02) issued on 23rd March 2010. Air Stack emissions are compliant with the license. There were exceedances of Oxygen Demand, Sulphate and Total Suspended Solids. All noise emissions were compliant with the license limit. Ballynagran is a currently operational landfill in Co.Wicklow.It covers an area of 128 hectares approximately. It License(W0165-01) by the Agency on 5th September 2003 which was reviewed with a revised license (W0165the surface water emission limits. The parameters that exceeded were Ammoniacal Nitorgen, Biochemical accepts residual non-hazardous, commercial and industrial waste. The facility was granted a waste Ballynagran, Coolbeg and Kilcandra, County Wicklow Ballynagran Residual Landfill 327024E,191229N 3821 2016 WO 165-02 **Facility Information Summary** applicable) and what they relate to e.g. air, A description of the activities/processes at performance which was measured during the site for the reporting year. This should compliance with your licence listing all include information such as production infrastructural changes, environmental the reporting year and an overview of exceedances of licence limits (where increases or decreases on site, any National Grid Reference (6E, 6 N) Licence Register Number Class/Classes of Activity **AER Reporting Year**

Site Location Name of site

NACE Code

Declaration:

water, noise.

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.

Date (or nominated, suitably qualified and Group/Facility manager experienced deputy) Signature

	AIR-summary template	Lic No:	WO 165-02	Year	2016
	Answer all questions and complete all tables where relevant				
				Additional information	
	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current				
1	reporting year and answer further questions. If you do not have licenced emissions and do not complete a				
	solvent management plan (table A4 and A5) you do not need to complete the tables				
	- · · · · · · · · · · · · · · · · · · ·	SELECT			

	Periodic/Non-Continuous Monitoring		
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section TableA1 below	Yes	
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?	Yes	

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

Flare 1		Monitoring	any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	change in % mass load from previous year if applicable
	Carbon monoxide (CO)	Annual	50	No 30min mean can exceed the ELV	2.93	mg/m3	yes	EN 15058:2006	2.77	
Flare 1	Nitrous oxide (N2O)	Annual	150	No 30min mean can exceed the ELV	81.45	mg/m3	yes	EN 14792:2006	76.96	
Flare 1	Volatile organic compounds (as TOC)	Annual	10	No 30min mean can exceed the ELV	4.05	mg/m3	yes	EN12619:2013	3.83	
Flare 1	Hydrogen Chloride	Annual	50	No 30min mean can exceed the ELV	7.62	mg/m3	yes	EN1911:2010	7.20	
Flare 1	Hydrogen Fluroide	Annual	5	No 30min mean can exceed the ELV	4.89	mg/m3	yes	EN15713:2006	4.62	
Flare 1	Sulphur Dioxide	Annual	-	No 30min mean can exceed the ELV	3257.53	mg/m3		TGN 21	3077.76	
Engine 2	Total Particulate Matter	Annual	130	No 30min mean can exceed the ELV	2.32	mg/m3	yes	EN13284-1:2002	13.12	
Engine 2	Carbon monoxide (CO)	Annual	650	No 30min mean can exceed the ELV	949.9	mg/m3	no	EN 15058:2006	5370.20	Ageny has approved an emission limit of 1400mg/m3
Engine 2	Nitrous oxide (N2O)	Annual	500	No 30min mean can exceed the ELV	394.25	mg/m3	yes	EN 14792:2006	372.49	
Engine 2	Hydrogen Chloride	Annual	50	No 30min mean can exceed the ELV	2.33	mg/m3	yes	EN1911:2010	13.17	
Engine 2	Hydrogen Fluroide	Annual	5	No 30min mean can exceed the ELV	1.09	mg/m3	yes	EN15713:2006	6.16	
Engine 2	TA luft organics	Annual	20	No 30min mean can exceed the ELV	0.81	mg/m3	yes	EN13649:2002	6.23	
Engine 2	Sulphur Dioxide	Annual	-	No 30min mean can exceed the ELV	3538.77	mg/m3		TGN 21	19415.74	
Engine 3	Total Particulate Matter	Annual	130	No 30min mean can exceed the ELV	6.55	mg/m3	yes	EN13284-1:2002	50.40	
Engine 3	Carbon monoxide (CO)	Annual	650	No 30min mean can exceed the ELV	837.1	mg/m3	no	EN 15058:2006	6441.79	Ageny has approved an emission limit of 1400mg/m3
Engine 3	Nitrous oxide (N2O)	Annual	500	No 30min mean can exceed the ELV	480.9	mg/m3	yes	EN 14792:2006	3700.70	
Engine 3	Hydrogen Chloride	Annual	50	No 30min mean can exceed the ELV	3.43	mg/m3	yes	EN1911:2010	26.40	
Engine 3	Hydrogen Fluroide	Annual	5	No 30min mean can exceed the ELV	8.77	mg/m3	yes	EN15713:2006	67.49	
Engine 3	TA luft organics	Annual	20	No 30min mean can exceed the ELV	<0.73	mg/m3	yes	EN13649:2002	0.00	
Engine 3	Sulphur Dioxide	Annual	-	No 30min mean can exceed the ELV	2954.73	mg/m3	yes	TGN 21	22737.71	
Engine 4	Total Particulate Matter	Annual	130	No 30min mean can exceed the ELV	23.08	mg/m3	yes	EN13284-1:2002	126.63	
Engine 4	Carbon monoxide (CO)	Annual	650	No 30min mean can exceed the ELV	825.67	mg/m3	no	EN 15058:2006	4530.10	Ageny has approved an emission limit of 1400mg/m3
Engine 4	Nitrous oxide (N2O)	Annual	500	No 30min mean can exceed the ELV	473.68	mg/m3	yes	EN 14792:2006	2598.88	
Engine 4	Hydrogen Chloride	Annual	50	No 30min mean can exceed the ELV	4.18	mg/m3	yes	EN1911:2010	22.93	
Engine 4	Hydrogen Fluroide	Annual	5	No 30min mean can exceed the ELV	1.06	mg/m3	yes	EN15713:2006	5.82	
Engine 4	TA luft organics	Annual	20	No 30min mean can exceed the ELV	<0.76	mg/m3	yes	EN13649:2002	0.00	
Engine 4	Sulphur Dioxide	Annual	-	No 30min mean can exceed the ELV	3011.57	mg/m3		TGN 21	16523.22	

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

AlR-summary template Lic No: WO 165-02 Year 2016

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					Lic No:				2016	
AIR-summary					Lic No:	WO 165-02		Year	2016	
	Continuous I	Monitoring								
	ry out continuous air emis				No					
es please revie	w your continuous monito to its	oring data and report to relevant Emission Lim	he required fields be it Value (ELV)	elow in Table A2 and compare it						
continuous m	onitoring equipment exper	ience downtime? If ye	s please record dow	ntime in table A2 below	SELECT					
vou have a nro	active service agreement f	or each piece of contin	wous monitoring er	uinment?	SELECT					
	site experience any abater			tnem in table A3 below	SELECT					
ble A2: Sum	mary of average em	iissions -continuo	us monitoring							
nission	Parameter/ Substance	ELV in licence or any	Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)		
erence no:		revision therof			measurement					
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT		<u> </u>			
	SELECT				SELECT					
	•		II.		SELECT		II.			
e 1: Volumetri	flow shall be included as	a reportable paramete	r.							
				Bypass protocol						
ble A3: Aba	Duration** (hours)	Location	R	eason for bypass			-			
					Impact magnitude			Corrective action		
								2		
									1	
									-	
	* this should include	all dates that an abate	ment system bypas	s occurred						
* an accurate r	ecord of time bypass begin	nning and end should b	e logged on site an	d maintained for future Agency					+	
	inspection	ons please refer to byp	ass protocol link							
Solven	t use and manageme	ent on site								
			ssions on site? if yes	please fill out tables A4 and A5						
ble A4: Solv tal VOC Em	ent Management Pla ssion limit value	an Summary	Solvent regulations	Please refer to linked solve complete table 5	nt regulations to and 6		SELECT			
eporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire	Total VOC emissions as %of	(ELV) in licence or any revision	Compliance					
		site (direct and	solvent innut	therof						
					SELECT					
Table A5	: Solvent Mass Balan	ice summary			SELECT					
							=			
Falson	(I) Inputs (kg)	(O) Outputs (kg)	Fabruar Land	Collected and and action (")	In the second	February states				
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. hv-nasses (kg)				
							Solvents destroyed onsite through physical reaction	Total emission of Solvent to air (kg)		
							nnysical reaction		1	

AIR-summary template		Lic No:	WO 165-02	Year	2016	

								I	I	
Yes	ring returns su	mmary template-WATER/WAST	TEWATER(SEWER)			Lic No:	WO 165-02		Year	2016
ies	NO					Additional information	1	-		-
	1		I.							
Does your sit	te have licensed e	emissions direct to surface water or di	rect to sewer? If yes please compl	ete table W2						
1 and W3 below	for the current r	eporting year and answer further que	stions. If you do not have licenced	l emissions you						
<u>o</u>	only need to com	plete table W1 and or W2 for storm wa	ater analysis and visual inspectio	ns						
					Yes					
Was it a requi	irement of your li	icence to carry out visual inspections o	on any surface water discharges or	watercourses						
		ase complete table W2 below summar								
·		during visual inspectio			Yes					
-	Fabla 14/1 Ctar				Yes					+
	lable W1 Stori	m water monitoring								
	Location				ELV or trigger					
Location	relative to site	PRTR Parameter	Licenced Parameter	Monitoring	level in licence	Licence Compliance criteria	Measured value	Unit of	Compliant with	Comments
reference	activities	T KTKT drameter	Electrices i di differen	date	or any revision	Electrice compliance criteria	Wicasured value	measurement	licence	Comments
	detivities				thereof*					
SW-1	upstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.58	pH units	yes	
SW-1	upstream	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	6.8	pH units	yes	
C141.4				10/00/2016						Not sampled due
SW-1	upstream	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	Dry	pH units	yes	to dry stream
SW-1	upstream	SELECT	pH	14/12/2016	6-9	No pH value shall deviate from the specified range.	6.24	pH units	yes	
SW-1	upstream	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	172	μS/cm @25oC	yes	
SW-1	upstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	201	μS/cm @25oC	yes	
e				40/00/2007						Not sampled due
SW-1	upstream		Conductivity	18/08/2016	1,000	All values < ELV	Dry	μS/cm @25oC	yes	to dry stream
SW-1	upstream	-	Conductivity	14/12/2016	1,000	All values < ELV	182	μS/cm @25oC	yes	
SW-1	upstream	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	18.5	mg/L	yes	
SW-1	upstream	SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	19.5	mg/L	yes	
										Not sampled due
SW-1	upstream	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	P			to dry stream
SW-1	upstream	SELECT	Chlorides (as Cl)	14/12/2016	250	All values < ELV All values < ELV	Dry 19.1	mg/L mg/L	yes yes	
SW-1	upstream	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	0.02	mg/L	yes	
SW-1	upstream	SELECT	Ammoniacal Nitrogen	11/05/2016	0.14	All values < ELV	0.02	mg/L	yes	
										Not sampled due
SW-1		CELECT	4 137	18/08/2016	0.14	All colors of FLV	D			to dry stream
SW-1	upstream upstream	SELECT SELECT	Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV All values < ELV	Dry 0.05	mg/L mg/L	yes yes	
SW-1	upstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-1	upstream	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	yes	
										Not sampled due
SW-1				18/08/2016			_			to dry stream
SW-1	upstream upstream	SELECT SELECT	Total Suspended Solids Total Suspended Solids	14/12/2016	N/A N/A	All values < ELV All values < ELV	Dry 71	mg/L mg/L	yes	
SW-1	upstream	SELECT	Dissolved Oxygen	10/03/2016	N/A N/A	All values < ELV	10	mg/L	yes yes	
SW-1	upstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
										Not sampled due
SW-1				18/08/2016	27/1					to dry stream
SW-1	upstream	SELECT SELECT	Dissolved Oxygen Dissolved Oxygen	14/12/2016	N/A N/A	All values < ELV All values < ELV	Dry 10	mg/L mg/L	yes yes	-
SW-1	upstream	SELECT	BOD BOD	10/03/2016	2.6	All values < ELV All values < ELV	10	mg/L mg/L	yes	
SW-1	upstream	SELECT	BOD	11/05/2016	2.6	All values < ELV	1	mg/L	yes	
										Not sampled due
SW-1				18/08/2016			_			to dry stream
6141.4	upstream upstream	SELECT SELECT	BOD BOD	14/12/2016	2.6	All values < ELV All values < ELV	Dry 2	mg/L	yes	,
SW-1 SW-1	upstream	SELECT	COD	14/12/2016	2.6 N/A	All values < ELV All values < ELV	2 <7	mg/L mg/L	yes yes	
SW-1	upstream	SELECT	COD	11/05/2016	N/A	All values < ELV	12	mg/L	yes	
								Ü	, , , , , , , , , , , , , , , , , , , ,	Not campled de
SW-1				18/08/2016						Not sampled due to dry stream
6347.4	upstream	SELECT	COD	4 4 /4 2 /205 5	N/A	All values < ELV	Dry	mg/L	yes	, 50.00
SW-1 SW-1	upstream upstream	SELECT SELECT	COD Chromium and compounds (as Cr)	14/12/2016 14/12/2016	N/A 30	All values < ELV All values < ELV	25 <1.5	mg/L μg/L	yes	
SW-1	upstream	SELECT	Boron	14/12/2016	2,000	All values < ELV All values < ELV	<1.5	µg/L µg/L	yes	
SW-1	upstream	SELECT	Cadmium and compounds (as Cd)	14/12/2016	5	All values < ELV	<0.5	μg/L	yes	
SW-1	upstream	SELECT	Calcium	14/12/2016	250	All values < ELV	9.5	mg/L	yes	
SW-1	upstream	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	
SW-1	upstream	SELECT	Iron	14/12/2016	1,000	All values < ELV All values < ELV	172	μg/L	yes	
SW-1 SW-1	upstream upstream	SELECT SELECT	Lead and compounds (as Pb) Magnesium	14/12/2016 14/12/2016	10 N/A	All values < ELV All values < ELV	<5 5.1	μg/L mg/L	yes	
344-1	upstream	JEECT	Magnesium	14/12/2010	14/71	All values viets	J.1	IIIg/L	yes	4

AER Monitor	ring returns su	mmary template-WATER/WAST	TEWATER(SEWER)			Lic No:	WO 165-02		Year	2016
SW-1	upstream	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	4	μg/L	yes	
SW-1	upstream	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-1	upstream	SFLECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-1	unstream	SELECT	Potassium	14/12/2016	N/A	All values < ELV	1.4			
SW-1	upstream	SELECT	Sodium	14/12/2016	N/A	All values < ELV	10.8	mg/l mg/l	yes	
SW-1	upstream	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	<3	μg/L		
	upstream								yes	
SW-1		SELECT	Sulphate	14/12/2016	200	All values < ELV	14.2	mg/L	yes	
SW-1	upstream	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	<0.06	mg/L	yes	
SW-1	upstream	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	4.1	mg/L	yes	
SW-1	upstream	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	30	mg/L	yes	
		SELECT								
SW-2	upstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.64	pH units	yes	
SW-2	upstream	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	7.46	pH units	yes	
SW-2	upstream	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.44	pH units	yes	
SW-2	upstream	SFLECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.52	pH units	yes	
SW-2	upstream	SFLECT	Conductivity	10/03/2016	1,000	All values < ELV	254	uS/cm @25oC	yes	
SW-2	upstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	259	μS/cm @25oC	yes	
SW-2	upstream	SELECT	Conductivity	18/08/2016	1.000	All values < ELV	293	μS/cm @25oC		
					-,				yes	
SW-2	upstream	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	437	μS/cm @25oC	yes	
SW-2	upstream	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	26.3	mg/L	yes	4
SW-2	upstream	SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	28.6	mg/L	yes	4
SW-2	upstream	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	31.3	mg/L	yes	
SW-2	upstream	SELECT	Chlorides (as CI)	14/12/2016	250	All values < ELV	35.3	mg/L	yes	
SW-2	upstream	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	0.02	mg/L	yes	
SW-2	upstream	SELECT	Ammoniacal Nitrogen	11/05/2016	0.14	All values < ELV	0.39	mg/L	No	
SW-2	upstream	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.03	mg/L	yes	
SW-2	upstream	SFLECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.31	mg/L	No	
SW-2	upstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-2	upstream	SELECT	Total Suspended Solids		N/A	All values < ELV	<10	mg/L		
SW-2	upstream	SELECT	Total Suspended Solids	11/05/2016 18/08/2016	N/A	All values < ELV	<10	mg/L	yes yes	4
SW-2	upstream	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	79	mg/L	yes	
SW-2	upstream	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-2	upstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-2	upstream	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	9	mg/L	yes	
SW-2	upstream	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	10	mg/L	yes	
SW-2	upstream	SELECT	BOD	10/03/2016	2.6	All values < ELV	<1	mg/L	yes	
SW-2	upstream	SELECT	BOD	11/05/2016	2.6	All values < ELV	1	mg/L	yes	
SW-2	upstream	SELECT	BOD	18/08/2016	2.6	All values < ELV	3	mg/L	No	
SW-2	upstream	SELECT	BOD	14/12/2016	2.6	All values < ELV	2	mg/L	yes	
SW-2	upstream	SELECT	COD	10/03/2016	N/A	All values < FIV	<7			
SW-2	upstream	SELECT	COD	11/05/2016	N/A	All values < ELV	8	mg/L	yes	
								mg/L	yes	
SW-2	upstream	SELECT	COD	18/08/2016	N/A	All values < ELV	35	mg/L	yes	
SW-2	upstream	SELECT	COD	14/12/2016	N/A	All values < ELV	55	mg/L	yes	
SW-2	upstream	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	
SW-2	upstream	SELECT	Boron	14/12/2016	2,000	All values < ELV	15	μg/L	yes	
SW-2	upstream	SELECT	Cadmium and compounds (as Cd)	14/12/2016	5	All values < ELV	<0.5	μg/L	yes	
SW-2	upstream	SELECT	Calcium	14/12/2016	250	All values < ELV	42.2	mg/L	yes	
SW-2	upstream	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	
SW-2	upstream	SELECT	Iron	14/12/2016	1,000	All values < ELV	131	μg/L	yes	
SW-2	upstream	SELECT	Lead and compounds (as Pb)	14/12/2016	10	All values < ELV	<5	μg/L	yes	
SW-2	upstream	SELECT	Magnesium		N/A	All values < FLV	9.5			
SW-2	upstream	SELECT	Manganese (as Mn)	14/12/2016 14/12/2016	300	All values < ELV	9.5	mg/L μg/L	yes	4
		SELECT							yes	
SW-2	upstream		Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-2	upstream	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	4
SW-2	upstream	SELECT	Potassium	14/12/2016	N/A	All values < ELV	9.1	mg/l	yes	
SW-2	upstream	SELECT	Sodium	14/12/2016	N/A	All values < ELV	14.9	mg/l	yes	4
SW-2	upstream	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	<3	μg/L	yes	
SW-2	upstream	SELECT	Sulphate	14/12/2016	200	All values < ELV	22.8	mg/L	yes	
SW-2	upstream	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	0.26	mg/L	yes	
SW-2	upstream	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	17.5	mg/L	yes	
SW-2	upstream	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	70	mg/L	yes	
SW-3	downstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.54	pH units	yes	
SW-3	downstream	SELECT	pH	11/05/2016	6-9	No pH value shall deviate from the specified range.	7.36	pH units		
SW-3		SELECT		18/08/2016			7.2		yes	
	downstream		pH		6 - 9	No pH value shall deviate from the specified range.		pH units	yes	
SW-3	downstream	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.43	pH units	yes	4
SW-3	downstream	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	192	μS/cm @25oC	yes	
SW-3	downstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	203	μS/cm @25oC	yes	4
SW-3	downstream	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	249	μS/cm @25oC	yes	
SW-3	downstream	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	180	μS/cm @25oC	yes	
SW-3	downstream	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	16.7	mg/L	yes	
SW-3	downstream	SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	18.3	mg/L	yes	
SW-3	downstream	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	24.6	mg/L	yes	
SW-3	downstream	SELECT	Chlorides (as Cl)	14/12/2016	250	All values < ELV	13.6	mg/L	yes	
	downstream	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV All values < ELV	0.02			
		JELEUI	Ammomacai Nitrogen	10/03/2010				mg/L	yes	4
SW-3 SW-3	downstream	SELECT	Ammoniacal Nitrogen	11/05/2016	0.14	All values < ELV	0.06	mg/L	yes	

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SW-3	downstream	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.44	mg/L	No	
SW-3	downstream	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.1	mg/L	yes	
SW-3	downstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-3	downstream	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	13	mg/L	yes	
SW-3	downstream	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	36	mg/L	yes	
SW-3	downstream	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	132	mg/L		
SW-3	downstream	SELECT			N/A	All values < ELV	10		yes	
			Dissolved Oxygen	10/03/2016			9	mg/L	yes	
SW-3	downstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV		mg/L	yes	
SW-3	downstream	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	7	mg/L	yes	
SW-3	downstream	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	10	mg/L	yes	
SW-3	downstream	SELECT	BOD	10/03/2016	2.6	All values < ELV	1	mg/L	yes	
SW-3	downstream	SELECT	BOD	11/05/2016	2.6	All values < ELV	2	mg/L	yes	
SW-3	downstream	SELECT	BOD	18/08/2016	2.6	All values < ELV	8	mg/L	No	
SW-3	downstream	SELECT	BOD	14/12/2016	2.6	All values < ELV	2	mg/L	yes	
SW-3	downstream	SELECT	COD	10/03/2016	N/A	All values < ELV	8	mg/L	yes	
SW-3	downstream	SELECT	COD	11/05/2016	N/A	All values < ELV	15	mg/L	yes	
SW-3	downstream	SELECT	COD	18/08/2016	N/A	All values < ELV	22	mg/L	yes	
SW-3	downstream	SELECT	COD	14/12/2016	N/A	All values < ELV	54	mg/L	yes	
SW-3	downstream	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	
SW-3	downstream	SELECT	Boron	14/12/2016	2,000	All values < ELV	<12		· ·	
					2,000			μg/L	yes	
SW-3	downstream	SELECT	Cadmium and compounds (as Cd)	14/12/2016	,	All values < ELV	<0.5	μg/L	yes	
SW-3	downstream	SELECT	Calcium	14/12/2016	250	All values < ELV	12.5	mg/L	yes	
SW-3	downstream	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	
SW-3	downstream	SELECT	Iron	14/12/2016	1,000	All values < ELV	227	μg/L	yes	
SW-3	downstream	SELECT	Lead and compounds (as Pb)	14/12/2016	10	All values < ELV	<5	μg/L	yes	
SW-3	downstream	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	5.5	mg/L	yes	
SW-3	downstream	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	2	μg/L	yes	
SW-3	downstream	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-3	downstream	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-3	downstream	SELECT	Potassium	14/12/2016	N/A	All values < ELV	5.8	mg/l	yes	
SW-3	downstream	SELECT	Sodium	14/12/2016	N/A	All values < ELV	7.2	mg/l	yes	
SW-3	downstream	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	6	μg/L	yes	
SW-3	downstream	SELECT	Sulphate	14/12/2016	200	All values < ELV	5	mg/L	yes	
SW-3	downstream	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < FLV	0.22			
						1		mg/L	yes	
SW-3	downstream	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	1.5	mg/L	yes	
SW-3	downstream	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	56	mg/L	yes	
SW-4	downstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.87	pH units	yes	
SW-4	downstream	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	7.47	pH units	yes	
SW-4	downstream	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.35	pH units	yes	
SW-4	downstream	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.35	pH units	yes	
SW-4	downstream	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	177	μS/cm @25oC	yes	
SW-4	downstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	184	μS/cm @25oC	yes	
SW-4	downstream	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	208	μS/cm @25oC	yes	
SW-4	downstream	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	203	μS/cm @25oC	yes	
SW-4	downstream	SELECT	Chlorides (as CI)	10/03/2016	250	All values < ELV	15.5	mg/L	yes	
SW-4	downstream	SELECT	Chlorides (as CI)	11/05/2016	250	All values < ELV	14.8	mg/L	yes	
SW-4	downstream	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	17.4	mg/L	yes	
SW-4	downstream	SELECT	Chlorides (as Cl)	14/12/2016	250	All values < ELV	22.5	mg/L	yes	
SW-4	downstream	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	0.04	mg/L	yes	
-	downstream	SELECT			0.14	All values < ELV All values < ELV			· ·	
SW-4	downstream	SELECT	Ammoniacal Nitrogen Ammoniacal Nitrogen	11/05/2016		All values < ELV All values < FLV	0.04	mg/L	yes	
SW-4				18/08/2016	0.14	1	0.03	mg/L	yes	
SW-4	downstream	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.05	mg/L	yes	
SW-4	downstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-4	downstream	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-4	downstream	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-4	downstream	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	193	mg/L	yes	
SW-4	downstream	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-4	downstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-4	downstream	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	9	mg/L	yes	
		SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	9	mg/L	yes	
SW-4	downstream				2.6	All values < ELV	1	mg/L	yes	
		SELECT	BOD	10/03/2016						
SW-4 SW-4 SW-4	downstream		BOD BOD	10/03/2016 11/05/2016	2.6	All values < ELV	1		yes	
SW-4	downstream downstream	SELECT	BOD	11/05/2016	2.6	1 1 1 1	1	mg/L	yes	
SW-4 SW-4 SW-4	downstream downstream downstream	SELECT SELECT SELECT	BOD BOD	11/05/2016 18/08/2016	2.6 2.6	All values < ELV	i	mg/L mg/L	yes yes	
SW-4 SW-4 SW-4	downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT	BOD BOD BOD	11/05/2016 18/08/2016 14/12/2016	2.6 2.6 2.6	All values < ELV All values < ELV	1 2	mg/L mg/L mg/L	yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT SELECT	BOD BOD BOD COD	11/05/2016 18/08/2016 14/12/2016 10/03/2016	2.6 2.6 2.6 N/A	All values < ELV All values < ELV All values < ELV	1 2 10	mg/L mg/L mg/L mg/L	yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	BOD BOD COD COD	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016	2.6 2.6 2.6 N/A N/A	All values < ELV	1 2 10 10	mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD COD COD	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016	2.6 2.6 2.6 N/A N/A N/A	All values < ELV	1 2 10 10 10	mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD BOD COD COD COD	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A	All values < ELV	1 2 10 10 10 58	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD COD COD COD COD COD COD COD COD COD C	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A 30	All values < ELV	1 2 10 10 10 16 58 <1.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD BOD COD COD COD COD COD COD Chromium and compounds (as Cr)	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A N/A 2,000	All values < ELV	1 2 10 10 10 16 58 <1.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD COD COD COD COD COD COD COD COD COD C	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A 30	All values < ELV	1 2 10 10 10 16 58 <1.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes yes yes yes yes yes yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD BOD COD COD COD COD COD COD Chromium and compounds (as Cr)	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A N/A 2,000	All values < ELV	1 2 10 10 10 16 58 <1.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD BOD COD Cadmium and compounds (as Cd) Cadmium and compounds (as Cd)	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A N/A 30 2,000 5	All values < ELV	1 2 10 10 10 16 58 <1.5 15 <0.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes	
SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4 SW-4	downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream downstream	SELECT	BOD BOD BOD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd)	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	2.6 2.6 2.6 N/A N/A N/A N/A 30 2,000 5	All values < ELV All values < ELV	1 2 10 10 10 16 58 <1.5 15 <0.5 15.3	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes	

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SW-4	downstream	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	4.6	mg/L	yes	
SW-4	downstream	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	4	μg/L	yes	
SW-4	downstream	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-4	downstream	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-4	downstream	SELECT	Potassium	14/12/2016	N/A	All values < ELV	2.6	mg/l	yes	
SW-4	downstream	SELECT	Sodium	14/12/2016	N/A	All values < ELV	8.9	mg/l	yes	
SW-4 SW-4	downstream downstream	SELECT SELECT	Zinc and compounds (as Zn) Sulphate	14/12/2016 14/12/2016	100 200	All values < ELV All values < ELV	<3 16.4	μg/L	yes	
SW-4	downstream	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	<0.06	mg/L mg/L	yes yes	
SW-4	downstream	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	2.4	mg/L	yes	
SW-4	downstream	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	48	mg/L	yes	
SW-5	onsite	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.56	pH units	yes	
SW-5	onsite	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	7.67	pH units	yes	
SW-5	onsite	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.5	pH units	yes	
SW-5	onsite	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.6	pH units	yes	
SW-5	onsite	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	250	μS/cm @25oC	yes	
SW-5	onsite	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	284	μS/cm @25oC	yes	
SW-5	onsite	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	284	μS/cm @25oC	yes	
SW-5	onsite	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	418	μS/cm @25oC	yes	
SW-5 SW-5	onsite onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl)	10/03/2016 11/05/2016	250 250	All values < ELV All values < ELV	26.1 28.7	mg/L	yes	
					250	All values < ELV All values < ELV	31.6	mg/L	yes	
SW-5 SW-5	onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl)	18/08/2016 14/12/2016	250	All values < ELV All values < ELV	31.0	mg/L mg/L	yes yes	
SW-5	onsite	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	0.02	mg/L	ves	
SW-5	onsite	SELECT	Ammoniacal Nitrogen	11/05/2016	0.14	All values < ELV	0.11	mg/L	yes	
SW-5	onsite	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.02	mg/L	yes	
SW-5	onsite	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.26	mg/L	No	
SW-5	onsite	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-5	onsite	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-5	onsite	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	13	mg/L	yes	
SW-5	onsite	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	111	mg/L	yes	
SW-5	onsite	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	11	mg/L	yes	
SW-5	onsite	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-5 SW-5	onsite onsite	SELECT SELECT	Dissolved Oxygen Dissolved Oxygen	18/08/2016 14/12/2016	N/A N/A	All values < ELV All values < ELV	10	mg/L mg/L	yes	
SW-5	onsite	SELECT	BOD	10/03/2016	2.6	All values < ELV	<1	mg/L	yes yes	
SW-5	onsite	SELECT	BOD	11/05/2016	2.6	All values < ELV	1	mg/L	yes	
SW-5	onsite	SELECT	BOD	18/08/2016	2.6	All values < ELV	2	mg/L	yes	
SW-5	onsite	SELECT	BOD	14/12/2016	2.6	All values < ELV	2	mg/L	yes	
SW-5	onsite	SELECT	COD	10/03/2016	N/A	All values < ELV	<7	mg/L	yes	
SW-5	onsite	SELECT	COD	11/05/2016	N/A	All values < ELV	<7	mg/L	yes	
SW-5	onsite	SELECT	COD	18/08/2016	N/A	All values < ELV	14	mg/L	yes	
SW-5	onsite	SELECT	COD	14/12/2016	N/A	All values < ELV	45	mg/L	yes	
SW-5	onsite	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	
SW-5	onsite	SELECT	Boron	14/12/2016	2,000	All values < ELV	16	μg/L	yes	
SW-5	onsite	SELECT	Cadmium and compounds (as Cd)	14/12/2016	3	All values < ELV	<0.5	μg/L	yes	
SW-5 SW-5	onsite onsite	SELECT SELECT	Calcium	14/12/2016 14/12/2016	250 30	All values < ELV All values < ELV	44 <7	mg/L	yes	
SW-5	onsite	SELECT	Copper and compounds (as Cu) Iron	14/12/2016	1,000	All values < ELV	116	μg/L μg/L	yes	
SW-5	onsite	SELECT	Lead and compounds (as Pb)	14/12/2016	1,000	All values < ELV	<5	μg/L μg/L	yes	
SW-5	onsite	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	9.2	mg/L	yes	
SW-5	onsite	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	4	μg/L	yes	
SW-5	onsite	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-5	onsite	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-5	onsite	SELECT	Potassium	14/12/2016	N/A	All values < ELV	8.4	mg/l	yes	
SW-5	onsite	SELECT	Sodium	14/12/2016	N/A	All values < ELV	14.5	mg/l	yes	
SW-5	onsite	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	3	μg/L	yes	
SW-5	onsite	SELECT SELECT	Sulphate	14/12/2016	200 0.075	All values < ELV	26.9	mg/L	yes	
SW-5	onsite	SELECT SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075 N/A	All values < ELV All values < ELV	0.2	mg/L	yes	
SW-5 SW-5	onsite onsite	SELECT	Total Oxidised Nitrogen (TON) Total Alkalinity	14/12/2016 14/12/2016	N/A N/A	All values < ELV All values < ELV	15.7 76	mg/L mg/L	yes	
SW-6	downstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.74	pH units	yes yes	
SW-6	downstream	SELECT	pH	11/05/2016	6-9	No pH value shall deviate from the specified range.	7.92	pH units	yes	
SW-6	downstream	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.99	pH units	yes	
SW-6	downstream	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.49	pH units	yes	
SW-6	downstream	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	263	μS/cm @25oC	yes	
SW-6	downstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	283	μS/cm @25oC	yes	
SW-6	downstream	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	289	μS/cm @25oC	yes	
SW-6	downstream	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	279	μS/cm @25oC	yes	
SW-6	downstream	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	25.3	mg/L	yes	
SW-6	downstream	SELECT	Chlorides (as CI)	11/05/2016	250	All values < ELV	27.8	mg/L	yes	
SW-6	downstream	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	30.4	mg/L	yes	
SW-6 SW-6	downstream	SELECT	Chlorides (as Cl)	14/12/2016	250 0.14	All values < ELV	21.6	mg/L	yes	
SW-6	downstream	SELECT SELECT	Ammoniacal Nitrogen Ammoniacal Nitrogen	10/03/2016 11/05/2016	0.14	All values < ELV All values < ELV	0.03	mg/L mg/L	yes ves	
244-0	uownstream	SELECT	Animomacai Nitrogen	11/02/2010	0.14	MII Values < ELV	0.09	mg/L	yes	

AER Monitor	ring returns sui	mmary template-WATER/WAS	TEWATER(SEWER)			Lic No:	WO 165-02		Year	201
SW-6	downstream	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.03	mg/L	yes	
SW-6	downstream	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.16	mg/L	No	
SW-6	downstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-6	downstream	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	ves	
SW-6	downstream	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	<10	mg/L	,	
							174		yes	
SW-6	downstream	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	-,,	mg/L	yes	
SW-6	downstream	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-6	downstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-6	downstream	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	9	mg/L	yes	
SW-6	downstream	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	9	mg/L	yes	
SW-6	downstream	SELECT	BOD	10/03/2016	2.6	All values < ELV	<1	mg/L	yes	
SW-6	downstream	SELECT	BOD	11/05/2016	2.6	All values < ELV	1	mg/L	yes	
SW-6	downstream	SELECT	BOD	18/08/2016	2.6	All values < ELV	2	mg/L	yes	
SW-6	downstream	SELECT	BOD	14/12/2016	2.6	All values < ELV	<1	mg/L	yes	
SW-6	downstream	SELECT	COD		N/A	All values < ELV	14			
SW-6	downstream		COD	10/03/2016			11	mg/L	yes	
		SELECT		11/05/2016	N/A	All values < ELV		mg/L	yes	
SW-6	downstream	SELECT	COD	18/08/2016	N/A	All values < ELV	16	mg/L	yes	
SW-6	downstream	SELECT	COD	14/12/2016	N/A	All values < ELV	52	mg/L	yes	
SW-6	downstream	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	
SW-6	downstream	SELECT	Boron	14/12/2016	2,000	All values < ELV	16	μg/L	yes	
SW-6	downstream	SELECT	Cadmium and compounds (as Cd)	14/12/2016	5	All values < ELV	<0.5	μg/L	yes	
SW-6	downstream	SELECT	Calcium	14/12/2016	250	All values < ELV	24.9	mg/L	yes	
SW-6	downstream	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	
SW-6	downstream	SELECT	Iron	14/12/2016	1,000	All values < ELV	195	μg/L	yes	
SW-6	downstream	SELECT	Lead and compounds (as Pb)	14/12/2016	10	All values < ELV	<5	μg/L	yes	
SW-6	downstream	SELECT	Magnesium		N/A	All values < ELV	6		,	
				14/12/2016				mg/L	yes	
SW-6	downstream	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	<2	μg/L	yes	
SW-6	downstream	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-6	downstream	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-6	downstream	SELECT	Potassium	14/12/2016	N/A	All values < ELV	6.5	mg/l	yes	
SW-6	downstream	SELECT	Sodium	14/12/2016	N/A	All values < ELV	10.8	mg/l	yes	
SW-6	downstream	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	<3	μg/L	yes	
SW-6	downstream	SELECT	Sulphate	14/12/2016	200	All values < ELV	18.8	mg/L	yes	
SW-6	downstream	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	0.33	mg/L	yes	
SW-6	downstream	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	6	mg/L	yes	
SW-6	downstream	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	60	mg/L		
SW-7	downstream	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.81	pH units	yes	
		SELECT	· · ·		6-9				yes	
SW-7	downstream		pH	11/05/2016		No pH value shall deviate from the specified range.	8	pH units	yes	
SW-7	downstream	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	8.08	pH units	yes	
SW-7	downstream	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.57	pH units	yes	
SW-7	downstream	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	327	μS/cm @25oC	yes	
SW-7	downstream	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	375	μS/cm @25oC	yes	
SW-7	downstream	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	407	μS/cm @25oC	yes	
SW-7	downstream	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	277	μS/cm @25oC	yes	
SW-7	downstream	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	24.3	mg/L	yes	
SW-7	downstream	SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	27.5	mg/L	yes	
SW-7	downstream	SELECT	Chlorides (as CI)	18/08/2016	250	All values < ELV	28.9	mg/L	yes	
SW-7	downstream	SELECT	Chlorides (as Cl)	14/12/2016	250	All values < ELV	21.2			
SW-7		SELECT			0.14	All values < ELV	0.05	mg/L	yes	
SW-7	downstream	SELECT	Ammoniacal Nitrogen Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV All values < ELV	0.05	mg/L	yes	
				11/05/2016				mg/L	yes	
SW-7	downstream	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.04	mg/L	yes	
SW-7	downstream	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.13	mg/L	yes	
SW-7	downstream	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-7	downstream	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-7	downstream	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-7	downstream	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	81	mg/L	yes	
SW-7	downstream	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-7	downstream	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-7	downstream	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	9	mg/L	yes	
SW-7	downstream	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	10	mg/L	yes	
		SELECT	BOD BOD		2.6	1.1.1	2		,	
SW-7	downstream	SELECT	BOD	10/03/2016		All values < ELV All values < FLV		mg/L	yes	
	downstream			11/05/2016	2.6		1	mg/L	yes	
SW-7	downstream	SELECT	BOD	18/08/2016	2.6	All values < ELV	2	mg/L	yes	
	downstream	SELECT	BOD	14/12/2016	2.6	All values < ELV	3	mg/L	No	
SW-7		SELECT	COD	10/03/2016	N/A	All values < ELV	8	mg/L	yes	
SW-7	downstream			11/05/2016	N/A	All values < ELV	<7	mg/L	yes	
	downstream downstream	SELECT	COD							
SW-7 SW-7	downstream	SELECT	COD		N/A	All values < FIV	<7	mø/I	ves	
SW-7 SW-7 SW-7	downstream downstream	SELECT SELECT	COD	18/08/2016		All values < ELV	<7 60	mg/L	yes	
SW-7 SW-7 SW-7 SW-7	downstream downstream downstream	SELECT SELECT SELECT	COD COD	18/08/2016 14/12/2016	N/A	All values < ELV	60	mg/L	yes	
SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT	COD COD Chromium and compounds (as Cr)	18/08/2016 14/12/2016 14/12/2016	N/A 30	All values < ELV All values < ELV	60 <1.5	mg/L μg/L	yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT SELECT	COD COD Chromium and compounds (as Cr) Boron	18/08/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000	All values < ELV All values < ELV All values < ELV	60 <1.5 14	mg/L μg/L μg/L	yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	COD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd)	18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000 5	All values < ELV	60 <1.5 14 <0.5	mg/L μg/L μg/L μg/L	yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream	SELECT	COD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd) Calcium	18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000 5 250	All values < ELV	60 <1.5 14 <0.5 28.8	mg/L μg/L μg/L	yes yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream downstream	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	COD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd)	18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000 5	All values < ELV	60 <1.5 14 <0.5	mg/L μg/L μg/L μg/L	yes yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream downstream downstream	SELECT	COD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd) Calcium Copper and compounds (as Cu)	18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000 5 250	All values < ELV	60 <1.5 14 <0.5 28.8	mg/L µg/L µg/L µg/L mg/L µg/L	yes yes yes yes yes yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream downstream downstream downstream downstream downstream downstream	SELECT	COD COD Chromium and compounds (as Cr) Boron Cadmium and compounds (as Cd) Calcium	18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 30 2,000 5 250 30	All values < ELV	60 <1.5 14 <0.5 28.8 <7	mg/L µg/L µg/L µg/L mg/L	yes yes yes yes yes	

SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream onsite	### ### ### ### ### ### ### ### ### ##	Magnesium Magnese (as Mn) Mercury and compounds (as Hg) Nickel and compounds (as Ni) Potassium Sodium Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity pH pH pH pH Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016	N/A 300 1 1 50 N/A N/A N/A 100 200 0.075 N/A N/A 6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 250 250	Lic No: All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH values all deviate from the specified range. All values < ELV All values < ELV	W0 165-02 5.9 <2 <1 <2 6.5 10.7 <3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	mg/L µg/L µg/L µg/L µg/L µg/L µg/L mg/I mg/I mg/I mg/L mg/L mg/L mg/L mg/L mg/L mg/L pH units pH units pH units pH units pH units pG u	Yes	2016
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7	downstream onsite	SELECT	Mercury and compounds (as Hg) Nickel and compounds (as Ni) Potassium Sodium Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity pH pH pH conductivity Chlorides (as Cl)	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 11/05/2016 18/08/2016 11/05/2016 11/05/2016 11/05/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	1 50 N/A N/A N/A 100 200 0.075 N/A N/A 6 - 9 6 - 9 1,000 1,000 1,000 250 250	All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All value s < ELV All values < ELV	<1 <1 <2 6.5 10.7 <3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream downstream downstream downstream downstream downstream downstream onsite	SELECT SELECT	Nickel and compounds (as Ni) Potassium Sodium Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity pH pH pH pH Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016	50 N/A N/A 100 200 0.075 N/A N/A 6 - 9 6 - 9 1.000 1.000 1.000 1.000 250 250	All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	<2 6.5 10.7 <3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	μg/L mg/l mg/l mg/l μg/L mg/L mg/L mg/L mg/L mg/L mg/L pH units	yes yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream onsite	SELECT	Potassium Sodium Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity PH PH PH Conductivity C	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 18/08/2016 14/12/2016 18/08/2016	N/A N/A N/A 100 200 0.75 N/A N/A N/A 6 - 9 6 - 9 1,000 1,000 1,000 250 250	All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	6.5 10.7 <3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8	mg/l	yes	
SW-7 SW-7 SW-7 SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream downstream downstream downstream onsite	SELECT	Sodium Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity PH pH pH Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	N/A 100 200 0.075 N/A N/A 6 - 9 6 - 9 1.000 1.000 1.000 250 250	All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	10.7 <3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8	mg/l	yes	
SW-7 SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream downstream downstream downstream onsite	SELECT	Zinc and compounds (as Zn) Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity pH pH pH conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 11/05/2016 18/08/2016 14/12/2016	100 200 0.075 N/A N/A 6 - 9 6 - 9 1,000 1,000 1,000 1,000 250	All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	3 18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	μg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L pH units	yes	
SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream downstream downstream dossite onsite	SELECT	Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity PH PH PH PH Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/05/2016 18/08/2016	200 0.075 N/A N/A 6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 1,000 250 250	All values < ELV No ph value shall deviate from the specified range. No ph value shall deviate from the specified range. No ph value shall deviate from the specified range. No ph value shall deviate from the specified range. All values < ELV	18.5 0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	mg/L mg/L mg/L mg/L pH units pH units pH units pH units pC units pH units	yes	
SW-7 SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream onsite	SELECT	Sulphate Ortho-phosphate (as PO4) Total Oxidised Nitrogen (TON) Total Alkalinity PH PH PH PH Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 14/12/2016 14/12/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	0.075 N/A N/A 6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 1,000 250 250	All values < ELV All values < ELV All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	0.26 3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8	mg/L mg/L mg/L mg/L pH units pH units pH units pH units pC units pH units	yes	
SW-7 SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream downstream downstream onsite	SELECT	Total Oxidised Nitrogen (TON) Total Alkalimity pH pH pH pH Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 14/12/2016 11/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016	N/A N/A 6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 1,000 250 250	All values < ELV All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	3.7 80 7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	mg/L mg/L mg/L pH units pH units pH units pH units p units pH units pH units pH units pH units pH units pM units	yes	
SW-7 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	downstream onsite	SELECT	Total Alkalinity pH pH pH pH conductivity Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 14/12/2016 11/03/2016 11/05/2016 18/08/2016 14/12/2016 14/12/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016	N/A 6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 250 250	All values < ELV All values < ELV No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	80 7.63 7.72 7.48 6.44 245 270 335 426 25.8	mg/L mg/L pH units pH units pH units pH units pH units pH units us/cm @25oC us/cm @25oC us/cm @25oC mg/L	yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	pH pH pH pH pH Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	10/03/2016 11/05/2016 18/08/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 250 250	No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	7.63 7.72 7.48 6.44 245 270 353 426 25.8 29	mg/L pH units pH units pH units pH units pH units pL units pS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC	yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	pH pH pH pH conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016	6 - 9 6 - 9 6 - 9 1,000 1,000 1,000 250 250	No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	7.72 7.48 6.44 245 270 353 426 25.8 29	pH units pH units pH units pS/cm @25oC µS/cm @25oC µS/cm @25oC µS/cm @25oC µS/cm @25oC µS/cm @25oC	yes yes yes yes yes yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	pH pH conductivity Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as CI) Chlorides (as CI) Chlorides (as CI) Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	6 - 9 6 - 9 1,000 1,000 1,000 1,000 250 250	No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	7.48 6.44 245 270 353 426 25.8 29	pH units pH units μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC	yes yes yes yes yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	pH pH conductivity Conductivity Conductivity Conductivity Conductivity Conductivity Chlorides (as CI) Chlorides (as CI) Chlorides (as CI) Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	6 - 9 1,000 1,000 1,000 1,000 250 250	No pH value shall deviate from the specified range. No pH value shall deviate from the specified range. All values < ELV	6.44 245 270 353 426 25.8 29	pH units pH units μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC	yes yes yes yes yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	pH Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	1,000 1,000 1,000 1,000 250 250	No pH value shall deviate from the specified range. All values < ELV	6.44 245 270 353 426 25.8 29	pH units μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC mg/L	yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	Conductivity Conductivity Conductivity Conductivity Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	1,000 1,000 1,000 250 250	All values < ELV	270 353 426 25.8 29	μS/cm @25oC μS/cm @25oC μS/cm @25oC μS/cm @25oC mg/L	yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	Conductivity Conductivity Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	1,000 1,000 250 250	All values < ELV	353 426 25.8 29	μS/cm @25oC μS/cm @25oC mg/L	yes yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	Conductivity Chlorides (as Cl) Ammoniacal Nitrogen	14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	1,000 250 250	All values < ELV All values < ELV All values < ELV	426 25.8 29	μS/cm @25oC mg/L	yes yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT	Conductivity Chlorides (as Cl) Ammoniacal Nitrogen	14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	1,000 250 250	All values < ELV All values < ELV All values < ELV	426 25.8 29	μS/cm @25oC mg/L	yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	10/03/2016 11/05/2016 18/08/2016 14/12/2016	250	All values < ELV All values < ELV	25.8 29	mg/L	· ·	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	11/05/2016 18/08/2016 14/12/2016		All values < ELV	29			41
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite	SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016					yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite onsite onsite onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	14/12/2016			31.6	mg/L	yes	
SW-8 SW-8 SW-8 SW-8 SW-8 SW-8	onsite onsite onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT	Ammoniacal Nitrogen Ammoniacal Nitrogen		250	All values < ELV	35.3	mg/L	yes	
SW-8 SW-8 SW-8 SW-8 SW-8	onsite onsite onsite onsite onsite onsite	SELECT SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	0.02	mg/L	yes	
SW-8 SW-8 SW-8 SW-8 SW-8	onsite onsite onsite onsite	SELECT		11/05/2016	0.14	All values < ELV	0.02	mg/L	yes	
SW-8 SW-8 SW-8 SW-8	onsite onsite onsite		Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.03	mg/L	yes	
SW-8 SW-8 SW-8	onsite onsite		Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.03	mg/L	No	
SW-8	onsite	SELECT	Total Suspended Solids	10/03/2016	N/A	All values < ELV	<10	mg/L	yes	
SW-8		SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	<10	mg/L	yes	
	onsite	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	<10	mg/L	yes	
	onsite	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	81	mg/L	yes	
SW-8	onsite	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-8	onsite	SELECT	Dissolved Oxygen	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-8	onsite	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	9	mg/L	yes	
SW-8	onsite	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	10	mg/L	ves	
SW-8	onsite	SELECT		10/03/2016	2.6		<1		,	
			BOD			All values < ELV		mg/L	yes	
SW-8	onsite	SELECT	BOD	11/05/2016	2.6	All values < ELV	1	mg/L	yes	4
SW-8	onsite	SELECT	BOD	18/08/2016	2.6	All values < ELV	3	mg/L	No	4
SW-8	onsite	SELECT	BOD	14/12/2016	2.6	All values < ELV	2	mg/L	yes	4
SW-8	onsite	SELECT	COD	10/03/2016	N/A	All values < ELV	10	mg/L	yes	4
SW-8	onsite	SELECT	COD	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-8	onsite	SELECT	COD	18/08/2016	N/A	All values < ELV	17	mg/L	yes	
SW-8	onsite	SELECT	COD	14/12/2016	N/A	All values < ELV	52	mg/L	yes	
SW-8	onsite	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	4
SW-8	onsite	SELECT	Boron	14/12/2016	2,000	All values < ELV	<12	μg/L	yes	4
SW-8	onsite	SELECT	Cadmium and compounds (as Cd)	14/12/2016	5	All values < ELV	<0.5	μg/L	yes	4
SW-8	onsite	SELECT	Calcium	14/12/2016	250	All values < ELV	41.8	mg/L	yes	
SW-8	onsite	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	4
SW-8	onsite	SELECT	Iron	14/12/2016	1,000	All values < ELV	138	μg/L	yes	4
SW-8	onsite	SELECT	Lead and compounds (as Pb)	14/12/2016	10	All values < ELV	<5	μg/L	yes	4
SW-8	onsite	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	9.4	mg/L	yes	4
SW-8	onsite	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	7	μg/L	yes	
SW-8	onsite	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-8	onsite	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	2	μg/L	yes	
SW-8	onsite	SELECT	Potassium	14/12/2016	N/A	All values < ELV	9	mg/l	yes	
SW-8	onsite	SELECT	Sodium	14/12/2016	N/A	All values < ELV	14.8	mg/l	yes	
SW-8	onsite	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	4	μg/L	yes	
SW-8	onsite	SELECT	Sulphate	14/12/2016	200	All values < ELV	22.1	mg/L	yes	
SW-8	onsite	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	0.27	mg/L	No	
SW-8	onsite	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	17.9	mg/L	yes	
SW-8	onsite	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	68	mg/L	yes	
SW-9	onsite	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	8.19	pH units	yes	
SW-9	onsite	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	7.65	pH units	yes	
SW-9	onsite	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.97	pH units	yes	
SW-9	onsite	SELECT	pH	14/12/2016	6 - 9	No pH value shall deviate from the specified range.	6.92	pH units	yes	
SW-9	onsite	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	602	μS/cm @25oC	yes	
SW-9	onsite	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	633	μS/cm @25oC	yes	
SW-9	onsite	SELECT	Conductivity	18/08/2016	1,000	All values < ELV	572	μS/cm @25oC	yes	
SW-9	onsite	SELECT	Conductivity	14/12/2016	1,000	All values < ELV	532	μS/cm @25oC	yes	
SW-9	onsite	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < ELV	34.5	mg/L	yes	
SW-9	onsite	SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	24	mg/L	yes	
SW-9	onsite	SELECT	Chlorides (as Cl)	18/08/2016	250	All values < ELV	25	mg/L	yes	
SW-9	onsite	SELECT	Chlorides (as Cl)	14/12/2016	250	All values < ELV	18.9	mg/L	yes	
SW-9	onsite	SELECT	Ammoniacal Nitrogen	10/03/2016	0.14	All values < ELV	1.13	mg/L	No	
SW-9	onsite	SELECT	Ammoniacal Nitrogen	11/05/2016	0.14	All values < ELV All values < ELV	1.13	mg/L	No	

	ring returns su	mmary template-WATER/WAS	STEWATER(SEWER)			Lic No:	WO 165-02		Year	
SW-9	onsite	SELECT	Ammoniacal Nitrogen	18/08/2016	0.14	All values < ELV	0.6	mg/L	No	
SW-9	onsite	SELECT	Ammoniacal Nitrogen	14/12/2016	0.14	All values < ELV	0.07	mg/L	yes	
SW-9	onsite	SELECT	Total Suspended Solids		N/A	All values < ELV	12			
				10/03/2016				mg/L	yes	
SW-9	onsite	SELECT	Total Suspended Solids	11/05/2016	N/A	All values < ELV	10	mg/L	yes	
SW-9	onsite	SELECT	Total Suspended Solids	18/08/2016	N/A	All values < ELV	10	mg/L	yes	
SW-9	onsite	SELECT	Total Suspended Solids	14/12/2016	N/A	All values < ELV	1009	mg/L	yes	
SW-9	onsite	SELECT	Dissolved Oxygen	10/03/2016	N/A	All values < ELV	10	mg/L	yes	
SW-9	onsite	SELECT		11/05/2016	N/A	All values < FLV	9			
	0.110.110		Dissolved Oxygen					mg/L	yes	
SW-9	onsite	SELECT	Dissolved Oxygen	18/08/2016	N/A	All values < ELV	8	mg/L	yes	
SW-9	onsite	SELECT	Dissolved Oxygen	14/12/2016	N/A	All values < ELV	9	mg/L	yes	
SW-9	onsite	SELECT	BOD	10/03/2016	2.6	All values < ELV	2	mg/L	yes	
SW-9	onsite	SELECT	BOD	11/05/2016	2.6	All values < ELV	13	mg/L	No	
SW-9		SELECT	BOD	18/08/2016	2.6	All values < ELV	4			
	onsite					1.1.1		mg/L	No	
SW-9	onsite	SELECT	BOD	14/12/2016	2.6	All values < ELV	2	mg/L	yes	
SW-9	onsite	SELECT	COD	10/03/2016	N/A	All values < ELV	15	mg/L	yes	
SW-9	onsite	SELECT	COD	11/05/2016	N/A	All values < ELV	31	mg/L	yes	
SW-9	onsite	SELECT	COD	18/08/2016	N/A	All values < ELV	17	mg/L	yes	
SW-9	onsite	SELECT	COD	14/12/2016	N/A	All values < ELV	30			
								mg/L	yes	
SW-9	onsite	SELECT	Chromium and compounds (as Cr)	14/12/2016	30	All values < ELV	<1.5	μg/L	yes	
SW-9	onsite	SELECT	Boron	14/12/2016	2,000	All values < ELV	23	μg/L	yes	
SW-9	onsite	SELECT	Cadmium and compounds (as Cd)	14/12/2016	5	All values < ELV	<0.5	μg/L	yes	
SW-9	onsite	SELECT	Calcium	14/12/2016	250	All values < ELV	56.9	mg/L	yes	
SW-9	onsite	SELECT	Copper and compounds (as Cu)	14/12/2016	30	All values < ELV	<7	μg/L	yes	
					1,000					
SW-9	onsite	SELECT	Iron	14/12/2016		All values < ELV	<20	μg/L	yes	
SW-9	onsite	SELECT	Lead and compounds (as Pb)	14/12/2016	10	All values < ELV	<5	μg/L	yes	
SW-9	onsite	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	7.6	mg/L	yes	
SW-9	onsite	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	<2	μg/L	yes	
SW-9	onsite	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-9	onsite	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-9	onsite	SELECT	Potassium	14/12/2016	N/A	All values < ELV	3.7	mg/l	yes	
SW-9	onsite	SELECT	Sodium	14/12/2016	N/A	All values < ELV	11.1	mg/l	yes	
SW-9	onsite	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	<3	μg/L	yes	
SW-9	onsite	SELECT	Sulphate	14/12/2016	200	All values < ELV	83.3	mg/L	yes	
SW-9	onsite	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	<0.06	mg/L	yes	
SW-9	onsite	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	0.8	mg/L	yes	
SW-9	onsite	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	186	mg/L	yes	
SW-10	onsite	SELECT	pH	10/03/2016	6 - 9	No pH value shall deviate from the specified range.	7.55	pH units	yes	
SW-10	onsite	SELECT	pH	11/05/2016	6 - 9	No pH value shall deviate from the specified range.	7.47	pH units	yes	
SW-10	onsite	SELECT	pH	18/08/2016	6 - 9	No pH value shall deviate from the specified range.	7.61	pH units	yes	
	0.110.110		P. C.		6-9					
SW-10	onsite	SELECT	pH	14/12/2016		No pH value shall deviate from the specified range.	6.97	pH units	yes	
SW-10	onsite	SELECT	Conductivity	10/03/2016	1,000	All values < ELV	545	μS/cm @25oC	yes	
SW-10	onsite	SELECT	Conductivity	11/05/2016	1,000	All values < ELV	618	μS/cm @25oC	yes	
SW-10	onsite	SELECT	Conductivity	18/08/2016	1.000	All values < ELV	421	μS/cm @25oC	yes	
SW-10	onsite	SELECT	Conductivity	14/12/2016	1.000	All values < ELV	489	μS/cm @25oC	yes	
SW-10	onsite	SELECT	Chlorides (as Cl)	10/03/2016	250	All values < FLV	37.3			
				,,		All values < ELV		mg/L	yes	
SW-10	onsite					and the second s				
		SELECT	Chlorides (as Cl)	11/05/2016	250	All values < ELV	56.4	mg/L	yes	
SW-10	onsite	SELECT SELECT	Chlorides (as Cl)	11/05/2016 18/08/2016	250 250	All values < ELV All values < ELV	56.4 23.2	mg/L mg/L		
SW-10 SW-10			Chlorides (as Cl)	18/08/2016				mg/L	yes	
SW-10	onsite onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl)	18/08/2016 14/12/2016	250 250	All values < ELV All values < ELV	23.2 21.2	mg/L mg/L	yes yes yes	
SW-10 SW-10	onsite onsite onsite	SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016	250 250 0.14	All values < ELV All values < ELV All values < ELV	23.2 21.2 1.38	mg/L mg/L mg/L	yes yes yes No	
SW-10 SW-10 SW-10	onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016	250 250 0.14 0.14	All values < ELV	23.2 21.2 1.38 2.87	mg/L mg/L mg/L mg/L	yes yes yes No	
SW-10 SW-10 SW-10 SW-10	onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016	250 250 0.14 0.14 0.14	All values < ELV	23.2 21.2 1.38 2.87 0.03	mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10	onsite onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11	mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes	
SW-10 SW-10 SW-10 SW-10	onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016	250 250 0.14 0.14 0.14	All values < ELV	23.2 21.2 1.38 2.87 0.03	mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10	onsite onsite onsite onsite onsite onsite onsite onsite onsite	SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016	250 250 0.14 0.14 0.14 0.14 N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 0.14 N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes No No yes yes yes yes yes yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Total Suspended Solids Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016	250 250 0.14 0.14 0.14 0.14 0.14 N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes yes yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Total Suspended Solids Total Suspended Solids Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A 35	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes yes yes yes yes yes yes No	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes yes yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 10/03/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes yes yes yes yes yes yes yes yes No	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Ovygen Dissolved Ovygen Dissolved Ovygen Dissolved Ovygen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 11/05/2016 18/08/2016 11/05/2016 10/03/2016 11/05/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 0.16 N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A 35 N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes No No Yes yes yes yes yes yes yes yes Yes No yes yes yes yes yes yes yes yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 14/12/2016 10/03/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD BOD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 11/05/2016 11/05/2016 10/03/2016 11/05/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes No No Yes yes yes yes yes yes yes yes Yes No yes yes yes yes yes yes yes yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 14/12/2016 10/03/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD BOD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 11/05/2016 10/03/2016 11/05/2016 11/05/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/05/2016 18/08/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A 35 N/A N/A N/A 2.6 2.6 2.6	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No No yes yes yes yes yes yes No yes yes No yes yes yes yes yes yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD BOD COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A 35 N/A N/A N/A N/A 2.6 2.6 2.6	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 8 9 1 1 5 2 2 2 25	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD BOD BOD COD COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 2 5 36	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes No No No yes yes yes yes yes yes yes No yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Total Suspended Solids Total Suspended Solids Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD COD COD COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 25 36 18	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10 SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD BOD BOD COD COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 2 5 36	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Bisolved Oxygen BOD BOD BOD COD COD COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 11/05/2016 18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 14/12/2016 16/03/2016 16/03/2016 16/03/2016 14/12/2016 16/03/2016 11/05/2016 18/08/2016 11/05/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 25 36 18	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Owgen Dissolved Owgen Dissolved Owgen Dissolved Owgen Dissolved Owgen Dissolved Owgen Discolved Owgen Discolved Owgen BOD COD COD COD COD COD COD COD COD COD C	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 11/05/2016 10/03/2016 11/05/2016 11/05/2016 11/05/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 14/12/2016 10/03/2016 11/05/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 2 5 36 18 28 <1.5	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No Yes yes yes yes Yes Yes No yes Y	
SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD COD COD COD COD COD COD COD Chromium and compounds (as Cr)	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 16/08/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 25 36 118 28 <1.5 22	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10	onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Bisolved Oxygen Bisolved Oxygen Bisolved Oxygen Bisolved Oxygen Cop	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 18/08/2016 18/08/2016 14/12/2016 18/08/2016 14/12/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A 35 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 2 2 2 2 2 2 4.15 2 2 2 2 4.15 2 4.15 2 4	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No Yes yes yes yes Yes Yes No yes Y	
SW-10	onsite	SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen BOD BOD BOD COD COD COD COD COD COD COD Chromium and compounds (as Cr)	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 16/08/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 10/03/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 25 36 118 28 <1.5 22	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10	onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Total Suspended Solids Total Suspended Solids Total Suspended Solids Dissolved Oxygen COD	18/08/2016 14/12/2016 10/03/2016 11/05/2016 11/05/2016 10/03/2016 10/03/2016 10/03/2016 11/05/2016 10/03/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 11/05/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A 35 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 25 36 18 28 <1.5 22 <0.5 65.8	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No yes	
SW-10	onsite	SELECT SELECT	Chlorides (as Cl) Chlorides (as Cl) Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Ammoniacal Nitrogen Total Suspended Solids Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen Bisolved Oxygen Bisolved Oxygen Bisolved Oxygen Bisolved Oxygen Cop	18/08/2016 14/12/2016 10/03/2016 11/05/2016 18/08/2016 18/08/2016 10/03/2016 18/08/2016 18/08/2016 14/12/2016 18/08/2016 14/12/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 11/05/2016 18/08/2016 14/12/2016 18/08/2016 14/12/2016 14/12/2016 14/12/2016 14/12/2016	250 250 0.14 0.14 0.14 0.14 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	All values < ELV	23.2 21.2 1.38 2.87 0.03 0.11 <10 25 <10 93 7 6 8 9 1 1 5 2 2 2 2 2 2 2 2 2 4.15 2 2 2 2 4.15 2 4.15 2 4	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	yes yes yes No No Yes y	

AER Monito	ring returns su	mmary template-WATER/WAST	TEWATER(SEWER)			Lic No:	WO 165-02		Year	2016
SW-10	onsite	SELECT	Magnesium	14/12/2016	N/A	All values < ELV	8.9	mg/L	yes	
SW-10	onsite	SELECT	Manganese (as Mn)	14/12/2016	300	All values < ELV	3	μg/L	yes	
SW-10	onsite	SELECT	Mercury and compounds (as Hg)	14/12/2016	1	All values < ELV	<1	μg/L	yes	
SW-10	onsite	SELECT	Nickel and compounds (as Ni)	14/12/2016	50	All values < ELV	<2	μg/L	yes	
SW-10	onsite	SELECT	Potassium	14/12/2016	N/A	All values < ELV	4.5	mg/l	yes	
SW-10	onsite	SELECT	Sodium	14/12/2016	N/A	All values < ELV	13	mg/l	yes	
SW-10	onsite	SELECT	Zinc and compounds (as Zn)	14/12/2016	100	All values < ELV	<3	μg/L	yes	
SW-10	onsite	SELECT	Sulphate	14/12/2016	200	All values < ELV	95.5	mg/L	yes	
SW-10	onsite	SELECT	Ortho-phosphate (as PO4)	14/12/2016	0.075	All values < ELV	< 0.06	mg/L	yes	
SW-10	onsite	SELECT	Total Oxidised Nitrogen (TON)	14/12/2016	N/A	All values < ELV	0.9	mg/L	yes	
SW-10	onsite	SELECT	Total Alkalinity	14/12/2016	N/A	All values < ELV	130	mg/L	yes	
										,

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

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

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
	Weekly	No contamination observed throughout 2016	SELECT		
			SELECT		

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

3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W	SELECT	Additional information
	below	SELECT	Additional information
	Was all monitoring carried out in accordance with EPA guidance and		
	checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If		
	no please detail what areas require improvement in additional information External /Internal Lab Quality Assessment		
4	box <u>checklist</u> <u>results check</u>	SELECT SELECT	

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

Emission	Emission		Frequency of					Unit of	Compliant with
reference no:	released to	Parameter/ SubstanceNote 1		Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	measurement	licence

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

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

AER Monitor	ing returns su	mmary template-WATER/WAS	TEWATER(SEWER)			Lic No:	WO 165-02		Year	2016
Continuous r	monitoring			*		Additional Information	on .	•		,
5 Does your site ca	arry out continuou	us emissions to water/sewer monitoring?			No				:	
If yes please sun Value (ELV)	mmarise your cont	tinuous monitoring data below in Table \	N4 and compare it to its relevant Em	ission Limit						
6 Did continuous n	nonitoring equipm	nent experience downtime? If yes please i	record downtime in table W4 below		SELECT					
7 Do you have a pr	roactive service co	ntract for each piece of continuous monit	oring equipment on site?		SELECT					
8 Did abatement s	ystem bypass occu	ur during the reporting year? If yes please	complete table W5 below		SELECT					
Table W4: Su	ımmary of ave	erage emissions -continuous mo	nitoring			_				
								% change +/- from previous reporting	Monitoring	Number of ELV
	Emission			Averaging	Compliance		Annual Emission for current			exceedences in
reference no:			any revision thereof	Period	Criteria	Units of measurement	reporting year (kg)		downtime (hours)	reporting year
	SELECT	SELECT		SELECT	SELECT	SELECT				
	SELECT	SELECT		SELECT	SELECT	SELECT				

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

Table W5: Abatement system bypass reporting table

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

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

Bund/Pipeline tes	sting template				Lic No:	WO 165-02		Year	2010	6				1
	1						Additional information							-
Bund testing	<u>.</u>	dropdown menu cl	•				Additional information	7						
		ntegrity testing on bunds and cor to all bunds which failed the inte												
		ds outside the licenced testing po				Yes								
Please provide integrit	y testing frequency perio	nd				yes 3 years		-						
		erground pipelines (including sto	rmwater and foul), Tanks, su	imps and containers? (contain	iners refers to	7,00.0								
"Chemstore" type unit	s and mobile bunds)					Yes								
How many bunds are o		thin the required test schedule?					1							
How many mobile bun		tnin the required test schedule?					1							
Are the mobile bunds i	ncluded in the bund test					SELECT								
		sted within the required test scho	edule?											
	ite are included in the int	tegrity test schedule? within the test schedule?						-						
	itegrity failures in table B						+	-1						
Do all sumps and cham	bers have high level liqui	id alarms?				SELECT								
		d in a maintenance and testing pr	rogramme?			SELECT SELECT		-						
is the Fire Water Reter	ition Pond included in yo	our integrity test programme?				SELECT		_						
Tabl	le B1: Summary details of	f bund /containment structure in	tegrity test											
														Results of
									Integrity reports					retest(if in
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	current reporting year
6000L Diesel	other (please specify)	Specify Other type	Diesel	6000L	capacity required	Structural assessment	Other test type	05/10/2009	No	Pass	explanation 450 words	SELECT SELECT	ioi retest	reporting year
	SELECT					SELECT			SELECT	SELECT		SELECT		
* Capacity required should comp	ly with 25% or 110% containment r	rule as detailed in your licence ance with licence requirements a	nd are all structures tested				Commentary	7						
in line with BS8007/EP.		ance with neerice requirements a	na are an structures tested	bunding and storage guidel	ines	SELECT								
	systems to remote contain					SELECT								
Are channels/transfer	systems compliant in bot	th integrity and available volume	?			SELECT								
Pipeline/undergro	und structure testing							_						
Are you required by yo	ur licence to undertake i	ntegrity testing* on underground	Istructures e a ninelines or	sumns etc ? if yes nlease fill	out table 2 helow listing									
all underground struct	ures and pipelines on site	which failed the integrity test a				Yes								
	y testing frequency perio					Other (please specify)	Annual							
*please note integrity	testing means water tigh	tness testing for process and fou	l pipelines (as required unde	er your licence)										
Table	B2: Summary details of p	pipeline/underground structures i	integrity test	7										
				Type of secondary										
				containment				Integrity test						
			Does this structure have			Integrity reports					Results of retest(if in current			
Structure ID	Type system Process	Material of construction: concrete	Secondary containment?	Other (please specify)	Type integrity testing SELECT	maintained on site? SELECT	Results of test Pass	<50 words	taken	for retest	reporting year) SELECT			
	riocess	concrete	140	Other (please specify)	SELECT	SECECI	1 033		+	+	Secret			
							7							
		Please use comm	nentary for additional details	not answered by tables/ qu	uestions above									

Groundwater/Soil monitoring template Lic No: WO 165-02 Year 2016

		Comments	
1,			monitoring data in the interpretation box below
Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		or if you require additional space please include a
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		groundwater/contaminated land monitoring
3			results interpretaion as an additional section in
Do you extract groundwater for use on site? If yes please specify use in comment section	no		this AER
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or iGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and monitor submit separately through ALDER as a licensee return AND answer questions 5-12 below.	ing eyes		Results are compared to Groundwater Trigger Levels approved by the Agency in December 2011. There are upward trends in parameters such as
Is the contamination related to operations at the facility (either current and/or historic)	no	Exceedances of orthophosphate	electrical conductivity and within the heavy
			metals group, however these are usually slight.
Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	no	and coliforms related to	- Control of Control o
7 Please specify the proposed time frame for the remediation strategy	N/A		
8 Is there a licence condition to carry out/update ELRA for the site?	yes		
9 Has any type of risk assesment been carried out for the site?	yes		
10 Has a Conceptual Site Model been developed for the site?	no		
11 Have potential receptors been identified on and off site?	no		
12 Is there evidence that contamination is migrating offsite?	no		

			Upgradient Groundwater monitoring results							
Date of	Sample location	Parameter/		Monitoring	Maximum	Average				Upward trend in pollutant concentration over last 5 years
sampling	reference	Substance	Methodology	frequency	Concentration++	Concentration+	unit	GTV's*	SELECT**	of monitoring data
2016	MW-1S	pH	Field Probe	Quarterly	7.33	6.94	pH units	<6.5 & >9.5	IGV	No
2016	MW-1D	pH	Field Probe	Quarterly	7.71	7.38	pH units	<6.5 & >9.5	IGV	No
2016	MW-2S	pH	Field Probe	Quarterly	8.34	7.9	pH units	<6.5 & >9.5	IGV	No
2016	MW-2D	pH	Field Probe	Quarterly	8	30.5	pH units	<6.5 & >9.5	IGV	No
2016	MW-7S	pH	Field Probe	Quarterly	7.71	7.34	pH units	<6.5 & >9.5	IGV	No
2016	MW-7D	pH	Field Probe	Quarterly	7.35	7.01	pH units	<6.5 & >9.5	IGV	No
2016	MW-8S	pH	Field Probe	Quarterly	Dry	Dry	pH units	<6.5 & >9.5	IGV	No
2016	MW-8D	pH	Field Probe	Quarterly	Dry	Dry	pH units	<6.5 & >9.5	IGV	No
2016	MW-1S	Electrical Conductivity	Field Probe	Quarterly	314	263.25	uS/cm	800 - 1,875	GTV	No
2016	MW-1D	Electrical Conductivity	Field Probe	Quarterly	320	296.5	uS/cm	800 - 1,875	GTV	No
2016	MW-2S	Electrical Conductivity	Field Probe	Quarterly	455	414	uS/cm	800 - 1,875	GTV	Yes
2016	MW-2D	Electrical Conductivity	Field Probe	Quarterly	356	340	uS/cm	800 - 1,875	GTV	No
2016	MW-7S	Electrical Conductivity	Field Probe	Quarterly	470	423.75	uS/cm	800 - 1,875	GTV	Yes
2016	MW-7D	Electrical Conductivity	Field Probe	Quarterly	470	342	uS/cm	800 - 1,875	GTV	Yes
2016	MW-8S	Electrical Conductivity	Field Probe	Quarterly	Dry	Dry	uS/cm	800 - 1,875	GTV	-
2016	MW-8D	Electrical Conductivity	Field Probe	Quarterly	Dry	Dry	uS/cm	800 - 1,875	GTV	-
2016	MW-1S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	20.3	20.1	mg/l	24 - 187.5	GTV	No
2016	MW-1D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	20.7	20.45	mg/l	24 - 187.5	GTV	No
2016	MW-2S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	21.8	19.45	mg/l	24 - 187.5	GTV	No
2016	MW-2D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	27.4	27.1	mg/l	24 - 187.5	GTV	Yes
2016	MW-7S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	21.1	17.55	mg/l	24 - 187.5	GTV	No
2016	MW-7D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	20.6	20.4	mg/l	24 - 187.5	GTV	No
2016	MW-8S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	Dry	Dry	mg/l	24 - 187.5	GTV	-
2016	MW-8D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	Dry	Dry	mg/l	24 - 187.5	GTV	-
2016	MW-1S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	No
2016	MW-1D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.13	0.0625	mg/l	0.065 - 0.175	GTV	No
2016	MW-2S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.33	0.22	mg/l	0.065 - 0.175	GTV	No
2016	MW-2D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.1	0.04	mg/l	0.065 - 0.175	GTV	No
2016	MW-7S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.63	0.38	mg/l	0.065 - 0.175	GTV	No
2016	MW-7D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.28	0.143333333	mg/l	0.065 - 0.175	GTV	Yes
2016	MW-8S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	Dry	Dry	mg/l	0.065 - 0.175	GTV	-
2016	MW-8D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	Dry	Dry	mg/l	0.065 - 0.175	GTV IGV	-
2016	MW-1S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.7	0.675	mg/l	5	IGV	No
2016 2016	MW-1D MW-2S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.7 1.7	0.65 1.575	mg/l	5	IGV	No Yes
2016	MW-2S MW-2D	Potassium Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly Quarterly	0.8	0.675	mg/l	5	IGV	
2016	MW-7S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.8	1.05	mg/l mg/l	5	IGV	No Yes
2016	MW-7D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.8	0.7	mg/l	5	IGV	No No
2016	MW-8S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	Dry	Dry	mg/l	5	IGV	-

	water/Soil r	nonitoring template			Lic No:	WO 165-02		Year	2016	
2016	MW-8D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	Dry	Dry	mg/l	5	IGV	
2016	MW-1S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	12	10	mg/l	NAC	IGV	
2016	MW-1D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	11	9.25	mg/l	NAC	IGV	
2016	MW-2S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	11	8	mg/l	NAC	IGV	
2016	MW-2D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	11	9.25	mg/l	NAC	IGV	
2016	MW-7S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	8.75	mg/l	NAC	IGV	
2016	MW-7D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	9.333333333	mg/l	NAC	IGV	
2016	MW-8S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	Dry	Dry	mg/l	NAC	IGV	
2016	MW-8D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	Dry	Dry	mg/l	NAC	IGV	
2016	MW-1S	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	MW-1D	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	MW-2S	TOC	TOC analyser	Quarterly	6	4.5	mg/l	37.5	GTV	
2016	MW-2D	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	MW-7S	TOC	TOC analyser	Quarterly	4	4	mg/l	37.5	GTV	
2016	MW-7D	TOC	TOC analyser	Quarterly	3	3	mg/l	37.5	GTV	
2016	MW-8S	TOC	TOC analyser	Quarterly	Dry	Dry	mg/l	37.5	GTV	
2016	MW-8D	TOC	TOC analyser	Quarterly	Dry	Dry	mg/l	37.5	GTV	
2016	MW-1S	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/l	NAC NAC	IGV	
2016	MW-15	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/l	NAC	IGV	
2016	MW-2S	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/l	NAC	IGV	
2016	MW-2D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC	IGV	
2016	MW-7S	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC NAC	IGV	
2016	MW-7D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5 <1.5		NAC NAC	IGV	
2016	MW-8S	Total Chromium Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5 Dry	<1.5 Dry	ug/l ug/l	NAC	IGV	
2016	MW-8D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry		ug/I	NAC	IGV	
2016	MW-1S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<12	Dry <12	ug/I	1,000	IGV	
2016	MW-1S MW-1D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<12	<12	ug/I ug/I	1,000	IGV	
2016	MW-2S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	36		ug/I	1,000	IGV	
2016	MW-2D	Boron	,	Annually	<12	36 <12	- 0	1,000	IGV	
2016	MW-7S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<12	<12	ug/l ug/l	1,000	IGV	
2016	MW-7D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<12		- 0	-,	IGV	
2016	MW-8S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<12 Dry	<12 Dou	ug/l	1,000	IGV	
						Dry	ug/l			
2016 2016	MW-8D MW-1S	Boron Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually Annually	Dry	Dry	ug/l	1,000	IGV	
			Inductively Coupled Plasma - Optical Emission Spectrometry		<0.5	<0.5	ug/l	3.75	GTV	
2016	MW-1D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/l	3.75	GTV	
2016 2016	MW-2S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/l	3.75	GTV	
	MW-2D	Cadmium	,	Annually	<0.5	<0.5	ug/l	3.75	GTV	
2016	MW-7S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/l	3.75	GTV	
	MW-7D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/l	3.75	GTV	
2016	MW-8S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	3.75	GTV	
2016	MW-8D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	3.75	GTV	
2016	MW-1S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	19	19	mg/l	200	IGV	
2016	MW-1D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	29.6	29.6	mg/l	200	IGV	
2016	MW-2S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	54.3	54.3	mg/l	200	IGV	
2016	MW-2D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	35	35	mg/l	200	IGV	
2016	MW-7S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	46.6	46.6	mg/l	200	IGV	
2016	MW-7D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	43.9	43.9	mg/l	200	IGV	
2016	MW-8S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	mg/l	200	IGV	
2016	MW-8D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	mg/l	200	IGV	
2016	MW-1S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-1D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-2S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-2D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-7S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-7D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-8S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/I	1,500	GTV	
2016	MW-8D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/I	1,500	GTV	
2016	MW-1S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	
2016	MW-1D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-2S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-2D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	
2016	MW-7S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	
2016	MW-7D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	
2016	MW-8S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	200	IGV	
2016	MW-8D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	200	IGV	
2016	MW-1S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-1D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-2S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/I	18.75	GTV	
2016	MW-2D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-7S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/I	18.75	GTV	
2016	MW-7D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-8S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	18.75	GTV	
2016	MW-8D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	18.75	GTV	
2016	MW-1S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	5.3	5.3	mg/l	50	IGV	
2016	MW-1D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	6	6	mg/l	50	IGV	
2016	MW-2S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	7.9	7.9	mg/l	50	IGV	
2016	MW-2D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	9	9	mg/l	50	IGV	
2016	MW-7S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	12.2	12.2	mg/l	50	IGV	
2016	MW-7D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	16.9	16.9	mg/l	50	IGV	
		Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Drv	Dry	mg/l	50	IGV	
2016	MW-8S									

Grouna	water/Soil r	monitoring templa	ate		Lic No:	WO 165-02		Year	2016	
2016	MW-1S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	50	IGV	No
2016	MW-1D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	13	13	ug/I	50	IGV	Υe
2016	MW-2S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	N
2016	MW-2D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	N
2016	MW-7S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	25	25	ug/I	50	IGV	N
2016	MW-7D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	9	9	ug/l	50	IGV	N
2016	MW-8S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	50	IGV	
2016	MW-8D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/I	50	IGV	
2016	MW-1S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/I	0.75	GTV	N
2016	MW-1D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.02	0.02	ug/I	0.75	GTV	Ye
2016	MW-2S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.02	0.02	ug/I	0.75	GTV	Y
2016	MW-2D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/I	0.75	GTV	Y
2016	MW-7S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/l	0.75	GTV	Y
2016	MW-7D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/I	0.75	GTV	Y
2016	MW-8S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/I	0.75	GTV	
2016	MW-8D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/I	0.75	GTV	
2016	MW-1S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	N
2016	MW-1D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	N
2016	MW-2S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	N
2016	MW-2D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	 N
2016	MW-7S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	, N
2016	MW-7D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	N N
2016	MW-8S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually				15	GTV	- 1
2016	MW-85	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry Dry	Dry Dry	ug/l ug/l	15	GTV	-
2016	MW-1S	Sodium		Annually	14.5	14.5			GTV	N
			Inductively Coupled Plasma - Optical Emission Spectrometry				mg/l	150		
2016	MW-1D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	17	17	mg/l	150	GTV	N
2016	MW-2S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	16.1	16.1	mg/l	150	GTV	N
2016	MW-2D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	15.4	15.4	mg/l	150	GTV	Y
2016	MW-7S MW-7D	Sodium Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	20 16.5	20 16.5	mg/l	150	GTV	Y
				Annually			mg/l	150	GTV	I N
2016	MW-8S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	mg/l	150	GTV	
2016	MW-8D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	mg/l	150	GTV	
2016	MW-1S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	N
2016	MW-1D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	N
2016	MW-2S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	٨
2016	MW-2D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	N
2016	MW-7S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	Y
2016	MW-7D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	N
2016	MW-8S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	100	IGV	
2016	MW-8D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	Dry	Dry	ug/l	100	IGV	
2016	MW-1S	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	١
2016	MW-1D	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	١
2016	MW-2S	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	1
2016	MW-2D	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	١
2016	MW-7S	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	< 0.3	mg/l	1	IGV	١
2016	MW-7D	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	N
2016	MW-8S	Fluoride	Dionex (Ion-Chromatography).	Annually	Dry	Dry	mg/l	1	IGV	
2016	MW-8D	Fluoride	Dionex (Ion-Chromatography).	Annually	Dry	Dry	mg/l	1	IGV	
2016	MW-1S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	10.9	10.9	mg/l	187.5	GTV	N
2016	MW-1D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	8.9	8.9	mg/l	187.5	GTV	N
2016	MW-2S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	62.2	62.2	mg/l	187.5	GTV	N
2016	MW-2D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	10	10	mg/l	187.5	GTV	N
2016	MW-7S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	57	57	mg/l	187.5	GTV	Y
2016	MW-7D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	39.4	39.4	mg/l	187.5	GTV	Y
2016	MW-8S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	187.5	GTV	
2016	MW-8D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	187.5	GTV	
2016	MW-1S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	1
2016	MW-1D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	
2016	MW-2S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	١
2016	MW-2D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	
2016	MW-7S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	N
2016	MW-7D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	<0.06	mg/l	0.035	GTV	
2016	MW-8S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	0.035	GTV	
2016	MW-8D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	0.035	GTV	
2016	MW-1S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	7.4	7.4	mg/l	NAC	IGV	N
2016	MW-1D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	7.6	7.6	mg/l	NAC	IGV	
2016	MW-2S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	0.6	0.6	mg/l	NAC	IGV	,
2016	MW-2D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	8.1	8.1	mg/l	NAC	IGV	Y
2016	MW-7S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	2.8	2.8	mg/l	NAC	IGV	1
2016	MW-7D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	18.1	18.1	mg/l	NAC	IGV	1
2016	MW-8S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	NAC	IGV	
2016	MW-8D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	Dry	Dry	mg/l	NAC	IGV	
2016	MW-1S	Total Cyanide	Flow Injection Analyser	Annually	<0.01	<0.01	mg/l	0.0375	GTV	
2016	MW-1D	Total Cyanide	Flow Injection Analyser	Annually	<0.01	<0.01	mg/I	0.0375	GTV	1
2016	MW-2S	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/l	0.0375	GTV	1
2016	MW-2D	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/l	0.0375	GTV	1
2016	MW-7S	Total Cyanide	Flow Injection Analyser	Annually	<0.01	< 0.01	mg/l	0.0375	GTV	1
2016	MW-7D	Total Cyanide	Flow Injection Analyser	Annually	<0.01	< 0.01	mg/l	0.0375	GTV	١
	1 11 11 00	Total Cyanide	Flow Injection Analyser	Annually	Dry	Dry	mg/l	0.0375	GTV	
2016	MW-8S	rotal Cyamac	How injection Analyses	rumaany	5.,					
2016 2016	MW-85 MW-8D	Total Cyanide	Flow Injection Analyser	Annually	Dry	Dry	mg/l	0.0375	GTV	

Grounda	vater/Soil n	nonitoring template	e		Lic No:	WO 165-02		Year	2016	
2016	MW-1D	Alkalinity	Metrohm automated titration analyser	Annually	68	68	mg/l	NAC	IGV	
2016	MW-2S	Alkalinity	Metrohm automated titration analyser	Annually	210	210	mg/l	NAC	IGV	
2016	MW-2D	Alkalinity	Metrohm automated titration analyser	Annually	102	102	mg/l	NAC	IGV	
2016	MW-7S	Alkalinity	Metrohm automated titration analyser	Annually	122	122	mg/l	NAC	IGV	
2016	MW-7D	Alkalinity	Metrohm automated titration analyser	Annually	122	122	mg/l	NAC	IGV	—
2016	MW-8S	Alkalinity	Metrohm automated titration analyser	Annually	Drv	Dry	mg/l	NAC	IGV	t
2016	MW-8D	Alkalinity	Metrohm automated titration analyser	Annually	Dry	Dry	mg/l	NAC	IGV	†
2016	MW-1S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	120	120	mg/l	-	GTV	
2016	MW-1D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	148	148	mg/l		GTV	
2016	MW-2S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	233	233	mg/l		GTV	
2016	MW-2D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	182	182	mg/l	-	GTV	
2016	MW-7S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	197	197	mg/l		GTV	
2016	MW-7D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	201	201	mg/l		GTV	1
2016	MW-8S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	Dry	Dry	mg/l	-	GTV	+
2016	MW-8D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	Dry	Dry	mg/l		GTV	+
2016	MW-1S	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l		GTV	
2016	MW-1D	VOCs	Headspace GC-MS	Annually	ND ND	ND ND	ug/I		GTV	
2016	MW-2S	VOCs	Headspace GC-MS	Annually	ND ND	ND ND	ug/I		GTV	
2016	MW-2D	VOCs	Headspace GC-MS	Annually	ND ND	ND ND	ug/I		GTV	
2016	MW-7S	VOCs	Headspace GC-MS	Annually	ND ND	ND ND			GTV	
2016	MW-7D	VOCs	Headspace GC-MS	Annually	ND ND	ND ND	ug/l		GTV	
2016	MW-8S	VOCs	Headspace GC-MS	Annually	Dry	Dry	ug/l ug/l	+	GTV	+
2016	MW-8D	VOCs	Headspace GC-MS	Annually				- :	GTV	+
2016	MW-1S	sVOCs	GC-MS	Annually	Dry ND	Dry ND	ug/l			
2016	MW-1D	sVOCs	GC-MS	Annually	ND ND	ND ND	ug/l	-	GTV GTV	
2016	MW-2S	svocs	GC-MS GC-MS		ND ND		ug/l		GTV	
2016	MW-2D	svocs	GC-MS GC-MS	Annually Annually	ND ND	ND ND	ug/l		GTV	
2016	MW-7S	svocs	GC-MS GC-MS	Annually	ND ND	ND ND	ug/l	+	GTV	
							ug/l	- :		
2016 2016	MW-7D MW-8S	sVOCs sVOCs	GC-MS GC-MS	Annually Annually	ND	ND	ug/I		GTV	
			GC-MS GC-MS		Dry	Dry	ug/l	-	GTV	4
2016	MW-8D	sVOCs		Annually	Dry	Dry	ug/l	- 0.075	GTV	-
2016	MW-1S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-1D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-2S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-2D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-7S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-7D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-8S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	Dry	Dry	ug/l	0.375	GTV	4
2016	MW-8D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	Dry	Dry	ug/l	0.375	GTV	4
2016	MW-1S	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-1D	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-2S	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-2D	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-7S	Total Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016	MW-7D	Total Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016	MW-8S	Total Coliforms	N/A	Annually	Dry	Dry	cfu/100ml	0	IGV	1
2016	MW-8D	Total Coliforms	N/A	Annually	Dry	Dry	cfu/100ml	0	IGV	
2016	MW-1S	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-1D	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-2S	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-2D	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
	MW-7S	Faecal Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016		Faecal Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016	MW-7D									
	MW-7D MW-8S MW-8D	Faecal Coliforms Faecal Coliforms	N/A N/A	Annually Annually	Dry Dry	Dry Dry	cfu/100ml cfu/100ml	0	IGV IGV	

neasured concentration from all monitoring results produced during the reporting year

Ground	water/Soil r	nonitoring templa	te		Lic No:	WO 165-02		Year	2016	
			Downgradient Groundwater monitoring results							
										Upward t
										yearly av
										concent
	Sample									over last
Date of sampling	location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	of monito
	MW-3S		Field Probe	Quarterly	7.64	7.40			IGV	
2016		pH					pH units	<6.5 & >9.5		N
2016	MW-3D	pH	Field Probe	Quarterly	7.72	7.56	pH units	<6.5 & >9.5	IGV	N ₁
2016	MW-4S	pH	Field Probe	Quarterly	7.65	7.25	pH units	<6.5 & >9.5	IGV	N
2016	MW-4D	pH	Field Probe	Quarterly	7.54	7.17	pH units	<6.5 & >9.5	IGV	N
2016	MW-5S	pH	Field Probe	Quarterly	7.92	7.77	pH units	<6.5 & >9.5	IGV	N
2016	MW-5D	pH	Field Probe	Quarterly	8.02	7.64	pH units	<6.5 & >9.5	IGV	N ₁
2016	MW-6S	pH	Field Probe	Quarterly	7.21	6.85	pH units	<6.5 & >9.5	IGV	N
2016	MW-6D	pH	Field Probe	Quarterly	7.63	7.32	pH units	<6.5 & >9.5	IGV	N
		Electrical		,			p			
2016	MW-3S	Conductivity	Field Probe	Quarterly	628	447.25	uS/cm	800 - 1,875	GTV	Ye
2010	10144-20	Electrical	1 loid 1 lobe	Quarterly	020	447.23	us/ciii		GIV	16
	1011.00		E UD I		070	040.5		800 - 1,875		
2016	MW-3D	Conductivity	Field Probe	Quarterly	370	346.5	uS/cm		GTV	No
		Electrical						800 - 1,875		
2016	MW-4S	Conductivity	Field Probe	Quarterly	496	430.25	uS/cm	000 - 1,075	GTV	Ye
		Electrical						800 - 1,875		
2016	MW-4D	Conductivity	Field Probe	Quarterly	452	407.25	uS/cm	800 - 1,875	GTV	Ye
		Electrical								
2016	MW-5S	Conductivity	Field Probe	Quarterly	414	366.25	uS/cm	800 - 1,875	GTV	Ye
2010		Electrical					45/ (111		0.14	10
2016	MW-5D	Conductivity	Field Probe	Quarterly	368	300		800 - 1,875	GTV	No
2016	MMA-2D		Field Probe	Quarterly	300	300	uS/cm		GIV	NO
		Electrical						800 - 1,875		
2016	MW-6S	Conductivity	Field Probe	Quarterly	393	323.5	uS/cm		GTV	No
		Electrical						800 - 1,875		
2016	MW-6D	Conductivity	Field Probe	Quarterly	310	282.75	uS/cm	000 - 1,075	GTV	Ye
2016	MW-3S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	22.8	18.025	mg/l	24 - 187.5	GTV	Ye
2016	MW-3D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	16.8	16.625	mg/l	24 - 187.5	GTV	N
2016	MW-4S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	29.9	23.05	mg/l	24 - 187.5	GTV	Ye
2016	MW-4D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	22	21.1	mg/l	24 - 187.5	GTV	Ye
2016	MW-5S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	24.2	22.		24 - 187.5	GTV	
	MW-5D		Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	23.1	20.6	mg/l			Ye
2016		Chloride			20.1		mg/l	24 - 187.5	GTV	Υe
2016	MW-6S	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	33.3	26.075	mg/l	24 - 187.5	GTV	Ye
2016	MW-6D	Chloride	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	23.2	22.675	mg/l	24 - 187.5	GTV	Ye
2016	MW-3S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	1.03	0.405	mg/l	0.065 - 0.175	GTV	N
2016	MW-3D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.33	0.125	mg/l	0.065 - 0.175	GTV	N
2016	MW-4S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.61	0.21	mg/l	0.065 - 0.175	GTV	Ye
2016	MW-4D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	1.09	0.3225	mg/l	0.065 - 0.175	GTV	Ye
2016	MW-5S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.06	0.04	mg/l	0.065 - 0.175	GTV	N
2016	MW-5D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.05	0.04	mg/l	0.065 - 0.175	GTV	N:
2016	MW-6S	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.07	0.0425		0.065 - 0.175	GTV	Ye
				, ,			mg/l			
2016	MW-6D	Ammonia	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Quarterly	0.12	0.045	mg/l	0.065 - 0.175	GTV	Ye
2016	MW-3S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	3.7	2.6	mg/l	5	IGV	N ₁
2016	MW-3D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.8	1.625	mg/l	5	IGV	No
2016	MW-4S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.4	1.275	mg/I	5	IGV	Ye
2016	MW-4D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	2.1	1.425	mg/l	5	IGV	Ye
2016	MW-5S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	3	1.675	mg/l	5	IGV	Ye
2016	MW-5D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.1	0.925	mg/l	5	IGV	N
2016	MW-6S	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1	0.85	mg/l	5	IGV	N.
2016	MW-6D	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.7	0.83	mg/l	5	IGV	N-
	MW-3S			Quarterly	0.7	9.5			IGV	
2016		Dissolved Oxygen	Hach HQ30D Oxygen Meter				mg/l	NAC		N:
2016	MW-3D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	12	8	mg/l	NAC	IGV	N-
2016	MW-4S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	8.25	mg/l	NAC	IGV	N:
2016	MW-4D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	9	mg/I	NAC	IGV	N
2016	MW-5S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	11	10	mg/l	NAC	IGV	N
2016	MW-5D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	7	mg/l	NAC	IGV	N
2016	MW-6S	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	7.5	mg/l	NAC	IGV	N
2016	MW-6D	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	9	8.25	mg/l	NAC	IGV	Ye
2016	MW-3S	TOC	TOC analyser	Quarterly	5	3.5	mg/l	37.5	GTV	No.
	MW-3D				3					
2016		TOC	TOC analyser	Quarterly		2	mg/l	37.5	GTV	N ₁
2016	MW-4S	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	N
2016	MW-4D	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	N
2016	MW-5S	TOC	TOC analyser	Quarterly	3	3	mg/l	37.5	GTV	N
2016	MW-5D	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	Ne
2016	MW-6S	TOC	TOC analyser	Quarterly	3	3	mg/l	37.5	GTV	N
2016	MW-6D	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	No
2016	MW-3S		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5				IGV	
2016	MW-3S MW-3D	Total Chromium				<1.5	ug/l	NAC		No
	I MW-31)	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5 <1.5	<1.5 <1.5	ug/l	NAC NAC	IGV IGV	No
2016		rotai Ciiroinidm	modelively Coupled Flashia - Optical Enlission Spectrometry				ug/i			L

	water/Son r	monitoring templat	te		Lic No:	WO 165-02		Year	2016	
2016	MW-4D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/l	NAC	IGV	$\overline{}$
2016	MW-5S	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC	IGV	
2016	MW-5D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC	IGV	
2016	MW-6S	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC	IGV	-
2016	MW-6D	Total Chromium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<1.5	<1.5	ug/I	NAC	IGV	
2016	MW-3S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	29	29	ug/I	1.000	IGV	_
2016	MW-3D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	79	79	ug/I	1,000	IGV	-
	MW-4S									
2016	MW-4D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	33	33	ug/I	1,000	IGV	-
2016		Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	19	19	ug/l	1,000	IGV	-
2016	MW-5S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	26	26	ug/l	1,000	IGV	4
2016	MW-5D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	22	22	ug/l	1,000	IGV	
2016	MW-6S	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	12	12	ug/l	1,000	IGV	
2016	MW-6D	Boron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	13	13	ug/I	1,000	IGV	
2016	MW-3S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.6	0.6	ug/I	3.75	GTV	
2016	MW-3D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	< 0.5	< 0.5	ug/I	3.75	GTV	
2016	MW-4S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	< 0.5	< 0.5	ug/I	3.75	GTV	
2016	MW-4D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	< 0.5	< 0.5	ug/I	3.75	GTV	
2016	MW-5S	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/I	3.75	GTV	—
2016	MW-5D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/l	3.75	GTV	_
	MW-6S		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually						_
2016	MW-6D	Cadmium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<0.5	<0.5	ug/I	3.75	GTV	+
2016		Cadmium		,	<0.5	<0.5	ug/I	3.75	GTV	
2016	MW-3S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	99.4	99.4	mg/l	200	IGV	
2016	MW-3D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	42.8	42.8	mg/l	200	IGV	_
2016	MW-4S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	43.9	43.9	mg/l	200	IGV	
2016	MW-4D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	52.2	52.2	mg/l	200	IGV	
2016	MW-5S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	48.6	48.6	mg/l	200	IGV	
2016	MW-5D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	29	29	mg/l	200	IGV	
2016	MW-6S	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	40.7	40.7	mg/l	200	IGV	
2016	MW-6D	Calcium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	22.7	22.7	mg/I	200	IGV	†
2016	MW-3S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/I	1,500	GTV	
2016	MW-3D		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	*	1,500	GTV	_
	MW-4S	Copper		Annually	<7		ug/l	1,500		+
2016		Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	,		<7	ug/I	F	GTV	
2016	MW-4D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-5S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-5D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-6S	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-6D	Copper	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<7	<7	ug/l	1,500	GTV	
2016	MW-3S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-3D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	
2016	MW-4S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-4D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-5S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	†
2016	MW-5D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/l	200	IGV	_
2016	MW-6S	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20	ug/I	200	IGV	
2016	MW-6D	Iron	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<20	<20		200	IGV	+
2016	MW-3S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually			ug/l	18.75		+
					<5	<5	ug/I		GTV	₩
2016	MW-3D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-4S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/I	18.75	GTV	
2016	MW-4D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-5S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-5D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/l	18.75	GTV	
2016	MW-6S	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/I	18.75	GTV	
2016	MW-6D	Lead	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<5	<5	ug/I	18.75	GTV	
2016	MW-3S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	13.1	13.1	mg/l	50	IGV	
2016	MW-3D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	8.3	8.3	mg/l	50	IGV	
2016	MW-4S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	7.9	7.9	mg/l	50	IGV	
2016	MW-4D		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	9.3	9.3		50	IGV	
	MW-4D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	9.3 8.7	9.3 8.7	mg/l	50	IGV	-
2016		Magnesium					mg/l			-
2016	MW-5D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	7	7	mg/l	50	IGV	-
2016	MW-6S	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	10	10	mg/l	50	IGV	
2016	MW-6D	Magnesium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	6.4	6.4	mg/l	50	IGV	
2016	MW-3S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	
2016	MW-3D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	
2016	MW-4S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	15	15	ug/I	50	IGV	
2016	MW-4D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	264	264	ug/I	50	IGV	
2016	MW-5S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	5	5	ug/I	50	IGV	
2016	MW-5D		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2		50	IGV	-
		Manganese					ug/l			
2016	MW-6S	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	-
2016	MW-6D	Manganese	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	50	IGV	
2016	MW-3S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/l	0.75	GTV	
2016	MW-3D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/I	0.75	GTV	
2016	MW-4S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/l	0.75	GTV	
2016	MW-4D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/l	0.75	GTV	
	MW-5S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/I	0.75	GTV	
2016										

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2016	MW-6S	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	0.01	0.01	ug/l	0.75	GTV	
2016	MW-6D	Mercury	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	< 0.01	< 0.01	ug/I	0.75	GTV	
2016	MW-3S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	15	GTV	
2016	MW-3D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	
2016	MW-4S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	—
2016	MW-4D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	—
2016	MW-5S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2		15	GTV	
2016	MW-5D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/l	15	GTV	
				Annually			ug/I			Ь—
2016	MW-6S	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	,	<2	<2	ug/I	15	GTV	
2016	MW-6D	Nickel	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<2	<2	ug/I	15	GTV	
2016	MW-3S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	12	12	mg/l	150	GTV	
2016	MW-3D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	22.3	22.3	mg/l	150	GTV	Ь—
2016	MW-4S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	17.9	17.9	mg/l	150	GTV	
2016	MW-4D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	15.2	15.2	mg/l	150	GTV	
2016	MW-5S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	14.5	14.5	mg/l	150	GTV	
2016	MW-5D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	15.2	15.2	mg/l	150	GTV	Ì
2016	MW-6S	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	17.1	17.1	mg/l	150	GTV	
2016	MW-6D	Sodium	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	18.2	18.2	mg/l	150	GTV	
2016	MW-3S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	8	8	ug/I	100	IGV	
2016	MW-3D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/I	100	IGV	
2016	MW-4S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	3	<3	ug/I	100	IGV	
2016	MW-4D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	3	3	ug/I	100	IGV	
	MW-5S		Inductively Coupled Plasma - Optical Emission Spectrometry	Annually		3		100	IGV	
2016	MW-5D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	
2016		Zinc	,,,	,			ug/l			
2016	MW-6S	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/I	100	IGV	-
2016	MW-6D	Zinc	Inductively Coupled Plasma - Optical Emission Spectrometry	Annually	<3	<3	ug/l	100	IGV	
2016	MW-3S	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	
2016	MW-3D	Fluoride	Dionex (Ion-Chromatography).	Annually	0.4	0.4	mg/l	1	IGV	1
2016	MW-4S	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	
2016	MW-4D	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	1
2016	MW-5S	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	
2016	MW-5D	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	
2016	MW-6S	Fluoride	Dionex (Ion-Chromatography).	Annually	< 0.3	< 0.3	mg/l	1	IGV	
2016	MW-6D	Fluoride	Dionex (Ion-Chromatography).	Annually	<0.3	<0.3	mg/l	1	IGV	
2016	MW-3S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	131.9	131.9	mg/l	187.5	GTV	
2016	MW-3D			Annually	22.4	22.4		187.5	GTV	—
2016	MW-4S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	18.5	18.5	mg/l	187.5	GTV	
2016	MW-4D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	26.4	26.4	mg/l	187.5	GTV	
		Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser				mg/l			
2016	MW-5S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	18	18	mg/l	187.5	GTV	Ь—
2016	MW-5D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	7.2	7.2	mg/l	187.5	GTV	
2016	MW-6S	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	10.8	10.8	mg/l	187.5	GTV	Ь——
2016	MW-6D	Sulphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	5.6	5.6	mg/l	187.5	GTV	-
2016	MW-3S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	< 0.06	< 0.06	mg/l	0.035	GTV	
2016	MW-3D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	< 0.06	< 0.06	mg/l	0.035	GTV	1
2016	MW-4S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	< 0.06	< 0.06	mg/l	0.035	GTV	
2016	MW-4D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	< 0.06	< 0.06	mg/l	0.035	GTV	1
2016	MW-5S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	0.81	0.81	mg/l	0.035	GTV	
2016	MW-5D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	0.11	0.11	mg/I	0.035	GTV	
2016	MW-6S	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	< 0.06	< 0.06	mg/l	0.035	GTV	
2016	MW-6D	Ortho Phosphate	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	<0.06	< 0.06	mg/l	0.035	GTV	
2016	MW-3S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	3	3	mg/l	NAC	IGV	
2016	MW-3D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	2.8	2.8	mg/l	NAC	IGV	
2016	MW-4S	TON		Annually	0.7	0.7		NAC	IGV	
2016	MW-4D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	1.7	1.7	mg/l	NAC	IGV	-
	MW-4D MW-5S		Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser				mg/l		IGV	-
2016		TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	3.6	3.6	mg/l	NAC		-
2016	MW-5D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	0.9	0.9	mg/l	NAC	IGV	-
2016	MW-6S	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	15.8	15.8	mg/l	NAC	IGV	
2016	MW-6D	TON	Soluble Ion Analysis Thermo Aquakem Photometric Automatic Analyser	Annually	5	5	mg/l	NAC	IGV	
2016	MW-3S	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/I	0.0375	GTV	
2016	MW-3D	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/I	0.0375	GTV	ш¯
2016	MW-4S	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/l	0.0375	GTV	1
2016	MW-4D	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/l	0.0375	GTV	
2016	MW-5S	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/I	0.0375	GTV	
2016	MW-5D	Total Cyanide	Flow Injection Analyser	Annually	< 0.01	< 0.01	mg/l	0.0375	GTV	
2016	MW-6S	Total Cyanide	Flow Injection Analyser	Annually	<0.01	< 0.01	mg/l	0.0375	GTV	
2016	MW-6D	Total Cyanide	Flow Injection Analyser	Annually	<0.01	<0.01		0.0375	GTV	
2016	MW-3S	Alkalinity	<u> </u>	,	222	222	mg/l	0.0375 NAC	IGV	—
			Metrohm automated titration analyser	Annually			mg/l			
2016	MW-3D	Alkalinity	Metrohm automated titration analyser	Annually	168	168	mg/l	NAC	IGV	<u> </u>
2016	MW-4S	Alkalinity	Metrohm automated titration analyser	Annually	192	192	mg/l	NAC	IGV	1
2016	MW-4D	Alkalinity	Metrohm automated titration analyser	Annually	200	200	mg/l	NAC	IGV	
2016	MW-5S	Alkalinity	Metrohm automated titration analyser	Annually	166	166	mg/l	NAC	IGV	
2016	MW-5D	Alkalinity	Metrohm automated titration analyser	Annually	132	132	mg/l	NAC	IGV	ட
2016	MW-6S	Alkalinity	Metrohm automated titration analyser	Annually	90	90	mg/l	NAC	IGV	
	MW-6D	Alkalinity	Metrohm automated titration analyser	Annually	72	72	mg/I	NAC	IGV	
2016										

Ground	water/Soil r	monitoring templat	e		Lic No:	WO 165-02		Year	2016	
2016	MW-3D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	204	204	mg/l	-	GTV	
2016	MW-4S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	249	249	mg/l	-	GTV	
2016	MW-4D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	253	253	mg/I	-	GTV	
2016	MW-5S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	211	211	mg/l	-	GTV	
2016	MW-5D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	151	151			GTV	
				,			mg/l	-		
2016	MW-6S	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	107	107	mg/l	-	GTV	
2016	MW-6D	Total Solids	Gravimetric determination of Total Dissolved Solids/Total Solids	Annually	122	122	mg/l	-	GTV	
2016	MW-3S	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-3D	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-4S	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-4D	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-5S	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-5D	VOCs	Headspace GC-MS	Annually	ND	ND	ug/I		GTV	
2016	MW-6S	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l		GTV	
2016	MW-6D	VOCs	Headspace GC-MS	Annually	ND	ND	ug/l		GTV	
	MW-3S	sVOCs		Annually	ND	ND				
2016			GC-MS				ug/l	-	GTV	
2016	MW-3D	sVOCs	GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-4S	sVOCs	GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-4D	sVOCs	GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-5S	sVOCs	GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-5D	sVOCs	GC-MS	Annually	ND	ND	ug/l	-	GTV	
2016	MW-6S	sVOCs	GC-MS	Annually	ND	ND	ug/l	_	GTV	
2016	MW-6D	sVOCs	GC-MS	Annually	ND	ND	ug/l	_	GTV	
2016	MW-3S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/I	0.375	GTV	
2016	MW-3D	Pesticides		Annually	ND	ND ND		0.375	GTV	
	MW-4S		Large Volume Injection on GC Triple Quad MS	Annually			ug/l			
2016		Pesticides	Large Volume Injection on GC Triple Quad MS	,	ND	ND	ug/l	0.375	GTV	
2016	MW-4D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-5S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/I	0.375	GTV	
2016	MW-5D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-6S	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-6D	Pesticides	Large Volume Injection on GC Triple Quad MS	Annually	ND	ND	ug/l	0.375	GTV	
2016	MW-3S	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-3D	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-4S	Total Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016	MW-4D	Total Coliforms	N/A	Annually	31	31	cfu/100ml	0	IGV	
	MW-5S			Annually					IGV	
2016		Total Coliforms	N/A	,	<1	<1	cfu/100ml	0		
2016	MW-5D	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-6S	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-6D	Total Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-3S	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-3D	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-4S	Faecal Coliforms	N/A	Annually	>100	>100	cfu/100ml	0	IGV	
2016	MW-4D	Faecal Coliforms	N/A	Annually	31	31	cfu/100ml	0	IGV	
2016	MW-5S	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-5D	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	MW-6S	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml		IGV	
								0		
2016	MW-6D	Faecal Coliforms	N/A	Annually	<1	<1	cfu/100ml	0	IGV	
2016	PW-2	pH	Metrohm automated probe analyser.	Quarterly	7.88	7.8	pH units	<6.5 & >9.5	IGV	
2016	PW-3	pH	Metrohm automated probe analyser.	Quarterly	8.16	8.145	pH units	<6.5 & >9.5	IGV	
2016	PW-4	pН	Metrohm automated probe analyser.	Quarterly	7.89	7.89	pH units	<6.5 & >9.5	IGV	
2016	PW-6	pH	Metrohm automated probe analyser.	Quarterly	7.89	7.4	pH units	<6.5 & >9.5	IGV	
2016	PW-7	pH	Metrohm automated probe analyser.	Quarterly	7.93	7.895	pH units	<6.5 & >9.5	IGV	
2016	PW-11	pH	Metrohm automated probe analyser.	Quarterly	7.97	7.96	pH units	<6.5 & >9.5	IGV	
2016	PW-12	pH	Metrohm automated probe analyser.	Quarterly	8	7.965	pH units	<6.5 & >9.5	IGV	
2016	PW-12	pH pH	Metronin automated probe analyser. Metrohin automated probe analyser.	Quarterly	8.21	7.963	pH units	<6.5 & >9.5 <6.5 & >9.5	IGV	
2016	PW-13(2)	pН	Metrohm automated probe analyser.	Quarterly	7.97	7.955	pH units	<6.5 & >9.5	IGV	
2016	PW-20	pH	Metrohm automated probe analyser.	Quarterly	8.27	8.26	pH units	<6.5 & >9.5	IGV	
2016	PW-22	pН	Metrohm automated probe analyser.	Quarterly	8.25	7.8	pH units	<6.5 & >9.5	IGV	
2016	PW-23	pН	Metrohm automated probe analyser.	Quarterly	8.02	7.99	pH units	<6.5 & >9.5	IGV	
2016	PW-25	pН	Metrohm automated probe analyser.	Quarterly	8.17	8.07	pH units	<6.5 & >9.5	IGV	
		Electrical						800 - 1,875		
	PW-2	Conductivity	Metrohm automated probe analyser.	Quarterly	236	234.5	uS/cm	000 - 1,673	GTV	
2016		Electrical						000 :		
2016		Conductivity	Metrohm automated probe analyser.	Quarterly	268	267.5	uS/cm	800 - 1,875	GTV	
	PW-3	Electrical	metroriiri automateu probe anaryser.	quantity	200	201.3	usyoni		014	
2016 2016	PW-3			0	550	550	64	800 - 1,875	cm.	
2016				Quarterly	558	558	uS/cm	,	GTV	
	PW-3	Conductivity	Metrohm automated probe analyser.			1	1	000 1075		
2016 2016	PW-4	Conductivity Electrical								
2016		Conductivity	Metrohm automated probe analyser. Metrohm automated probe analyser.	Quarterly	293	287	uS/cm	800 - 1,875	GTV	
2016 2016	PW-4	Conductivity Electrical		Quarterly	293	287	uS/cm		GTV	
2016 2016 2016	PW-4	Conductivity Electrical Conductivity Electrical	Metrohm automated probe analyser.	Quarterly	293 405	287 402		800 - 1,875	GTV	
2016 2016	PW-4 PW-6	Conductivity Electrical Conductivity Electrical Conductivity					uS/cm uS/cm	800 - 1,875		
2016 2016 2016 2016	PW-4 PW-6 PW-7	Conductivity Electrical Conductivity Electrical Conductivity Electrical	Metrohm automated probe analyser. Metrohm automated probe analyser.	Quarterly	405	402	uS/cm		GTV	
2016 2016 2016	PW-4 PW-6	Conductivity Electrical Conductivity Electrical Conductivity	Metrohm automated probe analyser.					800 - 1,875		

Grouna	water/Soil n	monitoring templa	te		Lic No:	WO 165-02		Year	2016	
2016	PW-13	Electrical Conductivity	Metrohm automated probe analyser.	Quarterly	433	424	uS/cm	800 - 1,875	GTV	
2016	PW-13(2)	Electrical Conductivity	Metrohm automated probe analyser.	Quarterly	442	438	uS/cm	800 - 1,875	GTV	
2016	PW-20	Electrical Conductivity	Metrohm automated probe analyser.	Quarterly	268	266.5	uS/cm	800 - 1,875	GTV	
		Electrical		,	394	329.5	•	800 - 1,875		
2016	PW-22	Conductivity Electrical	Metrohm automated probe analyser.	Quarterly	217	215	uS/cm	800 - 1,875	GTV	
2016	PW-23	Conductivity Electrical	Metrohm automated probe analyser.	Quarterly			uS/cm		GTV	
2016 2016	PW-25 PW-2	Conductivity Chloride	Metrohm automated probe analyser. Thermo Aquakem Photometric Automatic Analyser.	Quarterly Quarterly	287 21.6	287.00 21.35	uS/cm mg/l	800 - 1,875 24 - 187.5	GTV GTV	
2016	PW-3	Chloride	Thermo Aquakem Photometric Automatic Analyser. Thermo Aquakem Photometric Automatic Analyser.	Quarterly	17	16.60	mg/I	24 - 187.5	GTV	_
2016	PW-4	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	48	48.00	mg/l	24 - 187.5	GTV	+
2016	PW-6	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	22.6	21.75	mg/l	24 - 187.5	GTV	_
2016	PW-7	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	18	17.20	mg/l	24 - 187.5	GTV	+
2016	PW-11	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	18.2	17.65	mg/l	24 - 187.5	GTV	+
2016	PW-12	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	20.1	19.65	mg/l	24 - 187.5	GTV	+
2016	PW-13	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	30.5	29.20	mg/l	24 - 187.5	GTV	+
2016	PW-13(2)	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	14.6	14.10	mg/l	24 - 187.5	GTV	_
2016	PW-20	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	24.8	24.55	mg/l	24 - 187.5	GTV	
2016	PW-22	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	24.8	21.95	mg/l	24 - 187.5	GTV	
2016	PW-23	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	19.4	18.90	mg/l	24 - 187.5	GTV	
2016	PW-25	Chloride	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	19.6	18.85	mg/l	24 - 187.5	GTV	
2016	PW-2	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-3	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-4	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-6	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.03	0.03	mg/l	0.065 - 0.175	GTV	
2016	PW-7	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-11	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-12	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-13	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-13(2)	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	< 0.01	< 0.01	mg/l	0.065 - 0.175	GTV	
2016	PW-20	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.03	0.03	mg/l	0.065 - 0.175	GTV	
2016	PW-22	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-23	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-25	Ammonia	Thermo Aquakem Photometric Automatic Analyser.	Quarterly	0.02	0.02	mg/l	0.065 - 0.175	GTV	
2016	PW-2	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.7	0.70	mg/l	5	IGV	
2016	PW-3	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.8	0.75	mg/l	5	IGV	
2016	PW-4	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.9	0.90	mg/l	5	IGV	
2016	PW-6	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.8	0.80	mg/l	5	IGV	
2016	PW-7 PW-11	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.9	0.80	mg/l	5	IGV	
2016	PW-11 PW-12	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.1	0.95	mg/l	5	IGV IGV	-
2016	PW-12	Potassium Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.5	1.05 0.50	mg/l	5	IGV	-
2016	PW-13(2)	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.8	0.75	mg/l mg/l	5	IGV	-
2016	PW-20	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.2	1.05	mg/l	5	IGV	-
2016	PW-22	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.9	1.55	mg/l	5	IGV	
2016	PW-22 PW-23	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	1.9	0.90	mg/l	5	IGV	
2016	PW-25	Potassium	Inductively Coupled Plasma - Optical Emission Spectrometry	Quarterly	0.7	0.65	mg/l	5	IGV	
2016	PW-2	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	8.00	mg/l	NAC	IGV	
2016	PW-3	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	7	6.00	mg/l	NAC	IGV	
2016	PW-4	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	7	7.00	mg/l	NAC	IGV	
2016	PW-6	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	8.00	mg/l	NAC	IGV	
2016	PW-7	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	8.00	mg/l	NAC	IGV	
2016	PW-11	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	9	7.50	mg/l	NAC	IGV	
2016	PW-12	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	9.00	mg/l	NAC	IGV	
2016	PW-13	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	9	8.00	mg/l	NAC	IGV	
2016	PW-13(2)	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	6.50	mg/l	NAC	IGV	
2016	PW-20	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	7.50	mg/l	NAC	IGV	
2016	PW-22	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	8	7.00	mg/l	NAC	IGV	
2016	PW-23	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	10	9.50	mg/l	NAC	IGV	
2016	PW-25	Dissolved Oxygen	Hach HQ30D Oxygen Meter	Quarterly	6	6.00	mg/l	NAC	IGV	
2016	PW-2	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	_
2016	PW-3	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	PW-4	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	PW-6	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	PW-7	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	_
2016	PW-11	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	_
2016	PW-12	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	_
2016	PW-13	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	_
2016	PW-13(2)	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	
2016	PW-20	TOC	TOC analyser	Quarterly	<2	<2	mg/I	37.5	GTV	

Groundy	water/Soil n	nonitoring templa	ite		Lic No:	WO 165-02		Year	2016	,
2016	PW-23	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	No
2016	PW-25	TOC	TOC analyser	Quarterly	<2	<2	mg/l	37.5	GTV	No
							SELECT			SELECT

Groundwater/	Soil monitoring template			Lic No:	WO 165-02		Year	2016	
		Guidance	on the Management of Contam	inated Land and Gro	undwater at EPA Lic	ensed Sites (EPA 2013).	Groun	dwater monitoring template	7
*prease									•
note									4
exceedanc									
e of									
generic									
nformatio								Groundwater Drinking water	_
on the							Surface water	regulations (private supply)	
use of soil							EQS	GTV's standards	
Dependi									
ng on									
ocation of San	nple								
the site loca	tion Parameter/		Monitoring	Maximum	Average				Inte
and refer	ence Substance	Methodology	frequency	Concentration	Concentration				Val

	Ground	water/Soil n	nonitoring templ	ate		Lic No:	WO 165-02		Year	2016
	Table 3:	Soil results						unit		
	Date of									
	sampling							SELECT		
								SELECT		
		ĺ							•	
dditional d	etail is requ	uired please ent	ter it here in 200 wor	ds or less						
		1							1	
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Environmental Liabilities template Lic No:W0165-02

Click here to access EPA guidance on Environmental Liabilities and Financial provision

	_		Commentary
1	ELRA initial agreement status	Agreed	
2	ELRA review status		
			As part of Condition 12.2.2, the Licensee completed a fully costed Environmental Liabilities Risk Assessment for the site. This document outlines the potential unknown environmental liabilities associated with the landfill and estimates the possible cost of these liabilities. An
3 Amount	of Financial Provision cover required as determined by the latest ELRA		environmental liability insurance policy has been taken out for €10M.
4	Financial Provision for ELRA status		
5	Financial Provision for ELRA - amount of cover		
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover,	
7	Financial provision for ELRA expiry date		
			Under condition 12.2.3 of the licence Ballynagran Landfill Ltd is required to maintain a financial provision that is sufficient to cover all liabilities incurred whilst carrying on the activities to which this licence relates. As part of the licence transfer in 2014 the CRAMP liability was recalculated and agreed with the Office for Environmental Enforcement and a financial provision mechanism, to the satisfaction of the Board of the EPA, was put in place.
8	Closure plan initial agreement status Closure plan review status	Closure plan submitted and agreed by EPA Review required and completed	
9 10	Closure plan review status Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	Submitted and agreed by Li A	
12	Financial Provision for Closure - type		
13	Financial provision for Closure expiry date		

2016

ı		Environmental Management Programme/Continuous Improvement Programme template		Lic No:	WO 165-02
		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	In accordance with the requirem Safety Assess	
	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 (I		In a second of the second of t		1.75	l
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Ensure delivery of high gas quality above 39% methane suitable for use engine.	This was achieved		Section Head	Reduced emissions
neduction of emissions to All	metrare sursure for use engine.	THIS WAS ULTRAFED		Section read	neddeed eniissions
	Target 95% Gas utilisation of all landfill gas				
Reduction of emissions to Air	generated by the facility, 5% flaring.	95.7% recorded		Section Head	Reduced emissions
	Install additional drilled wells when final heights				
Reduction of emissions to Air	achieved in cell locations	12 vertical wells installed pre final liner installation		Section Head	Reduced emissions
	Install additional built wells in new phase of cell				
Reduction of emissions to Air	back wall	Completed		Section Head	Reduced emissions
					Increased compliance with
Reduction of emissions to Air	Maintain FID surveys on quarterly.	achieved		Section Head	licence conditions
	1				
	Maintain the buffer capacity within the leachate				Improved Environmental
Reduction of emissions to Water	lagoon level aim for below 2.3m level.	From mid-February onwards maintained		Section Head	Management Practices
	Review hardstand area for leachate filling and				Improved Environmental
Reduction of emissions to Water	improve where necessary.	Completed		Section Head	Management Practices
Reduction of emissions to Water	Progress intermediate cap for areas above liner height in cell 6, 7 and 10	Installed final capping		Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	ineignt in cen 6, 7 and 10	Installed final capping		Section Head	ivialiagement Fractices
Reduction of emissions to Air	Complete topsoil and grass seeding of bowl cap may 2016,	60% completed, new road install commenced in area.		Section Head	Improved Environmental Management Practices
neduction of emissions to Air	,	our compresso, new road material commenced in area.		Section read	
	L				
Reduction of emissions to Air	Minimise dust from construction and minimise areas of soil disturbance	Continuous dust suppression spraying of surface during operations and construction as required.		Section Head	Reduced emissions
	Investigate automatic water spray for newly				
Reduction of emissions to Air	constructed road	To be undertaken		Section Head	Reduced emissions
	Continue to carry out spillage and emergency				Improved Environmental
Groundwater protection	response training	Completed and ongoing		Section Head	Management Practices
	Install new litter netting outside of cell back wall				Improved Environmental
Additional improvements	area when completed	Completed and ongoing		Section Head	Management Practices
	Repair existing netting on cell 9 side of site pre				Improved Environmental
Additional improvements	entering back wall area with waste	Completed –shorting of litter netting to open cells area only		Section Head	Management Practices
	To maintain separation of landfill operations from				Improved Environmental
Additional improvements	construction activities	Ongoing		Section Head	Management Practices
	Improve the separation of plant and personnel				Improved Environmental
Additional improvements	and entry and control of personnel	Cross over traffic eliminated shortly into construction works commencement.		Section Head	Management Practices
	Continually review and assess all nuisance control				
	procedures to ensure minimal impact on				Increased compliance with
Additional improvements	surrounding area.	Sign in sign out procedure strictly enforced.		Section Head	licence conditions

Environmental Management F	Programme/Continuous Improvement Program	me template		Lic No:	WO 165-02
	Improve use of bird scaring devices and update				
	internal bird control plan and implement June 2016.	A CONTRACTOR OF THE CONTRACTOR		Section Head	Improved Enviro
Additional improvements	2016.	Updating BNG landfill Procedures		Section Head	Management Pr
	Ensure noise, dust, odour from vehicle				
	movements are minimised by correct				Improved Enviro
Noise reduction	implementation of relevant operational protocols	Existing bird control system working but completion of revised plan to be completed, as part of new procedures.		Section Head	Management Pr
					Improved Enviro
Additional improvements	Ensure new signage and front gate road access installed	In operation		Section Head	Management Pr
Additional improvements	notaneo	турствооп		Section read	William Germent 1
	Achieve a reduced level in the number and source				
Additional improvements	complaints from previous.	Completed signage update		Section Head	Less complaints
	Continue to promote and facilitate the				
	community develop group meeting and				
Additional improvements	contribution	Complaints increased slightly on previous year		Section Head	Less complaints
	In addition to responding by letter, aim to visit or		·		
	In addition to responding by letter, aim to visit or verbally communicate all complainants during the				
	year. In addition after complaint lodgement,				
	respond to queries as quickly as reasonably				
	practicable, ensuring that any complaints are				
Additional improvements	followed up in writing as soon as possible after receipt of compliant within 5 working days.	Ver oppoint		Section Head	Less complaints
Additional improvements		Yes ongoing		Manager PEdu	compatitis
	Ensure monitoring results comply with Licence				
	limits and investigate any exceedances of				
Additional improvements	emission limit value.	A number of visits to complainants during the year		Section Head	Less complaints
			·		
Additional improvements	Continue to maintain & improve access to	Completed and agains		Costion Hood	Improved Enviro
Additional improvements	monitoring locations	Completed and ongoing		Section Head	Management Pr
	Adoption of Improvement driven Safety				
	Observation system for continual improvement. Audit Reports are to be undertaken bi-monthly				
	focussing on swiftly resolving problems as they				Improved Enviro
Additional improvements	occur.	Ongoing		Section Head	Management Pr
Additional improvements	Continue to Develop H&S - develop the trained safety representative on site.	Regular H&S site audits following appoint of new H&S manager, covering site and construction operations		Section Head	Improved Environment Pro Management Pro
rounding improvements	salety representative on site.	negonal road and adults romowing appoint or new road manager, covering site and construction operations		JANAUN PROGU	
	Develop an additional health and safety trained				Improved Enviro
Additional improvements	personnel onsite.	Ongoing,		Section Head	Management Pr
	Look to develop staff interaction enabling keen				
Additional improvements	spotting of potential problem or hazards through			Section Head	
Additional improvements	Look to develop staff interaction enabling keen spotting of potential problem or hazards through training and communication.			Section Head	
Additional improvements	spotting of potential problem or hazards through			Section Head	
Additional improvements	spotting of potential problem or hazards through			Section Head	
Additional improvements	spotting of potential problem or hazards through			Section Head	Management Pr
Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication.	Appointed of New Group Health and Safety Manager		Section Head Section Head	Management Pr
	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly	Appointed of New Group Health and Safety Manager			Management Pr
	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly	Appointed of New Group Health and Safety Manager			Management Pr
	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly bases minimum.	Appointed of New Group Health and Safety Manager			Management Pr Improved Enviro Management Pr
Additional improvements	spotting of potential problem or hazards through training and communication. Ensure teofloor talks are conducted on a monthly base minimum. Prepare system and procedures for the new			Section Head	Management Pr Improved Enviro Management Pr
	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly bases minimum.	Appointed of New Group Health and Safety Manager Appointed of new Group Health and Safety Manager			Management Pr Improved Enviro Management Pr
Additional improvements	spotting of potential problem or hazards through training and communication. Ensure teobloot talks are conducted on a monthly base minimum. Prepare system and procedures for the new OHAS system due in 2016			Section Head	Management Pr Improved Enviro Management Pr
Additional improvements	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly bases minimum. Prepaire system and procedures for the new OHAGS system due in 2016 Encourage feedback on equipment and resources			Section Head	Management Pr Improved Enviro Management Pr
Additional improvements	spotting of potential problem or hazards through training and communication. Ensure teobloot talks are conducted on a monthly base minimum. Prepare system and procedures for the new OHAS system due in 2016			Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Management Pr
Additional improvements	spotting of potential problem or hazards through training and communication. Ensure teolbox talks are conducted on a monthly base minimum. Prepare system and procedures for the new OHRS system due in 2016 (Encourage feedback on equipment and resources including adequicy of PE in protective			Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Improved Enviro Improved Enviro
Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication. Sinuse toolbus talks are conducted on a monthly bases minimum. Prepare system and procedures for the new OHAS system due in 2016 Sincourage feedback on equipment and resources including adequacy of PPE in protective properties, wear ability and due ability and look at attentions. As where appropalms and sook at attentions.	Appointed of new Group Health and Safety Manager		Section Head Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Improved Enviro Management Pr
Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly bases minimum. Prepare system and procedures for the new Orlid's system due in 2016 Encourage feedback on equipment and resources including adequacy of PIF in protective properties, were ability and clock at the control of the properties, where appendixes.	Appointed of new Group Health and Safety Manager		Section Head Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Improved Enviro Improved Enviro
Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication. In the confidence of the conducted on a monthly bases minimum. Prepare system and procedures for the new OHAGS system due in 2016 Incourage feedback on equipment and resources including adequacy of PP in protective properties, we are ability and indultify and look at alternatives, where appropriate. Continues to engage with all stakeholder and operate the site in an open and inclusive manner, feeding information into the Community fund.	Appointed of new Group Health and Safety Manager		Section Head Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Improved Enviro Management Pr
Additional improvements Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication. Ensure toolbox talks are conducted on a monthly bases reliminum. Propose system and procedures for the new OHAE's system due in 2016 Encurage feetback on equipment and resources including addequy of PPR in problem; or such as a standard several public way and durability and durability and constructive properties, wear ability and durability and dischards a standards-where appropriate. Continue to engage with all stakeholder and species the talks in an open and industry enamers, feeding information into the Community fund community fund community study registering the state in an open and industry enamers.	Appointed of new Group Health and Safety Manager Orgoing, site audits regularly undertaken in operations and constructions phases		Section Head Section Head Section Head	Management Pr Improved Envire Management Pr Improved Envire Management Pr Improved Envire Management Pr Improved Envire Management Pr
Additional improvements Additional improvements	spotting of potential problem or hazards through training and communication. Ensure teodbox talks are conducted on a monthly base minimum. Prepare system and procedures for the new OH&S system due in 2016 Encourage feetback on equipment and resources including adequicy of PPE in proceedings including adequicy of PPE in proceedings where paypropriets, were ability and durability and look at alternatives. Where paypropriets wh	Appointed of new Group Health and Safety Manager		Section Head Section Head	Management Pr Improved Enviro Management Pr Improved Enviro Management Pr Improved Enviro Improved Enviro
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Noise monitoring summary report	Lic No:	WO 165-02	Yea
1 Was noise monitoring a licence requirement for the AER period?		Yes	
If yes please fill in table N1 noise summary below		165	
if yes please fill iff table N1 floise suffilliary below	Noise		
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist	Guidance	Yes	
for noise measurement report" included in the guidance note as table 6?	note NG4		
3 Does your site have a noise reduction plan		No	
4 When was the noise reduction plan last updated?		Enter date	
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since th survey?	e last noise	No	

Table N1: Noise monitoring summary

Table N1: Noise mon	atoring summar	·y								
	A = 7	A = 7	A = T	4	4	4	4 - 7	4		<u> </u>
	4	A = 7	Noise	4	4	4	4 - 7	A = 7	4	<u> </u>
	4	A = 7	sensitive	4	4	4	4 - 7	A = 7	If tonal /impulsive noise was	<u> </u>
	4	Noise location		A = 7	4	4	4	Tonal or Impulsive		A contract of the contract of
Date of monitoring	Time period		(if applicable)		LA ₉₀	LA ₁₀	LA _{max}	noise* (Y/N)	applied?	Comments (ex. main noise sources on site. & extraneous noise ex. road traffic)
Dute 1	-	(011 5.15)	(11	eq	- 90	- 10	- max			Facility, Mobile plant in cell area faintly audible.
07/03/201	16 15:22-15:37	NL1	·	36	36 38	38 32	ار	No	SELECT	Extraneous: Distant road traffic to E and NE slightly audible continuously. No other noise audible apart from bird song/calls, aircraft and lightly rustling vegetation.
	15:22	1100	+	+ -	+	+	$\overline{}$			Facility: Tracked excavator on mound continuously audible at low level. Compactor flat spectrum reversing alarm also repeatedly audible. Sporadic truck and crew website movements audible on adjacent haul road
07/03/201	16 14:37-14:52	NL2	1	51	51 55	55 38	R	No		Extraneous: Distant road traffic to NE continuously adulties and where controlled traffic to NE continuously adulties and state of the continuously adulties and traffic to NE continuously adulties. Sporadic traffic outside boundary quite audible. Bird song/calls and aircraft talling vegetation.
	14.57	100	+	+ -	+	+ +	$\overline{}$			Facility: Mobile plant in active cell area continuously quite audible. Occasional truck movements on plant continuously quite audible. Occasional truck movements on the continuously quite audible.
07/03/201	16 15:01-15:16	NL3	'	45	45 47	47 42	2	No		Extraneous: M11 road traffic to E continuously audible at low level. Aircraft, bird song/calls and lightly rustling vegetation.
	-	11.22	+	+	+	+		*10		Facility: Excavator bucket noise occasionally slightly audible. Several ejector trailer donkey engines also slightly audible during interval
07/03/201	16 14:08-14:23	NL4	1	49	49 48	48 36 ¹	اه	No		Extraneous: Distant road traffic audible to NE and E continuously in background. Bird song/calls, aircraft and lightly rustling vegetation. Distant dog barking.
		+	1	'		+		*10		Facility: No emissions audible, apart from occasional slightly audible excavator bucket noise.
07/03/201	16 13:47-14:02	NSL1	1	48	48 45	45 39	او	No		Extraneous: Road traffic to NE continuously slightly audible. Sporadic passing local traffic dominant when present. Bird song/calls, aircraft and lightly rustling vegetation. Occasional dog barking at nearby dwelling.
		†	-	,		1		*10		Facility: No cell area emissions audible, apart from one ejector trailer operation. Sporadic truck movements through weighbridge area quite audible. Leachate tanker truck operation audible at low level throughout most of int
07/03/201	16 15:55-16:10	NSL2	·	58	58 57	57 43	اد	No	4	Extraneous: M11 traffic to NE and E continuously audible at low level. Occasional passing road traffic dominant when present. Crow calls significant. Aircraft.
		+	1	'		+		*10		Facility: None audible.
07/03/201	16 16:17-16:32	NSL3	1	59	59 63	63 48	d	No		Extraneous: Intermittent passing traffic dominant. During lulls, M11 traffic continuously clearly audible. No other noise audible apart from local birdsong.
	†	1	+	 	+	+ + +		*10		Facility: None audible.
08/06/201	16 14:41-14:56	NL1	1	39	39 41	41 3F	ó	No		Extraneous: M11 traffic to E and NE continuously quite audible, masking all sources other than local bird song/calls.
·	f	+	+	 	+	+ +				Facility: Dozer operating at SW corner of site continuously audible at low level. Leachate tanker pump also continuously audible at low level. Mobile plant on mound slightly audible regularly from 1400. Sporadic truck and crev
			·	1 ,		- 1	1	No		representative of site emissions.
08/06/201	16 13:56-14:11	NL2	·	41	41 42	42 3F	6			Extraneous: Distant road traffic to NE continuously slightly audible. Sporadic traffic outside boundary quite audible. Bird song/calls and aircraft.
, ,	15.50 -	100	+	+ '	+	+	$\overline{}$			Facility: Mobile plant on cell floor slightly audible. No other noise audible apart from several crew which emovements on nearest site road.
08/06/201	16 14:21-14:36	NL3	1	43	43 45	45 4*	1	No		rating, whose pain on cert indoor, singing valuations, not outer mose admine apair from several release whose pain on cert indoors singing valuations. And outer mose admine apair from several release whose painting is a first painting of the partial part of the partial
, ,	14.21 24.00	INLO	+	+	+	++	T		4	Facility: Dozer and excavator operations almost continuously slightly audible.
			·	1 ,		- 1	1	No		radiny. Doze alua exavavor uparaturus animos cuntinuously appirty audune. Extraneous Distant road traffic audible to NE and E continuously in background. Bird song/calls and aircraft. One local car pass, dominant when present.
08/06/201	16 15:54-16:09	NL4	·	46	46 44	44 36	-			exclaiedus. Discain toda cranic aduriecto ve ano e continuosiya in decegrounic, and songy cans and anciant. One local car pass, dominant when present. Measurement position temporarily relocated 360 m S due to inaccessibility.
00/00/2012	15:54-10.05	NL4	+	+	+	+ 30	+	+	4	weessurement, position temporarily reducated soor in 5 due to indexessionity. Facility: Dozer operating near 5W corner audible continuously, with audibility varying from slight to low level. No other emissions audible.
08/06/201	16 15:35-15:50	NSL1	·	55		45 38	_	No		reactive; Lozer operating near sw. corner audione continuously, with audionity avaring from slight to low level. No other demissions audions. Road traffic to NE continuously, slightly audible. Sporadic passing local traffic dominant when press. Bird song/Calls, aircraft and lightly rustling vegetation. Occasional dog barking at nearby dwelling.
08/00/2010	15:35-15:50	NSLI	+'	1	4 ***	3 30	+			Extraneous: Road traffit to Nt. Continuously slightly audible. Sporadic passing local traffic dominant when present. Bird song/calls, aircraft and lightly rusting vegetation. Occasional dog barking at nearby dwelling. Facility: No emissions audible apart from leachate tanker continuously dominant until 1517.
09/06/201	16 15:10-15:25	NSL2	1	59	59 57	4.1	_[No		Facility: No emissions audible apart from leachate tanker continuously dominant until 1517. Extraneous: No emissions audible until 1517 apart from intermittent passing traffic. Thereafter, M11 traffic to NE and E continuously audible at low level. Mini-excavator regularly audible at low level, operating 200 m E. Bird s
08/00/2010	15:10-15:23	NSLZ	 '	+	1 3,	/ ***	+		4	Extraneous: No emissions audible until 151/ apart from intermittent passing traffic. Inereatter, M11 traffic to NE and E continuously audible at low level. Mini-excavator regularly audible at low level, operating 200 m E. Bird's Facility: None audible.
09/06/201	16 16:16-16:31	NSI 3	1	57	57 61	61 42	_	No		Facility: None audible. Extraneous: Intermittent passing traffic dominant. During Julis, M11 traffic continuously quite audible. No other noise audible apart from local birdsong and aircraft.
08/00/2010	10:10-10:21	NSL3	 '	+ 3,	0.1	1 42	+		4	
00/09/201	16 09:45-10:00		·	1 , '			.1	No		Facility: Excavator bucket at borrow pit N of cell occasionally slightly audible. Extraneous: Breeze through nearby trees audible at low level continuously. Bird song/calls. Aircraft. Distant traffic slightly audible continously with trafs. SW.
			<u> </u>	40			-		4	
	16 08:56-09:11		<u> </u>	49				No	4	Facility:Occasional truck and crew vehicles on adjacent haul road dominant when present Excavtor bucket on mound occasionally audible at low level. Extraneous: Road traffic on local road occasionally celearly audible. Rustling
			<u> </u>	51		54 46		No	4	Facility: Compactors in cell continuously quite audible, dominating 190. Excavator in borrow pit also almost continuously audible at low level. Intermittent 6x6 dump truck movemnts on nearest haul road clearly audible when proceedings to the process of the proc
	16 10:56-11:11		<u> </u>	54				No	4	Facility:No emissions audible.Extraneous:Rustling vegetation significant,masking all other noise apart from local birdsong,cattle and aircraft
				43		46 36		No	4	Facility: Plant emissions continuously slightly audible. Several truck movements on nearest haul road slightly audible. Extraneous: Vehicle movemnt x1 on adjacent road dominant when present Lightly rustling vegetation, bird su
			'	61		56 41		No		Facility: Sporadic truck movemtns on haul road near weighbridge quite audible when present. Distant plant emissions slightly audible on breeze. Extraneous: Intermittent passing road traffic dominat when present.
09/08/2016	16 11:24-11:39	NSL3		56	,o 60	60 45	4	No	4	Facility: No emissions audible. Extraneous:Intermittent traffic on adjacent road and throough nearby intersection dominant when present.M11 traffic continuously clearly audible. Bird song/calls and aircraft.Continuous plant
			1	1 '		- -	1	No		Facility: Vibro-roller operating in new cell area occasionally slightly audible, with low frequency rumble. No other emissions audible, apart from well drilling truck audible at low level from during last 3 min.
23/11/2016	16 10:14-10:29	NL1		44	44 46	46 42	4			Extraneous: M11 traffic to E continuously clearly audible, dominating soundscape. Bird song and aircraft. Specific LAeq determination: Roller insufficient to influence L90, thus <l90< td=""></l90<>
			·	1 ,		- 1	1			Facility: Various plant operating on mound and in active cell area almost continuously audible at low level. Reversing alarms also audible. Occasional truck and crew vehicle movements on adjacent haul road dominant when p
			·	1 ,		- 1	1	No		Extraneous: M11 traffic continuously audible at low level to E. Birdsong.
23/11/2016	16 11:04-11:19	NL2	'	52	52 51	51 45	4		4	Specific LAeq determination: LAeq representative.
			T .	, T		T -		No		Facility: Well drilling crew operating at 30 m continuously dominant. No other noise audible. Extraneous: All sources masked by well drilling crew.
23/11/201/	16 10:40-10:55	NL3		71	/17°	72 69	J	NU	4	Specific LAeq determination: LAeq representative
			+			1				Facility: Plant operations slightly audible from time to time on breeze, including excavator bucket and reversing alarms.
			·	1 ,		- 1	1	No		Extraneous: M11 traffic to NE continuously clearly audible, dominating soundscape. Birdsong and aircraft.
23/11/201	16 09:33:00-09:48	48 NL4	·	45	45 46	46 43	اد			Specific LAeq determination: Site emissions <l90.< td=""></l90.<>
		+	+	,		+				Facility: Dozer audible at low level from time to time. Plant reversing alarms repeatedly audible at low level. Truck movements on nearest haul road slightly audible on occasion. Ejector trailer donkey engine audible at low level.
			·	1 ,		- 1	1	No		Extraneous: Sporadic local traffic intrusive when present. M11 traffic to NE continuously quite audible, dominating background. Birdsong. Dog barking audible at low level at nearby dwelling to 0914. Aircraft.
23/11/201	16 09:11-09:26	NSL1	·	50	50 49	49 4.3	4			Specific LAeq determination: Plant noise sufficiently audible and frequent to influence measured data, although LAeq and L90 dominated by traffic noise. Possible only to conclude <laeq< td=""></laeq<>
**	+		+	+	+	+	1		4	Facility: Sporadic truck movements through weighbridge area and on haul road audible at low level. Ejector trailer donkey engine audible at low level for a time. Reversing alarms in cell area slightly audible. Extraneous: Interm
			.	1 .		1	1	No		audibleto NE, dominating background. Aircraft, bird song/calls.
23/11/201	16 08:48-09:03	NSL2	.	60	60 61	51 45	اه			Specific Leg determinations like emissions not sufficiently frequent or audible to influence measured data due to traffic noise, thus <190.
20/11/	00.40 03.00	INSEE	+	+	+	+	+	+	4	Facility: No emissions audible.

Facility: No emissions audible.

Extraneous: Intermittent passing traffic intrusive when present. M11 traffic otherwise dominant. Birdsong, dog barking 200 m N, and aircraft. Specific LAeq determination: Site inaudible, thus <<!90

23/11/2016 11:27-11:42 NSL3 59 64 48

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

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

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

Any additional comments? (less than 200 words)

SELECT

Resource Usage/Energy efficiency summary Lic No: WO 165-02 Year 2016

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	Enter date of audit	9th March 2010
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information SEAI - Large Industry Energy Network (LIEN)	No	
3 WI	nere Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	No	

Table R	1 Energy usage on site			
Energy Use	Previous year	Current year	compared to previous	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)			
Electricity Consumption (MWHrs)	122	4.142	-33%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	191.784	412.143	47%	
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

3

Table R	2 Water usage on site	1			Water Emissions	Water Consumption	
		Water extracted	·	consumption , ,	Volume Discharged	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Water extracted Previous year m3/yr.	m3/yr.	reporting year**	production*	environment(m³yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	652	652	0				
Recycled water							
Total							

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

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

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

ce Usage/Energy effic	iency summary			Lic No:	WO 165-02		Year	
	Table R4: Energy Audit finding recommendations							
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy	Implementation date	Responsibility	Completion date	Status a
23rd February 2009	Prepare Energy Policy Statement	p. opesse	energy audit	a company		посретополи,		
,	Appoint responsible person		energy audit					
	Provide appropriate training		energy audit					
	Prepare targets and objectives		energy audit					
	Annual summary on performance in AER		energy audit					
	Assessment of energy efficiency of future plant							
	and equipment		energy audit					
	Communicate policy objectives to staff		energy audit					
	Provide sub meters for gas utilisation plants		energy audit					
	Bi-Monthly data analyses and identification of							
	efficiency opportunities		energy audit					
	Annual summary report in AER		energy audit					
	Provide awareness training to staff		energy audit					
	Provide feed back to staff		energy audit					

energy audit energy audit

energy audit

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities	

lighting

for mobile plant.

Benchmark gas utilisation plant against KTK and IPS systems

	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:	WO 165-02	Year	2016	
 Complaints					

Additional information

ve 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

Dilization Security Securit	lution date Furthe	her information
0.1.2.055 Junditi Cas SELECT	lution date Furthe	her information
Q.0.1.0266 Waste		
SELECT S		
0.91.2056 Landfill Gas COM004291 SELECT SELECT COM004291 SELECT SELECT COM004291 SELECT SELECT COM004291 SELECT SELECT SELECT COM004291 SELECT S		
0.00 0.00		
0.01.2056 Landfill Gas		
0.00.12056 sundifficials		
S. 91.2056 Landfill Gas		
08.01.2056 sundfill Gas		
09.01.2056 Landfill Gis 09.01.2056 Landfill Gis 11.01.2056 Landfill Gis 11.01.2056 Landfill Gis 15.01.2056 Landfill Gis		
09.01.2016 Waste		
11.01.2056 Landill Gas 6.01.2056 Landill Gas		
1.6.01.2016		
16.01.2056 Landfill Gas 5.01.2056 Landfill Gas		
19.01.2056 Landfill Gas COM004354 COM0054354 COM0055454 C		
19.01.2056 Jamfill Gas -		
19.01.2056 Landfill Gas		
2.0.2.016		
2.01.2056 Landfill Gis		
\$50,2016		
11.02.2016 Landfill Gas -		
11.02.2016 Landfill Gas -		
11.02.2016 Landfill Gas -		
12.02.2016 Landfill Gas / Waste -		
15.02.2016 Landfill Gas -		
15.02.2016 Landfill Gas -		
15.02.2016 Landfill Gas -		
1702.2016 Landfill Gas		
24.02.2016 Landfil Gas		
04.03.2016 Landfill (as y wase -)		
U4.05.2016 Landfill Gas -		
07.03.2016 Landfill Gas -		
16.03.2016 Landfill Gas -		
11.04.2016 Landfill Gas - COM004630		
11.04.2016 Landfill Gas -		
13.04.2016 Landfill Gas -		
14.04.2016 Landfill Gas -		
15.04.2016 Landfill Gas -		
15.04.2016 Landfill Gas -		
16.04.2016 Landfill Gas -		
22.04.2016 Landfill Gas - COM004684		
25.04.2016 Landfill Gas - COM004692		
25.04.2016 Landfill Gas - COM004705		
2504.2016 Landfill Gas - COM004691		
25.04.2017 Landfil Gas - Direct Direct		
E.0.4.2016 Landfill Gas - COM004701		
26.04.2017 Landfill Gas - COM004695		
27.04.2016 Landfill Gas - COM004706		
06.05.2016 Landfill Gas - COM004730		
06.05.2016 Landfill Gas - COM004726		
06.05.2016 Landfill Gas - COM004729		
11.05.2016 Landfill Gas - COM004763		
11.05.2016 Waste - COM004765		
11.05.2016 Vermins - COM004774		
23.05.2016 Landfill Gas / Woste - COM004810 COM004814 COM004814 4 COM004814		
24.05.2016 Waste - CDM094314 CD705216 Landfill Gas - CDM09437 CDM09437		
27/05-2016 Landfil Gas - COMOURS7 Landfil Gas - COMOURS7 Landfil Gas - COMOURS7 Landfil Gas - COMOURS7 Landfil Cas - COMOURS7 Landfil Ca		
27/35-2010 Landfill Gas / Waste - CDM004844		
2935-2016 Landini Gay (Waste - COMO4862 COMO4862		
\(\frac{\text{U.0.0.2.010}}{\text{U.0.0.2.010}}\) \(\frac{\text{Waste}}{\text{U.0.0.2.010}}\) \(\frac{\text{V.0.0.2.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{V.0.0.0.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{U.0.0.0.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{U.0.0.0.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{U.0.0.0.0.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{U.0.0.0.010}}{\text{U.0.0.0.010}}\) \(\frac{\text{U.0.0.0.010}}{\text{U.0.0.010}}\) \(\frac{\text{U.0.0.0.010}}{\text{U.0.0.010}}\) \(\frac{\text{U.0.0.010}}{\text{U.0.0.010}}\) \(\frac{\text{U.0.0.010}}{\text{U.0.0.010}}\) \(\frac{\text{U.0.0.010}}{\text{U.0.0.010}}\) \(\frac{\text{U.0.0.010}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.000}}\) \(\frac{\text{U.0.000}}{\text{U.0.0000}}\) \(\frac{\text{U.0.0000}}{\text{U.0.0000}}\) \(\frac{\text{U.0.0000}}{\text{U.0.0000}}\) \(\frac{\text{U.0.0000}}{\text{U.0.0000}}\) \(\frac{\text{U.0.0000}}{\text{U.0.00000}}\) \(\frac{\text{U.0.0000}}		
0.106.2016 Landfill (6s/ Waste - COM004557		
16.06.2016 Landfill Gas - COM004959		
17.06.2016 Landfill Gas - COM004970 COM004970		
28.06.2016 Waste - COM005010		_
05.07.2016 Landfill Gas - COM005051		
14.07.2016 Landfill Gas - COM005094		
14.07.2016		
14.07.2016 Landfill Gas - COM005090		
18.07.2016 Waste - COM005100 Usate - COM005100 Usate - COM005143 COM0051		
29.07.2016 Landfil Gas - COM005143 L29.07.2016 Waste - COM005142 COM005142 L29.07.2016 COM005142 C		
2907.205 Waste - CM005149 - CM005149		
2907.20b Waste - COM005149 2907.20b Waste - COM005150 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
2907-2016 Waste - CDM005153 S		
30.07.2010 Waste - COM005153		
15.08.2016 Landfill Gas - COM005209		
17.08.2016 Waste - COM005220 COM005220		
17.08.2016 Landfill Gas - COM005224 COM005224		
18.08.2016 Waste - COM005227		
23.08.2016 Waste - COM005254		
24.08.2016 Waste - COM005257		
25.08.2016 Waste - COM005264		-
29.08.2016 Waste - COM005276		
29.08.2016 Landfill Gas - COM005268		
29.08.2016 Landfill Gs - COM005288 D	1	
9.98.2016 Lundfill Gas - COM005288 07.09.2016 Waste - COM005309 1.09.2016 Waste - COM005337		
29.08.2016 Landfill Gis COM055288 COM055289 COM055290		
29.02.015		
29.08.2016 Landfill Gis COM055288 COM055289 COM055290		

2

SELECT

	d Incidents summary templa	ate		Lic No:	WO 165-02	
22.09.2016	Landfill Gas	•	COM005409			
25.09.2016	Landfill Gas	=	COM005422			
26.09.2016	Landfill Gas	m .	COM005414			
10.10.2016	Waste	•	N/A			
12.10.2016	Landfill Gas	•	N/A			
12.10.2016	Landfill Gas	•	COM005483			
20.10.2016	waste	=				
04.11.2016	Landfill gas	m .	Com005563			
6.11.2016	Landfill gas	m .	Com005565			
11.11.2016	Waste	•	Com005574			
15.11.2017	Landfill gas	•	Com005577			
20.11.2016	Landfiill gas	•	Com005588			
22.11.2016	Waste	m .	Com005589			
23.11.2016	Waste	m .	Com005590			
23.11.2016	Waste	-	Com005591			
26.11.2016	Landfill Gas		Com005592			
13.12.2016	Landfill Gas / Waste	•	Com005540			
19.12.2016	Landfill Gas	•	Com005565			
27.12.2016	Landfill Gas	•	Com005669			
25.12.2016	Noise	-	Com005678			
25.12.2016	Waste		Com005679			
31.12.2016	Landfill Gas		Com005672			
Total complaints open at start of reporting year Total new						
complaints received during						
reporting year	98					
Total complaints	30					
closed during						
reporting year						
Balance of						
complaints end of						
reporting year						

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below constitutes an incident Activity in progress at time dent category*please refe ident nature rective action< 20 words entative action <20 words elibood of reoccur Closing off gas collection line to prevent liquid flowing in copy of the report will be uploaded with this incident. Monitoring of the additional wells installed in 2015 will continue to be monitored as part of the on-going perimeter icenced discharge point (MG3,MG4,MG5,MG7,MG9,MG10,MG16 and MG49) 29/01/2016 11:30 Trigger level reached Operational controls Normal activities monitoring programme.
Initoring of the additional wells installed in 2015 will continue to be monitored as part of the on-going perimeter gas monitoring MG2,MG4,MG5,MG6,MG7,MG9,MG10,MG11,MG14,MG15,MG16,MG19,MG23,MG46,MG46A,MG49) 29/02/2016 14:30 Trigger level reached ormal activities perimeter gas well monitoring programme. continue to maintain spare pumps on site to 27/03/2016 17:00 Trigger level reached icenced discharge point (Leachate Level in Cell 7 exceeded 1m mark) icenced discharge point (MG2,MG4, MG5, MG6 , MG8, MG9, MG10, MG11 ,MG14 ,MG16,MG16A ,MG4 eplacement pump will be used 25/03/2016 14:00 Trigger level reached MG46A and MG49. MG46A) Normal activities curring tinue to monitor levels closely in the next round of Continue to monitor wells as part of the onperimeter gas well monitoring

Continue to monitor levels closely in the next round of 21/04/2016 00:00 Trigger level reached Licenced discharge point (MG2,MG7,MG11,MG14,MG16,MG20,MG46A and MG49) perational controls Normal activities ecurring going perimeter gas monitoring programme. Continue to monitor wells as part of the on-19/05/2016 10:30 Trigger level reached Licensed discharge point (MG4,MG5,MG7,MG10,MG11,MG16,MG16A,MG20,MG23,MG46and MG46A) rational controls ormal activities perimeter gas well monitoring
Continue to monitor levels closely in the next round of going perimeter gas monitoring programme. Continue to monitor wells as part of the on-22/06/2016 10:30 Trigger level reached icensed discharge point (MG5,MG9,MG11,MG16,MG16A,MG17,MG20,MG46and MG46A) rmal activities perimeter gas well monitoring
Continue to monitor levels closely in the next round of 28/07/2016 11:30 Trigger level reached censed discharge point (MG2.MG4.MG5.MG8.MG9.MG10.MG11.MG16.MG16A.MG22.MG46 and MG46A) 1. Minor Normal activities ecurring perimeter gas well monitoring perational controls going perimeter gas monitoring programme 15/08/2016 10:00 Trigger level reached 21/09/2016 10:00 Trigger level reached 8/10/2016 11:00 perational controls Normal activities curring Trigger level reached Licensed discharge point (MG4, MG11, MG14, MG16, MG20, MG21, and MG47) 1. Minor Plant or equipment issues Normal activities Recurring Continue to monitor levels closely in the next round of perimeter gas well monitoring Continue to monitor wells as part of the on-going perimeter gas monitoring programme /2016 11:00am Trigger level reached enced discharge point (MG2, MG4,MG5,MG8,MG9, MG10,MG11,MG14,MG16,MG20,MG21, and MG47) Iormal activities perational controls Licenced discharge point (MG2, MG4,MG5,MG7,MG8,MG9, MG10,MG11,MG14,MG16,MG16a,MG17, MG18,MG19,MG20,MG21,MG22, MG46a MG47 MG 49) Normal activities curring Dec-16 Trigger level reached perational controls 07/11/2016 09:00 Monitoring equipment offline Other location (Cell 10,leachate level pump showed a trip failure)

22/11/2016 00:00 Monitoring equipment offline Other location (Cell 10,leachate pump showed a trip failure) Other location (Cell 10,leachate level pump showed a trip failure) No Uncontrolled release Plant or equipment issues No Uncontrolled release Plant or equipment issues 1. Minor Normal activities Recurring 10/11/2016 10:00 Monitoring equipment offline Other location (Cell 3,transducer pipe in cell 3) curring stock on site nt or equipment issu review of incident and any learnings Low once instrument is n 08/12/2016 05:00 Monitoring equipment offline Other location (TOC meter) Normal activities Plant or equipment issues system tomorrow and assess the equipment.

Additional information

2016

SELECT
Total number of incidents current year
Total number of incidents previous year
'fe reduction/ increase 95% reduction

Licenced discharge point (All Sw points exceedance of suspended solids)
Other location (please specify here)

14/12/2016 12:00 Breach of ELV SELECT SELECT

ASTE SUMMARY	Lic No:	WO 165-02	Year	2016
CTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED B	SY ALL IPPC AND WASTE FACILITIES	IRTR facility logon	dropdown list click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES			
		Additional Information	an
Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility 7; (waste generated within your boundaries is		í l	i
1 to be captured through PRTR reporting)	Yes		i i
If yes please enter details in table 1 below			
2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	SELECT		l

	s waste accepted onto your site that was if waste accepted onto your					SELECT hese will have	ve been reports	d in your PRTR	vorkbook)		
cenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste accepted in	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comment
age limit for your site (total onnes/annum)			accepted Please enter an accurate and detailed description - which applies to relevant EWC code	current reporting year (tonnes)	previous reporting year (tonnes)	Increase over previous year +/ - %	reduction/increase from previous reporting year	only applies if the waste has a packaging component	treatment operation carried out at your site and the description of this operation	waste remaining on site at the end of reporting year (tonnes)	
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
		20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)									
	20 03 07	INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky Waste	5,392.70	2,450.82	45			DS- Specially engineered landfill		
		20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY									
	20 03 01	COLLECTED FRACTIONS	MSW Mixed	120,460.99	57,629.69	48			D5- Specially engineered landfill		
		17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL									
	17 09 04	FROM CONTAMINATED SITES	C&D Mixed	1,102.26	1,695.74	154			D5- Specially engineered landfill		
		17- CONSTRUCTION AND DEMOLITION WASTES INCLUDING EXCAVATED SOIL									
	17 09 04	FROM CONTAMINATED SITES)	C&I Mixed	19,514.54	25,494.57	131			D5- Specially engineered landfill		
		(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY									
	20 02 01	COLLECTED FRACTIONS	Knotweed	36.2	1.66	5			DS- Specially engineered landfill RS-Recycling/reclamation or other inorganic materials which includes soil celaning		
	10 01 02	10- WASTES FROM THERMAL PROCESSES	Incinerator ash	423.18	M/A				resuling in recovery of the soil and recycling of inorganic construction materials		
		19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER							R3-Recycling/reclamation or organic substances which are not used as solvents (including composting as nother biological		
	19 05 99	INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	CLOR stabilised msw fines	1,898.28	292.74	#WALUE!			transformation processes)which includes gasification and pyrolisis		
		19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER									
	19 12 04	FOR INDUSTRIAL USE	evc	133.2	N/A	WALUEI			DS- Specially engineered landfill		
	19 12 09	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	Grits and screenings	1,858.44	2,174.22	117			D5- Specially engineered landfill		
		19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER							RS-Recycling/reclamation or other inorganic materials which includes soil coloning resuling in recovery of the soil and recycling of inorganic construction materials		
	19 05 99	FOR INDUSTRIAL USE 17- CONSTRUCTION AND DEMOLITION WASTES	CLO stabilised msw fines	9,095.22	2,92.74	3			RS-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil		
	17 05 04	(INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER	Stone	6,294.38	8,275.20	131			and recycling of inorganic construction materials R3-Recycling/reclamation or organic substances which are		
	19 12 07	OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	Woodchip	2,770.66	9,690.35	356			organic substances which are not used as solvents/lincluding composting asnother biological transformation processes/which includes gas/fication and pyrolisis		
		19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN							RS-Recycling/reclamation or other inorganic materials which includes soil coloning resuling in recovery of the soil		
	19 12 12	CONSUMPTION AND WATER FOR INDUSTRIAL USE 17- CONSTRUCTION AND	Fines (C&D, C&I)	41,598.02	37,299.72	90			and recycling of inorganic construction materials RS-Recyclina/reclamation or		
	17 05 04	DEMOLITION WASTES 20. MUNICIPAL WASTES	Soil and stanes	5,446.86	19,179.34	352			other inorganic materials		
		(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY									

WASTE SUMMARY 15 No: W0 165-02 Year 2016



| PRTR# : W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xls | Return Year : 2016 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

1. FACILITY IDENTIFICATION Parent Company Name Ballynagran Landfill Limited Facility Name Ballynagran Residual Landfill PRTR Identification Number W0165 Licence Number W0165-02

Classes of Activity

REFERENCE YEAR 2016

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

Address 1	Ballynagran
Address 2	Coolbeg and Kilcandra
Address 3	
Address 4	
	Wicklow
Country	Ireland
Coordinates of Location	-8.41098 51.914
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Tomas Fingleton
AER Returns Contact Email Address	tomas.fingleton@landfills.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	0867741813
AER Returns Contact Mobile Phone Number	0867741813
AER Returns Contact Fax Number	045 482629
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	10
User Feedback/Comments	Engine 1 not in operation at the time of the Air Emission Survey therefore no data is availible.
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General

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

3. SOLVENTS REGULATIONS (S.I. No. 543 of 200	2)
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) ?	

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xls | Return Year : 2016 |

26/05/2017 12:40

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR			Please enter all quantities in this section in KGs											
	POLLUTANT		METH	IOD								QUANTITY		
			Me	thod Used	Flare 1	Engine 2	Engine 3	Engine 4	Engine 1					
													A	
												T (Total)		F (Fugitive)
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 5	Emission Point 6	Emission Point 7	KG/Year	KG/Year	KG/Year
02	Carbon monoxide (CO)	M	EN 15058:2004	NCIR By Horiba PG-250	2.77	1138.00	6441.00	4532.00	0.00			12113.77	0.0	0.0
	Nitrous oxide (N2O)	M	EN 14792:2005	Chemiluminescence	77.00	98.00	3701.00	2601.00	0.00	0.00	0.00	6477.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	C	OTH	NDIR Absorption	3059.00	4240.00	22763.00	1626.00	0.00	0.00	0.00	31688.0	0.0	0.0
01	Methane (CH4)	C	OTH	Gassim Model	0	0.00	0.00	0.00	0.00	0.00	0.00	366151.0	0.0	366151.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button													

	SECTION B: REMAINING PRIR POLLUTANT														
RELEASES TO AIR POLLUTANT				Please enter all quantities in this section in KGs											
				METHOD		7	QUANTITY								
			Method Used												
										A (Accidental)	F (Fugitive)				
	No. Annex II	Name	M/C/E Method Cod	de Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	KG/Year	KG/Year				
					0.0	0.0	0.0	0.0	0.0		0.0				

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

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

RELEASES TO AIR			Please enter all quantities in this section in KGs								
POLLUTANT			METH							QUANTITY	
			Me	ethod Used							
										A (Accidental)	F (Fugitive)
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	T (Total) KG/Year	KG/Year	KG/Year
			-	*	0.0	0.0	0.0	0.0	0.0	0	0.00

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

Additional Dat	a Requested from	Landfill operators
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For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under Tribulaj KGV pro Section A. Sectors specific PRTR pollutants above. Please complete the table Section A. Sectors specific PRTR pollutants above.

Landfil	I:				
Please	enter	summary	data	on	the

	Ballynagran Residual Landfill				_	
Please enter summary data on the						
quantities of methane flared and / or						
utilised			Meth	od Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as per						
site model	5480137.0				N/A	
Methane flared	219799.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	4894187.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
A above	366151.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xls | Return Year : 2016 |

26/05/2017 12:40

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

SECTION B: REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS				Please enter all quantities	in this section in KGs	5	
PO	LUTANT	QUANTITY						
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xl

26/05/2017 12:41

SECTION A: PRTR POLLUTANTS

	OFFSITE TRANS	SFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TR	EATMENT OR SEWER		Please enter all quantities in this section in KGs				
	PO	LLUTANT		METHO)D	QUANTITY				
				Method Used						
r	lo. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	/	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0		0.0	0.0	0.0

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

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

SECTION D. HEMAINING I SEESTANT EMIS	bolono (as required in your Licence)								
OFFSITE TRANS	SFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TRE	EATMENT OR SEWER		Please enter all quantities in this section in KGs				
PO	LLUTANT		METH	OD	QUANTITY				
			Me	ethod Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year		A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.

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

Link to previous years emissions data Page 1 of 1

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xls | Return Year : 2016 |

26/05/2017 12:41

SECTION A: PRTR POLLUTANTS

	REL	EASES TO LAND			Please enter all quai	às	
	POLLUTANT		MI	THOD			QUANTITY
				Method Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
						0.0	0.0 0.0

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0165 | Facility Name : Ballynagran Residual Landfill | Filename : W0165_2016 PRTR.xls | Return Year : 2016 |

26/04		

. OHOITE THEATIM	LIVI & OIT OITE THA	HOI EITO OI	WAOIL	1 1111 m . vv 0 100 1 dollity (valito . Dally) lagrati (tooluda)	Landilli 1 licitari	10. 110100	_2010 11111.33 11010111	16di . 2010				20/03/2017 12.41
			Please enter a	Ill quantities on this sheet in Tonnes								0
			Quantity (Tonnes per Year)		Waste		Method Used		Licence/Permit No of Next Destination Facility Maz 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				
				landfill leachate other than those mentioned					Rilta Environmental	Block 402 ,Grant?s Drive ,Greenogue Business Park.		
Within the Country	19 07 03	No		in 19 07 02 landfill leachate other than those mentioned	D9	М	Weighed	Offsite in Ireland	Ltd,W0192-01	Rathcoole ,Dublin,Ireland		
Within the Country	19 07 03	No		in 19 07 02	D9	М	Weighed	Offsite in Ireland	Ringsend WWTP,D00-34-01	Ringsend ,Dublin,-,-,ireland		
Within the Country	19 07 03	No		landfill leachate other than those mentioned in 19 07 02	D9	М	Weighed	Offsite in Ireland		Brownstown, Kilcullen Landfill Ltd., County Kildare, -, ireland		

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