitrogen	07/05/2015	Not applicable	Not applicable	0.03	mg/l	Not applicable		
SWD-1 SWD-1	downstream	BOD	07/05/2015	Not applicable	Not applicable	2 0.029	mg/l	Not applicable		
SWD-1 SWD-1	downstream	Boron Cadmium	07/05/2015	Not applicable Not applicable	Not applicable	0.029	mg/l	Not applicable		
SWD-1 SWD-1	downstream downstream	Calcium	07/05/2015	Not applicable	Not applicable Not applicable	0.0005	mg/l mg/l	Not applicable Not applicable		
SWD-1 SWD-1	downstream	Chloride	07/05/2015	Not applicable	Not applicable	35.58	mg/l	Not applicable		
SWD-1	downstream	Chromium, Total	07/05/2015	Not applicable	Not applicable	0.0015	mg/l	Not applicable		
SWD-1 SWD-1	downstream	COD	07/05/2015	Not applicable	Not applicable	7	mg/l	Not applicable		
SWD-1	downstream	Colour	07/05/2015	Not applicable	Not applicable	#VALUE!	N/A	Not applicable		
SWD-1	downstream	Conductivity	07/05/2015	Not applicable	Not applicable	0.649	mS/cm	Not applicable		
SWD-1	downstream	Copper	07/05/2015	Not applicable	Not applicable	0.045	mg/l	Not applicable		
SWD-1	downstream	Cyanide, Total	07/05/2015	Not applicable	Not applicable	0.007	mg/l	Not applicable		
SWD-1	downstream	Dissolved Oxygen	07/05/2015	Not applicable	Not applicable	10	mg/l	Not applicable		
SWD-1	downstream	Iron	07/05/2015	Not applicable	Not applicable	0.02	mg/l	Not applicable		
SWD-1	downstream	Lead	07/05/2015	Not applicable	Not applicable	0.005	mg/l	Not applicable		
SWD-1	downstream	Magnesium	07/05/2015	Not applicable	Not applicable	15.4	mg/l	Not applicable		
SWD-1	downstream	Manganese	07/05/2015	Not applicable	Not applicable	0.004	mg/l	Not applicable		
SWD-1	downstream	Nickel	07/05/2015	Not applicable	Not applicable	0.002	mg/l	Not applicable		
SWD-1	downstream	Odour	07/05/2015	Not applicable	Not applicable	#VALUE!	N/A	Not applicable		
SWD-1	downstream	Orthophosphates	07/05/2015	Not applicable	Not applicable	0.06	mg/l	Not applicable		
SWD-1	downstream	рН	07/05/2015	Not applicable	Not applicable	9.3	pH units	Not applicable		
SWD-1	downstream	Phosphorus, Total	07/05/2015	Not applicable	Not applicable	0.05	mg/l	Not applicable		
SWD-1	downstream	Potassium	07/05/2015	Not applicable	Not applicable	7.3	mg/l	Not applicable		
SWD-1	downstream	Sodium	07/05/2015	Not applicable	Not applicable	23.7	mg/l	Not applicable		
SWD-1	downstream	Sulphate	07/05/2015	Not applicable	Not applicable	96.84	mg/l	Not applicable		
SWD-1	downstream	Suspended Solids, Total	07/05/2015	Not applicable	Not applicable	10	mg/l	Not applicable		
SWD-1	downstream	Temperature	07/05/2015	Not applicable	Not applicable	13.5	oC	Not applicable		
SWD-1	downstream	Zinc	07/05/2015	Not applicable	Not applicable	0.003	mg/l	Not applicable		

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

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

	Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
[NO CONTAMINATION	SELECT		
- [SELECT		

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

3	Was there any result in breach of licence requirements? If yes please provide brief details i comment section of Table W3 below	n the	No	Additional information
	Was all monitoring carried out in accordance with EPA widance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas External /internal Lab Assessm require improvement in additional information box Quality checklist results of	nent of checklist	Yes	

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

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

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

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

AER Monitoring returns summary template-WA	ATER/WASTEWATER(SEWEI
--	-----------------------

Year

2015

Continuous monitoring		Additional Information
5 Does your site carry out continuous emissions to water/sewer monitoring?	SELECT	
If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)		
$_{\rm 6}$ Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below	SELECT	
7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below	SELECT	

Lic No:

W0151-01

Table W4: Summary of average emissions -continuous monitoring

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

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	Corrective	Was a report	When was this report
				bypass	action*	submitted to the	submitted?
						EPA?	
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline tes	sting template				Lic No:	W0151-01		Year	2015					1
Bund testing		dropdown menu clio	ck 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 include all bunds outside the licenced testing period (mobile bunds and chemstore included)							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,							
1						Yes	not been required (diesel tanks are empty).							
-	ty testing frequency period	1				SELECT	cinpty).							
 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? 					SELECT									
5 How many of these bu	unds have been tested with	nin the required test schedule?												
6 How many mobile bun	nds are on site?													
	included in the bund test					SELECT								
		ted within the required test sched	lule?											
	site are included in the inte													
10 How many of these su	ntegrity failures in table B													
11 Do all sumps and cham						SELECT		ſ						
		in a maintenance and testing prop	gramme?			SELECT								
		ir integrity test programme?	-			SELECT								
			·											
Tab	ble B1: Summary details of	bund /containment structure inte	egrity test						1					
Bund/Containment									Integrity reports maintained on	a 11 (1 - 1	Integrity test failure		Scheduled date	Results of retest(if in current
structure ID	Type SELECT	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test SELECT	Other test type	Test date	site? SELECT	Results of test SELECT	explanation <50 words	Corrective action taken SELECT	for retest	reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		-
	mply with 25% or 110% containment				1		Commentary		1					
		nce with licence requirements and	d are all structures tested in											
15 line with BS8007/EPA 16 Are channels/transfer				bunding and storage guidel	lines	SELECT SELECT								
		n integrity and available volume?				SELECT								
17 Are channels/ cansier	systems compliant in both	Timeginty and available volume:				JEECI								
Pipeline/undergro	ound structure testing]				[ſ						
Are you required by yo	our licence to undertake in	tegrity testing* on underground s	tructures e.g. pipelines or su	mps etc ? if yes please fill o	out table 2 below listing all									
1 underground structure	1 underground structures and pipelines on site which failed the integrity test and all which have not been tested withing the integrity test period as specified													
	2 Please provide integrity testing frequency period							l						
*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)														
Table	e B2: Summary details of p	ipeline/underground structures in	ntegrity test	1		-								

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

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

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2015

Year

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

Table 1: Upgradient Groundwater monitoring results

										Upward trend in
										pollutant
										concentration
	Sample									
	location	Parameter/		Monitoring	Maximum	Average		_		over last 5 years
Date of sampling	reference	Substance	Methodology	frequency	Concentration++	Concentration+	unit	GTV's*	SELECT**	of monitoring data
04/03/15	MW-18	Ammoniacal	Lab analysis	Biannual	0.13	0.08	mg/l NH4-N	W0151-01 EPA	N/A	No
26/08/15		Nitrogen						Trigger Level		
04/03/15	MW-18	Chloride	Lab analysis	Biannual	44.3	42.5	mg/l	W0151-01 EPA	70	No
26/08/15								Trigger Level		
04/03/15	MW-18	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA	0.1	No
26/08/15								Trigger Level		
04/03/15	MW-18	Sulphate	Lab analysis	Biannual	45.52	38.925	mg/l	W0151-01 EPA	140	No
26/08/15								Trigger Level		
04/03/15	MW-18	Total Organic	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA	50	No
26/08/15		Carbon						Trigger Level		
04/03/15	MW-18	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
04/03/15	MW-18	Conductivity	Field analysis	Biannual	0.335	0.3225	mS/cm	W0151-01 EPA	1	No
26/08/15								Trigger Level		
04/03/15	MW-18	Dissolved	Field analysis	Biannual	6	5.5	mg/l	W0151-01 EPA	N/A	No
26/08/15		Oxygen						Trigger Level		
04/03/15	MW-18	Level, Water	Field analysis	Biannual	13.25	12.9	mOD	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
04/03/15	MW-18	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		

Groundwater/	Soil monite	oring templa	te		Lic No:	W0151-01		Year	2015	
04/03/15 26/08/15	MW-18	рН	Field analysis	Biannual	8.2	8.15	рН	W0151-01 EPA Trigger Level	6 <ph<9< th=""><th>No</th></ph<9<>	No
04/03/15 26/08/15	MW-18	Temperature	Field analysis	Biannual	11.9	9.7	oC	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Alkalinity, Total	Lab analysis	Biannual	62	62	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Boron	Lab analysis	Biannual	0.012	0.012	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
26/08/2015	MW-18	Calcium	Lab analysis	Biannual	23.5	23.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Coliforms, Faecal	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
26/08/2015	MW-18	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Magnesium	Lab analysis	Biannual	1.8	1.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Manganese	Lab analysis	Biannual	0.101	0.101	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Phosphorous, Total	Lab analysis	Biannual	0.029	0.029	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Potassium	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Residue on Evaporation	Lab analysis	Biannual	241	241	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Sodium	Lab analysis	Biannual	34.9	34.9	mg/l	W0151-01 EPA Trigger Level	80	No
26/08/2015	MW-18	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-18	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
					0	#DIV/0!		The second		
04/03/15 07/05/15 6/08/15 20/11/15	MW-19	Ammoniacal Nitrogen	Lab analysis	Biannual	0.05	0.035	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Chloride	Lab analysis	Biannual	40.1	34.275	mg/l	W0151-01 EPA Trigger Level	70	No

Groundwater/					Lic No:	W0151-01		Year	2015	
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Sulphate	Lab analysis	Biannual	189.07	115.88	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Total Organic Carbon	Lab analysis	Biannual	5	3.5	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Conductivity	Field analysis	Biannual	1.138	0.867	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Dissolved Oxygen	Field analysis	Biannual	9	6.6125	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Level, Water	Field analysis	Biannual	14.29	13.3725	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	рН	Field analysis	Biannual	7.6	7.5	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-19	Temperature	Field analysis	Biannual	15.9	10.625	oC	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Alkalinity, Total	Lab analysis	Biannual	410	387	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Boron	Lab analysis	Biannual	0.061	0.0485	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
07/05/15 20/11/15	MW-19	Calcium	Lab analysis	Biannual	188.1	163.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Coliforms,	Lab analysis	Biannual	14000	7000.5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Faecal Coliforms, Total	Lab analysis	Biannual	9400	4705	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
07/05/15 20/11/15	MW-19	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA	N/A	No

Groundwater/	Soil monit	oring templa	ate		Lic No:	W0151-01		Year	2015	
7/05/15 20/11/15	MW-19	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Magnesium	Lab analysis	Biannual	16.8	14.35	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Phosphorous, Total	Lab analysis	Biannual	0.252	0.145	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Potassium	Lab analysis	Biannual	3.4	3.1	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Residue on Evaporation	Lab analysis	Biannual	615	603.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Sodium	Lab analysis	Biannual	22.2	21.05	mg/l	W0151-01 EPA Trigger Level	80	No
07/05/15 20/11/15	MW-19	Total Oxidized Nitrogen	Lab analysis	Biannual	0.7	0.65	mg/l	W0151-01 EPA Trigger Level	N/A	No
07/05/15 20/11/15	MW-19	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
					0					
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Chloride	Lab analysis	Quarterly	79.7	42.5	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Sulphate	Lab analysis	Quarterly	64.83	47.435	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Total Organic Carbon	Lab analysis	Quarterly	3	2.25	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Conductivity	Field analysis	Quarterly	1.03	0.92625	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Dissolved Oxygen	Field analysis	Quarterly	9	7.5	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwater,					Lic No:	W0151-01		Year	2015	
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Level, Water	Field analysis	Quarterly	13.47	13.1325	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	рН	Field analysis	Quarterly	7.8	7.25	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-21	Temperature	Field analysis	Quarterly	13.8	11.75	oC	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Alkalinity, Total	Lab analysis	Quarterly	300	300	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Boron	Lab analysis	Quarterly	0.047	0.047	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Cadmium	Lab analysis	Quarterly	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
26/08/2015	MW-21	Calcium	Lab analysis	Quarterly	149.9	149.9	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Coliforms, Faecal	Lab analysis	Quarterly	98	98	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Coliforms, Total	Lab analysis	Quarterly	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Copper	Lab analysis	Quarterly	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
26/08/2015	MW-21	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015		Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A N/A	No
26/08/2015	MW-21	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level		
26/08/2015	MW-21	Magnesium	Lab analysis	Quarterly	0	0	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-21	Manganese	Lab analysis	Quarterly	0.004	0.004	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A N/A	No
26/08/2015	MW-21	Nickel	Lab analysis Lab analysis	Quarterly Quarterly	0.001	0.001	mg/l mg/l	Trigger Level W0151-01 EPA	N/A	NO
26/08/2015	MW-21	Orthophospha	Lab analysis	Quarterly	0.002	0.002	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/2015	MW-21	Phosphorous,	Lab analysis	Quarterly	0.06	0.06	-	Trigger Level W0151-01 EPA	N/A	No
26/08/2015	MW-21	Total Potassium	Lab analysis	Quarterly	3.3	3.3	mg/l mg/l	Trigger Level W0151-01 EPA	N/A	NO
26/08/2015	MW-21	Residue on	Lab analysis	Quarterly	677	677	-	Trigger Level W0151-01 EPA	-	No
26/08/2015	MW-21	Evaporation			31.3	31.3	mg/l	Trigger Level W0151-01 EPA	N/A 80	No
26/08/2015	MW-21	Sodium	Lab analysis	Quarterly	16.4		mg/l	Trigger Level		NO
20/08/2015	WW-21	Total Oxidized Nitrogen	Lab analysis	Quarterly	16.4	16.4	mg/l	W0151-01 EPA Trigger Level	N/A	NO

-		oring templa			Lic No:	W0151-01		Year	2015	
26/08/2015	MW-21	Zinc	Lab analysis	Quarterly	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-24	Ammoniacal	Lab analysis	Biannual	0.08	0.04	mg/I NH4-N	W0151-01 EPA	N/A	No
26/08/15		Nitrogen	-					Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Chloride	Lab analysis	Biannual	33.00	30.43	mg/l	W0151-01 EPA	70	No
	10100-24	Chionae	Lab allalysis	Didililudi	55.00	50.45	iiig/i		70	INO
26/08/15								Trigger Level		
EPA 20/10/15					-					
04/03/15	MW-24	Phenols, Total	Lab analysis	Biannual	0.10	0.10	mg/l	W0151-01 EPA	0.1	No
26/08/15								Trigger Level		
FPA 20/10/15										
04/03/15	MW-24	Sulphate	Lab analysis	Biannual	30.14	29.40	mg/l	W0151-01 EPA	140	No
26/08/15								Trigger Level		
FPA 20/10/15								00-		
04/03/15	MW-24	Total Organic	Lab analysis	Biannual	2.00	2.00	mg/l	W0151-01 EPA	50	No
26/08/15		Carbon			2.00	2.00		Trigger Level		
EPA 20/10/15		Carbon						INSSEI LEVEI		
04/03/15	MW-24	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15	10100-24	Coloui	i iciu allalysis	Diarittual	#VALUE!	#VALUE!	N/A		N/A	NO
								Trigger Level		
EPA 20/10/15		0.1.1.1.1	Children I. d.	0.	0.00	0.00	<i>c1</i>	11/0454 04 551		
04/03/15	MW-24	Conductivity	Field analysis	Biannual	0.86	0.83	mS/cm	W0151-01 EPA	1	No
26/08/15								Trigger Level		
EPA 20/10/15					-					
04/03/15	MW-24	Dissolved	Field analysis	Biannual	9.00	8.33	mg/l	W0151-01 EPA	N/A	No
26/08/15		Oxygen						Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Level, Water	Field analysis	Biannual	11.45	11.28	mOD	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15								00		
04/03/15	MW-24	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15							,	Trigger Level	,	
EPA 20/10/15								ingger zever		
04/03/15	MW-24	pН	Field analysis	Biannual	7.30	7.27	рН	W0151-01 EPA	6 <ph<9< td=""><td>No</td></ph<9<>	No
26/08/15		pri	ricia analysis	Biannaan	7.50	//	pri		0.011.0	
								Trigger Level		
EPA 20/10/15 04/03/15	MW-24	Temperature	Field analysis	Biannual	13.40	11.40	oC	W0151-01 EPA	N/A	No
	10100-24	remperature	Field allalysis	Diamuai	13.40	11.40	00		N/A	NU
26/08/15								Trigger Level		
EPA 20/10/15		A11 - 11 - 11					"	11/0454 51 55		
04/03/15	MW-24	Alkalinity,	Lab analysis	Biannual	338.00	338.00	mg/l	W0151-01 EPA	N/A	No
26/08/15		Total						Trigger Level		
EPA 20/10/15					_			-		
04/03/15	MW-24	Boron	Lab analysis	Biannual	0.03	0.03	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Cadmium	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA	0.004	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Calcium	Lab analysis	Biannual	150.00	140.95	mg/l	W0151-01 EPA	N/A	No
26/08/15			•				<u>.</u>	Trigger Level	·	
EPA 20/10/15										
04/03/15	MW-24	Chromium,	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA	N/A	No
26/08/15		Total			0.00	5.00		Trigger Level		
20/08/15 FPA 20/10/15		iotai						INSSEI LEVEI		
04/03/15	MW-24	Coliforms,	Lab analysis	Biannual	78.00	78.00	cfus/100ml	W0151-01 EPA	N/A	No
	11111-24		Lau andlysis	DiaiIIIUdi	78.00	78.00	cius/100iiii		IN/A	NO
26/08/15		Faecal						Trigger Level		
EPA 20/10/15		0.11					6 1000 1	11/0454 21 52		. .
	MW-24	Coliforms,	Lab analysis	Biannual	1.00	1.00	cfus/100ml	W0151-01 EPA	N/A	No
04/03/15 26/08/15	10100-24	Total						Trigger Level		

Groundwater/	Son monit	oring templa	le		Lic No:	W0151-01		Year	2015	
04/03/15	MW-24	Copper	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA	0.5	No
26/08/15			-					Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA	N/A	No
	10100-24	Cyanice	Lab analysis	Diamitual	0.01	0.01	1116/1		19/5	NO
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Fluoride	Lab analysis	Biannual	0.30	0.30	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Iron	Lab analysis	Biannual	0.05	0.04	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level	,	
								Tingger Lever		
EPA 20/10/15			1.1	D:	0.01	0.00	"	11/0454 04 5D4		
04/03/15	MW-24	Lead	Lab analysis	Biannual	0.01	0.00	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Magnesium	Lab analysis	Biannual	14.00	12.70	mg/l	W0151-01 EPA	N/A	No
26/08/15			-					Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Manganese	Lab analysis	Biannual	0.01	0.00	mg/l	W0151-01 EPA	N/A	No
	11111-24	wanganese	Lab analysis	Diaimuai	0.01	0.00	iiig/i		IN/A	NU
26/08/15								Trigger Level		
EPA 20/10/15		+ +			+	+ .				
04/03/15	MW-24	Mercury	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Nickel	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA	N/A	No
26/08/15							0,	Trigger Level	,	
EPA 20/10/15								ingger Level		
	NAVA/ 24	Orthersheartha	Lab analysia	Discourse	0.00	0.04		W0151 01 504	NI / A	Na
04/03/15	MW-24	Orthophospha	Lab analysis	Biannual	0.06	0.04	mg/l	W0151-01 EPA	N/A	No
26/08/15		tes						Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Phosphorous,	Lab analysis	Biannual	0.05	0.05	mg/l	W0151-01 EPA	N/A	No
26/08/15		Total	-					Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Potassium	Lab analysis	Biannual	3.60	3.35	mg/l	W0151-01 EPA	N/A	No
26/08/15	10100-24	rotassium	Lab analysis	Diamitual	5.00	5.55	1116/1	Trigger Level	19/5	NO
								i rigger Level		
EPA 20/10/15										
04/03/15	MW-24	Residue on	Lab analysis	Biannual	445.00	445.00	mg/l	W0151-01 EPA	N/A	No
26/08/15		Evaporation						Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Sodium	Lab analysis	Biannual	19.00	18.60	mg/l	W0151-01 EPA	80	No
26/08/15			•				<u>.</u>	Trigger Level		
EPA 20/10/15										
04/03/15	MW-24	Total Oxidized	Lab analysis	Biannual	5.80	5.55	mg/l	W0151-01 EPA	N/A	No
	11111-24		Lan andlysis	Didilliudi	5.60	3.35	iiig/i		IN/A	NU
26/08/15		Nitrogen						Trigger Level		
FPA 20/10/15		+			-					
04/03/15	MW-24	Zinc	Lab analysis	Biannual	0.02	0.01	mg/l	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
EPA 20/10/15										
04/03/15	MW-25	Ammoniacal	Lab analysis	Biannual	0.03	0.03	mg/l NH4-N	W0151-01 EPA	N/A	No
	11110-25		Lab analysis	Didiffiudi	0.03	0.03	IIIg/IINH4-IN		IN/A	INO
26/08/15		Nitrogen						Trigger Level		
04/03/15	MW-25	Chloride	Lab analysis	Biannual	34.5	34.15	mg/l	W0151-01 EPA	70	No
26/08/15								Trigger Level		
04/03/15	MW-25	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA	0.1	No
26/08/15	-	.,	. ,				0,	Trigger Level		
04/03/15	MW-25	Sulphate	Lab analysis	Biannual	32.4	31.855	mg/l	W0151-01 EPA	140	No
	10100-23	Jupilate	Lab analysis	Diamual	52.4	51.000	1116/1		140	NO
26/08/15	104/25	T. 10	1.1	D: .			h	Trigger Level	50	
04/03/15	MW-25	Total Organic	Lab analysis	Biannual	7	5	mg/l	W0151-01 EPA	50	No
26/08/15		Carbon				1		Trigger Level		

roundwater	/Soil monit	oring templa	ite		Lic No:	W0151-01		Year	2015	
04/03/15 26/08/15	MW-25	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-25	Conductivity	Field analysis	Biannual	0.8	0.703	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-25	Dissolved Oxygen	Field analysis	Biannual	9	8	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-25	Level, Water	Field analysis	Biannual	11.79	11.41	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-25	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-25	рН	Field analysis	Biannual	7.4	7.35	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-25	Temperature	Field analysis	Biannual	13	11.1	oC	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Alkalinity, Total	Lab analysis	Biannual	334	334	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Boron	Lab analysis	Biannual	0.026	0.026	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
26/08/2015	MW-25	Calcium	Lab analysis	Biannual	126.8	126.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Coliforms, Faecal	Lab analysis	Biannual	112	112	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Copper	Lab analysis	Biannual	0.009	0.009	mg/I	W0151-01 EPA Trigger Level	0.5	No
26/08/2015	MW-25	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/I	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/I	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Magnesium	Lab analysis	Biannual	11.6	11.6	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Phosphorous, Total	Lab analysis	Biannual	0.04	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Potassium	Lab analysis	Biannual	3.2	3.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Residue on Evaporation	Lab analysis	Biannual	444	444	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Sodium	Lab analysis	Biannual	17	17	mg/l	W0151-01 EPA Trigger Level	80	No
26/08/2015	MW-25	Total Oxidized Nitrogen	Lab analysis	Biannual	5.3	5.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
26/08/2015	MW-25	Zinc	Lab analysis	Biannual	0.004	0.004	mg/l	W0151-01 EPA Trigger Level	N/A	No

roundwater	Soil monit	oring templa	ite		Lic No:	W0151-01		Year	2015	
04/03/15	TW-2	Ammoniacal	Lab analysis	Biannual	4.5	4.31	mg/I NH4-N	W0151-01 EPA	N/A	No
26/08/15		Nitrogen						Trigger Level		
04/03/15	TW-2	Chloride	Lab analysis	Biannual	25.6	24.9	mg/l	W0151-01 EPA	70	No
26/08/15								Trigger Level		
04/03/15	TW-2	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA	0.1	No
26/08/15			-				_	Trigger Level		
04/03/15	TW-2	Sulphate	Lab analysis	Biannual	0.29	0.17	mg/l	W0151-01 EPA	140	No
26/08/15			,			-	5	Trigger Level	-	-
04/03/15	TW-2	Total Organic	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA	50	No
26/08/15		Carbon	Lab analysis	blannadi	-	-		Trigger Level	50	
20/00/15		carbon						ingger Lever		
04/03/15	TW-2	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15	100 2	coloui	ricia analysis	Diamitaan	WVALUE!	WYNEGE:	in/A	Trigger Level	14/4	110
04/03/15	TW-2	Conductivity	Field analysis	Biannual	0.3	0.295	mS/cm	W0151-01 EPA	1	No
26/08/15	100-2	conductivity	riciu analysis	Diamituai	0.5	0.255	msyem	Trigger Level	1	NO
04/03/15	TW-2	Dissolved	Field analysis	Biannual	9	5.755	mg/l	W0151-01 EPA	N/A	No
	1 44-2		Field alldlysis	Didilludi	9	5./55	mg/l		N/A	NU
26/08/15	TM 2	Oxygen	Field english	Discourse	14.00	14.015	00	Trigger Level	NI / A	Ne
04/03/15	TW-2	Level, Water	Field analysis	Biannual	14.69	14.015	mOD	W0151-01 EPA	N/A	No
26/08/15	T) 1 2	0.1	Field as a lot	Dian	40 (1 1 1 5 1	44 (4 1 1 1 5 1	N1/A	Trigger Level	NI / A	N
04/03/15	TW-2	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA	N/A	No
26/08/15				a) /	10.0			Trigger Level		
04/03/15	TW-2	рН	Field analysis	Biannual	10.3	9.85	рН	W0151-01 EPA	6 <ph<9< td=""><td>No</td></ph<9<>	No
26/08/15								Trigger Level		
04/03/15	TW-2	Temperature	Field analysis	Biannual	12.3	10.45	oC	W0151-01 EPA	N/A	No
26/08/15								Trigger Level		
26/08/2015	TW-2	Boron	Lab analysis	Biannual	0.027	0.027	mg/l	W0151-01 EPA	N/A	No
								Trigger Level		
26/08/2015	TW-2	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA	0.004	No
								Trigger Level		
26/08/2015	TW-2	Calcium	Lab analysis	Biannual	4.5	4.5	mg/l	W0151-01 EPA	N/A	No
							_	Trigger Level	-	
26/08/2015	TW-2	Chromium,	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA	N/A	No
		Total					_	Trigger Level	-	
26/08/2015	TW-2	Coliforms,	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA	N/A	No
		Faecal					,	Trigger Level		
26/08/2015	TW-2	Coliforms,	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA	N/A	No
-,, -010		Total				1		Trigger Level		
26/08/2015	TW-2	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA	0.5	No
00, 2010		coppe.		Diarinaar	0.007	0.007		Trigger Level	0.0	
26/08/2015	TW-2	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA	N/A	No
20/00/2013	1 44-2	Cyaniae	Lub undrysis	Diamuai	0.01	0.01	116/1	Trigger Level	17/5	110
26/08/2015	TW-2	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA	N/A	No
20/00/2013	1 44-2	Fluoride	Lab analysis	Diamuai	0.5	0.5	iiig/i	Trigger Level	N/A	NU
26/08/2015	TW-2	Iron	Lab analysis	Biannual	0.02	0.02	ma/l	W0151-01 EPA	N/A	No
20/00/2013	1 44-2	non	Lau alidiysis	Didilludi	0.02	0.02	mg/l		N/A	NU
26/08/2015	TW-2	10-1	Lab another	Discourse	0.005	0.005	r== /I	Trigger Level W0151-01 EPA	NI / A	N -
20/08/2015	1 VV-2	Lead	Lab analysis	Biannual	0.005	0.005	mg/l		N/A	No
26/00/2015	T 14 2			D :	10.5	10.5		Trigger Level	N1 / A	
26/08/2015	TW-2	Magnesium	Lab analysis	Biannual	10.5	10.5	mg/l	W0151-01 EPA	N/A	No
26/00/2217	-				C	0.010		Trigger Level	A1 / -	N
26/08/2015	TW-2	Manganese	Lab analysis	Biannual	0.012	0.012	mg/l	W0151-01 EPA	N/A	No
								Trigger Level		
26/08/2015	TW-2	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA	N/A	No
								Trigger Level		
26/08/2015	TW-2	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA	N/A	No
								Trigger Level		
26/08/2015	TW-2	Orthophospha	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA	N/A	No
		tes						Trigger Level		
26/08/2015	TW-2	Potassium	Lab analysis	Biannual	4.4	4.4	mg/l	W0151-01 EPA	N/A	No

Groundwater,	/Soil monite	oring templa	te		Lic No:	W0151-01		Year	2015		
26/08/2015	TW-2	Residue on	Lab analysis	Biannual	436	436	mg/l	W0151-01 EPA	N/A	No	
		Evaporation						Trigger Level			
26/08/2015	TW-2	Sodium	Lab analysis	Biannual	33.9	33.9	mg/l	W0151-01 EPA	80	No	
								Trigger Level			
26/08/2015	TW-2	Alkalinity,	Lab analysis	Biannual	146	146	mg/l	W0151-01 EPA	N/A	No	
		Total						Trigger Level			
26/08/2015	TW-2	Total Oxidized	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA	N/A	No	
		Nitrogen						Trigger Level			
26/08/2015	TW-2	Phosphorous,	Lab analysis	Biannual	0.037	0.037	mg/l	W0151-01 EPA	N/A	No	
		Total						Trigger Level			
26/08/2015	TW-2	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA	N/A	No	
								Trigger Level			

.+ 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

Table 2. DOWN	8									
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*		Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.12	0.09	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Chloride	Lab analysis	Quarterly	11	10.6	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Sulphate	Lab analysis	Quarterly	10.31	4.32	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Total Organic Carbon	Lab analysis	Quarterly	5	2.75	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Conductivity	Field analysis	Quarterly	0.785	0.752	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Dissolved Oxygen	Field analysis	Quarterly	7	6.25	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwater/	Soll monit	oring templa	ate		Lic No:	W0151-01		Year	2015	
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Level, Water	Field analysis	Quarterly	15.26	15.095	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	рН	Field analysis	Quarterly	7.9	7.65	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Temperature	Field analysis	Quarterly	14.6	12.15	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Alkalinity, Total	Lab analysis	Quarterly	400	400	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Boron	Lab analysis	Quarterly	0.03	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Cadmium	Lab analysis	Quarterly	0.0006	0.0006	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Calcium	Lab analysis	Quarterly	42.2	42.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Coliforms, Faecal	Lab analysis	Quarterly	26	26	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Coliforms, Total	Lab analysis	Quarterly	78	78	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Copper	Lab analysis	Quarterly	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Fluoride	Lab analysis	Quarterly	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwater/	Soli monit	oring templa	ate		Lic No:	W0151-01		Year	2015	
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Magnesium	Lab analysis	Quarterly	41	41	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Manganese	Lab analysis	Quarterly	0.035	0.035	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Mercury	Lab analysis	Quarterly	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Orthophospha tes	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Phosphorous, Total	Lab analysis	Quarterly	0.027	0.027	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Potassium	Lab analysis	Quarterly	3.7	3.7	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Residue on Evaporation	Lab analysis	Quarterly	433	433	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Sodium	Lab analysis	Quarterly	47.8	47.8	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Total Oxidized Nitrogen	Lab analysis	Quarterly	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	MW-1	Zinc	Lab analysis	Quarterly	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
					0	#DIV/0!				
04/03/15 26/08/15	MW-2	Ammoniacal Nitrogen	Lab analysis	Biannual	0.09	0.07	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Chloride	Lab analysis	Biannual	22.8	21.95	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-2	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-2	Sulphate	Lab analysis	Biannual	112.99	102.235	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-2	Total Organic Carbon	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA Trigger Level	50	No

Groundwater,	Soil monit	oring templa	ite		Lic No:	W0151-01		Year	2015	
04/03/15 26/08/15	MW-2	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Conductivity	Field analysis	Biannual	0.567	0.5435	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-2	Dissolved Oxygen	Field analysis	Biannual	5	4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Level, Water	Field analysis	Biannual	12.45	12.07	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	рН	Field analysis	Biannual	8.6	8.35	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-2	Temperature	Field analysis	Biannual	16.1	12.55	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Alkalinity, Total	Lab analysis	Biannual	176	176	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Boron	Lab analysis	Biannual	0.015	0.015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-2	Calcium	Lab analysis	Biannual	71.3	71.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Coliforms, Faecal	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Coliforms, Total	Lab analysis	Biannual	10	10	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-2	Cyanide	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Magnesium	Lab analysis	Biannual	11.2	11.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Manganese	Lab analysis	Biannual	0.353	0.353	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Phosphorous, Total	Lab analysis	Biannual	0.051	0.051	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Potassium	Lab analysis	Biannual	3	3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Residue on Evaporation	Lab analysis	Biannual	366	366	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Sodium	Lab analysis	Biannual	20.5	20.5	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-2	Total Oxidized Nitrogen	Lab analysis	Biannual	1	1	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-2	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-3	Ammoniacal Nitrogen	Lab analysis	Biannual	0.07	0.05	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Chloride	Lab analysis	Biannual	16.1	14.2	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-3	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-3	Sulphate	Lab analysis	Biannual	42.05	25.36	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-3	Total Organic Carbon	Lab analysis	Biannual	9	7.5	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-3	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Conductivity	Field analysis	Biannual	0.63	0.4395	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-3	Dissolved Oxygen	Field analysis	Biannual	8	7	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Level, Water	Field analysis	Biannual	11.95	11.65	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	рН	Field analysis	Biannual	7.8	7.7	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-3	Temperature	Field analysis	Biannual	13.3	12.15	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Alkalinity, Total	Lab analysis	Biannual	194	194	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Boron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-3	Calcium	Lab analysis	Biannual	73.8	73.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Coliforms, Faecal	Lab analysis	Biannual	302	302	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Coliforms, Total	Lab analysis	Biannual	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-3	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Iron	Lab analysis	Biannual	0.095	0.095	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Magnesium	Lab analysis	Biannual	4	4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-3	Phosphorous, Total	Lab analysis	Biannual	0.169	0.169	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Potassium	Lab analysis	Biannual	2.4	2.4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Residue on Evaporation	Lab analysis	Biannual	266	266	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Sodium	Lab analysis	Biannual	7	7	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-3	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-3	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
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04/03/15 26/08/15	MW-4	Ammoniacal Nitrogen	Lab analysis	Biannual	0.99	0.74	mg/I NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Chloride	Lab analysis	Biannual	40.00	38.70	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-4	Phenols, Total	Lab analysis	Biannual	0.10	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-4	Sulphate	Lab analysis	Biannual	62.65	47.79	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-4	Total Organic Carbon	Lab analysis	Biannual	5.00	4.50	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-4	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Conductivity	Field analysis	Biannual	0.81	0.74	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-4	Dissolved Oxygen	Field analysis	Biannual	6.50	5.17	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Level, Water	Field analysis	Biannual	11.93	11.63	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	рН	Field analysis	Biannual	7.50	7.37	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-4	Temperature	Field analysis	Biannual	13.50	11.90	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Alkalinity, Total	Lab analysis	Biannual	254.00	254.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Boron	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Cadmium	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-4	Calcium	Lab analysis	Biannual	110.00	94.60	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Chromium, Total	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Coliforms, Faecal	Lab analysis	Biannual	1.00	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Coliforms, Total	Lab analysis	Biannual	1.00	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Copper	Lab analysis	Biannual	0.01	0.00	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-4	Cyanide	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Fluoride	Lab analysis	Biannual	0.30	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-4	Iron	Lab analysis	Biannual	4.10	2.06	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-4	Lead	Lab analysis	Biannual	0.01	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Magnesium	Lab analysis	Biannual	16.00	14.45	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Manganese	Lab analysis	Biannual	0.57	0.45	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Mercury	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Nickel	Lab analysis	Biannual	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Orthophospha tes	Lab analysis	Biannual	0.06	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Phosphorous, Total	Lab analysis	Biannual	0.03	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Potassium	Lab analysis	Biannual	7.30	6.95	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Residue on Evaporation	Lab analysis	Biannual	305.00	305.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Sodium	Lab analysis	Biannual	26.00	25.25	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-4	Total Oxidized Nitrogen	Lab analysis	Biannual	0.60	0.40	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-4	Zinc	Lab analysis	Biannual	0.01	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Ammoniacal Nitrogen	Lab analysis	Biannual	0.16	0.095	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Chloride	Lab analysis	Biannual	35.7	32.75	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-5	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-5	Sulphate	Lab analysis	Biannual	83.79	72.23	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-5	Total Organic Carbon	Lab analysis	Biannual	3	2.5	mg/I	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-5	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Conductivity	Field analysis	Biannual	0.64	0.5975	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-5	Dissolved Oxygen	Field analysis	Biannual	6	6	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Level, Water	Field analysis	Biannual	12.23	11.95	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	рН	Field analysis	Biannual	7.8	7.75	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-5	Temperature	Field analysis	Biannual	13	11.25	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Alkalinity, Total	Lab analysis	Biannual	280	280	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Boron	Lab analysis	Biannual	0.054	0.054	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-5	Calcium	Lab analysis	Biannual	114	114	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-5	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-5	Coliforms, Faecal	Lab analysis	Biannual	80	80	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Coliforms, Total	Lab analysis	Biannual	50	50	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-5	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Magnesium	Lab analysis	Biannual	14.9	14.9	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Manganese	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Phosphorous, Total	Lab analysis	Biannual	0.051	0.051	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Potassium	Lab analysis	Biannual	7.2	7.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Residue on Evaporation	Lab analysis	Biannual	394	394	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Sodium	Lab analysis	Biannual	22.7	22.7	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-5	Total Oxidized Nitrogen	Lab analysis	Biannual	2.8	2.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-5	Zinc	Lab analysis	Biannual	0.006	0.006	mg/l	W0151-01 EPA Trigger Level	N/A	No
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04/03/15 26/08/15	MW-6	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Chloride	Lab analysis	Biannual	15.3	15	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-6	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-6	Sulphate	Lab analysis	Biannual	36.29	32.44	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-6	Total Organic Carbon	Lab analysis	Biannual	7	6.5	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-6	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Conductivity	Field analysis	Biannual	0.496	0.453	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-6	Dissolved Oxygen	Field analysis	Biannual	9	8.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Level, Water	Field analysis	Biannual	12.18	11.945	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	рН	Field analysis	Biannual	7.7	7.7	pН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No

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04/03/15 26/08/15	MW-6	Temperature	Field analysis	Biannual	11.4	9.95	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Alkalinity, Total	Lab analysis	Biannual	176	176	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Boron	Lab analysis	Biannual	0.017	0.017	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-6	Calcium	Lab analysis	Biannual	55.5	55.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Coliforms, Faecal	Lab analysis	Biannual	22	22	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Coliforms, Total	Lab analysis	Biannual	4	4	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-6	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15 04/03/15	MW-6	Magnesium	Lab analysis	Biannual	3.3	3.3	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15 04/03/15	MW-6	Manganese	Lab analysis	Biannual	0.003	0.003	mg/l	Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15 04/03/15	MW-6	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-6	Nickel Orthophospha	Lab analysis	Biannual	0.002	0.002	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-6	tes Phosphorous,	Lab analysis	Biannual	0.23	0.23	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-6	Total	Lab analysis	Biannual	0.145	0.145	mg/l	Trigger Level W0151-01 EPA	N/A	No
<u>26/08/15</u> 04/03/15	MW-6	Potassium Residue on	Lab analysis	Biannual	26.2	26.2	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-6	Evaporation	Lab analysis	Biannual	259	259	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-6	Sodium	Lab analysis	Biannual	17.8	17.8	mg/l	Trigger Level	80	No
26/08/15	MW-6	Total Oxidized Nitrogen	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-6	Zinc	Lab analysis	Biannual	0.004	0.004	mg/l	W0151-01 EPA Trigger Level	N/A	No
					0	#DIV/0!				
04/03/15 26/08/15	MW-14	Ammoniacal Nitrogen	Lab analysis	Biannual	0.07	0.05	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Chloride	Lab analysis	Biannual	71.5	66.6	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-14	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-14	Sulphate	Lab analysis	Biannual	4.7	3.39	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-14	Total Organic Carbon	Lab analysis	Biannual	3	3	mg/l	W0151-01 EPA Trigger Level	50	No

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04/03/15 26/08/15	MW-14	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Conductivity	Field analysis	Biannual	0.326	0.313	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-14	Dissolved Oxygen	Field analysis	Biannual	4	4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Level, Water	Field analysis	Biannual	12.06	11.69	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	рН	Field analysis	Biannual	9.1	8.6	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-14	Temperature	Field analysis	Biannual	12.8	11.8	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Alkalinity, Total	Lab analysis	Biannual	52	52	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Boron	Lab analysis	Biannual	0.014	0.014	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-14	Calcium	Lab analysis	Biannual	12.8	12.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Coliforms, Faecal	Lab analysis	Biannual	4	4	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Coliforms, Total	Lab analysis	Biannual	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-14	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Fluoride	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15	MW-14	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15	MW-14	Magnesium	Lab analysis	Biannual	0.5	0.5	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15	MW-14	Manganese	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15	MW-14	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15 04/03/15	MW-14	Nickel Orthophospha	Lab analysis	Biannual	0.002	0.002	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15	MW-14	tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15	MW-14	Phosphorous, Total	Lab analysis	Biannual	0.037	0.037	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA	N/A	No
04/03/15 26/08/15 04/03/15	MW-14	Potassium Residue on	Lab analysis	Biannual	1.8	1.8	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15 04/03/15	MW-14	Evaporation	Lab analysis	Biannual	188	188	mg/l	Trigger Level W0151-01 EPA	N/A	No
26/08/15	MW-14	Sodium	Lab analysis	Biannual	43.1	43.1	mg/l	Trigger Level	80	No
04/03/15 26/08/15	MW-14	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-14	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-16	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/I NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Chloride	Lab analysis	Biannual	48	47.75	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-16	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-16	Sulphate	Lab analysis	Biannual	4.82	3.885	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-16	Total Organic Carbon	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-16	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Conductivity	Field analysis	Biannual	1.287	0.7935	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-16	Dissolved Oxygen	Field analysis	Biannual	4	4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Level, Water	Field analysis	Biannual	11.46	11.095	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	рН	Field analysis	Biannual	8.6	8.3	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 26/08/15	MW-16	Temperature	Field analysis	Biannual	11.8	11.4	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Alkalinity, Total	Lab analysis	Biannual	88	88	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Boron	Lab analysis	Biannual	0.019	0.019	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-16	Calcium	Lab analysis	Biannual	16.3	16.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Coliforms, Faecal	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-16	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Magnesium	Lab analysis	Biannual	4.3	4.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-16	Phosphorous, Total	Lab analysis	Biannual	0.029	0.029	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Potassium	Lab analysis	Biannual	2	2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-16	Residue on Evaporation	Lab analysis	Biannual	168	168	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Sodium	Lab analysis	Biannual	34.8	34.8	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-16	Total Oxidized Nitrogen	Lab analysis	Biannual	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-16	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
20/00/15										
04/03/15 26/08/15	MW-17	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Chloride	Lab analysis	Biannual	43.5	41.05	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15	MW-17	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15	MW-17	Sulphate	Lab analysis	Biannual	87.87	78.44	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15	MW-17	Total Organic Carbon	Lab analysis	Biannual	6	5.5	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15	MW-17	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-17	Conductivity	Field analysis	Biannual	0.98	0.84	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15	MW-17	Dissolved Oxygen	Field analysis	Biannual	7	6	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Level, Water	Field analysis	Biannual	11.4	11.015	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	рН	Field analysis	Biannual	7.2	7.2	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15	MW-17	Temperature	Field analysis	Biannual	12.1	11.3	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Alkalinity, Total	Lab analysis	Biannual	416	416	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Boron	Lab analysis	Biannual	0.066	0.066	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15	MW-17	Calcium	Lab analysis	Biannual	152.8	152.8	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Coliforms, Faecal	Lab analysis	Biannual	6	6	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15	MW-17	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15	MW-17	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No

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04/03/15 26/08/15	MW-17	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Magnesium	Lab analysis	Biannual	17.7	17.7	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Phosphorous, Total	Lab analysis	Biannual	0.036	0.036	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Potassium	Lab analysis	Biannual	6.4	6.4	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Residue on Evaporation	Lab analysis	Biannual	668	668	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Sodium	Lab analysis	Biannual	26.5	26.5	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-17	Total Oxidized Nitrogen	Lab analysis	Biannual	2.2	2.2	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-17	Zinc	Lab analysis	Biannual	0.004	0.004	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15										
26/08/15 EPA 20/10/15	MW-20	Ammoniacal Nitrogen	Lab analysis	Biannual	0.04	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Chloride	Lab analysis	Biannual	42	39.7	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Sulphate	Lab analysis	Biannual	84	78.11333333	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 26/08/15 FPA 20/10/15	MW-20	Total Organic Carbon	Lab analysis	Biannual	5	4.5	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Conductivity	Field analysis	Biannual	0.999	0.993	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Dissolved Oxygen	Field analysis	Biannual	7	6.533333333	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Level, Water	Field analysis	Biannual	12.24	11.34	mOD	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 FPA 20/10/15	MW-20	рН	Field analysis	Biannual	7.3	7.2	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No

Groundwater	/Soil monit	oring templa	ate		Lic No:	W0151-01		Year	2015	
04/03/15 26/08/15 FPA 20/10/15	MW-20	Temperature	Field analysis	Biannual	14.7	13.266666667	oC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Alkalinity, Total	Lab analysis	Biannual	404	404	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Boron	Lab analysis	Biannual	0.092	0.084	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Calcium	Lab analysis	Biannual	170	160.25	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Chromium, Total	Lab analysis	Biannual	0.0021	0.0018	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Coliforms, Faecal	Lab analysis	Biannual	134	134	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 FPA 20/10/15	MW-20	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Copper	Lab analysis	Biannual	0.007	0.0041	mg/I	W0151-01 EPA Trigger Level	0.5	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Iron	Lab analysis	Biannual	0.034	0.027	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Lead	Lab analysis	Biannual	0.005	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 FPA 20/10/15	MW-20	Magnesium	Lab analysis	Biannual	21	19.45	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 FPA 20/10/15	MW-20	Manganese	Lab analysis	Biannual	0.0082	0.0051	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Mercury	Lab analysis	Biannual	0.001	0.00051	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Nickel	Lab analysis	Biannual	0.002	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Orthophospha tes	Lab analysis	Biannual	0.06	0.035	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Phosphorous, Total	Lab analysis	Biannual	0.106	0.106	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15 EPA 20/10/15	MW-20	Potassium	Lab analysis	Biannual	7.8	7.15	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwate	er/Soil monit	oring templa	ate		Lic No:	W0151-01		Year	2015		
04/03/15 26/08/15 FPA 20/10/15	MW-20	Residue on Evaporation	Lab analysis	Biannual	606	606	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15 EPA 20/10/15	MW-20	Sodium	Lab analysis	Biannual	31	29.7	mg/l	W0151-01 EPA Trigger Level	80	No	
04/03/15 26/08/15 EPA 20/10/15	MW-20	Total Oxidized Nitrogen	Lab analysis	Biannual	2.2	2.1	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15 EPA 20/10/15	MW-20	Zinc	Lab analysis	Biannual	0.0093	0.00615	mg/l	W0151-01 EPA Trigger Level	N/A	No	
					0	#DIV/0!					
04/03/15 26/08/15	MW-22	Ammoniacal Nitrogen	Lab analysis	Biannual	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Chloride	Lab analysis	Biannual	180.2	133.7	mg/l	W0151-01 EPA Trigger Level	70	No	
04/03/15 26/08/15	MW-22	Phenols, Total	Lab analysis	Biannual	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	No	
04/03/15 26/08/15	MW-22	Sulphate	Lab analysis	Biannual	30.07	22.61	mg/l	W0151-01 EPA Trigger Level	140	No	
04/03/15 26/08/15	MW-22	Total Organic Carbon	Lab analysis	Biannual	4	3.5	mg/l	W0151-01 EPA Trigger Level	50	No	
04/03/15 26/08/15	MW-22	Colour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Conductivity	Field analysis	Biannual	1.404	1.277	mS/cm	W0151-01 EPA Trigger Level	1	No	
04/03/15 26/08/15	MW-22	Dissolved Oxygen	Field analysis	Biannual	8	7.5	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Level, Water	Field analysis	Biannual	14.98	14.905	mOD	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Odour	Field analysis	Biannual	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	рН	Field analysis	Biannual	7.3	7.25	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td><td></td></ph<9<>	No	
04/03/15 26/08/15	MW-22	Temperature	Field analysis	Biannual	12.4	11.4	oC	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Alkalinity, Total	Lab analysis	Biannual	368	368	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Boron	Lab analysis	Biannual	0.015	0.015	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Cadmium	Lab analysis	Biannual	0.0005	0.0005	mg/I	W0151-01 EPA Trigger Level	0.004	No	
04/03/15 26/08/15	MW-22	Calcium	Lab analysis	Biannual	176	176	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Chromium, Total	Lab analysis	Biannual	0.0015	0.0015	mg/I	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Coliforms, Faecal	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Coliforms, Total	Lab analysis	Biannual	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Copper	Lab analysis	Biannual	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	No	
04/03/15 26/08/15	MW-22	Cyanide	Lab analysis	Biannual	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Fluoride	Lab analysis	Biannual	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 26/08/15	MW-22	Iron	Lab analysis	Biannual	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No	

Groundwater/	Soil monite	oring templa	ite		Lic No:	W0151-01		Year	2015	
04/03/15 26/08/15	MW-22	Lead	Lab analysis	Biannual	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Magnesium	Lab analysis	Biannual	10.9	10.9	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Manganese	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Mercury	Lab analysis	Biannual	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Nickel	Lab analysis	Biannual	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Orthophospha tes	Lab analysis	Biannual	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Phosphorous, Total	Lab analysis	Biannual	0.026	0.026	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Potassium	Lab analysis	Biannual	1.3	1.3	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Residue on Evaporation	Lab analysis	Biannual	968	968	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Sodium	Lab analysis	Biannual	80.3	80.3	mg/l	W0151-01 EPA Trigger Level	80	No
04/03/15 26/08/15	MW-22	Total Oxidized Nitrogen	Lab analysis	Biannual	9.5	9.5	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 26/08/15	MW-22	Zinc	Lab analysis	Biannual	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	No
					0	#DIV/0!				
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.08	0.06	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Chloride	Lab analysis	Quarterly	54.60	39.13	mg/l	W0151-01 EPA Trigger Level	70	No
04/03/15 07/05/15 6/08/15 20/11/15	PW-3	Phenols, Total	Lab analysis	Quarterly	0.10	0.10	mg/l	W0151-01 EPA Trigger Level	0.1	No
04/03/15 07/05/15 6/08/15 20/11/15	PW-3	Sulphate	Lab analysis	Quarterly	89.21	73.07	mg/l	W0151-01 EPA Trigger Level	140	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Total Organic Carbon	Lab analysis	Quarterly	4.00	2.50	mg/l	W0151-01 EPA Trigger Level	50	No
04/03/15 07/05/15 6/08/15 20/11/15	PW-3	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 6/08/15 20/11/15	PW-3	Conductivity	Field analysis	Quarterly	0.81	0.74	mS/cm	W0151-01 EPA Trigger Level	1	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Dissolved Oxygen	Field analysis	Quarterly	10.00	7.50	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwater,	soli monit	oring templa	ate		Lic No:	W0151-01		Year	2015	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Odour	Field analysis	Quarterly	0.00	0.00	N/A	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	рН	Field analysis	Quarterly	8.40	7.80	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>No</td></ph<9<>	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Temperature	Field analysis	Quarterly	17.10	12.33	οC	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Boron	Lab analysis	Quarterly	0.04	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Cadmium	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	0.004	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Calcium	Lab analysis	Quarterly	119.10	119.10	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Chromium, Total	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Coliforms, Faecal	Lab analysis	Quarterly	1.00	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Coliforms, Total	Lab analysis	Quarterly	1.00	1.00	cfus/100ml	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Copper	Lab analysis	Quarterly	0.18	0.18	mg/l	W0151-01 EPA Trigger Level	0.5	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Fluoride	Lab analysis	Quarterly	0.30	0.30	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Lead	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	No
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Magnesium	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No

Groundwater/	Soil monit	oring templa	ate		Lic No:	W0151-01		Year	2015		
04/03/15 07/05/15 6/08/15 20/11/15	PW-3	Manganese	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Mercury	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Nickel	Lab analysis	Quarterly	0.00	0.00	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Orthophospha tes	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Phosphorous, Total	Lab analysis	Quarterly	0.04	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	No	1
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Potassium	Lab analysis	Quarterly	1.60	1.60	mg/l	W0151-01 EPA Trigger Level	N/A	No	
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Residue on Evaporation	Lab analysis	Quarterly	359.00	359.00	mg/l	W0151-01 EPA Trigger Level	N/A	No	1
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Sodium	Lab analysis	Quarterly	30.60	30.60	mg/l	W0151-01 EPA Trigger Level	80	No	1
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Total Alkalinity	Lab analysis	Quarterly	262.00	262.00	mg/l	W0151-01 EPA Trigger Level	N/A	No	1
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Total Oxidized Nitrogen	Lab analysis	Quarterly	1.40	1.40	mg/l	W0151-01 EPA Trigger Level	N/A	No	1
04/03/15 07/05/15 26/08/15 20/11/15	PW-3	Zinc	Lab analysis	Quarterly	0.11	0.11	mg/l	W0151-01 EPA Trigger Level	N/A	No	1
							SELECT			SELECT	
trend in results for a	substance indi pring Guideline the use of soil	cates that further Template Report and groundwater	interpretation of n at the link provide standards/ generi	nonitoring results is i d and submit separa EPA. c assessment	required. In addition to tely through ALDER as a	completing the above a licensee return or as	Value (IGV) or an upward e table, please complete the s otherwise instructed by the of Contaminated Land and		water monitorin PA Licensed Sites	e template	
**Depending on loca			are to Surface Wat		ality Standards (SWEQS		Id be used in addition to the o a drinking water supply	Surface water EQS	<u>Groundwater</u> <u>regulations</u> GTV's	<u>Drinking water</u> (private supply) standards	Drinking water (public supply) standards

Table 3: Soil results

Groundwater/Soil monitoring template			Lic No:	W0151-01		Year	2015		
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit		
							SELECT		
							SELECT		

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

Environmental Liabilities template	Lic No:	W0151-01	Year	2015
 Click here to access EPA guidance on Environmental Liabilities and Financia	al			
provision				

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	
		Submitted and not agreed by EPA;	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	To be agreed	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	To be agreed	
6	Financial Provision for ELRA - type	surance with Environmental Impairmer	nt Liability cover,
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	sure plan submitted and not agreed by	EPA
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	To be agreed	
12	Financial Provision for Closure - type	Other please specify	
13	Financial provision for Closure expiry date	Enter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0151-01	Year	2015
	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					
T	additional information	Yes				
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance					
3		Yes				
	Do you maintain an environmental documentation/communication system to inform the public on]	

	Do you maintain an environmental documentation/communication system to inform the public
4	environmental performance of the facility, as required by the licence

	Yes	
e	Yes	
ce		
	Yes	
n		
	Yes	

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

Noise monitoring summary report	Lic No:	W0151-01	Year 2015
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes]
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?	<u>Noise</u> <u>Guidance</u> note NG4	Yes	
3 Does your site have a noise reduction plan		No	
4 When was the noise reduction plan last updated?		Enter date	
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since survey?	the last noise	No	

Table N1: Noise monitoring summary											
Date of monitoring	Time period	Noise location (on site)	location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	identified was 5dB penalty applied?	noise sources on site, & extraneous noise ex.	Is <u>site</u> compliant with noise limits (day/evening/night)?
12/06/2015	Daytime	NMP5		66	53	70	82	No	Yes	the EPA noise limit values of 55dB LAeq (30 Minutes) at the noise monitoring locations NMP5, NMP7	Yes
12/06/2015	Daytime	NMP7		53	40	55	80	No	Yes	and NMP8. However the dominant noise source at these locations was road	Yes
12/06/2015	Daytime	NMP8		57	35	52	83	No	Yes	traffic along the local road network. Site operations at the Murphy Environmental	Yes
12/06/2015	Daytime	NMP13		50	46	52	69	No	Yes	facility were subjectively audible at noise monitoring locations NMP7 and NMP13.	Yes

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

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

SELECT

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

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	W0151-01	Year

			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.	
	SEAI - Large		
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 Network (LIEN)	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	

Table R1 Energy usag					
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	
Total Energy Used (MWHrs)	891.234	1016.362			
Total Energy Generated (MWHrs)					
Total Renewable Energy Generated (N	1WHrs)				
Electricity Consumption (MWHrs)	16.7	19.8			
Fossil Fuels Consumption:					
Heavy Fuel Oil (m3)	86	98			SEAI: 10.169kWh/litre of diesel
Light Fuel Oil (m3)					
Natural gas (m3)					
Coal/Solid fuel (metric tonnes)					
Peat (metric tonnes)					
Renewable Biomass					
Renewable energy generated on site					

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

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

Table R2 Water usage	e on site				Water Emissions	Water Consumption	
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	79.25	91.5					
Recycled water							
Total							

Resource Usage/Energy efficiency summary	Lic No:	W0151-01	Year	2015

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

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

Table R3 Waste Stream					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)	1.07	0.72		0.35	

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

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

Complaints and Incidents summary template	Lic No:	W0151-01	Year	2015	
 Complaints					
	Additional inform	nation			
Have you received any environmental complaints in the current reporting year? If yes please complete summary					
details of complaints received on site in table 1 below No					

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

	Incidents			
				Additional information
Have any incidents occurred on site in the current reporting				
year in Table 2 b	Yes			

year

	ion on how to report and what nstitutes an incident	What is an incident												
Table 2 Incidents su	mmary		1											
						Other	Activity in				Preventative		1	
			Incident category*please			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
		Other location (monitoring				Routine LF gas								
12/02/2014	4 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	12/02/2014	Medium
		Other location (monitoring				Routine GW								
30/03/2014	4 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	30/03/2014	Medium
		Other location (monitoring				Routine GW								
08/04/2014	4 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	08/04/2014	Medium
		Other location (monitoring				Routine LF gas								
16/09/2014	4 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	16/09/2014	Medium
		Other location (monitoring				Routine GW								
27/11/2014	4 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	27/11/2014	Medium
		Other location (monitoring				Routine GW								
05/01/2015	5 Trigger level reached	points)	1. Minor	No Uncontrolled release		monitoring	Normal activities	EPA	Recurring	Ongoing monitoring		Complete	05/01/2015	Medium
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year		6												
Total number of														
incidents previous														
vear		4												

44

Likelihood of reoccurence

Com	nplaints and l	ncidents summary templat	2	Lic No:	W0151-01	Year	2015	
% redu	duction/							
increa	ase	33%						

WASTE SUMMARY	Lic No:	W0151-01	Year	2015
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL	IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown lis	t click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		
		Additional Information
Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is 1 to be captured through PRTR reporting)	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	Yes	See 'Incidents' tab

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

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

Licenced annual	EWC code	Source of waste accepted		Quantity of waste	Quantity of waste accepted in previous	Reduction/	Reason for		Disposal/Recovery or treatment		Comments -
tonnage limit for your				accepted in current	reporting year (tonnes)	Increase over		only applies if the waste	operation carried out at your	waste remaining	
site (total			Please enter an accurate	reporting year (tonnes)		previous year +/ -	from previous	has a packaging	site and the description of this	on site at the	
tonnes/annum)			and detailed description			%	reporting year	component	operation	end of reporting	
			 which applies to 							year (tonnes)	
			relevant EWC code								
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
			Catalogue EWC codes								
									R5-Recycling/reclamation or		
									other inorganic materials which		
		17- CONSTRUCTION AND							includes soil celaning resuling in		
		DEMOLITION WASTES							recovery of the soil and		
		(INCLUDING EXCAVATED SOIL							recycling of inorganic		
750,000	170504	FROM CONTAMINATED SITES)	Soil & Stones	630,879.32	511,676.87	23%	market demand	0%	construction materials	0	
									R5-Recycling/reclamation or		
									other inorganic materials which		
		17- CONSTRUCTION AND DEMOLITION WASTES							includes soil celaning resuling in		
		INCLUDING EXCAVATED SOIL							recovery of the soil and		
750,000	170101	• • • • • • • • •	Connecto	118,283.95	37,713.00	21.40/	market demand		recycling of inorganic construction materials	0	
750,000	170101	FROM CONTAMINATED SITES)	concrete	118,283.95	37,713.00	214%	market aemana	0%	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

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

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

SECTION D-TO BE 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 reco	overed

Table 3 General information-Landfill only

SELECT			
SELECT			
SELECT			
SELECT			

WASTE SUMMARY					Lic No:	W0151-01		Year	2015				
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?			Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Zone 6	2003	Not applicable	Yes	Private	Inert	subject to filling ra	No	No	No				

SELECT

SELECT

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

Was meterological								
monitoring in							Has the statement	
compliance with			Was SW monitored in			Was topography	under S53(A)(5) of	
Landfill Directive (LD)		Was Landfill Gas monitored in	compliance with LD			of the site	WMA been	
standard in reporting	Was leachate monitored in compliance	compliance with LD standard in	standard in reporting	Have GW trigger levels	Were emission limit values agreed with	surveyed in	submitted in	
year +	with LD standard in reporting year	reporting year	year	been established	the Agency (ELVs)	reporting year	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 waste that should be permanently		
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments

*please note this includes daily cover area Table 6 Leachate-Landfill only

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

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

1								
	Volume of leachate in reporting year(m3)			Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
	reporting year(ins)	Ecachate (BOD) mass toat (kg/annuni)	(kg/annuni)	ioau (kg/ainuin)	mass toau kg/annum	Etachate treatment on-site	icacinate u catilicit	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			Was surface emissions monitoring performed during the reporting	
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	year?	Comments
			SELECT	



| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Limited | Filename : W0151_2015 PRTR.xls | Return Year : 2015 |

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Guidance to completing the PRTR workbook

Environmental Protection Agency

PRTR Returns Workbook

. 1	REFERENCE TEAR 2015						
	1. FACILITY IDENTIFICATION						
1							
	Parent Company Name	Murphy Concrete Manufacturing Limited					
ſ	Facility Name	Murphy Concrete Manufacturing Limited					
-	PRTR Identification Number	W0151					
[Licence Number	W0151-01					

Classes of Activity	
No.	class_name
-	Refer to PRTR class activities below

Address 1	Sarsfieldtown
Address 2	Gormanstown
Address 3	
Address 4	
	Meath
Country	
Coordinates of Location	
River Basin District	IEEA
NACE Code	
	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	0879718085
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	-
Number of Operating Hours in Year	
Number of Employees	
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Name
General
Landfills
General
02)
No

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 Limited | Filename : W0151_2015 PRTR.xls | Return Year : 2015 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

Additional Data Requested from Land	fill operators									
For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) I lared 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 polutants above. Please complete the table below:										
Landfill:	Murphy Concrete Manufacturing Limited				-					
Please enter summary data on the quantities of methane flared and / or utilised			Meth	nod Used						
			liidu	Designation or	Facility Total Capacity m3					
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour					
Total estimated methane generation (as per										
site model)					N/A					
Methane flared						(Total Flaring Capacity)				
Methane utilised in engine/s					0.0	(Total Utilising Capacity)				
Net methane emission (as reported in Section										
A above)	0.0				N/A					

4.2 RELEASES TO WATERS	Link to previous years emissions data	PRTR# : V	V0151 Facility Nam	e : Murphy Concrete Manufacturing	Limited Filename : W0151	2015 Pi	RTR.xls Return Year : 2015	1	30/03/2016 11:58			
SECTION A : SECTOR SPECIFIC PRTR POL	RELEASES TO WATERS	Data on an	nbient monitoring o	storm/surface water or groundwa	ter, conducted as part of ye Please enter all quan	nly concerns Releases from your facility						
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	0.0	T (Total) KG/Year 0.0	QUANTITY A (Accidental) KG/Year 0.		Í		
* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button SECTION B - DEMANNING DDTD DOL I LITANTE												
SECTION B : REMAINING PRTR POLLUTANTS RELEASES TO WATERS Please enter all quantities in this section in KGs QUANTITY												
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
	* Select a row by double-clicking on the Pollutant Name (Column	B) then click	k the delete button			0.0	0.0	0.	0 0.0	i		
SECTION C : REMAINING POLLUTANT EMIS												
PO	RELEASES TO WATERS				Please enter all quan	itities i	this section in KGs	QUANTITY				
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1		T (Total) KG/Year	A (Accidental) KG/Year				
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 Limited | Filename : W0151_201 30/03/2016 11:58

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WAS	TE-WATER TR	EATMENT OR SE	WER	Please enter all quantities in this section in KGs				
POLLUTANT		N	IETHOD	QUANTITY				
			Method Used					
No. Annex II Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
				0.0		0.0 0.0	0.0	

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

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

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

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

4.4 RELEASES TO LAND	Link to previous years emissions data	PRTR# : V	/0151 Facility Name : I	Murphy Concrete Manufacturing Limited File	name : W0151_2015 PRTR.xls R	eturn Year : 2015	30/03/2016 11	:58
SECTION A : PRTR POLLUTANTS								
	RELEASES TO LAND				Please enter all quantitie	s in this section in KC	is	
	POLLUTANT		N	IETHOD		QUANTITY		
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Yea	ar
					0.)	0.0 0	0.0
SECTION B : REMAINING POLLUTANT	EMISSIONS (as required in your Licence)							
	RELEASES TO LAND				Please enter all quantitie	s in this section in KC	is	
	POLLUTANT		N	IETHOD			QUANTITY	
				Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Yea	ar
					0.	0	0.0	0.0
	* Select a row by double-clicking on the Pollutant Name (Column E	3) then click th	e delete button					

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRTR# : W0151 Facility Name : Murphy Concrete Manufacturing Limited Filename : W0151_2015 PRTR.xls Return Year : 2015 Previous and the second seco												
Terre (or Dentire time	European Waste		Quantity (Tonnes per Year)		Waste Treatment		Method Used	Location of	Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Nor</u> <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
Within the Country	20 03 01	No	0.72	mixed municipal waste	D15	E	Volume Calculation	Offsite in Ireland	Panda,W0140-03	Beauparc,Navan,Co. Meath,0,Ireland Beauparc,Navan,Co.		
Within the Country	20 03 01	No	0.35	mixed municipal waste	R3	Е	Volume Calculation	Offsite in Ireland	Panda,W0140-03	Meath,0,Ireland		

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

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