Facility Information Summa	ry		_	
AER Reporting Year	2017			
Licence Register Number	W0151-01			
Name of site	Murphy	Environmer	ntal Gormanston	
Site Location	Sarsfieldst	own, Gorma	anston, Co. Meath	
NACE Code		3832	2	
Class/Classes of Activity	3.	1, 3.13, 4.3,	4.4, 4.13	
National Grid Reference (6E, 6 N)		-6.25153 5	53.654	

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

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.

No waste was accepted into the site in 2017. Gravel processing commenced at the site in May 2017.

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.

Kerstie Flanagan

Kerstie Flanagan

O9/03/2017

Environmental Consultant

(or nominated, suitably qualified and experienced deputy)

	AIR-summary	template				Lic No:	W0151-01		Year	201	7
	Answer all question	ns and complete all table	s where relevant								
								Additional informati	on	1	
1	reporting year a		ions. If <mark>you do not h</mark>	iave licenced emis	nd A2 below for the current sions and do not complete a implete the tables	No	monitoring locat and Q4, 2017 (t monitoring was con ions in Q3, 2017 (25/ 14/11/17 to 12/12/17 of the dust ELV set in	07/17 to 25/08/17) 7) - there were no		
	Periodi	c/Non-Continuous M	Nonitoring								
2	Are there any resu	ults in breach of licence red	quirements? If yes ple TableA1 below		etails in the comment section of	SELECT					
3		g carried out in accordanc d using the basic air monit		Basic air monitoring checklist	AGN2	SELECT					
	Table A1: Licer	nsed Mass Emissions	/Ambient data-p	eriodic monito	ring (non-continuous)						
	Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
		SELECT			SELECT		SELECT	SELECT	SELECT		
		JLLLOI			JELLET		JELECT	SLLECT	SLLECT		
		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 paramet	er							
		Continuous N	Monitoring								
4	Does your site car	ry out continuous air emis	sions monitoring?			SELECT					
	If yes please revie	ew your continuous monito	oring data and report	the required fields b	pelow in Table A2 and compare						

SELECT

SELECT

it to its relevant Emission Limit Value (ELV)

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

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

All	R-summary template	Lic No:	W0151-01	Year	2017	
7						
,	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	SELECT				

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table

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

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

Solvent use and management on site 8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5 SELECT **Table A4: Solvent Management Plan Summary** Please refer to linked solvent regulations to regulations complete table 5 and 6 Total VOC Emission limit value Reporting year Total solvent input on Total VOC Total VOC Compliance site (kg) emissions to Air emissions as %of from entire site solvent input Total Emission Limit Value (direct and fugitive) (ELV) in licence or any revision therof SELECT SELECT

^{**} 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

summary	template				Lic No:	W0151-01		Year	2017					
Table A5:	Solvent Mass Balar	ice summary												
	(I) Innuts (kg)		(O) Outputs (kg)											
	(I) Inputs (kg)			(0)	Outputs (kg)									
Solvent	(I) Inputs (kg)	-	Solvents lost in	Collected waste solvent (kg)	Fugitive Organic		Solvents destroyed							
	(i) iliputs (kg)	emission in waste	water (kg)		Solvent (kg)	in other ways e.g.	onsite through	Solvent to air (kg)						
		1	1		ı	ı	Total							

	ring returns su	mmary template-W	ATER/WASTEW	ATER(SEWER		Lic No:	W0151-01		Year	2017					
		,					Additional information			2017					
please com further questi	plete table W2 ar ions. If <mark>you do not</mark> W1 and or W2 for	missions direct to surface and W3 below for the cur thave licenced emission storm water analysis a cence to carry out visual	rent reporting yea s you <u>only</u> need to nd visual inspection	r and answer complete table ons	No		e found to be dry in throughout 20 sible to obtain any sample for anal								
		or near your site? If yes													
summaris	sing <u>only any evid</u>	ence of contamination n	oted during visual	inspections	Yes										
Table	W1 Storm wat	er monitoring							•						
					ELV or trigger										
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments					
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT						
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT						
*trigger values i	may be agreed by th	ne Agency outside of licence	e conditions												
Tab	le W2 Visual in	spections-Please on	y enter details	where contan	nination was ol	served.									
Location	Date of					Source of									
Reference	inspection		Description of cont	amination		contamination	Corrective action	on	Comm	nents					
			NO CONTAMIN			SELECT									
	ļ					SELECT									
Was all mon	con itoring carried out i	licence requirements? If y nment section of Table W3 n accordance with EPA y of Aqueous Monitoring		ief details in the	SELECT		Additional information								
Data Reporte	d to the EPA? If no	please detail what areas	Lab Quality	Assessment of											
4 require im	provement in additi	ional information box	checklist	results checklist	SELECT										
Table W3: L	icensed Emission	ons to water and /or	wastewater (s	ewer)-periodi	c monitoring (r	on-continuous)									
						FIV									
						ELV or trigger									
						values in licence or							Procedural		
Emission	Emission	Parameter/		Frequency of		values in licence or any revision			Unit of	Compliant with		Procedural	Procedural reference	Annual mass load	
Emission reference no:	released to	SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period		Licence Compliance criteria	Measured value	measurement	licence	Method of analysis	reference source		Annual mass load (kg)	Comments
			Type of sample SELECT	Frequency of monitoring	Averaging period SELECT	any revision	Licence Compliance criteria SELECT	Measured value			Method of analysis SELECT		reference		Comments
reference no:	released to SELECT	SubstanceNote 1 SELECT	SELECT	Frequency of monitoring		any revision		Measured value	measurement	licence		reference source	reference		Comments
reference no: Note 1: Volume	released to SELECT tric flow shall be inc	SubstanceNote 1 SELECT Cluded as a reportable para	SELECT	monitoring	SELECT	any revision therof ^{Note 2}	SELECT	Measured value	measurement	licence		reference source	reference		Comments
reference no: Note 1: Volume	released to SELECT tric flow shall be inc	SubstanceNote 1 SELECT	SELECT	monitoring	SELECT	any revision therof ^{Note 2}	SELECT	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I	released to SELECT stric flow shall be incemission Limit Value monitoring	SubstanceNote 1 SELECT Cluded as a reportable paraces (ELV) do not apply to yo	SELECT meter ur licence please cor	monitoring	SELECT	any revision therof ^{Note 2}	SELECT	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I	released to SELECT stric flow shall be incemission Limit Value monitoring	SubstanceNote 1 SELECT Cluded as a reportable para	SELECT meter ur licence please cor	monitoring	SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous Does your site I If yes please su	released to SELECT tric flow shall be inc Emission Limit Value monitoring carry out continuou	SubstanceNote 1 SELECT Luded as a reportable parases (ELV) do not apply to you as emissions to water/sewes inuous monitoring data by	SELECT meter ur licence please cor er monitoring?	monitoring mpare results agai	SELECT SELECT nst EQS for Surface	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site of If yes please su its relevant Emi	released to SELECT tric flow shall be incemission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (i monitoring equipm	SubstanceNote 1 SELECT Luded as a reportable parases (ELV) do not apply to you as emissions to water/sewes inuous monitoring data by	SELECT Immeter ur licence please cor or monitoring? elow in Table W4 ar	monitoring mpare results agained compare it to	SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous table W4 below	released to SELECT tric flow shall be intended in the sense of the se	SubstanceNote 1 SELECT Luded as a reportable para- es (ELV) do not apply to yo s emissions to water/sewe inuous monitoring data be ELV) ent experience downtime	meter ur licence please cor r monitoring? elow in Table W4 ar	monitoring mpare results agained compare it to	SELECT SELECT nst EQS for Surface	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emil 6 Did continuous table Wa below Do you have a p site?	released to SELECT tric flow shall be incermission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (is monitoring equipm released to	SubstanceNote 1 SELECT Cluded as a reportable para: se (ELV) do not apply to yo s emissions to water/sewe inuous monitoring data be LLV) ent experience downtime: ntract for each piece of coi	meter ur licence please cor r monitoring? elow in Table W4 ar If yes please record	mpare results agained compare it to	SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous 7 Do you have a f site? Did abatement	released to SELECT tric flow shall be incermission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (is monitoring equipm released to	SubstanceNote 1 SELECT Luded as a reportable para- es (ELV) do not apply to yo s emissions to water/sewe inuous monitoring data be ELV) ent experience downtime	meter ur licence please cor r monitoring? elow in Table W4 ar If yes please record	mpare results agained compare it to	SELECT SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous table W4 below 7 Site? Did abatement 8 below	released to SELECT tric flow shall be inc Emission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (i monitoring equipm oroactive service coi	SubstanceNote 1 SELECT Cluded as a reportable para: se (ELV) do not apply to yo s emissions to water/sewe inuous monitoring data be LLV) ent experience downtime: ntract for each piece of coi	meter ur licence please cor r monitoring? elow in Table W4 ar ? If yes please recorn ntinuous monitoring ?? If yes please com	monitoring mpare results agai and compare it to d downtime in equipment on plete table W5	SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous table W4 below 7 Site? Did abatement 8 below	released to SELECT tric flow shall be inc Emission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (i monitoring equipm oroactive service coi	SubstanceNote 1 SELECT Liuded as a reportable paraces (ELV) do not apply to you as emissions to water/sewe inuous monitoring data be ELV) ent experience downtime: Intract for each piece of court during the reporting year	meter ur licence please cor r monitoring? elow in Table W4 ar ? If yes please recorn ntinuous monitoring ?? If yes please com	monitoring mpare results agai and compare it to d downtime in equipment on plete table W5	SELECT SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	Measured value	measurement	licence		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous table W4 below 7 Site? Did abatement 8 below	released to SELECT tric flow shall be inc Emission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (i monitoring equipm oroactive service coi	SubstanceNote 1 SELECT Liuded as a reportable paraces (ELV) do not apply to you as emissions to water/sewe inuous monitoring data be ELV) ent experience downtime: Intract for each piece of court during the reporting year	meter ur licence please cor ur monitoring? elow in Table W4 ar ? If yes please recorn tinuous monitoring tinuous monitoring tinuous monitoring	monitoring mpare results agai and compare it to d downtime in equipment on plete table W5	SELECT SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards	% change +/- from	measurement SELECT	BEENCE SELECT		reference source	reference		Comments
Note 1: Volume Note 2: Where I Continuous 5 Does your site I If yes please su its relevant Emi 6 Did continuous table W4 below 7 Site? Did abatement 8 below	released to SELECT tric flow shall be inc Emission Limit Value monitoring carry out continuou immarise your cont ission Limit Value (i monitoring equipm oroactive service coi	SubstanceNote 1 SELECT Liuded as a reportable paraces (ELV) do not apply to you as emissions to water/sewe inuous monitoring data be ELV) ent experience downtime: Intract for each piece of court during the reporting year	meter ur licence please cor r monitoring? elow in Table W4 ar ? If yes please recorn ntinuous monitoring ?? If yes please com tinuous monitoring	monitoring mpare results agai and compare it to d downtime in equipment on plete table W5	SELECT SELECT SELECT SELECT	any revision therof ^{Note 2}	SELECT Septor quality standards		measurement	licence		reference source	reference		Comments

AER Monitori	ng returns su	mmary template-WA	ATER/WASTEWA	ATER(SEWER)		Lic No:	W0151-01	Year	2017	
	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)		 action*	Was a report submitted to the EPA?	When was this report submitted?
				SELECT	

^{*}Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline tes	sting template				Lic No:	W0151-01		Year	201	7				
Bund testing		dropdown menu cli	ck to see options				Additional information	_						
containment structure	es on site, in addition to al	ategrity testing on bunds and cont I bunds which failed the integrity e the licenced testing period (mol	test-all bunding structures w	hich failed including mobile			Bund testing is stipulated in W0151- 01; however fuel is no longer stored on site (the plant items which required diesel are no longer on site). Bund testing has, therefore, not been required (diesel tanks are							
Does the site maintain 3 type units and mobile I 4 How many bunds are o 5 How many of these bu 6 How many mobile bunds i 8 How many of these mc 9 How many sumps on si 0 How many of these sur Please list any sump in	bunds) on site? unds have been tested with nds are on site? included in the bund test	reground pipelines (including storn thin the required test schedule? schedule? ted within the required test sched egrity test schedule? ithin the test schedule?		ps and containers? (contair	ers refers to "Chemstore'	SELECT SELECT SELECT SELECT SELECT	empty).							
2 If yes to Q11 are these	e failsafe systems included	in a maintenance and testing pro ur integrity test programme?	gramme?			SELECT SELECT]						
Tab	ble B1: Summary details of	f bund /containment structure int	egrity test]				_						
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Resu retes curre repoi
	SELECT SELECT					SELECT SELECT			SELECT	SELECT		SELECT SELECT		+-
Has integrity testing be 5 line with BS8007/EPA 0 6 Are channels/transfer	mply with 25% or 110% containment been carried out in accorda Guidance? • systems to remote contain	nce with licence requirements an		bunding and storage guideli	nes.	SELECT SELECT SELECT	Commentary		1					
Are you required by yo 1 underground structure 2 Please provide integrit	es and pipelines on site wh ty testing frequency period	ategrity testing* on underground s nich failed the integrity test and a d ness testing of all underground pi	Il which have not been teste	d within the integrity test p		SELECT SELECT								
		pipeline/underground structures in		1										
Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)			
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT	1		
		Please use comm	nentary for additional details	not answered by tables/ qu	estions above									

Groundwater/Soil monitoring template Lic No: W0151-01 Year 2017

Comments Are you required to carry out groundwater monitoring as part of your licence requirements? Please provide an interpretation of groundwater monitoring data in yes 2 Are you required to carry out soil monitoring as part of your licence requirements? no the interpretation box below or if you require additional space please Do you extract groundwater for use on site? If yes please specify use in comment section include a groundwater/contaminated land monitoring results no interpretaion as an additional section in this AER Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 4 there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Groundwater Report (link in cell G8) and submit separately through ALDER as monitoring a licensee return AND answer questions 5-12 below. $_{\mbox{\scriptsize 5}}$ Is the contamination related to operations at the facility (either current and/or Groundwater is monitored on a quarterly basis and a quarterly report 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site N/A submitted to the Agency. Results were generally in conformance with relevant limit values and the EPA trigger levels set for the site. There 7 Please specify the proposed time frame for the remediation strategy N/A were a number of breaches of trigger levels/ELVs reported to the Agency as minor incidents during the reporting year (detailed in ELRA for site submitted 8 in 2015; will be updated ncidents' tab). Exceedances relative to tirgger levels/ELVs are thought in 2018 to be largely related to external sources, and not as a result of the Is there a licence condition to carry out/update ELRA for the site? Groundwater Risk operation of the subject facility. screening complted and 9 submitted to Agency in Has any type of risk assesment been carried out for the site? June 2017 yes Conceptual Site Model developed and 10 submitted to Agency in Has a Conceptual Site Model been developed for the site? June 2017 11 Have potential receptors been identified on and off site? yes 12 Is there evidence that contamination is migrating offsite?

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance		Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*		Upward trend in pollutant concentration over last 5 years of monitoring data
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.060	0.038	mg/l	W0151-01 EPA Trigger Level	N/A	no

Groundy	vater/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Chloride	Lab analysis	Quarterly	47.9	46.075	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Sulphate	Lab analysis	Quarterly	62.2	55.35	mg/l	W0151-01 EPA Trigger Level	140	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Total Organic Carbon	Lab analysis	Quarterly	2	2	mg/l	W0151-01 EPA Trigger Level	50	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Colour	Field analysis	Quarterly	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Conductivity	Field analysis	Quarterly	0.396	0.332625	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Dissolved Oxygen	Field analysis	Quarterly	7	4.3925	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Level, Water	Field analysis	Quarterly	12.07	11.7275	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	рН	Field analysis	Quarterly	7.8	7.5025	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-18	Temperature	Field analysis	Quarterly	12	11.375	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Alkalinity, Total	Lab analysis	Annually	58	58	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Boron	Lab analysis	Annually	0.013	0.013	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-18	Calcium	Lab analysis	Annually	25.7	25.7	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Coliforms, Total	Lab analysis	Annually	13.7	13.7	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	

Ground	water/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017	MW-18	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-18	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Fluoride	Lab analysis	Annually	0.4	0.4	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Magnesium	Lab analysis	Annually	1.8	1.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Manganese	Lab analysis	Annually	0.046	0.046	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Phosphorous, Total	Lab analysis	Annually	0.058	0.058	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Potassium	Lab analysis	Annually	2	2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Residue on Evaporation	Lab analysis	Annually	253	253	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-18	Sodium	Lab analysis	Annually	38.7	38.7	mg/l	W0151-01 EPA Trigger Level	80	no	
01/02/2017	MW-18	Total Oxidized Nitrogen	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	IMM-18	Zinc	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	M/M/ 10	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Chloride	Lab analysis	Quarterly	121.3	79.95	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Sulphate	Lab analysis	Quarterly	185.4	135.175	mg/l	W0151-01 EPA Trigger Level	140	no	

_	vater/Soil m	onitoring to	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Total Organic Carbon	Lab analysis	Quarterly	9	4.5	mg/l	W0151-01 EPA Trigger Level	50	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Colour	Field analysis	Quarterly	Clear	Clear	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Conductivity	Field analysis	Quarterly	1.271	0.9865	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Dissolved Oxygen	Field analysis	Quarterly	6	4.665	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Level, Water	Field analysis	Quarterly	12.06	11.8575	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Odour	Field analysis	Quarterly	None	None	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	рН	Field analysis	Quarterly	7.4	7.325	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-19	Temperature	Field analysis	Quarterly	12.1	11.1	ос	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Alkalinity, Total	Lab analysis	Annually	406	406	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Boron	Lab analysis	Annually	0.038	0.038	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-19	Calcium	Lab analysis	Annually	146.5	146.5	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Coliforms, Faecal	Lab analysis	Annually	3.1	3.1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Coliforms, Total	Lab analysis	Annually	13.7	13.7	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-19	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-19	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	

G	round	water/Soil m	onitoring te	emplate	1	Lic No:	W0151-01		Year	2017		
0	1/02/2017	MW-19	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Magnesium	Lab analysis	Annually	13.1	13.1	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Phosphorous, Total	Lab analysis	Annually	0.929	0.929	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Potassium	Lab analysis	Annually	3.8	3.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Residue on Evaporation	Lab analysis	Annually	1530	1530	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017	MW-19	Sodium	Lab analysis	Annually	28.4	28.4	mg/l	W0151-01 EPA Trigger Level	80	no	
0	1/02/2017	MW-19	Total Oxidized Nitrogen	Lab analysis	Annually	7.9	7.9	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	1/02/2017	MW-19	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.14	0.0575	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Chloride	Lab analysis	Quarterly	229.2	122.95	mg/l	W0151-01 EPA Trigger Level	70	no	
0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
0 2 0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Sulphate	Lab analysis	Quarterly	153.4	92.8	mg/l	W0151-01 EPA Trigger Level	140	no	
0 2 0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Total Organic Carbon	Lab analysis	Quarterly	8	4.75	mg/l	W0151-01 EPA Trigger Level	50	no	
0 2 0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
0 2 0	1/02/2017 6/06/2017 7/09/2017 5/12/2017	MW-21	Conductivity	Field analysis	Quarterly	1.342	1.16625	mS/cm	W0151-01 EPA Trigger Level	1	no	

Groundy	water/Soil m	onitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-21	Dissolved Oxygen	Field analysis	Quarterly	7	5.965	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-21	Level, Water	Field analysis	Quarterly	12.23	11.9375	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-21	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-21	рН	Field analysis	Quarterly	7.36	7.085	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-21	Temperature	Field analysis	Quarterly	13.3	11.7	ос	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Alkalinity, Total	Lab analysis	Annually	512	512	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Boron	Lab analysis	Annually	0.049	0.049	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-21	Calcium	Lab analysis	Annually	205.4	205.4	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Coliforms, Total	Lab analysis	Annually	4.1	4.1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-21	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Magnesium	Lab analysis	Annually	0	0	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-21	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	

	Groundy	water/Soil m	onitoring te	mplate		Lic No:	W0151-01		Year	2017		
	01/02/2017	MW-21	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Phosphorous, Total	Lab analysis	Annually	0.46	0.46	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Potassium	Lab analysis	Annually	3.2	3.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Residue on Evaporation	Lab analysis	Annually	1112	1112	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Sodium	Lab analysis	Annually	35.7	35.7	mg/l	W0151-01 EPA Trigger Level	80	no	
	01/02/2017	MW-21	Total Oxidized Nitrogen	Lab analysis	Annually	8.5	8.5	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017	MW-21	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Chloride	Lab analysis	Quarterly	29.6	25.8	mg/l	W0151-01 EPA Trigger Level	70	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
•	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Sulphate	Lab analysis	Quarterly	43.2	31.425	mg/l	W0151-01 EPA Trigger Level	140	no	
•	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Total Organic Carbon	Lab analysis	Quarterly	6	3.5	mg/l	W0151-01 EPA Trigger Level	50	no	
•	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Conductivity	Field analysis	Quarterly	0.826	0.70175	mS/cm	W0151-01 EPA Trigger Level	1	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Dissolved Oxygen	Field analysis	Quarterly	8	6.3875	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Level, Water	Field analysis	Quarterly	10.67	10.23	mOD	W0151-01 EPA Trigger Level	N/A	no	
	01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	

Groundy	water/Soil m	onitoring to	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	рН	Field analysis	Quarterly	7.49	7.305	рН	W0151-01 EPA Trigger Level	6 <ph<9< th=""><th>no</th></ph<9<>	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Temperature	Field analysis	Quarterly	15.2	12.35	оС	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-24	Alkalinity, Total	Lab analysis	Annually	362	362	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Boron	Lab analysis	Annually	0.027	0.027	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no
01/02/2017	MW-24	Calcium	Lab analysis	Annually	135.8	135.8	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Coliforms, Total	Lab analysis	Annually	144.5	144.5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no
01/02/2017	MW-24	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Magnesium	Lab analysis	Annually	11.7	11.7	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Phosphorous, Total	Lab analysis	Annually	0.553	0.553	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Potassium	Lab analysis	Annually	3.2	3.2	mg/l	W0151-01 EPA Trigger Level	N/A	no

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Groundw	vater/Soil n	nonitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017	MW-24	Residue on Evaporation	Lab analysis	Annually	963	963	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Sodium	Lab analysis	Annually	20.4	20.4	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/2017	MW-24	Total Oxidized Nitrogen	Lab analysis	Annually	4.2	4.2	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-24	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Chloride	Lab analysis	Quarterly	48.4	44.45	mg/l	W0151-01 EPA Trigger Level	70	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Sulphate	Lab analysis	Quarterly	56.5	49.625	mg/l	W0151-01 EPA Trigger Level	140	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Total Organic Carbon	Lab analysis	Quarterly	5	3.25	mg/l	W0151-01 EPA Trigger Level	50	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Conductivity	Field analysis	Quarterly	0.781	0.628975	mS/cm	W0151-01 EPA Trigger Level	1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Dissolved Oxygen	Field analysis	Quarterly	6.37	4.9175	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Level, Water	Field analysis	Quarterly	10.81	10.28	mOD	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	рН	Field analysis	Quarterly	7.6	7.4675	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td></ph<9<>	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-25	Temperature	Field analysis	Quarterly	12.3	11.35	ос	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-25	Alkalinity, Total	Lab analysis	Annually	282	282	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-25	Boron	Lab analysis	Annually	0.04	0.04	mg/l	W0151-01 EPA Trigger Level	N/A	no

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Ground	dwater/Soil m	nonitoring te	mplate		Lic No:	W0151-01		Year	2017	,
01/02/201	7 MW-25	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no
01/02/201	7 MW-25	Calcium	Lab analysis	Annually	91.8	91.8	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Coliforms, Total	Lab analysis	Annually	#VALUE!	#VALUE!	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no
01/02/201	7 MW-25	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Fluoride	Lab analysis	Annually	0.6	0.6	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Magnesium	Lab analysis	Annually	19.2	19.2	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Phosphorous, Total	Lab analysis	Annually	0.137	0.137	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Potassium	Lab analysis	Annually	4.3	4.3	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Residue on Evaporation	Lab analysis	Annually	547	547	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Sodium	Lab analysis	Annually	42	42	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/201	7 MW-25	Total Oxidized Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/201	7 MW-25	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no

Groundwat	ter/Soil m	onitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Ammoniacal Nitrogen	Lab analysis	Quarterly	10.05	6.24	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Chloride	Lab analysis	Quarterly	27.9	26.375	mg/l	W0151-01 EPA Trigger Level	70	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Sulphate	Lab analysis	Quarterly	0.9	0.625	mg/l	W0151-01 EPA Trigger Level	140	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Total Organic Carbon	Lab analysis	Quarterly	6	3.25	mg/l	W0151-01 EPA Trigger Level	50	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Conductivity	Field analysis	Quarterly	0.364	0.308375	mS/cm	W0151-01 EPA Trigger Level	1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Dissolved Oxygen	Field analysis	Quarterly	4	2.5275	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Level, Water	Field analysis	Quarterly	13.02	12.5775	mOD	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	рН	Field analysis	Quarterly	9	8.795	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td></ph<9<>	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	TW-2	Temperature	Field analysis	Quarterly	12	11.4	оС	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Boron	Lab analysis	Annually	0.028	0.028	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Calcium	Lab analysis	Annually	8	8	mg/l	W0151-01 EPA Trigger Level	0.004	no
01/02/2017	TW-2	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Coliforms, Faecal	Lab analysis	Annually	42	42	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Coliforms, Total	Lab analysis	Annually	200.5	200.5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no

Ground	water/Soil m	onitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017	TW-2	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	0.5	no
01/02/2017	TW-2	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Magnesium	Lab analysis	Annually	10.4	10.4	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Manganese	Lab analysis	Annually	0.046	0.046	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Potassium	Lab analysis	Annually	5	5	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Residue on Evaporation	Lab analysis	Annually	175	175	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Sodium	Lab analysis	Annually	33.9	33.9	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Alkalinity, Total	Lab analysis	Annually	144	144	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Total Oxidized Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/2017	TW-2	Phosphorous, Total	Lab analysis	Annually	0.089	0.089	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	TW-2	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no

^{.+} where average indicates arithmetic mean

Table 2: Downgradient Groundwater monitoring results

Table 2.	Downgraule	iit Gibuiluv	vater momit	illig results						
										Upward trend in
										yearly average
										pollutant
	Sample									concentration
Date of	location	Parameter/		Monitoring	Maximum	Average				over last 5 years
sampling	reference	Substance	Methodology	frequency	Concentration	Concentration	unit	GTV's*	SELECT**	of monitoring data

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

Groundy	vater/Soil m	onitoring te	mplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Ammoniacal Nitrogen	Lab analysis	Quarterly	1.57	0.7875	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Chloride	Lab analysis	Quarterly	31.7	24.45	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Sulphate	Lab analysis	Quarterly	4.5	2.375	mg/l	W0151-01 EPA Trigger Level	140	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Total Organic Carbon	Lab analysis	Quarterly	8	3.75	mg/l	W0151-01 EPA Trigger Level	50	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Colour	Field analysis	Quarterly	N/A	N/A	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Conductivity	Field analysis	Quarterly	0.71	0.51975	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Dissolved Oxygen	Field analysis	Quarterly	9	4.9075	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Level, Water	Field analysis	Quarterly	15.26	15.0825	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	рН	Field analysis	Quarterly	7.68	7.565	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-1	Temperature	Field analysis	Quarterly	13.4	12.375	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Alkalinity, Total	Lab analysis	Annually	100	100	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Boron	Lab analysis	Annually	0.016	0.016	mg/I	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Cadmium	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-1	Calcium	Lab analysis	Annually	20.9	20.9	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	

Ground	lwater/Soil m	onitoring to	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017	MW-1	Coliforms, Total	Lab analysis	Annually	45.3	45.3	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-1	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Magnesium	Lab analysis	Annually	1.5	1.5	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Manganese	Lab analysis	Annually	0.012	0.012	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Phosphorous, Total	Lab analysis	Annually	0.031	0.031	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Potassium	Lab analysis	Annually	5.8	5.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Residue on Evaporation	Lab analysis	Annually	333	333	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	, MW-1	Sodium	Lab analysis	Annually	9.7	9.7	mg/l	W0151-01 EPA Trigger Level	80	no	
01/02/2017	, MW-1	Total Oxidized Nitrogen	Lab analysis	Annually	0.6	0.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-1	Zinc	Lab analysis	Annually	0.011	0.011	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	,	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.3	0.1725	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	,	Chloride	Lab analysis	Quarterly	47.8	44.35	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	,	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	

Groundy	water/Soil m	nonitoring te	mplate		Lic No:	W0151-01		Year	2017	
01/02/2017										
26/06/2017 07/09/2017								W0151-01 EPA	140	
05/12/2017	MW-2	Sulphate	Lab analysis	Quarterly	105.2	65.075	mg/l	Trigger Level		no
01/02/2017				Z						
26/06/2017										
07/09/2017		Total Organic						W0151-01 EPA	50	
05/12/2017	MW-2	Carbon	Lab analysis	Quarterly	2	2	mg/l	Trigger Level		no
01/02/2017 26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-2	Colour	Field analysis	Quarterly	N/A	N/A	N/A	Trigger Level		no
01/02/2017										
26/06/2017									1	
07/09/2017 05/12/2017	MW-2	Conductivity	Field analysis	Quarterly	0.75	0.50475	mS/cm	W0151-01 EPA Trigger Level	_	no
01/02/2017	10100-2	Conductivity	rielu allalysis	Quarterly	0.73	0.30473	mayem	Trigger Level		110
26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-2	Dissolved Oxygen	Field analysis	Quarterly	4	2.575	mg/l	Trigger Level		no
01/02/2017										
26/06/2017 07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-2	Level, Water	Field analysis	Quarterly	11.98	11.6	mOD	Trigger Level		no
01/02/2017										
26/06/2017									N/A	
07/09/2017 05/12/2017	MW-2	Odour	Field analysis	Quarterly	N/A	N/A	N/A	W0151-01 EPA Trigger Level	,	no
01/02/2017	IVIVV-Z	Odour	rieiu alialysis	Quarterly	IN/A	N/A	N/A	Trigger Level		110
26/06/2017										
07/09/2017								W0151-01 EPA	6 <ph<9< td=""><td></td></ph<9<>	
05/12/2017	MW-2	pH	Field analysis	Quarterly	9.1	8.205	рН	Trigger Level		no
01/02/2017 26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-2	Temperature	Field analysis	Quarterly	13.4	9.695	оС	Trigger Level		no
01/02/2017					400	400		W0151-01 EPA	N/A	
	MW-2	Alkalinity, Total	Lab analysis	Annually	120	120	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
. , .	MW-2	Boron	Lab analysis	Annually	0.016	0.016	mg/l	Trigger Level	,,,	no
01/02/2017	MW-2	Codestina	Lab ac-li-i-	Annually	0.0005	0.0005	ma /I	W0151-01 EPA	0.004	no
	IVIVV-Z	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
	MW-2	Calcium	Lab analysis	Annually	66.6	66.6	mg/l	Trigger Level	,	no
04 (00 (
01/02/2017	MW-2	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no
	IVIVV-Z	Cironium, rotal	Lau allalysis	Aimudily	0.0015	0.0015	mg/i	migger Level		110
01/02/2017								W0151-01 EPA	N/A	
	MW-2	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	Trigger Level	,	no
01/02/2017	MW-2	Coliforms, Total	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no
	IVI VV-Z	Comornis, Total	Lau aildiysis	Amually	1	1	Cru3/ 100mii	migger Level		110
01/02/2017								W0151-01 EPA	0.5	
	MW-2	Copper	Lab analysis	Annually	0.007	0.007	mg/l	Trigger Level		no
04 (00 (
01/02/2017	MW-2	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no
	IVIVV-Z	Cyaniue	ran anaiksiz	Aimudily	0.01	0.01	IIIg/I	migger revel		no

	/ C - ''										
Groundw	vater/Soil n	nonitoring te	mplate		Lic No:	W0151-01		Year	2017		
01/02/2017								W0151-01 EPA	N/A		
.,.,	MW-2	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	Trigger Level	14/7	no	
01/02/2017	MW-2	Iron	Lab analysis	Annually	0.023	0.023	mg/l	W0151-01 EPA Trigger Level	N/A	no	
	10100-2	11011	Lab allalysis	Allitually	0.023	0.023	mg/i	Trigger Level		110	i
01/02/2017								W0151-01 EPA	N/A		
	MW-2	Lead	Lab analysis	Annually	0.005	0.005	mg/l	Trigger Level		no	
01/02/2017								W0151-01 EPA			
01/02/2017	MW-2	Magnesium	Lab analysis	Annually	12.7	12.7	mg/l	Trigger Level	N/A	no	
		Ĭ	,	,							i
01/02/2017								W0151-01 EPA	N/A		
	MW-2	Manganese	Lab analysis	Annually	0.357	0.357	mg/l	Trigger Level		no	1
01/02/2017								W0151-01 EPA	N/A		
	MW-2	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	Trigger Level	N/A	no	
01/02/2017	MW-2	Nickel	Lab analysis	Annually	0.02	0.02	ma/l	W0151-01 EPA Trigger Level	N/A	no	
\longrightarrow	IVIVV-Z	INICKEI	ran ayaiksis	Annually	0.02	0.02	mg/l	rrigger Level		110	ł
01/02/2017								W0151-01 EPA	N/A		
	MW-2	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	Trigger Level		no	
01/02/2017		Dhaaahaaaa						W0151-01 EPA			
01/02/2017	MW-2	Phosphorous, Total	Lab analysis	Annually	0.295	0.295	mg/l	Trigger Level	N/A	no	
				,				88			
01/02/2017								W0151-01 EPA	N/A		
	MW-2	Potassium	Lab analysis	Annually	3.1	3.1	mg/l	Trigger Level		no	1
01/02/2017		Residue on						W0151-01 EPA	N/A		
01/02/2017	MW-2	Evaporation	Lab analysis	Annually	782	782	mg/l	Trigger Level	N/A	no	
											1
01/02/2017	MW-2	0.11						W0151-01 EPA	80		
	IVIVV-2	Sodium	Lab analysis	Annually	24.8	24.8	mg/l	Trigger Level		no	i
01/02/2017		Total Oxidized						W0151-01 EPA	N/A		
	MW-2	Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	Trigger Level		no	
01/02/2017								W0151-01 EPA			
01/02/201/	MW-2	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	Trigger Level	N/A	no	
01/02/2017		1		,				50			1
26/06/2017									N/A		
07/09/2017 05/12/2017	MW-3	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.48	0.2125	mg/l NH4-N	W0151-01 EPA Trigger Level	.,,,,	no	
01/02/2017	C-AAIAI	Mitrogen	Lau allalysis	Quarterly	0.46	0.2123	1118/114114-14	migger Level		110	ł
26/06/2017									70		
07/09/2017								W0151-01 EPA	70		
05/12/2017 01/02/2017	MW-3	Chloride	Lab analysis	Quarterly	12	10.5	mg/l	Trigger Level		no	l
26/06/2017											
07/09/2017								W0151-01 EPA	0.1		
05/12/2017	MW-3	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	Trigger Level		no	
01/02/2017 26/06/2017											
07/09/2017								W0151-01 EPA	140		
05/12/2017	MW-3	Sulphate	Lab analysis	Quarterly	21	16.125	mg/l	Trigger Level		no	
01/02/2017											
		1		1	1	1					4
26/06/2017 07/09/2017		Total Organic						W0151-01 EPA	50		

Groundw	vater/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017										
26/06/2017									N/A	
07/09/2017 05/12/2017	MW-3	Colour	Field analysis	Quarterly	N/A	N/A	N/A	W0151-01 EPA Trigger Level	.,	no
01/02/2017	10100-3	Coloui	rielu allalysis	Quarterly	IV/A	N/A	N/A	Trigger Level		110
26/06/2017										
07/09/2017								W0151-01 EPA	1	
05/12/2017	MW-3	Conductivity	Field analysis	Quarterly	0.534	0.3945	mS/cm	Trigger Level		no
01/02/2017 26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-3	Dissolved Oxygen	Field analysis	Quarterly	5.42	2.905	mg/l	Trigger Level		no
01/02/2017										
26/06/2017									N/A	
07/09/2017 05/12/2017	MW-3	Level, Water	Field analysis	Quarterly	11.12	10.8725	mOD	W0151-01 EPA Trigger Level	.,	no
01/02/2017	10100-3	Level, water	rielu allalysis	Quarterly	11.12	10.8723	IIIOD	Trigger Level		110
26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-3	Odour	Field analysis	Quarterly	N/A	N/A	N/A	Trigger Level		no
01/02/2017 26/06/2017										
07/09/2017								W0151-01 EPA	6 <ph<9< td=""><td></td></ph<9<>	
05/12/2017	MW-3	рН	Field analysis	Quarterly	7.8	7.54	pН	Trigger Level		no
01/02/2017										
26/06/2017 07/09/2017								W0151-01 EPA	N/A	
07/09/2017	MW-3	Temperature	Field analysis	Quarterly	12.8	11.325	оС	Trigger Level		no
05/12/2017		remperature	ricia anarysis	quarterry	12.0	11.525		THESE ECVE		no .
01/02/2017								W0151-01 EPA	N/A	
	MW-3	Alkalinity, Total	Lab analysis	Annually	236	236	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA		
01/02/2017	MW-3	Boron	Lab analysis	Annually	0.026	0.026	mg/l	Trigger Level	N/A	no
			,	,			U.	001		
01/02/2017								W0151-01 EPA	0.004	
	MW-3	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
01/02/2017	MW-3	Calcium	Lab analysis	Annually	88.4	88.4	mg/l	Trigger Level	N/A	no
			•	·						
01/02/2017								W0151-01 EPA	N/A	
+	MW-3	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
.,.,	MW-3	Coliforms, Faecal	Lab analysis	Annually	28.8	28.8	cfus/100ml	Trigger Level	14/7	no
01/02/2017	A 40 A / 2	California Tatal	tab analosis	A	200 5	200 5	-f /a 00 l	W0151-01 EPA	N/A	
	MW-3	Coliforms, Total	Lab analysis	Annually	200.5	200.5	cfus/100ml	Trigger Level		no
01/02/2017								W0151-01 EPA	0.5	
.,.,	MW-3	Copper	Lab analysis	Annually	N/A	N/A	mg/l	Trigger Level	0.5	no
01/02/2017								W0151-01 EPA	N/A	
	MW-3	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
, . ,	MW-3	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	Trigger Level	/5	no
01/02/2017	A 40.41 C	J	taka ti	Ammunitus	0.050	0.055	(1	W0151-01 EPA	N/A	200
	MW-3	Iron	Lab analysis	Annually	0.056	0.056	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
	MW-3	Lead	Lab analysis	Annually	0.005	0.005	mg/l	Trigger Level	/5	no
								_		

Ground	water/Soil n	nonitoring te	mplate		Lic No:	W0151-01		Year	2017		
			•								
01/02/2017	MW-3	Magnesium	Lab analysis	Annually	6.1	6.1	mg/I	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-3	Manganese	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-3	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-3	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
			Lab allalysis	Ailidally	0.00	0.00	mg/i			110	
01/02/2017	MW-3	Phosphorous, Total	Lab analysis	Annually	0.19	0.19	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-3	Potassium	Lab analysis	Annually	4.2	4.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-3	Residue on Evaporation	Lab analysis	Annually	327	327	mg/l	W0151-01 EPA Trigger Level	N/A	no	
		Evaporation	Lab allalysis	Ailidally	321	327	mg/i			110	
01/02/2017	MW-3	Sodium	Lab analysis	Annually	9.6	9.6	mg/l	W0151-01 EPA Trigger Level	80	no	
01/02/2017	MW-3	Total Oxidized Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Zine	Lab analysis	Annually	0.004	0.004	ma (I	W0151-01 EPA	N/A	no	
01/02/2017	MW-3	Zinc	Lab analysis	Annually	0.004	0.004	mg/l	Trigger Level		no	i
26/06/2017 07/09/2017 05/12/2017	MW-4	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.75	0.4225	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	200	
01/02/2017		Nitrogen	Lab allalysis	Quarterly	0.73	0.4225	IIIg/I INFI4-IN	rrigger Level		no	
26/06/2017 07/09/2017								W0151-01 EPA	70		
05/12/2017	MW-4	Chloride	Lab analysis	Quarterly	35.9	26.875	mg/l	Trigger Level		no	
01/02/2017 26/06/2017 07/09/2017								W0151-01 EPA	0.1		
05/12/2017 01/02/2017	MW-4	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	Trigger Level		no	
26/06/2017 07/09/2017	NO. 4	Culabata	tak asabula	Ourstank	4407.0	407.735		W0151-01 EPA	140		
05/12/2017 01/02/2017	MW-4	Sulphate	Lab analysis	Quarterly	1497.9	487.725	mg/l	Trigger Level		no	
26/06/2017 07/09/2017 05/12/2017	MW-4	Total Organic Carbon	Lah analysis	Quarterly	6	3.75	ma (I	W0151-01 EPA Trigger Level	50	lno.	
01/02/2017		Carbon	Lab analysis	Quarterly	ō	3./3	mg/l	migger revel		no	
26/06/2017 07/09/2017		Colour	Field analysis	Quarterly	N/A	N/A	N/A	W0151-01 EPA	N/A	no	
05/12/2017 01/02/2017	MW-4	Colour	Field analysis	Quarterly	N/A	N/A	N/A	Trigger Level		no	ĺ
26/06/2017 07/09/2017								W0151-01 EPA	1		
05/12/2017	MW-4	Conductivity	Field analysis	Quarterly	2.276	1.06725	mS/cm	Trigger Level		no	
01/02/2017 26/06/2017											
07/09/2017 05/12/2017	MW-4	Dissolved Oxygen	Field analysis	Quarterly	5.66	2.84	mg/l	W0151-01 EPA Trigger Level	N/A	no	

Ground	water/Soil n	nonitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017										
26/06/2017								14/04F4 04 FD4	N/A	
07/09/2017 05/12/2017	MW-4	Level, Water	Field analysis	Quarterly	11.81	11.155	mOD	W0151-01 EPA Trigger Level	,	no
01/02/2017	10100-4	Level, water	Field allalysis	Quarterly	11.01	11.133	mob	IIIggei Levei		110
26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-4	Odour	Field analysis	Quarterly	N/A	N/A	N/A	Trigger Level		no
01/02/2017										
26/06/2017									6 <ph<9< td=""><td></td></ph<9<>	
07/09/2017						7.0505		W0151-01 EPA	o (prito)	
05/12/2017 01/02/2017	MW-4	pH	Field analysis	Quarterly	7.4	7.2525	рН	Trigger Level		no
26/06/2017										
07/09/2017								W0151-01 EPA	N/A	
05/12/2017	MW-4	Temperature	Field analysis	Quarterly	12.8	11.275	oC	Trigger Level		no
		<u> </u>	•	,						
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Alkalinity, Total	Lab analysis	Annually	96	96	mg/l	Trigger Level		no
01/02/2017		D-	taka 1.1	A	0.000	0.000	II	W0151-01 EPA	N/A	
	MW-4	Boron	Lab analysis	Annually	0.033	0.033	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	0.004	
01/02/2017	MW-4	Cadmium	Lab analysis	Annually	0.0007	0.0007	mg/l	Trigger Level	0.004	no
				,				001		
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Calcium	Lab analysis	Annually	660.5	660.5	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA		
01/02/2017	MW-4	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	Trigger Level	N/A	no
						_				110
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Coliforms, Total	Lab analysis	Annually	7.5	7.5	cfus/100ml	Trigger Level		no
01/02/2017				. "	0.007			W0151-01 EPA	0.5	
	MW-4	Copper	Lab analysis	Annually	0.007	0.007	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
/ 02/ 201/	MW-4	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	Trigger Level	IN/A	no
	1		. ,	<u> </u>			-			
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	Trigger Level		no
01/02/2017	NA144 4	le	Lob or - brits	Annually	0.03	0.00	ma li	W0151-01 EPA	N/A	no
	MW-4	Iron	Lab analysis	Annually	0.02	0.02	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA	N/A	
-1,02,201/	MW-4	Lead	Lab analysis	Annually	0.005	0.005	mg/l	Trigger Level	IN/A	no
	1		, ,	1			-	00		
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Magnesium	Lab analysis	Annually	31.9	31.9	mg/l	Trigger Level		no
01/02/2017	l			l		1		W0151-01 EPA	N/A	
	MW-4	Manganese	Lab analysis	Annually	6.412	6.412	mg/l	Trigger Level		no
01/02/2017								W0151-01 EPA		
01/02/201/	MW-4	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	Trigger Level	N/A	no
		creary	200 onorysis		5.001	0.001	···or·	bbc. revel		
01/02/2017								W0151-01 EPA	N/A	
	MW-4	Nickel	Lab analysis	Annually	0.007	0.007	mg/l	Trigger Level	,	no

Groundw	vater/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017	
01/02/2017	MW-4	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-4	Phosphorous, Total	Lab analysis	Annually	0.236	0.236	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-4	Potassium	Lab analysis	Annually	9.6	9.6	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-4	Residue on Evaporation	Lab analysis	Annually	2503	2503	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-4	Sodium	Lab analysis	Annually	28.3	28.3	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/2017	MW-4	Total Oxidized Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-4	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.47	0.2675	mg/I NH4-N	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Chloride	Lab analysis	Quarterly	38.6	27.35	mg/l	W0151-01 EPA Trigger Level	70	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Sulphate	Lab analysis	Quarterly	85.4	47.4	mg/l	W0151-01 EPA Trigger Level	140	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Total Organic Carbon	Lab analysis	Quarterly	6	4.5	mg/l	W0151-01 EPA Trigger Level	50	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Conductivity	Field analysis	Quarterly	0.785	0.60875	mS/cm	W0151-01 EPA Trigger Level	1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Dissolved Oxygen	Field analysis	Quarterly	7	4.99	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Level, Water	Field analysis	Quarterly	11.34	11.025	mOD	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-5	рН	Field analysis	Quarterly	7.6	7.5225	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td></ph<9<>	no

Groundwater/Soil monitoring template Lic No: W0151-01 Year 2017	
26/06/2017 07/09/2017 05/12/2017 Temperature Field analysis Quarterly 12.2 11.2 oC W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Alkalinity, Total Lab analysis Annually 284 284 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Boron Lab analysis Annually 0.038 0.038 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Cadmium Lab analysis Annually 0.0005 0.0005 mg/l W0151-01 EPA Trigger Level no	10
01/02/2017 MW-5 Calcium Lab analysis Annually 87.1 87.1 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Chromium, Total Lab analysis Annually 0.0015 0.0015 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Coliforms, Faecal Lab analysis Annually 1 1 cfus/100ml W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Colliforms, Total Lab analysis Annually 144.5 144.5 cfus/100ml W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Copper Lab analysis Annually 0.007 0.007 mg/l W0151-01 EPA Trigger Level 0.5 no	10
01/02/2017 MW-5 Cyanide Lab analysis Annually 0.01 0.01 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Fluoride Lab analysis Annually 0.3 0.3 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Iron Lab analysis Annually 0.02 0.02 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Lead Lab analysis Annually 0.005 0.005 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Magnesium Lab analysis Annually 8.7 8.7 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Manganese Lab analysis Annually 0.253 0.253 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Mercury Lab analysis Annually 0.001 0.001 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Nickel Lab analysis Annually 0.002 0.002 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Orthophosphates Lab analysis Annually 0.66 0.66 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Phosphorous, Total Lab analysis Annually 0.343 0.343 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Potassium Lab analysis Annually 36.5 36.5 mg/l W0151-01 EPA Trigger Level N/A no	10
01/02/2017 MW-5 Residue on Evaporation Lab analysis Annually 457 457 mg/l W0151-01 EPA Trigger Level N/A no	10

Ground	water/Soil m	onitoring te	mnlate		Lic No:	W0151-01		Year	2017	
					1				2017	
01/02/2017	MW-5	Sodium	Lab analysis	Annually	21.3	21.3	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/2017	MW-5	Total Oxidized Nitrogen	Lab analysis	Annually	1.3	1.3	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-5	Zinc	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.34	0.1075	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6	Chloride	Lab analysis	Quarterly	26.3	22.425	mg/l	W0151-01 EPA Trigger Level	70	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6				37.1	31.475		W0151-01 EPA	140	
01/02/2017 26/06/2017 07/09/2017		Sulphate Total Organic	Lab analysis	Quarterly			mg/l	W0151-01 EPA	50	no
05/12/2017 01/02/2017 26/06/2017 07/09/2017	MW-6	Carbon	Lab analysis	Quarterly	28	9.75	mg/l	Trigger Level W0151-01 EPA	N/A	no
05/12/2017 01/02/2017 26/06/2017 07/09/2017	MW-6	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	Trigger Level W0151-01 EPA	1	no
05/12/2017 01/02/2017 26/06/2017	MW-6	Conductivity	Field analysis	Quarterly	0.632	0.450725	mS/cm	Trigger Level	N/A	no
07/09/2017 05/12/2017 01/02/2017	MW-6	Dissolved Oxygen	Field analysis	Quarterly	8	6.115	mg/l	W0151-01 EPA Trigger Level	,	no
26/06/2017 07/09/2017 05/12/2017 01/02/2017	MW-6	Level, Water	Field analysis	Quarterly	11.28	10.97	mOD	W0151-01 EPA Trigger Level	N/A	no
26/06/2017 07/09/2017 05/12/2017	MW-6	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6	рН	Field analysis	Quarterly	7.88	7.735	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td></ph<9<>	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-6	Temperature	Field analysis	Quarterly	11.8	11.275	оС	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-6	Alkalinity, Total	Lab analysis	Annually	196	196	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-6	Boron	Lab analysis	Annually	0.014	0.014	mg/l	W0151-01 EPA Trigger Level	N/A	no

Ground	water/Seil w	onitoring to	mnlato		Lie No.	W01F1 01		Voor	2017		
Ground	water/Soil m	ionitoring te	impiate	1	Lic No:	W0151-01		Year	2017	1	
01/02/2017	MW-6	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-6	Calcium	Lab analysis	Annually	51.5	51.5	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Coliforms, Faecal	Lab analysis	Annually	2	2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Coliforms, Total	Lab analysis	Annually	36.4	36.4	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-6	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Magnesium	Lab analysis	Annually	3.8	3.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-6	Manganese	Lab analysis	Annually	0.006	0.006	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Nickel	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Orthophosphates	Lab analysis	Annually	0.23	0.23	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Phosphorous, Total	Lab analysis	Annually	0.15	0.15	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Potassium	Lab analysis	Annually	45.2	45.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Residue on Evaporation	Lab analysis	Annually	333	333	mg/I	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Sodium	Lab analysis	Annually	25.2	25.2	mg/I	W0151-01 EPA Trigger Level	80	no	
01/02/2017		Total Oxidized Nitrogen	Lab analysis	Annually	0.7	0.7	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017		Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no	
		Line	Las arialysis	1	5.505	0.005		bbc. tevel		110	ı

Groundw	vater/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.04	0.0325	mg/I NH4-N	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Chloride	Lab analysis	Quarterly	87	80.225	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Sulphate	Lab analysis	Quarterly	19.7	11.075	mg/l	W0151-01 EPA Trigger Level	140	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Total Organic Carbon	Lab analysis	Quarterly	3	2.25	mg/l	W0151-01 EPA Trigger Level	50	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Conductivity	Field analysis	Quarterly	0.493	0.371725	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Dissolved Oxygen	Field analysis	Quarterly	3	2.5725	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Level, Water	Field analysis	Quarterly	10.9	10.3775	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	рН	Field analysis	Quarterly	8.3	8.055	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-14	Temperature	Field analysis	Quarterly	14.4	12.3275	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Alkalinity, Total	Lab analysis	Annually	76	76	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Boron	Lab analysis	Annually	0.017	0.017	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-14	Calcium	Lab analysis	Annually	21.2	21.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Coliforms, Faecal	Lab analysis	Annually	3.1	3.1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	

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01/02/2017	MW-14	Coliforms, Total	Lab analysis	Annually	200.5	200.5	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-14	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Fluoride	Lab analysis	Annually	0.5	0.5	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Magnesium	Lab analysis	Annually	2.7	2.7	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Manganese	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Phosphorous, Total	Lab analysis	Annually	0.087	0.087	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Potassium	Lab analysis	Annually	2.2	2.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Residue on Evaporation	Lab analysis	Annually	268	268	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Sodium	Lab analysis	Annually	63.2	63.2	mg/l	W0151-01 EPA Trigger Level	80	no	
01/02/2017	MW-14	Total Oxidized Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-14	Zinc	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-16	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.1	0.0575	mg/I NH4-N	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-16	Chloride	Lab analysis	Quarterly	48.1	47.125	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-16	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	

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01/02/2017					2.0.40.				2017			
26/06/2017									4.0			
07/09/2017								W0151-01 EPA	140			
05/12/2017	MW-16	Sulphate	Lab analysis	Quarterly	20.6	14.625	mg/I	Trigger Level		no		
01/02/2017 26/06/2017												
07/09/2017		Total Organic						W0151-01 EPA	50			
05/12/2017	MW-16	Carbon	Lab analysis	Quarterly	2	2	mg/l	Trigger Level		no		
01/02/2017												
26/06/2017									N/A			
07/09/2017 05/12/2017	MW-16	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	,	no		
01/02/2017	10100-10	Coloui	Field allalysis	Quarterly	#VALUE:	#VALUE:	N/A	irigger Level		110		
26/06/2017												
07/09/2017								W0151-01 EPA	1			
05/12/2017	MW-16	Conductivity	Field analysis	Quarterly	0.394	0.3686	mS/cm	Trigger Level		no		
01/02/2017 26/06/2017												
07/09/2017								W0151-01 EPA	N/A			
05/12/2017	MW-16	Dissolved Oxygen	Field analysis	Quarterly	5	3.365	mg/l	Trigger Level		no		
01/02/2017												
26/06/2017									N/A			
07/09/2017 05/12/2017	MW-16	Level, Water	Field analysis	Quarterly	10.73	10.2425	mOD	W0151-01 EPA Trigger Level	,	no		
01/02/2017	10100-10	Level, water	rielu allalysis	Quarterly	10.73	10.2423	mob	iligger Level		110		
26/06/2017												
07/09/2017								W0151-01 EPA	N/A			
05/12/2017	MW-16	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	Trigger Level		no		
01/02/2017												
26/06/2017 07/09/2017								W0151-01 EPA	6 <ph<9< td=""><td></td><td></td></ph<9<>			
05/12/2017	MW-16	pН	Field analysis	Quarterly	7.7	7.65	рН	Trigger Level		no		
01/02/2017												
26/06/2017									N/A			
07/09/2017 05/12/2017	MW-16	Temperature	Field analysis	Quarterly	13.4	11.675	oC	W0151-01 EPA Trigger Level	14/7.	no		
03/12/2017	10100-10	remperature	Field allalysis	Quarterly	13.4	11.073	00	irigger Level		no		
01/02/2017								W0151-01 EPA	N/A			
	MW-16	Alkalinity, Total	Lab analysis	Annually	98	98	mg/l	Trigger Level		no		
01/02/2017	MW-16	Boron	Lab analysis	Annually	0.019	0.019	ma /I	W0151-01 EPA Trigger Level	N/A	no		
	IVIVV-10	BOTOII	Lab allalysis	Allitually	0.019	0.019	mg/l	rrigger Level		110		
01/02/2017								W0151-01 EPA	0.004			
	MW-16	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	Trigger Level		no		
04/00/004												
01/02/2017	MW-16	Calcium	Lab analysis	Annually	21.3	21.3	mg/l	W0151-01 EPA Trigger Level	N/A	no		
1	IA1AA-10	Carcium	Lau alidiysis	Amiuany	21.3	21.3	1115/1	migger Level		110		
01/02/2017								W0151-01 EPA	N/A			
	MW-16	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	Trigger Level		no		
04/08/												
01/02/2017	MW-16	Coliforms, Faecal	Lab analysis	Annually	19.2	19.2	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no		
1	IA1AA-10	comornis, raecal	Lau alidiysis	Amiuany	19.2	19.2	crus/ 100mi	migger Level		no		
01/02/2017								W0151-01 EPA	N/A			
	MW-16	Coliforms, Total	Lab analysis	Annually	144.5	144.5	cfus/100ml	Trigger Level		no		
1									_			
01/02/2017	MW-16	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no		
 	INIAA-TO	Copper	Lau allalysis	Aimidally	0.007	0.007	mg/l	mgger revel		no		
01/02/2017								W0151-01 EPA	N/A			
	MW-16	Cyanide	Lab analysis	Annually	0.02	0.02	mg/l	Trigger Level	,	no		

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						1						
01/02/2017	MW-16	Fluoride	Lab analysis	Annually	0.4	0.4	mg/l	W0151-01 EPA Trigger Level	N/A	no		
04 (00 (004)												
01/02/2017	MW-16	Iron	Lab analysis	Annually	0.031	0.031	mg/l	W0151-01 EPA Trigger Level	N/A	no		
			· · · · · · · · · · · · · · · · · · ·	,								
01/02/2017	MW-16	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no		
			· · · · · · · · · · · · · · · · · · ·	,								
01/02/2017	MW-16	Magnesium	Lab analysis	Annually	5.6	5.6	mg/l	W0151-01 EPA Trigger Level	N/A	no		
			· ·	,								
01/02/2017	MW-16	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no		
		0		,			U.					
01/02/2017	MW-16	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no		
	10	mercury	Edb dildiysis	, amount	0.001	0.001				no .		
01/02/2017	MW-16	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no		
	WW 10	WICKEI	Lab analysis	Aimusiry	0.002	0.002	mg/1			110		
01/02/2017	MW-16	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no		
	WW 10	Orthophosphates	Lab analysis	Aimusiry	0.00	0.00	mg/1			110		
01/02/2017	MW-16	Phosphorous, Total	Lab analysis	Annually	0.056	0.056	mg/l	W0151-01 EPA Trigger Level	N/A	no		
	INIAN-TO	Total	Lab allalysis	Allitually	0.056	0.056	mg/i	Trigger Level		110		
01/02/2017	MW-16	Potassium	Lab analysis	Annually	2.2	2.2	II	W0151-01 EPA Trigger Level	N/A			
	IVIW-10	Potassium	Lab analysis	Annually	2.2	2.2	mg/l	Trigger Level		no		
01/02/2017		Residue on						W0151-01 EPA	N/A			
	MW-16	Evaporation	Lab analysis	Annually	203	203	mg/l	Trigger Level		no		
01/02/2017					25.6	25.5		W0151-01 EPA	80			
	MW-16	Sodium	Lab analysis	Annually	35.6	35.6	mg/l	Trigger Level		no		
01/02/2017		Total Oxidized						W0151-01 EPA	N/A			
	MW-16	Nitrogen	Lab analysis	Annually	0.2	0.2	mg/l	Trigger Level		no		
01/02/2017								W0151-01 EPA	N/A			
01/02/2017	MW-16	Zinc	Lab analysis	Annually	0.005	0.005	mg/l	Trigger Level		no		
26/06/2017	MW-17	Ammoniacal	Lab analysis	Quarterly	0.3	0.0975	mg/l NH4-N	W0151-01 EPA	N/A			
07/09/2017 05/12/2017		Nitrogen						Trigger Level	,	no		
01/02/2017												
26/06/2017 07/09/2017	MW-17	Chloride	Lab analysis	Quarterly	46.4	41.675	mg/l	W0151-01 EPA Trigger Level	70			
05/12/2017								884. ==14.		no		
01/02/2017 26/06/2017								W0151-01 EPA				
07/09/2017	MW-17	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	Trigger Level	0.1			
05/12/2017 01/02/2017										no	-	
26/06/2017	MW-17	Sulphate	Lab analysis	Quarterly	89.4	81.15	mg/l	W0151-01 EPA	140			
07/09/2017 05/12/2017		Surprise	200 011017515		55	31.13		Trigger Level	1.0	no		
01/02/2017											1	
26/06/2017 07/09/2017	MW-17	Total Organic Carbon	Lab analysis	Quarterly	8	4.25	mg/l	W0151-01 EPA Trigger Level	50		1	
05/12/2017		ca.bo								no		

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Ground	water/Soil m	nonitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Conductivity	Field analysis	Quarterly	1.013	0.8685	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Dissolved Oxygen	Field analysis	Quarterly	8	7.365	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Level, Water	Field analysis	Quarterly	10.98	10.285	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	рН	Field analysis	Quarterly	7.33	7.2375	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-17	Temperature	Field analysis	Quarterly	12.8	11.525	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Alkalinity, Total	Lab analysis	Annually	388	388	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Boron	Lab analysis	Annually	0.041	0.041	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-17	Calcium	Lab analysis	Annually	154.8	154.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Coliforms, Total	Lab analysis	Annually	3.1	3.1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-17	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-17	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	

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01/0	02/2017	MW-17	Magnesium	Lab analysis	Annually	18.6	18.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Nickel	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Phosphorous, Total	Lab analysis	Annually	0.513	0.513	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Potassium	Lab analysis	Annually	8.6	8.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Residue on Evaporation	Lab analysis	Annually	1177	1177	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Sodium	Lab analysis	Annually	27.1	27.1	mg/l	W0151-01 EPA Trigger Level	80	no	
01/0	02/2017	MW-17	Total Oxidized Nitrogen	Lab analysis	Annually	14.6	14.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/0	02/2017	MW-17	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no	
26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Chloride	Lab analysis	Quarterly	45.4	40	mg/l	W0151-01 EPA Trigger Level	70	no	
26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Sulphate	Lab analysis	Quarterly	83.2	75.425	mg/l	W0151-01 EPA Trigger Level	140	no	
26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Total Organic Carbon	Lab analysis	Quarterly	9	4	mg/l	W0151-01 EPA Trigger Level	50	no	
01/0 26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/0 26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Conductivity	Field analysis	Quarterly	0.919	0.82375	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/0 26/0 07/0	02/2017 06/2017 09/2017 12/2017	MW-20	Dissolved Oxygen	Field analysis	Quarterly	7	6.045	mg/l	W0151-01 EPA Trigger Level	N/A	no	

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01/02/2017						1.0131 01		1	1		1
26/06/2017 07/09/2017 05/12/2017	MW-20	Level, Water	Field analysis	Quarterly	13.79	9.57	mOD	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-20	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-20	рН	Field analysis	Quarterly	7.5	7.335	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-20	Temperature	Field analysis	Quarterly	12.9	11.825	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Alkalinity, Total	Lab analysis	Annually	360	360	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Boron	Lab analysis	Annually	0.039	0.039	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-20	Calcium	Lab analysis	Annually	112.7	112.7	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Coliforms, Total	Lab analysis	Annually	101.3	101.3	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-20	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Magnesium	Lab analysis	Annually	19.7	19.7	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-20	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	

Groundw	vater/Soil m	nonitoring te	mplate		Lic No:	W0151-01		Year	2017	
01/02/2017	MW-20	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-20	Phosphorous, Total	Lab analysis	Annually	0.951	0.951	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-20	Potassium	Lab analysis	Annually	3.4	3.4	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-20	Residue on Evaporation	Lab analysis	Annually	1467	1467	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-20	Sodium	Lab analysis	Annually	26.4	26.4	mg/l	W0151-01 EPA Trigger Level	80	no
01/02/2017	MW-20	Total Oxidized Nitrogen	Lab analysis	Annually	1.9	1.9	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017	MW-20	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Chloride	Lab analysis	Quarterly	146	132.25	mg/l	W0151-01 EPA Trigger Level	70	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Sulphate	Lab analysis	Quarterly	45.7	39.25	mg/l	W0151-01 EPA Trigger Level	140	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Total Organic Carbon	Lab analysis	Quarterly	11	5.75	mg/l	W0151-01 EPA Trigger Level	50	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Conductivity	Field analysis	Quarterly	1.323	1.17175	mS/cm	W0151-01 EPA Trigger Level	1	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Dissolved Oxygen	Field analysis	Quarterly	7	5.505	mg/l	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Level, Water	Field analysis	Quarterly	16.04	15.1125	mOD	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	Odour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no
01/02/2017 26/06/2017 07/09/2017 05/12/2017	MW-22	рН	Field analysis	Quarterly	7.26	7.14	рН	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td></ph<9<>	no

Groundy	water/Soil m	onitoring to	emplate		Lic No:	W0151-01		Year	2017		
01/02/2017		onitoring to	Inplace	ı	LIC NO.	AA0131-01		Teal	2017		
26/06/2017 07/09/2017 05/12/2017	MW-22	Temperature	Field analysis	Quarterly	13	12	оС	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Alkalinity, Total	Lab analysis	Annually	460	460	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Boron	Lab analysis	Annually	0.016	0.016	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Cadmium	Lab analysis	Annually	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017	MW-22	Calcium	Lab analysis	Annually	173.3	173.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Chromium, Total	Lab analysis	Annually	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Coliforms, Faecal	Lab analysis	Annually	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Coliforms, Total	Lab analysis	Annually	#VALUE!	#VALUE!	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Copper	Lab analysis	Annually	0.007	0.007	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017	MW-22	Cyanide	Lab analysis	Annually	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Fluoride	Lab analysis	Annually	0.3	0.3	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Iron	Lab analysis	Annually	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Lead	Lab analysis	Annually	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Magnesium	Lab analysis	Annually	9.8	9.8	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Manganese	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Mercury	Lab analysis	Annually	0.001	0.001	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Nickel	Lab analysis	Annually	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Orthophosphates	Lab analysis	Annually	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Phosphorous, Total	Lab analysis	Annually	0.999	0.999	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Potassium	Lab analysis	Annually	1.2	1.2	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017	MW-22	Residue on Evaporation	Lab analysis	Annually	1748	1748	mg/l	W0151-01 EPA Trigger Level	N/A	no	

Ground	dwater/Soil n	nonitoring te	emplate		Lic No:	W0151-01		Year	2017		
01/02/201	7 MW-22	Sodium	Lab analysis	Annually	80.8	80.8	mg/l	W0151-01 EPA Trigger Level	80	no	
01/02/201	7 MW-22	Total Oxidized Nitrogen	Lab analysis	Annually	7.6	7.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/201	7 MW-22	Zinc	Lab analysis	Annually	0.003	0.003	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7	Ammoniacal Nitrogen	Lab analysis	Quarterly	0.03	0.03	mg/l NH4-N	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7	Chloride	Lab analysis	Quarterly	36.8	35.83333333	mg/l	W0151-01 EPA Trigger Level	70	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7	Phenols, Total	Lab analysis	Quarterly	0.1	0.1	mg/l	W0151-01 EPA Trigger Level	0.1	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 PW-3	Sulphate	Lab analysis	Quarterly	43.6	38.46666667	mg/l	W0151-01 EPA Trigger Level	140	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 PW-3	Total Organic Carbon	Lab analysis	Quarterly	4	2.666666667	mg/l	W0151-01 EPA Trigger Level	50	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 PW-3	Colour	Field analysis	Quarterly	#VALUE!	#VALUE!	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Conductivity	Field analysis	Quarterly	0.764	0.6252	mS/cm	W0151-01 EPA Trigger Level	1	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Dissolved Oxygen	Field analysis	Quarterly	9	8.05	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Odour	Field analysis	Quarterly	0	0	N/A	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 PW-3	рН	Field analysis	Quarterly	7.77	7.5775	рн	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 PW-3	Temperature	Field analysis	Quarterly	16.7	14.525	оС	W0151-01 EPA Trigger Level	6 <ph<9< td=""><td>no</td><td></td></ph<9<>	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Boron	Lab analysis	Quarterly	0.043	0.043	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Cadmium	Lab analysis	Quarterly	0.0005	0.0005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/201 26/06/201 07/09/201 05/12/201	7 7 7 PW-3	Calcium	Lab analysis	Quarterly	118.6	118.6	mg/l	W0151-01 EPA Trigger Level	N/A	no	

Granada	untor/Coil m	anitorina ta	mnlata		Lie Ne.	W01F1 C1		Vasa	2017		
_	vater/Soli m	nonitoring te	impiate		Lic No:	W0151-01		Year	2017		
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Chromium, Total	Lab analysis	Quarterly	0.0015	0.0015	mg/l	W0151-01 EPA Trigger Level	0.004	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Coliforms, Faecal	Lab analysis	Quarterly	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Coliforms, Total	Lab analysis	Quarterly	1	1	cfus/100ml	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Copper	Lab analysis	Quarterly	0.16	0.16	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Cyanide	Lab analysis	Quarterly	0.01	0.01	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Fluoride	Lab analysis	Quarterly	0.4	0.4	mg/l	W0151-01 EPA Trigger Level	0.5	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Iron	Lab analysis	Quarterly	0.02	0.02	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Lead	Lab analysis	Quarterly	0.005	0.005	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Magnesium	Lab analysis	Quarterly	0	0	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Manganese	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Mercury	Lab analysis	Quarterly	0	0	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Nickel	Lab analysis	Quarterly	0.002	0.002	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Orthophosphates	Lab analysis	Quarterly	0.06	0.06	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Phosphorous, Total	Lab analysis	Quarterly	0.055	0.055	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Potassium	Lab analysis	Quarterly	1	1	mg/l	W0151-01 EPA Trigger Level	N/A	no	
01/02/2017 26/06/2017 07/09/2017 05/12/2017	PW-3	Residue on Evaporation	Lab analysis	Quarterly	415	415	mg/l	W0151-01 EPA Trigger Level	N/A	no	

	mg/l	W0151-01 EPA Trigger Level W0151-01 EPA Trigger Level	N/A	no					
288			N/A						
				no					
1.4			80	no					
0.092			N/A	no					
	SELECT			SELECT					
				SELECT					
	SELECT			SELECT					
*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.									
ti	0.092 an Interim Guideli ion to completing	1.4 mg/l 0.092 mg/l SELECT SELECT SELECT SELECT an Interim Guideline Value (IGV) or an upward ion to completing the above table, please	0.092 mg/l W0151-01 EPA Trigger Level SELECT SELECT SELECT SELECT an Interim Guideline Value (IGV) or an upward ion to completing the above table, please Group	1.4 mg/l Trigger Level W0151-01 EPA Trigger Level W0151-01 EPA Trigger Level SELECT SELECT SELECT In Interim Guideline Value (IGV) or an upward ion to completing the above table, please Groundwater monito					

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

<u>Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</u>

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

	<u>Groundwater</u>	Drinking water		
<u>Surface</u>	regulations	(private supply)	Drinking water (public	Interim Guideline
water FOC	GTV/c	standards	cupply) standards	Values (ICV)

Table 3: Soil results

	Sample						
Date of	location	Parameter/		Monitoring	Maximum	Average	
sampling	reference	Substance	Methodology	frequency	Concentration	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	2017
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Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status		
		Submitted and not agreed by EPA;	
			Review to be
2	ELRA review status	Review required and not completed;	completed in Q2 2018
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	Other please specify	To be agreed
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	sure plan submitted and not agreed by	EPA
0		Review required and not completed	Review to be completed in Q2 2018
9	Closure plan review status Financial Provision for Closure status	Cubasitated and reat several bur EDA	
10 11	Financial Provision for Closure status Financial Provision for Closure - amount of cover	Submitted and not agreed by EPA; To be agreed	
12	Financial Provision for Closure - type	Other please specify	To be agreed
13	Financial provision for Closure expiry date	Enter expiry date	TO DE agreeu
13_	i manciai provision for Closure expiry date	Litter expiry date	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0151-01	Year	2017
	Highlighted cells contain dropdown menu click to view		Additional Information			
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes				
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
	Ongoing monitoring and				Improved Environmental				
Groundwater protection	measurement - water	100	Monitoring Completed	Individual	Management Practices				
	Ongoing monitoring and				Improved Environmental				
No. 1 or		400			· ·				
Noise reduction	measurement - noise	100	Monitoring Completed	Individual	Management Practices				
	Ongoing monitoring and				Improved Environmental				
Reduction of emissions to Air	measurement -air	100	Monitoring Completed	Individual	Management Practices				

Yes

Yes

Yes

Yes

	Noise monitor	ing summary	report		I	Lic No:	W0151-01	Year	2017	İ
	ng a licence requirement fo able N1 noise summary bel	•	1?				Yes			
2 Was noise monitoring	ng carried out using the EP. measurement report" inclu	A Guidance note		•	he (Noise Guidance note NG4	Yes			
3 Does your site have	a noise reduction plan e reduction plan last update	Ū	mee note us e	ubic o.	-	note NO 1	No Enter date			
Have there been ch	nanges relevant to site noise	e emissions (e.g. survey?	plant or oper	ational chan	ges) since th	e last noise	Yes			
Table N1: Noise mo	onitoring summary									
Date of	Noise location	Noise sensitive location -NSL					Tonal or Impulsive	If tonal /impulsive noise was identified was 5dB penalty	Comments (ex. main noise sources on site, & extraneous noise ex.	Is <u>si</u>

LA_{max}

82

86

85

83

noise* (Y/N)

No

No

No

No

applied?

No

No

No

No

(if applicable)

NMP5

NMP7

NMP8

NMP13

 $\mathsf{LA}_{\mathsf{eq}}$

69

55

51

58

 LA_{90}

60

43

37

53

Time period

(on site)

N/A

N/A

N/A

N/A

monitoring

20/01/2017 Daytime

20/01/2017 Daytime

20/01/2017 Daytime

20/01/2017 Daytime

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

LA₁₀

72

51

44

61

SELECT

road traffic)

Road traffic

Road traffic

Road traffic

** please explain the reason for not taking action/resolution of noise issues?	
Gravel washing commenced on site in May 2017	

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

Resource Usage/Energy efficiency summary Lic No: W0151-01 Year 2017

When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

SEAI - Large
Industry Energy
Network (LIEN)

Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information

3

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

	Additional information
	completed; ongoing
	monitoring and
	management of
n/a	energy use by
No	
SELECT	n/a

Table R1 Energy usag	e on site			
Energy Use	Previous year		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	30.74	111.52	275%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	1WHrs)			
Electricity Consumption (MWHrs)	30.6	111.5	264%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	146	22	-84%	
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 on site					Water Emissions	Water Consumption	
	Water extracted		*	, , ,	Volume Discharged	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m³yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	81	165.55	104%				
Recycled water							
Total							

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

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

Resource Usage/Energy efficiency summary

Lic No: W0151-01

Year 2017

Table R3 Waste Stream	Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	0.2425	0.1825		0.06	
Non-Hazardous (Tonnes)					

Table R4: Energy Audit finding recommendations								
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy	Implementation date	Responsibility		Status and comments
Date of data.	necommendations		SELECT	3446374	mprementation date	nesponsiality	oompredon date	
			SELECT					
			SELECT					

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

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

Complaints and Incidents summary template	·	Lic No:	W0151-01	Year	2017	
Complaints						
		Additional informa	ation			
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		1				
			Brief description of complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year Total new							
complaints received during							
reporting year Total complaints							
closed during							
reporting year							
Balance of complaints end of							
reporting year							

	Incidents			
				Additional information
Have any incidents occurred on site in the current report	ing year? Please list all incide	nts for current reporting		
year in Table	e 2 below		Yes	
*For information on how to report and what constitutes	What is an incident			

year
Total number of incidents previous year
% reduction/increase

Table 2 Incidents sun	nmary													
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
		Other location (GW			Not related to	Routine GW								
01.02.17	Trigger level reached	monitoring locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	01.02.17	Medium
		Other location (GW			Not related to	Routine GW								
26.06.17	Trigger level reached	monitoring locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	26.06.17	Medium
		Other location (monitoring			Not related to	Routine GW								
25.08.17	Trigger level reached	locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	25.08.17	Medium
		Other location (monitoring			Not related to	Routine GW								
05.12.17	Trigger level reached	locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	05.12.17	Medium
		Other location (monitoring			Not related to	Routine Gas								
25.08.17	Trigger level reached	locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	25.08.17	Medium
		Other location (monitoring			Not related to	Routine Gas								
05.12.17	Trigger level reached	locations)	1. Minor	No Uncontrolled release	site activities	monitoring	Normal activities	EPA	Recurring	ongoing monitoring		Complete	05.12.17	Medium
Total number of			·	·	<u> </u>	·							•	
incidents current														

WASTE SUMMARY												_
SECTION A-PRTR O	ON SITE WASTE TREATMENT AND	WASTE TRANSFERS TAB-	TO BE COMPLETED B	Y ALL IPPC AND WA	STE FACILITIES	PRTR facility logon		dropdown li	ist click to see options			
	- 4 005 PT - 0 0 T - 0	401 FTFD DV 411 1000 441				1						
SECTION B- WASTE	E ACCEPTED ONTO SITE-TO BE CO	MPLETED BY ALL IPPC AN	D WASTE FACILITIES			J	* 1.88 · · · 11 · 6 · · · · · · · ·					
							Additional Informatio	n 1				
Were any wastes accept	ted onto your site for recovery or disposal o	r treatment prior to recovery or d	isposal within the boundar	ries of your facility ?; (wast	e generated within your boundaries is							
to be captured through I	PRTR reporting)					No]				
f yes please enter detail	ils in table 1 below											
Oid your site have any re	ejected consignments of waste in the currer	it reporting year? If yes please giv	e a brief explanation in the	additional information		N/A						
Was	s waste accepted onto your site that was ger	nerated outside the Republic of Ir	eland? If yes please state tl	he quantity in tonnes in ac	Iditional information	N/A						
	of waste accepted onto your					e. as these w	ill have been re	eported in vour P	RTR workbook)			
Licenced annual	EWC code		Description of waste	Quantity of waste	Quantity of waste accepted in previous		Reason for	Packaging Content (%)-	Disposal/Recovery or treatment	Quantity of	Comments -	ı
tonnage limit for your		,	accepted	accepted in current	reporting year (tonnes)	Increase over	reduction/increase	only applies if the waste	operation carried out at your	waste remaining		1
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		1
tonnes/annum)			and detailed description			%	reporting year	component	operation	end of reporting		1
			- which applies to relevant EWC code							year (tonnes)		1
			relevant EWC code									ı
	European Waste Catalogue EWC codes		European Waste									1
	,		Catalogue EWC codes									1
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				-		-		-				ł
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SECTION C-TO BE O	COMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ons. Composters. Ma	aterial recovery facil	ities etc) FXCEPT LANDFILL SITE	:s						
SECTION C-TO BE (COMPLETED BY ALL WASTE FACILI	TIES (waste transfer stati	ons, Composters, Ma	aterial recovery facil	ities etc) EXCEPT LANDFILL SITE	es .						j
		•		•	•	es .				1]
	COMPLETED BY ALL WASTE FACILION OF THE PROPERTY OF THE PROPERT	•		•	•	Yes]]
		•		•	•]		J
Is all waste processing in		d approved by the Agency in place	e? If no please list waste pr	ocessing infrastructure re	quired onsite]
is all waste processing in	nfrastructure as required by your licence and asstructure as required by your licence and as	d approved by the Agency in place	e? If no please list waste pr	ocessing infrastructure re	quired onsite							J
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WASTE SUMMARY					Lic No:	W0151-01		Year	
Was meterological									1
monitoring in							Has the statement		4
compliance with			Was SW monitored in			Was topography	under S53(A)(5) of		4
Landfill Directive (LD)		Was Landfill Gas monitored in	compliance with LD			of the site	WMA been		4
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		4
year +	with LD standard in reporting year	reporting year	year	been established	the Agency (ELVs)	reporting year	reporting year	Comments	4
Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		П
									-

.+ 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

SELECT SELECT

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

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

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	



| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Limited | Filename : PRTR W0151_2017.xls | Return Year : 2017 |

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Guidance to completing the PRTR workbook

PRTR Returns Workbook

Environmental Protection Agency	PRIR Returns Workbook
REFERENCE YEAR	Version 1.1.15
1. FACILITY IDENTIFICATION	
	Murphy Concrete Manufacturing Limited
	Murphy Concrete Manufacturing Limited
PRTR Identification Number	
Licence Number	
Classes of Activity	class_name
140.	Refer to PRTR class activities below
-	Iveren to FIVIIV class activities below
Address 1	Sarsfieldtown
Address 2	
Address 3	
Address 4	
Address 4	
	Meath
Country	
Coordinates of Location	
River Basin District	
NACE Code	
	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Raile AER Returns Contact Email Address	
AER Returns Contact Email Address AER Returns Contact Position	
AER Returns Contact Telephone Number AER Returns Contact Mobile Phone Number	
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 Number	Activity Name
50.1	General
5(d)	Landfills
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 20	
Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used?	
4. WASTE IMPORTED/ACCEPTED ONTO SITE	Guidance on waste imported/accepted onto site
Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) ?	
activities).	

activities) ?

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

. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE	PRTR#: W0151 Facility Name: Murphy Concrete Manufacturing Limited Filename: PRTR W0151_2017.xls Return Year: 2017
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			Please enter a	all quantities on this sheet in Tonnes								3
			Quantity (Tonnes per Year)		Waste		Method Used		Haz Waste: Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: 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)
	European Waste				Treatment			Location of				
Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
Within the Country	20 03 01	No	0.1825	mixed municipal waste	D15	E	Volume Calculation		Panda,W0140-03	Beauparc,Navan,Co. Meath,0,Ireland Beauparc,Navan,Co.		
Within the Country	20 03 01	No	0.06	mixed municipal waste	R3	E	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

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