Facility Information Summary				
AER Reporting Year	2014			
Licence Register Number			W0081-04	
Name of site		Ki	ilcullen Landfill Ltd (KLL)	
Site Location		Brown	nstown, Kilcullen, Co. Kildare	
NACE Code				
Class/Classes of Activity	Schedule 3, Classe	es 1, 5, 11,	13; Schedule 4 - recovery activities, Classes 3, 4, 9	
National Grid Reference (6E, 6 N)				
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence <u>listing all</u> <u>exceedances of licence limits (where</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u>	The facility is a fu The land	ull containm Ifill is now c	nent landfill, which is designed to accept treated was closed and fully capped. No waste was accepted on s	te fo ite ir

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Signature

Date

Group/Facility manager (or nominated, suitably qualified and

experienced deputy)

AIR-summary template	Lic No:	W0081-04	Year	2014
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 reporting year and answer 1 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	Yes			

	Periodic/Non-Continuous Monitoring		
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	Yes	
3	Basic air Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? monitoring checklist AGN2	Yes	

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

			ELV in licence or							
Emission reference			any revision			Unit of	Compliant with		Annual mass	Comments -reason for change in % mass load
no:	Parameter/ Substance	Frequency of Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	from previous year if applicable
					342					
D1	Dust	annually, but no longer requi	350	SELECT		mg/m2/day	yes	TM2240		
					159					
D2	Dust	annually, but no longer requi	350			mg/m2/day	yes	TM2240		
					148					
D3	Dust	annually, but no longer requi	350			mg/m2/day	yes	TM2240		
D4	Damaged									
					124					
D5	Dust	annually, but no longer requi	350			mg/m2/day	ves	TM2240		
					48		(*			
D6	Dust	annually, but no longer requi	350			mg/m2/day	yes	TM2240		
					3.28		ſ			
GE03	Total Particulate Matter (TPM)	annually				mg/m3		EN13284-1:2002. SOP2000		
					664.68			,		
GF03	Carbon Monoxide (CO)	annually	1400			mg/m3	ves	EN15058:2006. SOP2004		
	a.:				445.68					
CE03	Oxides of Nitrogen (NOx) as	annuallu.	500			m m /m 2		EN14702-2006 COD2002		
GE05	NUZ	annually	500		697 73	ilig/115	yes	EN14792.2000, 30P2002		
	Total Volatile Organic Carbon				037113					
GE03	(VOC)	annually	1000			mgC/m3	yes	Em12619:2013, SOP2009		
					0.38					
GE03	T A Luft Organics	annually	75			mg/m3	yes	EN13649:2002, SOP2019		
					458.37					
GE03	Sulphur Dioxide (SO2)	annually				mg/m3		TGN 21, SOP2012		
					570.15					
GE03	Stack Gas Temperature	annually				к		EN16911:2013, SOP2005		
					10.53					
GE03	Stack Gas Velocity	annually				m/s1		EN16911:2013, SOP2005		

AIR-su	ummary template	e			Lic No:	W0081-04		Year	2014	
					3193					
GE03		Volumetric Flow Rate	annually			m3/h1				
					2790					
GE03		Volumetric Flow Rate (Ref.)	annually			m3/h1				
					7.02					
GF01		Total Particulate Matter (TPM)	annually			mg/m3		EN13284-1:2002, SOP2000		
					665.01			,		
GF01		Carbon Monoxide (CO)	annually	1400		mg/m3	ves	EN15058:2006, SOP2004		
					455.65		,			
GE01		Oxides of Nitrogen (NOx) as	annually	500		mg/m3	ves	EN14792-2006 SOP2002		
0201			annoany	500	859.64		,	2002		
GE01		Total Volatile Organic Carbon	annually	1000		mgC/m3	VAS	Em12610-2013 SOP2009		
GLUI		(100)	annually	1000	0.37	inge/ins	yes	2013.2013, 301 2003		
6501		T & Luft Organics	annually	75		mg/m2	Voc	EN12640-2002 COD2010		
GEUI			annually	73	522.64	111g/1115	yes	EN13049.2002, 30F2019		
CE01		Culphur Diouida (CO2)	annuallu.					TCN 21 COD2012		
GEUI		Sulphur Dioxide (SO2)	annually		571 15	mg/m3		TGN 21, SOP2012		
					5,1125					
GE01		Stack Gas Temperature	annually		10 5	к	1	EN16911:2013, SOP2005		
					10.5					
GE01		Stack Gas Velocity	annually		2190	m/s1		EN16911:2013, SOP2005		
					5180					
GE01		Volumetric Flow Rate	annually		2612	m3/h1	-			
					2612					
GE01		Volumetric Flow Rate (Ref.)	annually		0.000	m3/h1				
					0.008					
G1		Methane (CH4)	monthly	1		% v/v	yes	GA2000		
					1.17					
G1		Carbon dioxide (CO2)	monthly	1.5		% v/v	yes	GA2000		
					0					
G2		Methane (CH4)	monthly	1		% v/v	yes	GA2000		
					0.56	i				
G2		Carbon dioxide (CO2)	monthly	1.5		% v/v	yes	GA2000		
					0					
G3		Methane (CH4)	monthly	1		% v/v	yes	GA2000		
					5.28					
										26/03/2014 (6.9%), 28/04/2014 (6.9%),
							no (if no please			27/05/2014 (2.7%), 27/06/2014 (6.4%),
							enter details in			27/07/2014 (2.7%), 29/08/2014 (3.7%),
G3		Carbon dioxide (CO2)	monthly	1.5		% v/v	comments box)	GA2000		29/09/2014 (2.7%), 24/10/2014 (4.8%), 27/11/2014 (7.7%), 15/12/2014 (4%)
					C					
G4		Methane (CH4)	monthly	1		% v/v	yes	GA2000		
					5.28					28/01/2014 (11.2%), 26/02/2014 (3.4%),
										26/03/2014 (4.1%), 28/04/2014 (5.1%),
							no (if no please			27/05/2014 (2.3%), 27/06/2014 (6.7%), 27/07/2014 (3.2%), 29/08/2014 (5%)
							enter details in			29/09/2014 (4%), 24/10/2014 (4.5%),
G4		Carbon dioxide (CO2)	monthly	1.5		% v/v	comments box)	GA2000		27/11/2014 (8.5%), 15/12/2014 (5.4%).
					0					
G5		Methane (CH4)	monthly	1		% v/v	yes	GA2000		

AIR-summary to	emplate			Lic No:	W0081-04		Year	2014	l .
				1.63					The licence limit was exceeded six times on
						no (if no please			28/01/2014 (3.5%), 27/06/2014 (2.3%),
						enter details in			29/09/2014 (2.3%), 24/10/2014 (2.8%),
G5	Carbon dioxide (CO2)	monthly	1.5		% v/v	comments box)	GA2000		27/11/2014 (3.7%), 15/12/2014 (1.6%).
				0					
66	Methane (CH4)	monthly	1		% y/y	VAS	GA2000		
60	incentane (entry	inontiny	-	2 65	,, .	700	GA2000		28/01/2014 (4.1%) 26/02/2014 (1.6%)
				2.05					28/01/2014 (4.1%), 28/02/2014 (1.6%),
									28/03/2014 (2.1%), 28/04/2014 (2.0%),
									2//06/2014 (2.6%), 2//07/2014 (2.4%),
						no (ir no piease			29/08/2014 (2%), 29/09/2014 (2.7%),
					or 1	enter details in			24/10/2014 (2.8%), 2//11/2014 (4.2%),
G6	Carbon dioxide (CO2)	monthly	1.5		% V/V	comments box)	GA2000	L	15/12/2014 (3.5%).
				0					
G7	Methane (CH4)	monthly	1		% v/v	ves	GA2000		
<u>.</u>		inoritiny	-	2.13		7.00	0,12000		The licence limit was exceeded seven times on
									28/01/2014 (1.9%), 28/04/2014 (2.4%),
						no (if no please			27/06/2014 (3.4%), 27/07/2014 (2.6%),
						enter details in			29/09/2014 (2.1%), 24/10/2014 (1.7%),
G7	Carbon dioxide (CO2)	monthly	1.5		% v/v	comments box)	GA2000		27/11/2014 (7.6%).
				0					
C 9	Mathana (CH4)	monthly	1		0/	Voc	C 4 3000		
G8	Methane (CH4)	monthly	1	2.64	70 V/V	yes	GA2000	<u> </u>	The licence limit was exceeded six times on
				2.64		no (if no please			28/04/2014 (1.8%), 27/05/2014 (2.2%),
						enter details in			27/06/2014 (3.3%), 29/09/2014 (3.7%).
G8	Carbon dioxide (CO2)	monthly	1.5		% v/v	comments box)	GA2000		27/11/2014 (7.8%), 15/12/2014 (10.8%).
				0		,			
G9	Methane (CH4)	monthly	1		% v/v	yes	GA2000		
				1.13					
69	Carbon dioxide (CO2)	monthly	15		% v/v	ves	GA2000		
65		inontiny	1.5	0	,, .	700	GA2000		
G10	Methane (CH4)	monthly	1		% v/v	yes	GA2000		
				1.15					
C10	Corbon diquida (CO2)	monthly	1.5		01		C 4 3000		
010	carbon dioxide (CO2)	montiny	1.5	0	70 V/V	yes	GA2000	 	
				0					
G11	Methane (CH4)	monthly	1		% v/v	yes	GA2000		
				0.42					
					or 1				
G11	Carbon dioxide (CO2)	monthly	1.5		% V/V	yes	GA2000	L	
				0					
G14	Methane (CH4)	monthly	1		% v/v	ves	GA2000		
				3.03					28/01/2014 (6.8%) 26/02/2014 (2.7%)
									28/01/2014 (0.8%), 20/05/2014 (2.7%),
									28/04/2014 (3.3%), $27/03/2014$ (2.3%),
						and life an allowed			27/06/2014 (3.4%), 27/07/2014 (2.8%),
						no (ir no piease			29/08/2014 (2.4%), 29/09/2014 (2.5%),
						enter details in			24/10/2014 (3.1%), 27/11/2014 (3.7%),
G14	Carbon dioxide (CO2)	monthly	1.5		% V/V	comments box)	GA2000	L	15/12/2014 (2.1%).
				0					
G15	Methane (CH4)	monthly	1		% v/v	yes	GA2000	1	
				2.18					28/01/2014 (1.8%), 26/02/2014 (1.5%).
									26/03/2014 (2.4%) 28/04/2014 (2.2%)
									27/05/2014 (1 7%) 27/06/2014 (2%)
						no (if no please		1	27/07/2014 (1 9%) 29/08/2014 (2 2%)
						enter details in		1	29/09/2014 (1.6%) 24/10/2014 (2.1%)
G15	Carbon dioxide (CO2)	monthly	15		% v/v	comments hox)	GA2000	1	27/11/2014 (4.8%) 15/12/2014 (2%)
515		inontiny	1.5	0	,. v/ v	comments boxy	0	<u> </u>	2, , 11, 2017 (7.0/0], 13, 12/ 2014 (2/0].
								1	
G16	Methane (CH4)	monthly	1		% v/v	yes	GA2000	1	

AIR-summary template						W0081-04		Year	2014	
					0.73					
G16	Carbon dioxide (CO2)	monthly	1.5			% v/v	yes	GA2000		

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

6

Г	AIR-summary template	Lic No:	W0081-04	Year	2014	
	Continuous Monitoring					
	4 Does your site carry out continuous air emissions monitoring?	Yes				
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)					
	⁵ Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No				
	6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT				
	7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No				

Table A2: Summary of average emissions -continuous monitoring

Emission reference	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring Equipment	Number of ELV	Comments
no:					measurement			downtime (hours)	exceedences in	
									current	
		ELV in licence or any							reporting year	
		revision therof								
			Q1-Q4, weekly			0.00	0.00	GA2000Plus, Methane Gas	0	no breaches
			monitoring					Surveyor 4B, Monicon		
Main Site Office	Methane (CH4)	1		SELECT	% v/v			MC4000		
			Q1-Q4, weekly			0.06	0.20	GA2000Plus	0	no breaches
Main Site Office	Carbon dioxide (CO2)	1.5	monitoring		% v/v					
			Q1-Q4, weekly			20.78	21.00	GA2000Plus		
Main Site Office	Oxygen (O2)		monitoring		% v/v					

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

Bypass protocol

Table A3: Abatement	able A3: Abatement system bypass reporting table Bypass protocol									
Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action					

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

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

AIR-sum	mary template	!				Lic No:	W0081-04		Year	2014
		Solvent use and management of	n site							
8 Do you ha	ave a total Emi : Solvent Man	ssion Limit Value of direct and fu	gitive emissions on site? if ye	s please fill out tabl Solvent	es A4 and A5 Please refer to linked solver	t regulations to	1	SELECT		
				regulations	complete table 5	and 6				
Repor	rting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
						SELECT				
		his AF: Colored Marco Delawara				SELECT				
	la	ble A5: Solvent Mass Balance su	immary							J
		(I) inputs (kg)	(O) Outputs (kg)							
So	olvent	(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. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
								Total		

AER Monitoring returns summar	template-WATER,	/WASTEWATER(SEWER)
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Vear

2014

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

	Yes	
ır		
	Yes	

Lic No:

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

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW7	onsite		Total Suspended Solids	Q1-Q3		SELECT	5.17	mg/l	SELECT	
SW7	onsite		Alkalinity, Total as CaCO3	Q1-Q3			215.00	mg/l		
SW7	onsite		BOD, unfiltered	Q1-Q3			1.26	mg/l		
SW7	onsite		Organic Carbon, Total	Q2, Q3			6.85	mg/l		
SW7	onsite		Ammoniacal Nitrogen as N	Q1-Q3	0.065		0.57	mg/l	se enter details in co	EQS was exceeded on: Q1 (1.41 mg/l), Q2 (0.204 mg/l)
SW7	onsite		COD, unfiltered	Q1-Q3			15.64	mg/l		
SW7	onsite		Conductivity at 20°C	Q1-Q3	1		0.48	mS/cm	yes	
SW7	onsite		Boron (diss.filt)	Q1-Q3	2000		30.23	μg/l	yes	
SW7	onsite		Cadmium (diss.filt)	Q1-Q3	5		<0.1	μg/l	yes	
SW7	onsite		Chromium (tot.unfilt)	Q1-Q3	30		2.05	μg/l	yes	
SW7	onsite		Copper (diss.filt)	Q1-Q3	30		2.61	μg/l	yes	
SW7	onsite		Lead (diss.filt)	Q1-Q3	10		0.06	μg/l	yes	
SW7	onsite		Manganese (diss.filt)	Q1-Q3	300		41.48	μg/l	yes	
SW7	onsite		Nickel (diss.filt)	Q1-Q3	50		3.00	μg/l	yes	
SW7	onsite		Phosphorus (diss.filt)	Q1, Q3			13.43	μg/l		
SW7	onsite		Zinc (diss.filt)	Q1-Q3	100		6.74	μg/l	yes	
SW7	onsite		Mercury (diss.filt)	Q1-Q3	1		<0.01	μg/l	yes	
SW7	onsite		Nitrite as NO2	Q1-Q3	0.2		0.13	mg/l	yes	
SW7	onsite		Sulphate	Q1, Q2	200		51.40	mg/l	yes	
SW7	onsite		Chloride	Q1-Q3	250		20.23	mg/l	yes	
SW7	onsite		Phosphate (ortho) as P	Q1-Q3			0.05	mg/l		
SW7	onsite		Nitrate as N	Q1			2.57	mg/l		
SW7	onsite		Nitrate as NO3	Q2, Q3	50		1.87	mg/l	yes	
SW7	onsite		Oxygen, dissolved	Q1, Q3			9.42	mg/l		
SW7	onsite		Calcium (diss.filt)	Q1-Q3			96.20	mg/l		
SW7	onsite		Sodium (diss.filt)	Q1-Q3			14.18	mg/l		
SW7	onsite		Magnesium (diss.filt)	Q1-Q3			5.67	mg/l		
SW7	onsite		Potassium (diss.filt)	Q1-Q3			2.28	mg/l		
SW7	onsite		Iron (diss.filt)	Q1-Q3	1		<0.019	mg/l	yes	
SW7	onsite		pH	01-03	6-9	SELECT	7.99	pH Units	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
			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 below	brief details in the comment sec	tion of Table W3	Yes	Additional information	
١	Vas all monitoring carried out in accordance with EPA guidance and checklists					
	for Quality of Aqueous Monitoring Data Reported to the EPA? If no please	External /Internal Lab Quality	Assessment of			
4	detail what areas require improvement in additional information box	checklist	results checklist	Yes		

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

Emission reference	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SW4	Water	Total Suspended Solids		Q1-Q3	SELECT		SELECT	3.95	mg/l	SELECT	TM022	SELECT			
SW4	Water	Alkalinity, Total as CaCO3		Q1-Q3				245.00	mg/l		TM043				
SW4	Water	BOD, unfiltered		Q2, Q3				1.01	mg/l		TM045				
SW4	Water	Organic Carbon, Total		Q1-Q3				12.70	mg/l		TM090				
SW4	Water	Ammoniacal Nitrogen as N		Q1-Q3		0.065		<0.2	mg/l	yes	TM099				
SW4	Water	COD, unfiltered		Q1-Q3				26.97	mg/l		TM107				
SW4	Water	Conductivity at 20°C		Q1-Q3		1		0.56	mS/cm	yes	TM120				

AER Monitoring retu	urns summary template-V	VATER/WASTEWATER(SEWER)			Lic No:	W0081-04		Year	2014				
SW4	Water	Boron (diss.filt)		Q1-Q3	2000		39.80	μg/l	yes	TM152			
SW4	Water	Cadmium (diss.filt)		Q1-Q3	5		<0.1	μg/l	yes	TM152			
SW4	Water	Chromium (tot.unfilt)		Q1-Q3	30		2.55	μg/l	yes	TM191			
SW4	Water	Copper (diss.filt)		Q1-Q3	30		1.67	μg/l	yes	TM152			
SW4	Water	Lead (diss.filt)		Q1-Q3	10		0.05	μg/l	yes	TM152			
SW4	Water	Manganese (diss.filt)		Q1-Q3	300		174.13	μg/l	yes	TM152			
SW4	Water	Nickel (diss.filt)		Q1-Q3	50		4.20	μg/l	yes	TM152			
SW4	Water	Phosphorus (diss.filt)		Q1, Q3			13.33	μg/l		TM152			
SW4	Water	Zinc (diss.filt)		Q1-Q3	100		8.46	μg/l	yes	TM152			
SW4	Water	Mercury (diss.filt)		Q1-Q3	1		<0.01	μg/l	yes	TM183			
SW4	Water	Nitrite as NO2		Q1-Q3	0.2		<0.05	mg/I	yes	TM184			
SW4	Water	Sulphate		Q1, Q2	200		54.55	mg/l	yes	TM184			
SW4	Water	Chloride		Q1-Q3	250		17.67	mg/I	yes	TM184			
SW4	Water	Phosphate (ortho) as P		Q1-Q3			<0.05	mg/I		TM184			
SW4	Water	Nitrate as N		Q1			1.28	mg/I		TM184			
SW4	Water	Nitrate as NO3		Q2, Q3	50		0.47	mg/l	yes	TM184			
SW4	Water	Oxygen, dissolved		Q1, Q2			6.19	mg/l		TM187			
SW4	Water	Calcium (diss.filt)		Q1-Q3			109.23	mg/l		TM228			
SW4	Water	Sodium (diss.filt)		Q1-Q3			13.30	mg/l		TM228			
SW4	Water	Magnesium (diss.filt)		Q1-Q3			6.72	mg/l		TM228			
SW4	Water	Potassium (diss.filt)		Q1-Q3			1.68	mg/l		TM228			
SW4	Water	Iron (diss.filt)		Q1-Q3	1		0.14	mg/l	yes	TM228			
SW4	Water	pH		Q1-Q3	6-9		7.99	pH Units	yes	TM256			
SW5	Water	Total Suspended Solids		Q1, Q2			12	mg/l		TM022			
SW5	Water	Alkalinity, Total as CaCO3		Q1, Q2			245	mg/l		TM043			
SW5	Water	BOD, unfiltered		Q1, Q2			<1	mg/l		TM045			
SW5	Water	Organic Carbon, Total		Q2	0.005		15.9	mg/l		11/1090			
5W5	water	Ammoniacai Nitrogen as N		Q1, Q2	0.065		<0.2	mg/l	yes	110099			
SW5	Water	COD, unfiltered		Q1, Q2			41.05	mg/l		TM107			
SW5	Water	Conductivity at 20×C		Q1, Q2	1		0.469	mS/cm	yes	TM120			-
SW5	Water	Boron (diss.tilt)		01,02	2000		15.55	μg/l	yes	TM152			-
SWS	Water	Chromium (tot unfilt)		01, 02	30		<0.1	μg/I	yes	TM101			
5445	Water	Conner (diss filt)		01,02	30		<0.95	μg/I	yes	TM152			
SW5	Water	Load (diss filt)		01,02	10		0.019	μg/1	yes	TM152			
5115	Water	Lead (assumption)		Q1, QL	10		0.015	μ <u>β</u> /1	no (if no please enter	111132			-
SW5	Water	Manganese (diss.filt)		Q1, Q2	300		303.85		details in comments	TM152			EQS was exceeded
								μg/l	box)				on: Q2 (563 mg/l)
SW5	Water	Nickel (diss.filt)		Q1, Q2	50		2.69	μg/l	yes	TM152			
SW5	Water	Phosphorus (diss.filt)		Q1			<6.3	μg/l		TM152			
SW5	Water	Zinc (diss.filt)		Q1, Q2	100		20.412	μg/l	yes	TM152			
SW5	Water	Mercury (diss.filt)		Q1, Q2	1		<0.01	μg/l	yes	TM183			
SW5	Water	Nitrite as NO2		Q1, Q2	0.2		0.041	mg/l	yes	TM184			
SW5	Water	Sulphate		Q1, Q2	200		29.2	mg/I	yes	TM184			
SW5	Water	Chloride		Q1, Q2	250		17.95	mg/l	yes	TM184			
SW5	Water	Phosphate (ortho) as P		Q1, Q2			0.034	mg/l		TM184			
SW5	Water	Nitrate as N		Q1			1.13	mg/l		TM184		<u> </u>	_
SW5	Water	Nitrate as NO3		Q2	50		<0.3	mg/l	yes	TM184		──	
SW5	Water	Oxygen, dissolved		Q1, Q2			5.27	mg/l		TM187		<u> </u>	<u> </u>
SW5	Water	Calcium (diss.filt)		Q1, Q2			97.7	mg/l		TM228		┝───	
SW5	Water	Sodium (diss.filt)		Q1, Q2			7.9	mg/l		TM228		┝───	_
SW5	Water	Magnesium (diss.filt)		Q1, Q2			6.125	mg/l		TM228		<u> </u>	<u> </u>
SW5	Water	Potassium (diss.filt)		Q1, Q2			0.83	mg/l		TM228		<u> </u>	+
SW5	Water	Iron (diss.filt)		Q1, Q2	1		0.284	mg/l	yes	TM228		<u> </u>	+
SW5	Water	pH		Q1, Q2	6-9		7.76	pH Units	yes	TM256		<u> </u>	+
SW6	Water	I otal Suspended Solids		Q1-Q3			21.87	mg/l		TM022		<u> </u>	+
SW6	Water	Alkalinity, Total as CaCO3		Q1-Q3			174.50	mg/l		TM043		<u> </u>	+
SWb	Water	BOD, unfiltered		Q1-Q3			4.88	mg/l		TM045		 	+
SW6	Water	Organic Carbon, Total		Q2, Q3			21.10	mg/l	no (if no place onte-	1M090		├	+
SW6	Water	Ammoniacal Nitrogen as N		Q1-Q3	0.065		0.20	mg/l	details in comments box)	TM099			EQS was exceeded on: Q3 (0.401 mg/l)
SW6	Water	COD, unfiltered		Q1-Q3			66.40	mg/l		TM107			
SW6	Water	Conductivity at 20°C		Q1-Q3	1		0.58	mS/cm	yes	TM120			l
SW6	Water	Boron (diss.filt)		Q1-Q3	2000		22.77	μg/l	yes	TM152			
SW6	Water	Cadmium (diss.filt)		Q1-Q3	5		0.12	μg/l	yes	TM152			
SW6	Water	Chromium (tot.unfilt)		Q1-Q3	30		1.41	μg/l	yes	TM191			
SW6	Water	Copper (diss.filt)		Q1-Q3	30		1.78	μg/l	yes	TM152			
SW6	Water	Lead (diss.filt)		Q1-Q3	10		0.04	μg/l	yes	TM152			

AER Monitoring re	turns summary template-	WATER/WASTEWATER(SEWER)			Lic No:	W0081-04		Year	2014			
	1	1							no (if no please enter			
SW6	Water	Manganese (diss.filt)		Q1-Q3	300		1190.17		details in comments	TM152		EQS was exceeded
								μg/l	box)			on: Q3 (3350 µg/l)
SW6	Water	Nickel (diss.filt)		01-03	50		3.94	ug/l	VPS	TM152		
SW6	Water	Phosphorus (diss filt)		01.03			114.40	P6/1		TM152		
5110	water			Q1, Q3			114.40	μg/1				
SW6	Water	Zinc (diss.filt)		Q1-Q3	100		15.81	μg/l	yes	TM152		
SW6	Water	Mercury (diss.filt)		Q1-Q3	1		0.01	μg/l	yes	TM183		
SW6	Water	Nitrite as NO2		Q1-Q3	0.2		<0.5	mg/l	yes	TM184		
SW6	Water	Sulphate		01.02	200		82.35	mg/l	VPS	TM184		
SW/6	Water	Chlorida		01-02	250		20.20	111g/1	yes	TM194		
5000	water	Chionde		41-45	230		20.20	mg/i	yes	1141104		
SW6	Water	Phosphate (ortho) as P		Q1-Q3			0.15	mg/l		TM184		
SW6	Water	Nitrate as N		Q1			4.54	mg/l		TM184		
SW6	Water	Nitrate as NO3		Q2, Q3	50		3.18	mg/l	yes	TM184		
SW6	Water	Oxygen, dissolved		01.02			3.17	mg/l		TM187		
SWIE	Water	Calsium (diss filt)		01.03			116.22			TM229		
3000	water	Calcium (uss.mt)		Q1-Q5			110.55	mg/I		1191220		
SW6	Water	Sodium (diss.filt)		Q1-Q3			10.14	mg/l		TM228		
SW6	Water	Magnesium (diss.filt)		Q1-Q3			6.74	mg/l		TM228		
SW6	Water	Potassium (diss.filt)		Q1-Q3			1.08	mg/l		TM228		
									no (if no please enter			
SW6	Water	Iron (diss.filt)		01-03	1		1.89		details in comments	TM228		EQS was exceeded
								mg/l	box)			on: Q3 (5.01 mg/l)
SW6	Water	nH		01-03	6-9		7 32	nH Unite	Ves	TM256		
104	Marten and a second	Total Courses de d'Callida	+	01.03	200		1.52	prionics	yes	7140000		
LPI	wastewater/Sewer	Total Suspended Solids		Q1, Q2	300		14	mg/l	yes	TIVIUZZ		
LP1	Wastewater/Sewer	BOD, unfiltered		Q1, Q2	250		141.5	mg/l	yes	TM045		
												Licence limit was
									no (if no please enter			exceeded on both
LP1	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q1, Q2	5		2105		details in comments	TM099		measuring dates: Q1
									box)			(2130 mg/l), Q2
								mg/l				(2200 mg/l)
												Licence limit was
									no (if no please enter			exceeded on both
LP1	Wastewater/Sewer	COD, unfiltered		Q1, Q2	750		4390		details in comments	TM107		measuring dates: Q1
									box)			(4240 mg/l), Q2
								mg/l				(4540 mg/l)
												EQS was exceeded
									no (if no please enter			on both measuring
LP1	Wastewater/Sewer	Conductivity at 20°C		Q1, Q2	1		19.85		details in comments	TM120		dates: Q1 (19.7
									box)			mS/cm), Q2 (20
								mS/cm				mS/cm)
LP1	Wastewater/Sewer	Boron (diss.filt)		Q1	2000		12600	μg/l	no (ii no piease enter	TM152		
LP1	Wastewater/Sewer	Cadmium (diss.filt)		01	5		1.11	119/1	ves	TM152		
1.01	Wastewater/Cower	Coppor (diss filt)		01	30		101	P6/1	no (ir no piease enter	TMATED		
LF I	wastewater/Jewer	copper (uiss.nit)		LD .	50		101	µg/i	datails in comments	TIVITOL		
LP1	Wastewater/Sewer	Lead (diss.filt)		Q1	10		2.8	μg/l	yes	TM152		
LP1	Wastewater/Sewer	Manganese (diss.filt)		Q1	300		278	μg/l	yes	TM152		
LP1	Wastewater/Sewer	Nickel (diss.filt)		Q1	50		307	ug/l	no (ir no piease enter	TM152		
LP1	Wastewater/Sewer	Phosphorus (diss.filt)		01			19500	10/	oerails in comments	TM152		
1.01	Wastowater/Cower	Zine (disc filt)		01	100		22222	P6/1	100	TM1E2		
LPI	wastewater/sewer	Zinc (uiss.nit)		ųı	100		32.2	μg/I	yes	111132		
LP1	Wastewater/Sewer	Mercury (diss.filt)		Q1	1		<0.01	μg/l	yes	TM183		
LP1	Wastewater/Sewer	Chromium (tot.unfilt)		Q1	30		378	μg/I	details in comments	TM191		
									no (if no please enter			Licence limit was
LP1	Wastewater/Sewer	Chloride		Q1, Q2	2000		2065		details in comments	TM226		exceeded on: Q2
								mg/l	box)			(2140 mg/l)
LP1	Wastewater/Sewer	Fluoride		Q1	5		3.68	mg/l	yes	TM226		
I P1	Wastewater/Sewer	Sulphate	1	01.02	200		49,955	ma/l	VPS	TM226		
1.01	Westewates/Score	Total Ouidised Nitroger N	łł	01.02			5.61	iiig/i	,	TM226		
LPI	wastewater/Sewer	Total Oxidised Nitrogen as N		Q1, Q2			5.61	mg/l		11/1226		
LP1	Wastewater/Sewer	Nitrate as N		Q1	1000		5.61	mg/l	yes	TM226		
LP1	Wastewater/Sewer	Phosphate as P		Q1	20		<0.46	mg/l	yes	TM226		
LP1	Wastewater/Sewer	Cyanide, Total		Q1	0.01		0.054	mg/l	no (ir no piease enter	TM227		
LP1	Wastewater/Sewor	Calcium (diss filt)		01			38.1	mg/l	details in comments	TM228		
	Master aler Jewel	Cardina (UISS.IIII)	l				33.1	iiig/i		Th / 220		
LP1	wastewater/Sewer	Sodium (diss.filt)	l	ųı			2390	mg/l		TM228		
LP1	Wastewater/Sewer	Magnesium (diss.filt)		Q1			59	mg/l		TM228		
LP1	Wastewater/Sewer	Potassium (diss.filt)		Q1			800	mg/I		TM228		
LP1	Wastewater/Sewer	Iron (diss.filt)		Q1	1		2.15	ma/l	no (ir no piease enter	TM228		
LP1	Wastewater/Sewer	nH	1	01.02	6.9		7 955		details in comments	TM256		<u> </u>
LPI	wastewater/sewer	pH	↓ ↓	Q1, Q2	0-9		1.655	pH Units	yes	111/250		
LP3	Wastewater/Sewer	Total Suspended Solids	l	Q1, Q2	 300		21	mg/l	yes	TM022		L
LP3	Wastewater/Sewer	BOD, unfiltered		Q1, Q2	250		134	mg/I	yes	TM045		
LP3	Wastewater/Sewer	Organic Carbon, Total		Q1	300		1530	mg/l	no (ir no piease enter	TM090		
								·or ·	details in comments			Licence limit was
									no (if no please enter			exceeded on both
1 P3	Wastewater/Sewer	Ammoniacal Nitrogen as N		01.02	5		2235		details in comments	TM099		measuring dates: 01
		introgen us iv							box)			(2130 mg/l), 02
								mg/I	,			(2340 mg/l)

AER Monitoring retu	Irns summary template-V	WATER/WASTEWATER(SEWER)				Lic No:	W0081-04		Year	2014				
 -	1	1						1		1				Licence limit was
										no (if no please enter				exceeded on both
100	Manhau 16	COD		01.03		750		4405		no (ii no piease enter	714407			exceeded on both
LP3	wastewater/Sewer	COD, unfiltered		Q1, Q2		750		4495		details in comments	11/11/1			measuring dates: Q1
										DOX)				(4210 mg/l), Q2
									mg/l					(4780 mg/l)
														EQS was exceeded
										no (if no please enter				on both measuring
LP3	Wastewater/Sewer	Conductivity at 20°C		Q1, Q2		1		20.35		details in comments	TM120			dates: Q1 (19.3
										box)				mS/cm), O2 (21.4
									m\$/cm	,				mS/cm)
									mayem	no lif no plance optor		1	1	msyemy
100	Manhau 16	Dense (diss file)				2000		11000		no (ii no piease enter	714453			
LP3	Wastewater/Sewer	Boron (diss.filt)		Q1		2000		11900		details in comments	TM152			
									μg/l	box)				
LP3	Wastewater/Sewer	Cadmium (diss.filt)		Q1		5		<1	μg/I	yes	TM152			
1.03	Wastewater/Sewer	Conner (diss filt)		01		30		20.8	ug/l	VAS	TM152			
215	wastewater/sewer					50		20.0	μ8/1	yes				
LP3	Wastewater/Sewer	Lead (diss.filt)		Q1		10		1.82	μg/l	yes	TM152			
LP3	Wastewater/Sewer	Manganese (diss.filt)		Q1		300		294	ug/l	yes	TM152			
1.02	Wastewater/Courses	Nickel (disc filt)		01		50		242	10/1	no (ir no piease enter	754152			
LPS	wastewater/sewer	Nickei (diss.nic)		QI		50		245	μg/I	details in comments	1101152			
LP3	Wastewater/Sewer	Phosphorus (diss.filt)		Q1				16000	μg/I		TM152			
LP3	Wastewater/Sewer	Zinc (diss.filt)		01		100		17.8	ug/l	ves	TM152			
102	Masteriate-/Course							-0.01	μ6/1	,	714400	1	1	
LP3	wastewater/Sewer	iviercury (diss.filt)		ųı		1		<0.01	μg/l	yes	11/1283			
LP3	Wastewater/Sewer	Chromium (tot.unfilt)		Q1		30		453	μg/l	no (ii no piease enter	TM191			
										no (if no please enter				Licence limit was
1.02	Wastewater/Sewer	Chlorida		01.02		2000		2090		details in comments	TM226			exceeded on: 02
LPS	wastewater/sewer	Chloride		Q1, Q2		2000		2000		details in comments	1101220			(2220
									mg/I	DOX)			↓ ↓	(2230 mg/l)
LP3	Wastewater/Sewer	Fluoride		Q1		5		37.1	mg/l	details in comments	TM226			
										no (if no please enter				
1.03	Wastewater/Sewer	Sulphate		01 02		200		353.95		details in comments	TM226			EQS was exceeded
21.5	mustemater, server	Suprate		Q1, Q1		200		333.33	mall	how	1111220			on: Q2 (692 mg/l)
									ilig/1	DOXJ				
LP3	Wastewater/Sewer	Total Oxidised Nitrogen as N		Q1, Q2				< 0.01	mg/l		TM226			
LP3	Wastewater/Sewer	Nitrate as N		01		1000		<0.2	mg/l	ves	TM226			
								0.00	1116/1	,				
LP3	Wastewater/Sewer	Phosphate as P		Q1		20		<0.92	mg/l	yes	TM226			
LP3	Wastewater/Sewer	Cyanide, Total		Q1		0.01		0.053	mg/l	no (ir no piease enter	TM227			
100	Martan 16	Calabum (altar Ella)		01						details in comments	714220			
LP3	wastewater/Sewer	Calcium (diss.filt)		ųı				114	mg/I		11/1228			
LP3	Wastewater/Sewer	Sodium (diss.filt)		Q1				1000	mg/l		TM228			
1.03	Wastewater/Sewer	Magnesium (diss filt)		01				54.4	mall		TM228			
LFJ	wastewater/Jewer	Wagnesium (uiss.int)		QI				54.4	mg/i		1111220			
LP3	Wastewater/Sewer	Potassium (diss.filt)		Q1				309	mg/l		TM228			
LP3	Wastewater/Sewer	Iron (diss.filt)		Q1		1		0.979	mg/l	yes	TM228			
102	Wastowator/Courses			01		6.0		7.025		1000	TMADEG			
LPS	wastewater/sewer	рн		QI		0-9		7.955	pH Units	yes	1101250			
LP6	Wastewater/Sewer	Total Suspended Solids		Q1		300		32	mg/l	yes	TM022			
1.6	Wastewater/Sewer	BOD, unfiltered		01		250		110	mg/l	VPS	TM045			
210	waste water, sewer	bob, dimitered		d,		250		110	ilig/1	no tir no please enter	1111045			
LP6	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q1		5		1320	mg/l	details in comments	TM099			
LP6	Wastewater/Sewer	COD, unfiltered		Q1		750		2400	mg/l	no (ir no piease enter	TM107			
1.06	Wastowator/Courses	Conductivity at 2000		01		1		12		rio (in horpicesserenter	TM120			
LPO	wastewater/sewer	Conductivity at 20*C		ųι		1		15	m5/cm	details in commonts	1101120	4		
LP6	Wastewater/Sewer	Boron (diss.filt)		Q1		2000		6580	μg/l	dotails in commonts	TM152			
1.6	Wastewater/Sewer	Cadmium (diss.filt)		01		5		<1	ug/l	VPS	TM152			
									μ6/1	,				
LP6	Wastewater/Sewer	Copper (diss.filt)		Q1		30		<8.5	μg/l	yes	TM152			
LP6	Wastewater/Sewer	Lead (diss.filt)		Q1		10		3.21	με/Ι	yes	TM152			
1.06	Wastewater/Server	Mangapose (diss file)	l – – – – – – – – – – – – – – – – – – –	01		200		549		no (ir no piease enter	TM152			
LPD	wastewater/sewer	wanganese (uiss.illt)		ųı		500		340	μg/I	details incomposite	1101132		<u> </u>	
LP6	Wastewater/Sewer	Nickel (diss.filt)		Q1		50		170	μg/l	details in commonts	TM152			
LP6	Wastewater/Sewer	Phosphorus (diss.filt)		01				10800	119/1		TM152			
	Masteria: 10					4.00			μ6/ I	no (ir no piease enter			<u> </u> − − +	
LP6	wastewater/Sewer	Zinc (diss.filt)		ų1		100		116	μg/l	details in comments	11/152			
LP6	Wastewater/Sewer	Mercury (diss.filt)		Q1		1		<0.01	μg/l	yes	TM183			. 1
196	Wastewater/Sewor	Chromium (tot unfilt)		01		30		299	. 0.	no (ir no piease enter	TM191			
LFU	wastewater/sewer	ciromum (totamilt)		ų.		50		233	μg/i	details in comments	TIVITST		<u> </u>	
LP6	Wastewater/Sewer	Chloride		Q1		2000		1230	mg/l	yes	TM226			
LP6	Wastewater/Sewer	Fluoride		Q1		5		2.97	mg/l	yes	TM226			
I DC	Wastewater/Course	Sulphoto		01		200		263		no (il no piease enter	TM226			
LPO	wastewater/sewer	Sulphate		ųı		200		202	mg/I	details in comments	1101220	4	1	
LP6	Wastewater/Sewer	Total Oxidised Nitrogen as N		Q1				<0.01	mg/l		TM226		1	.
1 pc	Wastewater/Source	Nitrate as N		01		1000		<0.1	er = //	Voc	TM226			
LFU		NILLACE OF IN		41		1000		~0.1	mg/i	yes	1111220		<u> </u>	
LP6	Wastewater/Sewer	Phosphate as P		Q1		20		<0.46	mg/l	yes	TM226			
LP6	Wastewater/Sewer	Cyanide, Total		Q1		0.01		< 0.05	mg/l	yes	TM227			
I DC	Wastewater/Source	Calcium (disc file)	-	01				OF F			TM220			
LI'Ü	wastewater/Sewer	Calcium (diss.fiit)		ųI	1			6.56	mg/l		111/228		<u> </u>	
LP6	Wastewater/Sewer	Sodium (diss.filt)		Q1				1340	mg/l		TM228			.
LP6	Wastewater/Sewer	Magnesium (diss filt)		01				44.3	mg/l		TM228			
			L						116/1			<u> </u>	<u> </u>	
LP6	wastewater/Sewer	Potassium (diss.filt)		ų1				373	mg/l		11/228			
LP6	Wastewater/Sewer	Iron (diss.filt)		Q1		1		0.528	mg/l	yes	TM228			
I DC	Wastewater/Source	لام	-	01		6.0		7.01		Vec	TMORE			
LI'Ü	wastewater/Sewer	рн		ųI	1	0-9		7.91	pH Units	yes	1101250			
LP7-Tank	Wastewater/Sewer	Total Suspended Solids		Q1, Q2		300		26	mg/l	yes	TM022			
LP7-Tank	Wastewater/Sewer	BOD, unfiltered		01.02		250		133	mg/l	Ves	TM045			
				~~, ~~	-				116/1	no (ir no piease enter			<u> </u> −−−+	
LP7-Tank	wastewater/Sewer	Organic Carbon, Total		Q1		300		1380	mg/l	details in comments	11/1090		1	

AER Monitoring ret	urns summary template-	WATER/WASTEWATER(SEWER)		Lic No:	W0081-04		Year	2014				_
LP7-Tank	Wastewater/Sewer	Ammoniacal Nitrogen as N	Q1, Q2	5		2015	mg/l	no (if no please enter details in comments box)	TM099		Licence lin exceeded measuring (1910 mį (2120	imit was d on both g dates: Q1 ng/l), Q2) mg/l)
LP7-Tank	Wastewater/Sewer	COD, unfiltered	Q1, Q2	750		4205	mg/l	no (if no please enter details in comments box)	TM107		Licence lir exceeded measuring (3960 mį (4450	imit was d on both g dates: Q1 ng/I), Q2 0 mg/I)
LP7-Tank	Wastewater/Sewer	Conductivity at 20°C	Q1, Q2	1		19.1	mS/cm	no (if no please enter details in comments box)	TM120		EQS was en on: Q2 (20.	exceeded).1 mS/cm]
LP7-Tank	Wastewater/Sewer	Boron (diss.filt)	Q1	2000		11200	μg/l	details in comments	TM152			-
LP7-Tank	Wastewater/Sewer	Cadmium (diss.filt)	Q1	5		<1	μg/l	yes	TM152			
LP7-Tank	Wastewater/Sewer	Copper (diss.filt)	Q1	30		<8.5	μg/l	yes	TM152			
LP7-Tank	Wastewater/Sewer	Lead (diss.filt)	Q1	10		2.43	μg/l	yes	TM152			
LP7-Tank	Wastewater/Sewer	Manganese (diss.filt)	Q1	300		405	μg/l	details in comments	TM152			
LP7-Tank	Wastewater/Sewer	Nickel (diss.filt)	Q1	50		246	μg/l	details in comments	TM152			
LP7-Tank	Wastewater/Sewer	Phosphorus (diss.filt)	Q1			16700	μg/l		TM152			
LP7-Tank	Wastewater/Sewer	Zinc (diss.filt)	Q1	100		30.4	μg/l	yes	TM152			
LP7-Tank	Wastewater/Sewer	Mercury (diss.filt)	Q1	1		<0.01	μg/l	yes	TM183			
LP7-Tank	Wastewater/Sewer	Chromium (tot.unfilt)	Q1	30		407	μg/l	details in comments	TM191			
LP7-Tank	Wastewater/Sewer	Chloride	Q1, Q2	2000		1995	mg/l	yes	TM226			
LP7-Tank	Wastewater/Sewer	Fluoride	Q1	5		5.32	mg/l	details in comments	TM226			
LP7-Tank	Wastewater/Sewer	Sulphate	Q1, Q2	200		202	mg/l	no (if no please enter details in comments box)	TM226		EQS was es on: Q2 (2!	exceeded 255 mg/l)
LP7-Tank	Wastewater/Sewer	Total Oxidised Nitrogen as N	Q1, Q2			0.315	mg/l		TM226			
LP7-Tank	Wastewater/Sewer	Nitrate as N	Q1	1000		<0.2	mg/l	yes	TM226			
LP7-Tank	Wastewater/Sewer	Phosphate as P	Q1	20		<0.92	mg/l	yes	TM226			
LP7-Tank	Wastewater/Sewer	Cyanide, Total	Q1	0.01		0.057	mg/l	no (it no please enter details in comments	TM227			

AER Monitoring retu	urns summary template-V	VATER/WASTEWATER(SEWER)			Lic No:	W0081-04		Year	2014				
LP7-Tank	Wastewater/Sewer	Calcium (diss.filt)		Q1			53.5	mg/l		TM228			
LP7-Tank	Wastewater/Sewer	Sodium (diss.filt)		Q1			2120	mg/l		TM228			
LP7-Tank	Wastewater/Sewer	Magnesium (diss.filt)		Q1			56.5	mg/l		TM228			
LP7-Tank	Wastewater/Sewer	Potassium (diss.filt)		Q1			735	mg/l		TM228			
LP7-Tank	Wastewater/Sewer	Iron (diss.filt)		Q1	1		1.2	mg/l	no (ir no piease enter	TM228			
LP7-Tank	Wastewater/Sewer	pН		Q1, Q2	6-9		7.98	pH Units	yes	TM256			
Final Permate	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q3	5		8.75	mg/l	no (ir no piease enter	TM099			
Final Permate	Wastewater/Sewer	pH		Q3	6-9		6.82	pH Units	yes	TM256			
RO1 Concentrate	Wastewater/Sewer	Total Suspended Solids		Q1, Q3	300		51.8	mg/l	yes	TM022			
RO1 Concentrate	Wastewater/Sewer	BOD, unfiltered		Q1, Q3	250		368.5	mg/l	no (if no please enter details in comments box)	TM045			Licence limit was exceeded on both measuring dates: Q1 (357 mg/l), Q3 (380 mg/l)
RO1 Concentrate	Wastewater/Sewer	Organic Carbon, Total		Q1	300		4120	mg/l	no (ir no piease enter details in comments	TM090			
RO1 Concentrate	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q1, Q3	5		5445	mg/l		TM099			
RO1 Concentrate	Wastewater/Sewer	COD, unfiltered		Q1, Q3	750		12370	mg/l	no (if no please enter details in comments box)	TM107			Licence limit was exceeded on both measuring dates: Q1 (14800 mg/l), Q3 (9940 mg/l)
RO1 Concentrate	Wastewater/Sewer	Conductivity at 20°C		Q1, Q3	1		46.4	mS/cm	no (if no please enter details in comments box)	TM120			EQS was exceeded on both measuring dates: Q1 (50.6 mS/cm), Q3 (42.2 mS/cm)
RO1 Concentrate	Wastewater/Sewer	Chloride		Q1, Q3	2000		5280	mg/l	no (if no please enter details in comments box)	TM184, TM226			Licence limit was exceeded on both measuring dates: Q: (5800 mg/l), Q3 (4760 mg/l)
RO1 Concentrate	Wastewater/Sewer	Nitrate as N		Q1, Q3	1000		<1	mg/l	yes	TM184, TM226			
RO1 Concentrate	Wastewater/Sewer	Phosphate (ortho) as P		Q1, Q3	20		37.85	me/l	no (if no please enter details in comments box)	TM184, TM226			Licence limit was exceeded on both measuring dates: Q1 (37.2 mg/l), Q3 (38.5 mg/l)
RO1 Concentrate	Wastewater/Sewer	Methane, dissolved		Q1, Q3			1.7	ug/l		TM223			
RO1 Concentrate	Wastewater/Sewer	pH		Q1, Q3	6-9		7.705	pH Units	yes	TM256			
RO1 Permate	Wastewater/Sewer	Total Suspended Solids		01.03	300		<2	mg/l	ves	TM022			
RO1 Permate	Wastewater/Sewer	BOD, unfiltered		Q1, Q3	250		6.77	mg/l	yes	TM045			
RO1 Permate	Wastewater/Sewer	Organic Carbon, Total		01	300		<15	mg/l	ves	TM090			
RO1 Permate	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q1, Q3	5		9.715	mg/l	no (if no please enter details in comments box)	TM099			Licence limit was exceeded on both measuring dates: Q3 (8.33 mg/l), Q3 (11.1 mg/l)
RO1 Permate	Wastewater/Sewer	COD, unfiltered		Q1, Q3	750		<7	mg/l	yes	TM107			
RO1 Permate	Wastewater/Sewer	Conductivity at 20°C		Q1, Q3	1		0.8955	mS/cm	yes	TM120			
RO1 Permate	Wastewater/Sewer	Chloride		Q1, Q3	2000		3.7	mg/l	yes	TM184			
RO1 Permate	Wastewater/Sewer	Nitrate as N		Q1, Q3	1000		<0.0677	mg/l	yes	TM184			
RO1 Permate	Wastewater/Sewer	Phosphate (ortho) as P		Q1, Q3	20		<0.02	mg/l	yes	TM184			
RO1 Permate	Wastewater/Sewer	Methane, dissolved		Q1			12.4	μg/I		TM223			
RO1 Permate	Wastewater/Sewer	рН		Q1, Q3	6-9		6.52	pH Units	yes	TM256			
RO2 Concentrate	Wastewater/Sewer	Total Suspended Solids		Q3	300		22.7	mg/l	yes	TM022			
RO2 Concentrate	Wastewater/Sewer	BOD, unfiltered		Q3	250		430	mg/l	no (ir no piease enter details in commonts	TM045			
RO2 Concentrate	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q3	5		5720	mg/l	details in comments	TM099			
RO2 Concentrate	Wastewater/Sewer	COD, unfiltered		Q3	750		12200	mg/l	details in comments.	TM107			
RO2 Concentrate	Wastewater/Sewer	Conductivity at 20°C		Q3	1		46.6	mS/cm	details in commants	TM120			
RO2 Concentrate	Wastewater/Sewer	Chloride		Q3	2000		5630	mg/l	details in comments	TM184			
RO2 Concentrate	Wastewater/Sewer	Nitrate as N		Q3	1000		<1.35	mg/l	yes	TM184			
RO2 Concentrate	Wastewater/Sewer	Phosphate (ortho) as P		Q3	20		59.6	mg/l	details in comments	TM184			1
RO2 Concentrate	Wastewater/Sewer	рН		Q3	6-9		7.77	pH Units	yes	TM256			
RO2 Permate	Wastewater/Sewer	Total Suspended Solids		Q3	300		<2	mg/l	yes	TM022			+
RO2 Permate	Wastewater/Sewer	BOD, unfiltered		Q3	 250		<1	mg/l	yes	TM045			
RO2 Permate	Wastewater/Sewer	Ammoniacal Nitrogen as N		Q3	5		8.27	mg/l	details in comments	TM099			+
RO2 Permate	Wastewater/Sewer	COD, unfiltered		Q3	750		<7	mg/l	yes	TM107	 		+
RO2 Permate	Wastewater/Sewer	Conductivity at 20°C		Q3	1		1.24	mS/cm	details in comments	TM120			+
RO2 Permate	Wastewater/Sewer	Chloride		Q3	 2000		<2	mg/l	yes	TM184			
RO2 Permate	Wastewater/Sewer	Nitrate as N		Q3	1000		<0.0677	mg/I	yes	TM184			+
RO2 Permate	Wastewater/Sewer	Phosphate (ortho) as P		Q3	20		<0.02	mg/l	yes	TM184			+
RO2 Permate	Wastewater/Sewer	рН		Q3	6-9		6.77	pH Units	yes	TM256			1

Note 1: Volumetric flow shall be included as a reportable parameter Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No: W0081-04	Year	2014
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SELECT

Continuous monitoring

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

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below SELECT SELECT SELECT

Additional Information

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site? 8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0081-04		Year	2014	
Bund testing drandown many click to see antions			Additional information			-
Bund testing aropadwin menu cick to see options			Additional Information	Т		
Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below	w listing all new bunds					
and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including n	nobile bunds must be					
listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)		SELECT				
2 Please provide integrity testing frequency period		SELECT				
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (contai	iners refers to			T		
3 "Chemstore" type units and mobile bunds)		SELECT				
4 How many bunds are on site?				T		
5 How many of these bunds have been tested within the required test schedule?				T		
6 How many mobile bunds are on site?				T		
7 Are the mobile bunds included in the bund test schedule?		SELECT		T		
8 How many of these mobile bunds have been tested within the required test schedule?				T		
9 How many sumps on site are included in the integrity test schedule?				T		
10 How many of these sumps are integrity tested within the test schedule?				I		
Please list any sump integrity failures in table B1						
11 Do all sumps and chambers have high level liquid alarms?		SELECT		T		
12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?		SELECT		I		
13 Is the Fire Water Retention Pond included in your integrity test programme?		SELECT		T		

	Tabl	le B1: Summary details of	f bund /containment structure in	tegrity test											
Bund/Co structure	ontainment e ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year
		SELECT					SELECT			SELECT	SELECT		SELECT		
		SELECT					SELECT			SELECT	SELECT		SELECT		
* Capacity re Has integ	equired should complexity testing be	ly with 25% or 110% containment r een carried out in accord	ule as detailed in your licence ance with licence requirements a	nd are all structures tested				Commentary	ſ						
15 in line wi	vith BS8007/EP	A Guidance?	-		bunding and storage guide	alines	SELECT								
16 Are chan	nnels/transfer s	systems to remote contai	inment systems tested?				SELECT		ĺ						
17 Are char	nnels/transfer	systems compliant in bot	th integrity and available volume	?			SELECT								

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? If yes please fill out table 2 below listing 1 all underground structures and pipelines on site which failed the integrity test and all which have not been tested withing the integrity test period as specified 2 Please provide integrity testing frequency period *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

SELECT

Tab	le B2: Summary details of p	ipeline/underground structures in	ntegrity test]							
Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

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2014

Comments ¹ Are you required to carry out groundwater monitoring as part of your licence requirements? Please provide an interpretation of groundwater monitoring data in the yes 2 Are you required to carry out soil monitoring as part of your licence requirements? no interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an 3 Do you extract groundwater for use on site? If yes please specify use in comment section no additional section in this AER Do monitoring results show that groundwater generic assessment criteria such as Groundwater 4 GTVs or IGVs are exceeded or is there an upward trend in results for a substance? monitoring If yes, please complete the Groundwater Monitoring Guideline Template Report template no 5 Is the contamination related to operations at the facility (either current and/or historic) SELECT 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site SELECT 7 Please specify the proposed time frame for the remediation strategy SELECT 8 Is there a licence condition to carry out/update ELRA for the site? SELECT 9 Has any type of risk assesment been carried out for the site? SELECT 10 Has a Conceptual Site Model been developed for the site? SELECT 11 Have potential receptors been identified on and off site? SELECT SELECT 12 Is there evidence that contamination is migrating offsite? Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

										Upward trend in
	C									pollutant
D .1	Sample									concentration
Date of	location			Nonitoring	Maximum	Average				over last 5 years
sampling	reference	Parameter/ Substance	Methodology	frequency	Concentration++	Concentration+	Unit	GTV's*	IGV	of monitoring data
quarterly	BH-11D	Dissolved Arsenic	TM30/PM14	quarterly	2.9	<2.5	ug/l	7.5	10	SELECT
quarterly	BH-11D	Dissolved Barium	TM30/PM14	quarterly	52	50.5	ug/l		100	
quarterly	BH-11D	Dissolved Boron	TM30/PM14	quarterly	12	<12	ug/l	750		
quarterly	BH-11D	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly	BH-11D	Dissolved Calcium	TM30/PM14	quarterly	137.5	133.925	mg/l	200		
quarterly	BH-11D	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30	
quarterly	BH-11D	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly	BH-11D	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200	
quarterly	BH-11D	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10	
quarterly	BH-11D	Dissolved Magnesium	TM30/PM14	quarterly	17.5	17	mg/l		50	
quarterly	BH-11D	Dissolved Manganese	TM30/PM14	quarterly	<2	<2	ug/l		50	
quarterly	BH-11D	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly	BH-11D	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15		
quarterly	BH-11D	Dissolved Phosphorus	TM30/PM14	quarterly	18	13.75	ug/l			
quarterly	BH-11D	Dissolved Potassium	TM30/PM14	quarterly	1.1	0.95	mg/l		5	
quarterly	BH-11D	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l			
quarterly	BH-11D	Dissolved Sodium	TM30/PM14	quarterly	8.3	8.2	mg/l	150		
quarterly	BH-11D	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l		100	
quarterly	BH-11D	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	BH-11D	Fluoride	TM27/PM0	quarterly	<0.3	<0.3	mg/l		1	
quarterly	BH-11D	Sulphate	TM38/PM0	quarterly	11.22	10.565	mg/l	187.5		
quarterly	BH-11D	Chloride	TM38/PM0	quarterly	12.3	11.575	mg/l	187.5		

Groundwater/Soil mon	itoring template			Lic No:	W0081-04		Year	2014	
quarterly BH-11D	Nitrate as NO3	TM38/PM0	quarterly	17.1	12.5075	mg/l	37.5		
quarterly BH-11D	Nitrite as NO2	TM38/PM0	quarterly	3.77	< 0.02	mg/l	0.375		
quarterly BH-11D	Ortho Phosphate as PO4	TM38/PM0	quarterly	< 0.06	<0.06	mg/l		0.03	
quarterly BH-11D	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	0.05	0.03	mg/l	0.065-0.175	0.15	
quarterly BH-11D	Total Alkalinity as CaCO3	TM75/PM0	quarterly	424	388.5	mg/l		NAC	t in the second se
quarterly BH-11D	Dissolved Oxygen	TM59/PM0	quarterly	8	6.75	mg/l			
quarterly BH-11D	Electrical Conductivity	TM76/PM0	quarterly	744	721.5	uS/cm	800-1,875	1000	
quarterly BH-11D	Total Organic Carbon	TM60/PM0	quarterly	6	<2	mg/l			
monthly KTK16	Dissolved Arsenic	TM30/PM14	monthly	22.2	6.16875	ug/l	7.5	10	
monthly KTK16	Dissolved Barium	TM30/PM14	monthly	445	425.375	ug/l		100	
monthly KTK16	Dissolved Boron	TM30/PM14	monthly	924	883.75	ug/l	750		
monthly KTK16	Dissolved Cadmium	TM30/PM14	monthly	<0.5	<0.5	ug/l	5		
monthly KTK16	Dissolved Calcium	TM30/PM14	monthly	80.1	69.275	mg/l	200		
monthly KTK16	Total Dissolved Chromium	TM30/PM14	monthly	3.7	3.15	ug/l	37.5	30	
monthly KTK16	Dissolved Copper	TM30/PM14	monthly	8	<7	ug/l	1500	30	
monthly KTK16	Total Dissolved Iron	TM30/PM14	monthly	97	62.875	ug/l		200	
monthly KTK16	Dissolved Lead	TM30/PM14	monthly	<5	<5	ug/l	18.75	10	
monthly KTK16	Dissolved Magnesium	TM30/PM14	monthly	26.3	24 3875	mg/l		50	
monthly KTK16	Dissolved Manganese	TM30/PM14	monthly	130	108.75	ug/l	+ +	50	
monthly KTK16	Dissolved Mercury	TM30/PM14	monthly	2	<1	ug/l	1	1	
monthly KTK16	Dissolved Nickel	TM30/PM14	monthly	84	78 375	ug/l	15		
monthly KTK16	Dissolved Phosphorus	TM30/PM14	monthly	49	37	ug/l			
monthly KTK16	Dissolved Potassium	TM30/PM14	monthly	105.1	95.8	mg/l	1 1	5	
monthly KTK16	Dissolved Selenium	TM30/PM14	monthly	<3	<3	ug/l	+	5	
monthly KTK16	Dissolved Sodium	TM30/PM14	monthly	297	274 75	mg/l	150		
monthly KTK16	Dissolved Zinc	TM30/PM14	monthly	12	7 375	ug/l		100	
monthly KTK16	Total Phenols HPLC	TM26/PM0	monthly	<0.1	<0.1	mg/l	+	0.5	
monthly KTK16	Fluoride	TM27/PM0	monthly	<0.1	<0.1	mg/l	+ +	1	
monthly KTK16	Sulphate	TM38/PM0	monthly	7 46	1 004375	mg/l	187 5		
monthly KTK16	Chloride	TM38/PM0	monthly	254 5	247 4125	mg/l	187.5		
monthly KTK16	Nitrate as NO3	TM38/PM0	monthly	116.4	37 34125	mg/l	37.5		
monthly KTK16	Nitrite as NO2	TM38/PM0	monthly	3.07	0 57375	mg/l	0 375		
monthly KTK16	Ortho Phosphate as PO4	TM38/PM0	monthly	0.56	<0.06	mg/l	0.373	0.03	
monthly KTK16	Ammoniacal Nitrogen as N	TM38/PM0	monthly	189.43	176 90875	mg/l	0.065-0.175	0.05	
monthly KTK16	Total Alkalinity as CaCO3	TM75/PM0	monthly	1266	1101	mg/l	0.003 0.173	NAC	
monthly KTK16	Dissolved Oxygen	TM59/PM0	monthly	9	6 75	mg/l	+ +	INAC	
monthly KTK16	Electrical Conductivity	TM76/PM0	monthly	3252	3070 125	uS/cm	800-1 875	1000	
monthly KTK16	Total Organic Carbon	TM60/PM0	monthly	45	31.5	mg/l	000 1,073	1000	
quarterly KTK15D	Dissolved Arsenic	TM30/PM14	quarterly	4	<2.5		7.5	10	
quarterly KTK15D	Dissolved Barium	TM30/PM14	quarterly	246	211 75	ug/l	,	100	
quarterly KTK15D	Dissolved Boron	TM30/PM14	quarterly	68	61	ug/l	750	100	
quarterly KTK15D	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly KTK15D	Dissolved Calcium	TM30/PM14	quarterly	339.8	313.85	mg/l	200		
quarterly KTK15D	Total Dissolved Chromium	TM30/PM14	quarterly	<1 5	<1 5	ug/l	375	30	
quarterly KTK15D	Dissolved Conner	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly KTK15D	Total Dissolved Iron	TM30/PM14	quarterly	22	<20	ug/l	1300	200	
quarterly KTK15D	Dissolved Lead	TM30/PM14	quarterly		~5	ug/l	18 75	10	
quarterly KTK15D	Dissolved Magnesium	TM30/PM14	quarterly	32	31.6	mg/l	10.75	50	
quarterly KTK15D	Dissolved Manganese	TM30/PM14	quarterly	1/26	8/3 5		+	50	
quarterly KTK15D	Dissolved Mercury	TM30/PM14	quarterly	<<<<<	643.J	ug/l	+ +	1	
quarterly KTK15D	Dissolved Nickel	TM30/PM14	quarterly	21	13 75		15		
quarterry KINIDD	DISSUIVED INICKEI	110130/110114	quarteriy	21	13.75	ug/1	12		

Groundwa	ater/Soil monit	oring template			Lic No:	W0081-04		Year	2014	ļ	
quarterly	KTK15D	Dissolved Phosphorus	TM30/PM14	quarterly	831	221.75	ug/l				
quarterly	KTK15D	Dissolved Potassium	TM30/PM14	quarterly	32.4	30.85	mg/l		5		1
quarterly	KTK15D	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l				1
quarterly	KTK15D	Dissolved Sodium	TM30/PM14	quarterly	20.6	19.95	mg/l	150			1
quarterly	KTK15D	Dissolved Zinc	TM30/PM14	quarterly	92	33.75	ug/l		100		1
quarterly	KTK15D	Total Phenols HPLC	TM26/PM0	quarterly	0.2	<0.1	mg/l		0.5		1
quarterly	KTK15D	Fluoride	TM27/PM0	quarterly	<0.3	<0.3	mg/l		1		1
quarterly	KTK15D	Sulphate	TM38/PM0	quarterly	111.65	91.7025	mg/l	187.5			1
quarterly	KTK15D	Chloride	TM38/PM0	quarterly	48.6	40.575	mg/l	187.5			1
quarterly	KTK15D	Nitrate as NO3	TM38/PM0	quarterly	15.1	9.3325	mg/l	37.5			1
quarterly	KTK15D	Nitrite as NO2	TM38/PM0	quarterly	4.03	1.38	mg/l	0.375			1
quarterly	KTK15D	Ortho Phosphate as PO4	TM38/PM0	quarterly	2.53	<0.06	mg/l		0.03		1
quarterly	KTK15D	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	4.37	1.125	mg/l	0.065-0.175	0.15		1
quarterly	KTK15D	Total Alkalinity as CaCO3	TM75/PM0	quarterly	832	745	mg/l		NAC		1
quarterly	KTK15D	Dissolved Oxygen	TM59/PM0	quarterly	8	6.5	mg/l				l
quarterly	KTK15D	Electrical Conductivity	TM76/PM0	quarterly	1606	1498.25	uS/cm	800-1,875	1000		1
quarterly	KTK15D	Total Organic Carbon	TM60/PM0	quarterly	6	3.25	mg/l			SELECT	1

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

										Upward trend in yearly average pollutant
	Sample									concentration
Date of	location			Monitoring	Maximum	Average				over last 5 years
sampling	reference	Parameter/ Substance	Methodology	frequency	Concentration	Concentration	Unit	GTV's*	IGV	of monitoring data
quarterly	97-4D	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/l	7.5	10	
quarterly	97-4D	Dissolved Barium	TM30/PM14	quarterly	36	29.25	ug/l		100	
quarterly	97-4D	Dissolved Boron	TM30/PM14	quarterly	18	12.5	ug/l	750		
quarterly	97-4D	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly	97-4D	Dissolved Calcium	TM30/PM14	quarterly	119.3	107.925	mg/l	200		
quarterly	97-4D	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30	
quarterly	97-4D	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly	97-4D	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200	
quarterly	97-4D	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10	
quarterly	97-4D	Dissolved Magnesium	TM30/PM14	quarterly	6.5	5.55	mg/l		50	
quarterly	97-4D	Dissolved Manganese	TM30/PM14	quarterly	6	<2	ug/l		50	
quarterly	97-4D	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly	97-4D	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15		
quarterly	97-4D	Dissolved Phosphorus	TM30/PM14	quarterly	8	4.75	ug/l			
quarterly	97-4D	Dissolved Potassium	TM30/PM14	quarterly	0.2	<0.1	mg/l		5	
quarterly	97-4D	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l			
quarterly	97-4D	Dissolved Sodium	TM30/PM14	quarterly	3.2	2.425	mg/l	150		
quarterly	97-4D	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l		100	
quarterly	97-4D	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	97-4D	Fluoride	TM27/PM0	quarterly	<0.3	<0.3	mg/l		1	
quarterly	97-4D	Sulphate	TM38/PM0	quarterly	6.21	4.25	mg/l	187.5		
quarterly	97-4D	Chloride	TM38/PM0	quarterly	6.5	4.925	mg/l	187.5		
quarterly	97-4D	Nitrate as NO3	TM38/PM0	quarterly	6.6	2.9825	mg/l	37.5		
quarterly	97-4D	Nitrite as NO2	TM38/PM0	quarterly	1.73	<0.02	mg/l	0.375		

Instruct 97-40 Princip Modulate ap.04 PMS/PMO gusteriny -0.05 Print 0.05 Print Quarteriny 97-40 Rend Morean AM NASC NASC NASC Quarteriny 97-40 Text Alkalishing on AM NasC NasC NasC Quarteriny 97-40 Deck Morean AM NasC NasC NasC NasC Quarteriny 97-50 Deck Morean AM NasC	Groundwa	ter/Soil monite	oring template			Lic No:	W0081-04		Year	2014	
spartery 97-40 memorian Netrogen als TMS/PMO partery 0.65 0.025 pg/p 0.051 0.15 guartery 97-40 TSR/MARMIN SG CGG TMS/PMO partery 98 rg/p NAC guartery 97-40 TSR/MARMIN SG CGG TMS/PMO partery 98 Korn BOL 287 1000 Quartery 97-40 Textin Conductivity TMS/PMO Quartery 6 -2 rg/p/1 - - Quartery 97-30 Excention Conductivity TMS/PMO Quartery 6 -2 rg/p/1 -7 10 Total Markan TMS/PMM Markan TMS/PMM Markan 105 -0 -7 200 - - Total Markan TMS/PMM Markan TMS/PMM Markan 105.17 TMR/PM Markan -0	quarterly	97-4D	Ortho Phosphate as PO4	TM38/PM0	quarterly	<0.06	<0.06	mg/l		0.03	
particle 974D Tota: Atalanty: a (acc) ThO: First 346 286.5 rg/n 0000 34.6 Darretiv 974D Bisker May Stress 1000 1000 1000 Darretiv 974D Betrical Conductivity ThUT/F/MM particity 6 4.2 1000 1000 Darretiv 974D Betrical Conductivity ThUT/F/MM particity 974D 1000 1000 monthly 973D Biskewed Actemic ThUS/FMM northly 973D 1000 1000 monthly 973D Biskewed Borin ThUS/FMM 1000 1000 1000 monthly 973D Biskewed Borin ThUS/FMM 1000 1000 1000 1000 monthly 973D Biskewed Borin ThUS/FMM 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 <	quarterly	97-4D	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	0.03	0.0225	mg/l	0.065-0.175	0.05	
partny 9740 Baselynd Dorgen TMS/PMD partny 9. 8 99. 70 1000 Burtny 9740 Besched Dorgen TMS/PMD gaartny 6.3 2 92. 75. 100 Burtny 9740 Teal Organic Cathon TMS/PMD gaartny 6.3 2 92. 75. 10 Bonthy 9730 Boscoled Barlian TMS/PMD gaartny 4.8 92.2 4.2 92.0 100 100 Boscoled Barlian TMS/PMD gaartny 4.9 2.0 4.0 7.50 100 </td <td>quarterly</td> <td>97-4D</td> <td>Total Alkalinity as CaCO3</td> <td>TM75/PM0</td> <td>quarterly</td> <td>346</td> <td>288.5</td> <td>mg/l</td> <td>0.000 011/0</td> <td>NAC</td> <td></td>	quarterly	97-4D	Total Alkalinity as CaCO3	TM75/PM0	quarterly	346	288.5	mg/l	0.000 011/0	NAC	
purrety 97-40 Flextmail Conductivity TMX/PM0 purrety 983 997.3 sSc(m) 800.1.875 1000 purrety 97-40 Teal Congust Cathon TM40/PM0 nutrety 6 -2 mg/l 100 monthy 97-30 Disolved Assence TM40/PM1 nothly 5.2 -2.3 ag/l 100 monthy 97-30 Disolved Assence TM40/PM14 nothly 148 96.625 ag/l 730 100 monthy 97-30 Disolved Construm TM40/PM14 nothly 1.4 4.4 96.625 ag/l 30 30 monthy 97-30 Disolved Construm TM40/PM14 nothly -4.0 4g/l 1.00 1.00 1.00 30 30 nothly 97-30 Disolved Construm TM40/PM14 nothly -4.0 4g/l 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	quarterly	97-4D	Dissolved Oxygen	TM59/PM0	quarterly	9	8	mg/l		1010	
partity 97-40 Total Organic Carbon 1M60/PM01 Controls 5.2 -0.2 mph 20.000 1000 northly 97-30 Discobed Barium TM50/PM11 northly 132 ug1 1.0 100 northly 97-30 Discobed Barium TM50/PM11 northly 144 99.625 ug1 5 1.0 northly 97-30 Discobed Calmum TM50/PM11 northly 1.0 5 1.0 northly 97-30 Discobed Calmum TM50/PM14 northly 1.0 2.0 0 1.0	quarterly	97-4D	Electrical Conductivity	TM76/PM0	quarterly	593	537.5	us/cm	800-1 875	1000	
nonthy 97-50 Dissolved Avenue TMA0/PM14 menthy 5.2 4.2.5 sg/l 7.5 10 monthy 97-50 Dissolved Barum TMA0/PM14 monthy 4.4.8 99.625 sg/l 7.6 100 monthy 97-50 Dissolved Calcium TMA0/PM14 monthy 4.0.5 4.0.5 yg/l 2.5 4.0.5 monthy 97-50 Dissolved Calcium TMA0/PM14 monthy 4.0.5 4.0.5 yg/l 2.00	quarterly	97-4D	Total Organic Carbon	TM60/PM0	quarterly	6	<2	mg/l	000 1,075	1000	
northy 97-50 Disolved Barlum TMA0/PM44 monthy 128 gg/l 70 100 northy 97-50 Disolved Cadmium TMA0/PM44 monthy 40.5 gg/l 5 gg/l 5 northy 97-50 Disolved Cadmium TMA0/PM44 monthy 40.5 gg/l 37.5 30 northy 97-50 Disolved Copen TMA0/PM44 monthy 41.5 41.7 gg/l 37.5 30 monthy 97-50 Disolved Copen TMA0/PM44 monthy 42.0 40.0 42.0 40.0 42.0 40.0 42.0 42.0 40.0 42.0 42.0 <	monthly	97-5D	Dissolved Arsenic	TM30/PM14	monthly	5.2	<2.5	g/l	7.5	10	
nonthy 97-50 Dissolved Boron. TMA0/PM14 monthy 144 98-255 g_{1}^{0} 700 100 nonthy 97-30 Dissolved Calcium TMA0/PM14 monthy 10.5 92.1 97.0 10.0 nonthy 97-50 Dissolved Calcium TMA0/PM14 monthy 15.1 10.7 17.0 12.0 10.0 nonthy 97.50 Total Dissolved Consum TMA0/PM14 monthy 47.1 47.0 ugI 15.00 30 nonthy 97.50 Total Dissolved Iron TMA0/PM14 monthy 42.0 ugI 200 200 nonthy 97.50 Total Dissolved Marginities TMA0/PM14 monthy 42.0 ugI 18.7 10	monthly	97-5D	Dissolved Arsenie	TM30/PM14	monthly	191	125	ug/l	7.5	100	
southly 97-50 Issuebed Calchum TM3//ML1 monthly 97-50 second Calchum	monthly	97-5D	Dissolved Boron	TM30/PM14	monthly	148	99.625	ug/l	750	100	
membra 97.50 Systemed Containing TM30/PML4 (monthly) 103.6 151.17.5 wg/l 200 membra northly 97.50 Total Disobard Cronpiner TM30/PML4 (monthly) <17	monthly	97-50	Dissolved Cadmium	TM30/PM14	monthly	<05	<0.5	ug/l	5		
monthly 9750 Total Engoleved Charmian Total Property Total StayPhila northly 47.5 40.7	monthly	97-5D	Dissolved Calcium	TM30/PM14	monthly	163.6	151 175	mg/l	200		
sentity 9750 Discolved Cogor Mannel TM30/PM14 monthy -7 <td>monthly</td> <td>97-50</td> <td>Total Dissolved Chromium</td> <td>TM30/PM14</td> <td>monthly</td> <td><1 5</td> <td><15</td> <td>ug/l</td> <td>275</td> <td>30</td> <td></td>	monthly	97-50	Total Dissolved Chromium	TM30/PM14	monthly	<1 5	<15	ug/l	275	30	
International 2.5 bit Distance Comparing Comparin	monthly	97-50	Dissolved Coppor	TM30/PM14	monthly	<1.5	<1.5	ug/l	1500	30	
International Construction This (or math international model) Sec or light Loss Loss monthile 97-50 Discolated Magnanes This (or math international model) 10.1 17.5.2 ing/1 18.7.5 10 monthile 97-50 Discolated Magnanes This (or math international model) 10.1 17.5.2 ing/1 50 monthile 97-50 Discolated Magnanes This (or math international model) 10.1 10.1 monthile 97-50 Discolated Plassburgues This (or math international model) 11.1 10.1 monthile 97-50 Discolated Plassburgues This (or math international model) 11.1 10.1 monthile 97-50 Discolated Plassburgues This (or math international model) 11.1 10.1 10.1 monthile 97-50 Discolated Plassburgues This (or math international model) 12.2 10.1 10.1 monthile 97-50 Discolated Plassburgues This (or math international model) 13.1 10.1 10.1 monthile<	monthly	97-50	Total Dissolved Iron	TM30/PM14	monthly	<20	<20	ug/l	1500	200	
International (1) 100 100 100 monthly 9750 Disolved Magnesium TM30/PM44 monthly 101 117525 mg/n 50 monthly 9750 Disolved Magnesium TM30/PM44 monthly 1061 013 ug/n 50 monthly 9750 Disolved Mercury TM30/PM44 monthly 7 3.5 ug/n 15 1 monthly 9750 Disolved Prosphorus TM30/PM44 monthly 7 3.5 ug/n 5 monthly 9750 Disolved Selenium TM30/PM44 monthly 4.4 3.0875 mg/n 5 monthly 9750 Disolved Selenium TM30/PM44 monthly 4.3 ug/n 100 monthly 9750 Disolved Selenium TM30/PM44 monthly 4.3 ug/n 100 monthly 9750 Disolved Zinc TM30/PM44 monthly 4.3 ug/n 1.5 monthly 9750 Tota	monthly	97-50	Dissolved Load	TM30/PM14	monthly	<20	<20	ug/l	10.75	200	
Description 27 - 20 Description Importing 12-1 12-12 <th12-12< th=""> 12-12 12-12<</th12-12<>	monthly		Dissolved Magnosium	TM20/DM14	monthly	10.1	17 525	mg/l	10./5	10	
monthy proceed managements monthy product product <thproduct< th=""> product product</thproduct<>	monthly	97-50	Dissolved Manganoso	TM30/PM14	monthly	19.1	610	ug/I	+ +	50	
Internal 97-50 Dissolved inckel Internal Internal Internal monthy 97-50 Dissolved Nickel TM30/PM14 monthy 21 12.25 lg/l I Image: Comparison of the	monthly	97-3D	Dissolved Mangariese	TN130/PN114	monthly	1001	019	ug/I		50	
International space International monthly 27 - 30 00/2 1.3 00/2 monthly 97-50 Dissolved Phosphorus TM30/PM14 monthly 2.1 12.25 ug/1 1 monthly 97-50 Dissolved Solved Phosphorus TM30/PM14 monthly 4.3 4.3 ug/1 1 monthly 97-50 Dissolved Solution TM30/PM14 monthly 6.3 ug/1 1 1 monthly 97-50 Dissolved Solution TM30/PM14 monthly 6.3 ug/1 1 100 monthly 97-50 Total Phonols MPLC TM30/PM14 monthly 0.2 <0.1	monthly	97-5D	Dissolved Mercury	TIVI30/PIVI14	monuniy	~1	~1	ug/1	15	1	
International monthly 37-30 Dissolved Potassium TM30/PM14 monthly 4.4 3.08/7 monthly 5 monthly 97-50 Dissolved Potassium TM30/PM14 monthly 4.4 3.08/7 monthly 5 monthly 97-50 Dissolved Selenium TM30/PM14 monthly 4.3 ug/l 100 monthly 97-50 Dissolved Zinc TM30/PM14 monthly 8.3 ug/l 100 monthly 97-50 Dissolved Zinc TM30/PM14 monthly 0.2 -0.1 mg/l 0.5 monthly 97-50 Fluoride TM32/PM0 monthly 0.2 -0.1 mg/l 187.5 monthly 97-50 Nitrite as NO2 TM32/PM0 monthly 163 <0.02	monthly	97-5D	Dissolved Nickel	TM30/PM14	monthly	/	3.5	ug/l	15		
monthy 97-50 Dissoved foressum TM30/PM14 monthy 4.4 3.08/5 mg/l 5 monthy 97-50 Dissoved Solution TM30/PM14 monthy 4.3 4.425 mg/l 100 monthy 97-50 Dissolved Zinc TM30/PM14 monthy 8.4 3 ug/l 100 monthy 97-50 Total Phenols HPLC TM26/PM04 monthy 0.3 mg/l 100 monthy 97-50 Sighate TM38/PM0 monthy 6.0.3 mg/l 187.5 monthy 97-50 Nitrate as N03 TM38/PM0 monthy 6.0.2 mg/l 37.5 monthy 97-50 Nitrate as N03 TM38/PM0 monthy 1.2.4 7.828571429 mg/l 37.5 monthy 97-50 Nitrate as N03 TM38/PM0 monthy 4.00 0.03 0.03 monthy 97-50 Ammoniacal Nitrogen as N TM38/PM0 monthy 4.25 mg/l 0.03	monthly	97-5D	Dissolved Phosphorus	TM30/PM14	monthly	21	12.25	ug/I			
monthy 97-50 Dissolved Selenium TM30/PM14 monthy <3 <3 ug/l 100 monthy 97-50 Dissolved Zinc TM30/PM14 monthy 85.3 44.925 mg/l 100 monthy 97-50 Dissolved Zinc TM30/PM14 monthy 0.2 <0.1	monthly	97-5D	Dissolved Potassium	TM30/PM14	montniy	4.4	3.0875	mg/i		5	
monthly 97-50 Dissolved Joanum IM30/PM14 monthly 85.3 44.925 IM20 100 monthly 97-50 Dissolved Joanum TM36/PM04 monthly 0.2 <0.1	monthly	97-5D	Dissolved Selenium	TM30/PM14	monthly	<3	<3	ug/l	150		
monthly97-50Dissolved ZincTM40/PM14monthly 8 <3 ug/l 100monthly97-50FludrideTM27/PM0monthly 0.2 0.1 mg/l $1.$ monthly97-50SulphateTM27/PM0monthly 120.7 mg/l 187.5 $1.$ monthly97-50SulphateTM38/PM0monthly 120.7 mg/l 187.5 $1.$ monthly97-50Nitrate as NO2TM38/PM0monthly 124.4 $7.8825/1429$ mg/l 37.5 $1.$ monthly97-50Nitrate as NO2TM38/PM0monthly 12.4 $7.8825/1429$ mg/l 0.375 $1.$ monthly97-50Nitrate as NO2TM38/PM0monthly 4.006 0.06 mg/l 0.03 $1.$ monthly97-50Ortho Phosphate as PO4TM38/PM0monthly 4.22 mg/l $0.050.175$ 0.15 monthly97-50Dital Alalinity as CaCO3TM75/PM0monthly 4.72 430.25 mg/l $0.0650.175$ 0.15 monthly97-50Disolved OxygenTM59/PM0monthly 4.72 430.25 mg/l $0.05-1.75$ 0.15 monthly97-50Disolved BariumTM30/PM14quarterly 101.25 $10g/l$ 100.0 1.000 monthly97-50Disolved BariumTM30/PM14quarterly 4.25 mg/l 100.0 quarterly97-60Dissolved BariumTM30/PM14 <td< td=""><td>monthly</td><td>97-5D</td><td>Dissolved Sodium</td><td>TM30/PM14</td><td>monthly</td><td>65.3</td><td>44.925</td><td>mg/l</td><td>150</td><td></td><td></td></td<>	monthly	97-5D	Dissolved Sodium	TM30/PM14	monthly	65.3	44.925	mg/l	150		
monthy 97-50 Total Phenols HPLC TM2/PM0 monthy 0.2 d0.1 mog/l 0.5 monthy 97-50 Fluoride TM3/PM0 monthy 120.77 49.37375 mg/l 187.5 Image/line monthy 97-50 Nitrate as NO3 TM38/PM0 monthy 120.77 49.37375 mg/l 187.5 Image/line Image/line 1 monthy 97-50 Nitrate as NO3 TM38/PM0 monthy 124.4 7.882871429 mg/l 37.5 Image/line Image/line 0.03 Image/line Imag	monthly	97-5D	Dissolved Zinc	TM30/PM14	monthly	8	<3	ug/l		100	
monthy 97-50 Flucride TMZ/PM0 monthy 0.3 c0.3 ng/l 1 1 monthy 97-50 Sulphate TM38/PM0 monthy 120.77 49.37375 mg/l 187.5 Image monthy 97-50 Nitrate as NO3 TM38/PM0 monthy 12.4 7.82871429 mg/l 37.5 Image Image <td>monthly</td> <td>97-5D</td> <td>Total Phenols HPLC</td> <td>TM26/PM0</td> <td>monthly</td> <td>0.2</td> <td><0.1</td> <td>mg/l</td> <td></td> <td>0.5</td> <td></td>	monthly	97-5D	Total Phenols HPLC	TM26/PM0	monthly	0.2	<0.1	mg/l		0.5	
monthly97.50SulphateTM38/PM0monthly120.77 49.37375 mg/l187.5monthlymonthly97.50Nitrite as NO3TM38/PM0monthly12.47.828571429mg/l37.5monthlymonthly97.50Nitrite as NO2TM38/PM0monthly12.47.828571429mg/l0.375monthlymonthly97.50Nitrite as NO2TM38/PM0monthly40.66<0.06	monthly	97-5D	Fluoride	TM27/PM0	monthly	<0.3	<0.3	mg/l		1	
monthly97:50ChlorideTM38/PM0monthly68.1 50.6125 mg/l187.5monthlymonthly97:50Nitrate as NO3TM38/PM0monthly12.47.828571420mg/l37.5monthly97:50Nitrite as NO2TM38/PM0monthly1.63<0.02	monthly	97-5D	Sulphate	TM38/PM0	monthly	120.77	49.37375	mg/l	187.5		
monthly97-50Nitrite as NO3TM38/PM0monthly12.47.828571429mg/l37.5monthlymonthly97-50Nitrite as NO2TM38/PM0monthly4.0.6<0.02	monthly	97-5D	Chloride	TM38/PM0	monthly	68.1	50.6125	mg/l	187.5		
monthly97-5DNitrite as NO2TM38/PM0monthly1.63<0.02mg/l0.375monthly97-5DOrtho Pokophate as PO4TM38/PM0monthly<0.06	monthly	97-5D	Nitrate as NO3	TM38/PM0	monthly	12.4	7.828571429	mg/l	37.5		
monthly97-5DOrtho Phosphate as PO4TM38/PM0monthly<0.06<0.06mg/l0.03monthly97-5DAmmoniacal Nitrogen as NTM38/PM0monthly2.991.3825mg/l0.065-0.1750.15monthly97-5DTotal Alkalinity as CaCO3TM75/PM0monthly472430.25mg/lNACmonthly97-5DDissolved OxygenTM59/PM0monthly96mg/lmonthly97-5DTotal Organic CarbonTM60/PM0monthly84.25mg/lquarterly97-5DDissolved ArsenicTM30/PM14quarterly104101.25ug/l7.5100quarterly97-6DDissolved BoronTM30/PM14quarterly104101.25ug/l750quarterly97-6DDissolved BoronTM30/PM14quarterly<0.5	monthly	97-5D	Nitrite as NO2	TM38/PM0	monthly	1.63	<0.02	mg/l	0.375		
monthly 97-5D Ammoniacal Nitrogen as N TM38/PM0 monthly 2.99 1.3825 mg/l 0.055-0.175 0.15 monthly 97-5D Total Alkalinity as CaCO3 TM75/PM0 monthly 472 430.25 mg/l NAC Image: Comparison of the comparison of	monthly	97-5D	Ortho Phosphate as PO4	TM38/PM0	monthly	<0.06	<0.06	mg/l		0.03	
monthly97-5DTotal Alkalinity as CaC03TM75/PM0monthly472430.25mg/lMACmonthly97-5DDissolved OxygenTM59/PM0monthly96mg/lImage: Carbon of the carbon	monthly	97-5D	Ammoniacal Nitrogen as N	TM38/PM0	monthly	2.99	1.3825	mg/l	0.065-0.175	0.15	
monthly97-5DDissolved OxygenTMS9/PM0monthly96mg/l \sim modelmonthly97-5DElectrical ConductivityTM76/PM0monthly11551019.125uS/cm800-1,87510001000quarterly97-5DTotal Organic CarbonTM80/PM1quarterly<2.5	monthly	97-5D	Total Alkalinity as CaCO3	TM75/PM0	monthly	472	430.25	mg/l		NAC	
monthly97-5DElectrical ConductivityTM76/PM0monthly11551019.125uS/cm800-1,8751000monthly97-5DTotal Organic CarbonTM60/PM0monthly84.25mg/lquarterly97-6DDissolved ArsenicTM30/PM14quarterly<2.5	monthly	97-5D	Dissolved Oxygen	TM59/PM0	monthly	9	6	mg/l			
monthly97-50Total Organic CarbonTM60/PM0monthly8 4.25 mg/l mg/l mg/l mg/l quarterly97-60Dissolved ArsenicTM30/PM14quarterly <2.5 <2.5 ug/l 7.5 10 mg/l quarterly97-60Dissolved BariumTM30/PM14quarterly 104 101.25 ug/l 750 100 mg/l quarterly97-60Dissolved BoronTM30/PM14quarterly 61 56.25 ug/l 750 mg/l 100 quarterly97-60Dissolved CadmiumTM30/PM14quarterly 0.5 <0.5 ug/l 5 mg/l quarterly97-60Dissolved CadmiumTM30/PM14quarterly 154.4 151.125 mg/l 200 mg/l quarterly97-60Dissolved CorperTM30/PM14quarterly <7.5 <1.5 ug/l 37.5 30 quarterly97-60Dissolved CorperTM30/PM14quarterly <7.7 vg/l 1500 30 mg/l quarterly97-60Dissolved IronTM30/PM14quarterly <7.7 vg/l 1500 30.6 mg/l quarterly97-60Dissolved MagnesiumTM30/PM14quarterly <20.6 <20.6 ug/l 18.75 10.6 quarterly97-60Dissolved MagneseTM30/PM14quarterly 1.2 <2.6 ug/l 18.75 10.6 quarterly97-60D	monthly	97-5D	Electrical Conductivity	TM76/PM0	monthly	1155	1019.125	uS/cm	800-1,875	1000	
quarterly97-6DDissolved ArsenicTM30/PM14quarterly <2.5 <2.5 ug/l 7.510quarterly97-6DDissolved BariumTM30/PM14quarterly104101.25 ug/l 100100quarterly97-6DDissolved BoronTM30/PM14quarterly6156.25 ug/l 750100quarterly97-6DDissolved CalciumTM30/PM14quarterly <0.5 <0.5 ug/l 5100quarterly97-6DDissolved CalciumTM30/PM14quarterly154.4151.125 mg/l 200100quarterly97-6DDissolved ChromiumTM30/PM14quarterly <1.5 <1.5 ug/l 37.530quarterly97-6DDissolved CopperTM30/PM14quarterly <7 <7 ug/l 150030quarterly97-6DDissolved IronTM30/PM14quarterly <2.0 <20 ug/l 200100quarterly97-6DDissolved IronTM30/PM14quarterly <7 <7 ug/l 150030100quarterly97-6DDissolved MagnesiumTM30/PM14quarterly <2.0 <20 ug/l 100100quarterly97-6DDissolved MagneseTM30/PM14quarterly <2.0 <20 ug/l 10100quarterly97-6DDissolved MagneseTM30/PM14quarterly <2.0 <2.0 ug/l 1010 <td>monthly</td> <td>97-5D</td> <td>Total Organic Carbon</td> <td>TM60/PM0</td> <td>monthly</td> <td>8</td> <td>4.25</td> <td>mg/l</td> <td></td> <td></td> <td></td>	monthly	97-5D	Total Organic Carbon	TM60/PM0	monthly	8	4.25	mg/l			
quarterly97-6DDissolved BariumTM30/PM14quarterly104101.25ug/l100quarterly97-6DDissolved BoronTM30/PM14quarterly6156.25ug/l750quarterly97-6DDissolved CadmiumTM30/PM14quarterly<0.5	quarterly	97-6D	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/l	7.5	10	
quarterly97-6DDissolved BoronTM30/PM14quarterly6156.25ug/l750Image: Constraint of the second s	quarterly	97-6D	Dissolved Barium	TM30/PM14	quarterly	104	101.25	ug/l		100	
quarterly97-6DDissolved CadmiumTM30/PM14quarterly<0.5<0.5ug/l5quarterly97-6DDissolved CalciumTM30/PM14quarterly154.4151.125mg/l200quarterly97-6DTotal Dissolved ChromiumTM30/PM14quarterly<1.5	quarterly	97-6D	Dissolved Boron	TM30/PM14	quarterly	61	56.25	ug/l	750		
quarterly97-6DDissolved CalciumTM30/PM14quarterly154.4151.125mg/l200Image: Constraint of the co	quarterly	97-6D	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly97-6DTotal Dissolved ChromiumTM30/PM14quarterly<1.5<1.5ug/l37.530additionquarterly97-6DDissolved CopperTM30/PM14quarterly<7	quarterly	97-6D	Dissolved Calcium	TM30/PM14	quarterly	154.4	151.125	mg/l	200		
quarterly97-6DDissolved CopperTM30/PM14quarterly<7<7ug/l150030quarterly97-6DTotal Dissolved IronTM30/PM14quarterly<20	quarterly	97-6D	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30	
quarterly97-6DTotal Dissolved IronTM30/PM14quarterly<20<20ug/l200quarterly97-6DDissolved LeadTM30/PM14quarterly<5	quarterly	97-6D	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly97-6DDissolved LeadTM30/PM14quarterly<5<5ug/l18.7510quarterly97-6DDissolved MagnesiumTM30/PM14quarterly19.518.725mg/l50quarterly97-6DDissolved ManganeseTM30/PM14quarterly2<2	quarterly	97-6D	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200	
quarterly97-6DDissolved MagnesiumTM30/PM14quarterly19.518.725mg/l50quarterly97-6DDissolved ManganeseTM30/PM14quarterly2<2	quarterly	97-6D	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10	
quarterly97-6DDissolved ManganeseTM30/PM14quarterly2<2ug/l50quarterly97-6DDissolved MercuryTM30/PM14quarterly<1	quarterly	97-6D	Dissolved Magnesium	TM30/PM14	quarterly	19.5	18.725	mg/l	1	50	
quarterly97-6DDissolved MercuryTM30/PM14quarterly<1<1ug/l1quarterly97-6DDissolved NickelTM30/PM14quarterly2<2	quarterly	97-6D	Dissolved Manganese	TM30/PM14	quarterly	2	<2	ug/l		50	
quarterly 97-6D Dissolved Nickel TM30/PM14 quarterly 2 <2 ug/l 15 quarterly 97-6D Dissolved Phosphorus TM30/PM14 quarterly 16 14 ug/l 6 quarterly 97-6D Dissolved Phosphorus TM30/PM14 quarterly 16 14 ug/l 6 quarterly 97-6D Dissolved Potassium TM30/PM14 quarterly 1.7 1.65 mg/l 5	quarterly	97-6D	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly 97-6D Dissolved Phosphorus TM30/PM14 quarterly 16 14 ug/l quarterly 97-6D Dissolved Potassium TM30/PM14 quarterly 1.7 1.65 mg/l 5	quarterly	97-6D	Dissolved Nickel	TM30/PM14	quarterly	2	<2	ug/l	15		
guarterly 97-6D Dissolved Potassium TM30/PM14 guarterly 1.7 1.65 mg/l 5	quarterly	97-6D	Dissolved Phosphorus	TM30/PM14	quarterly	16	14	ug/l			
	quarterly	97-6D	Dissolved Potassium	TM30/PM14	quarterly	1.7	1.65	mg/l	1	5	

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quarterly	97-6D	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l			
quarterly	97-6D	Dissolved Sodium	TM30/PM14	quarterly	29.8	23.6	mg/l	150		
quarterly	97-6D	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l		100	
quarterly	97-6D	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
guarterly	97-6D	Fluoride	TM27/PM0	guarterly	<0.3	<0.3	mg/l		1	
quarterly	97-6D	Sulphate	TM38/PM0	quarterly	18.05	17.7275	mg/l	187.5		
quarterly	97-6D	Chloride	TM38/PM0	quarterly	33.6	30.775	mg/l	187.5		
quarterly	97-6D	Nitrate as NO3	TM38/PM0	quarterly	10.9	7.2575	mg/l	37.5		
quarterly	97-6D	Nitrite as NO2	TM38/PM0	quarterly	2.3	< 0.02	mg/l	0.375		
quarterly	97-6D	Ortho Phosphate as PO4	TM38/PM0	quarterly	<0.06	<0.06	mg/l	01070	0.03	
quarterly	97-6D	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	0.31	0.275	mg/l	0.065-0.175	0.05	
quarterly	97-6D	Total Alkalinity as CaCO3	TM75/PM0	quarterly	472	444	mg/l	0.005 0.175	NAC	
quarterly	97-6D	Dissolved Oxygen	TM59/PM0	quarterly	7	5 75	mg/l		INAC	
quarterly	97-60	Electrical Conductivity	TM76/PM0	quarterly	022	992 75	us/cm	800-1 875	1000	
quarterly	97-6D	Total Organic Carbon	TM60/PM0	quarterly	922	682.75	mg/l	800-1,875	1000	
quarterly	97-70		TM30/PM14	quarterly	<25	<2 5	ug/l	75	10	
quarterly	97-70	Dissolved Barium	TM30/PM14	quarterly	70	75		1.5	100	
quarterly	97-70	Dissolved Boron	TM30/DM14	quarterly	20	12 75		750	100	
quarterly		Dissolved Cadmium	TM20/DM414	quarterly	20 20 E	12.75 20 E		/50		
quarterly	97-70	Dissolved Calaium	TN130/PIVI14	quarterly	<0.5 140.2	<0.5 144 EE	ug/I	200		
quarterly	97-70	Dissolved Calcium	TN130/PN114	quarterly	149.3	144.55	nig/i	200	20	
quarterly	97-70	Dissolved Chromium	TIVI30/PIVI14	quarterly	<1.5	<1.5	ug/I	37.5	30	
quarterly	97-70	Dissolved Copper	TM30/PM14	quarterly	</td <td><!--</td--><td>ug/I</td><td>1500</td><td>30</td><td></td></td>	</td <td>ug/I</td> <td>1500</td> <td>30</td> <td></td>	ug/I	1500	30	
quarterly	97-7D	Total Dissolved Iron	TIVI30/PIVI14	quarterly	<20	<20	ug/I	10.75	200	
quarterly	97-7D	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/I	18.75	10	
quarterly	97-7D	Dissolved Magnesium	TM30/PM14	quarterly	19.1	18.275	mg/I		50	
quarterly	97-7D	Dissolved Manganese	TM30/PM14	quarterly	<2	<2	ug/I		50	
quarterly	97-7D	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly	97-7D	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15		
quarterly	97-7D	Dissolved Phosphorus	TM30/PM14	quarterly	13	11.25	ug/l			
quarterly	97-7D	Dissolved Potassium	TM30/PM14	quarterly	0.6	0.6	mg/l		5	
quarterly	97-7D	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l			
quarterly	97-7D	Dissolved Sodium	TM30/PM14	quarterly	11.3	10.675	mg/l	150		
quarterly	97-7D	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l		100	
quarterly	97-7D	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	97-7D	Fluoride	TM27/PM0	quarterly	<0.3	<0.3	mg/l		1	
quarterly	97-7D	Sulphate	TM38/PM0	quarterly	18.72	17.4325	mg/l	187.5		
quarterly	97-7D	Chloride	TM38/PM0	quarterly	18.7	18.075	mg/l	187.5		
quarterly	97-7D	Nitrate as NO3	TM38/PM0	quarterly	17.4	10.6575	mg/l	37.5		
quarterly	97-7D	Nitrite as NO2	TM38/PM0	quarterly	3.99	< 0.02	mg/l	0.375		
quarterly	97-7D	Ortho Phosphate as PO4	TM38/PM0	quarterly	<0.06	< 0.06	mg/l		0.03	
quarterly	97-7D	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	< 0.03	< 0.03	mg/l	0.065-0.175	0.15	
quarterly	97-7D	Total Alkalinity as CaCO3	TM75/PM0	quarterly	426	400	mg/l		NAC	
quarterly	97-7D	Dissolved Oxygen	TM59/PM0	quarterly	7	6.75	mg/l			
quarterly	97-7D	Electrical Conductivity	TM76/PM0	quarterly	859	809.5	uS/cm	800-1,875	1000	
quarterly	97-7D	Total Organic Carbon	TM60/PM0	quarterly	7	<2	mg/l			
quarterly	KTK-10	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/l	7.5	10	
quarterly	KTK-10	Dissolved Barium	TM30/PM14	quarterly	31	28.75	ug/l		100	
quarterly	KTK-10	Dissolved Boron	TM30/PM14	quarterly	13	<12	ug/l	750		
quarterly	KTK-10	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly	KTK-10	Dissolved Calcium	TM30/PM14	quarterly	76.3	69.075	mg/l	200		
							<u>.</u>			

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quarterly	KTK-10	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly	KTK-10	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200	
quarterly	KTK-10	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10	
quarterly	KTK-10	Dissolved Magnesium	TM30/PM14	quarterly	8.4	7.15	mg/l		50	
quarterly	KTK-10	Dissolved Manganese	TM30/PM14	quarterly	8	<2	ug/l		50	
quarterly	KTK-10	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly	KTK-10	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15		
quarterly	KTK-10	Dissolved Phosphorus	TM30/PM14	quarterly	6	<5	ug/l			
quarterly	KTK-10	Dissolved Potassium	TM30/PM14	quarterly	0.3	0.25	mg/l		5	
quarterly	KTK-10	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l		5	
quarterly	KTK-10	Dissolved Sodium	TM30/PM14	quarterly	24.8	18.25	mg/l	150		
quarterly	KTK-10	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l	100	100	
quarterly	KTK-10	Total Phenois HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	KTK-10	Fluoride	TM27/PM0	quarterly	<0.1	<0.3	mg/l		1	
quarterly	KTK-10	Sulphate	TM38/PM0	quarterly	43 76	33 9975	mg/l	187 5	±	
quarterly	KTK-10	Chloride	TM38/PM0	quarterly	20.3	18.8	mg/l	187.5		
quarterly	KTK-10	Nitrate as NO3	TM38/PM0	quarterly	20.5	2 44	mg/l	37.5		
quarterly	KTK-10	Nitrite as NO2	TM38/DM0	quarterly	0.51	<0.02	mg/l	0 275		
quarterly	KTK-10	Ortho Phosphate as PO4	TM39/DM0	quarterly	<0.01	<0.02	mg/l	0.575	0.03	
quarterly	KTK-10	Ammoniacal Nitrogon as N	TM39/DM0	quarterly	<0.00	<0.00	mg/l	0.065.0.175	0.05	
quarterly	KTK-10	Total Alkalinity as CaCO2	TM75/DM0	quarterly	214	182	mg/l	0.003-0.175	0.15	
quarterly	NIN-10	Dissolved Owger		quarterly	10	102	mg/l		NAC	
quarterly	KIK-10			quarterly	10	0./5	us/m	800 1 075	1000	
uarteriy	N1K-1U			quarterly	480	447.25		800-1,875	1000	
quarterly	KIK-10	Iotal Organic Carbon	TM60/PM0	quarterly	3	<2	mg/I		10	
monthly	KTK-11	Dissolved Arsenic	TM30/PM14	monthly	4.2	<2.5	ug/l	7.5	10	
nonthly	KTK-11	Dissolved Barium	TM30/PM14	monthly	82	67	ug/l		100	
monthly	KTK-11	Dissolved Boron	TM30/PM14	monthly	123	90.5	ug/l	750		
nonthly	KTK-11	Dissolved Cadmium	TM30/PM14	monthly	0.7	<0.5	ug/l	5		
nonthly	KTK-11	Dissolved Calcium	TM30/PM14	monthly	181.6	163.625	mg/l	200		
nonthly	KTK-11	Total Dissolved Chromium	TM30/PM14	monthly	<1.5	<1.5	ug/l	37.5	30	
nonthly	KTK-11	Dissolved Copper	TM30/PM14	monthly	13	<7	ug/l	1500	30	
nonthly	KTK-11	Total Dissolved Iron	TM30/PM14	monthly	<20	<20	ug/l		200	
nonthly	KTK-11	Dissolved Lead	TM30/PM14	monthly	<5	<5	ug/l	18.75	10	
monthly	KTK-11	Dissolved Magnesium	TM30/PM14	monthly	12.5	11.1875	mg/l		50	
monthly	KTK-11	Dissolved Manganese	TM30/PM14	monthly	2247	1776.5	ug/l		50	
monthly	KTK-11	Dissolved Mercury	TM30/PM14	monthly	<1	<1	ug/l		1	
monthly	KTK-11	Dissolved Nickel	TM30/PM14	monthly	13	8.5	ug/l	15		
monthly	KTK-11	Dissolved Phosphorus	TM30/PM14	monthly	21	14.375	ug/l			
monthly	KTK-11	Dissolved Potassium	TM30/PM14	monthly	6.4	4.4	mg/l		5	
monthly	KTK-11	Dissolved Selenium	TM30/PM14	monthly	<3	<3	ug/l			
monthly	KTK-11	Dissolved Sodium	TM30/PM14	monthly	39.1	28.65	mg/l	150		
nonthly	KTK-11	Dissolved Zinc	TM30/PM14	monthly	8	3.6875	ug/l		100	
monthly	KTK-11	Total Phenols HPLC	TM26/PM0	monthly	<0.1	<0.1	mg/l		0.5	
monthly	KTK-11	Fluoride	TM27/PM0	monthly	<0.3	<0.3	mg/l		1	
monthly	KTK-11	Sulphate	TM38/PM0	monthly	161.85	113.45	mg/l	187.5		
monthly	KTK-11	Chloride	TM38/PM0	monthly	47.4	35.05	mg/l	187.5		
monthly	KTK-11	Nitrate as NO3	TM38/PM0	monthly	11	3.69125	mg/l	37.5		
monthly	KTK-11	Nitrite as NO2	TM38/PM0	monthly	0.07	<0.02	mg/l	0.375		
monthly	KTK-11	Ortho Phosphate as PO4	TM38/PM0	monthly	<0.06	< 0.06	mg/l		0.03	
monthly	KTK-11	Ammoniacal Nitrogen as N	TM38/PM0	monthly	3.93	1.67875	mg/l	0.065-0.175	0.15	
monthly	KTK-11	Total Alkalinity as CaCO3	TM75/PM0	monthly	440	374.25	mg/l		NAC	

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monthly	KTK-11	Dissolved Oxygen	TM59/PM0	monthly	8	6.125	mg/l				
monthly	KTK-11	Electrical Conductivity	TM76/PM0	monthly	1052	945.625	uS/cm	800-1,875	1000		
monthly	KTK-11	Total Organic Carbon	TM60/PM0	monthly	10	4.5	mg/l				
quarterly	KTK-19	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/l	7.5	10		
quarterly	KTK-19	Dissolved Barium	TM30/PM14	quarterly	158	148	ug/l		100		
quarterly	KTK-19	Dissolved Boron	TM30/PM14	quarterly	33	31	ug/l	750			
quarterly	KTK-19	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5			
quarterly	KTK-19	Dissolved Calcium	TM30/PM14	quarterly	92.9	90.225	mg/l	200			
quarterly	KTK-19	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30		
quarterly	KTK-19	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30		
quarterly	KTK-19	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200		
quarterly	KTK-19	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10		
quarterly	KTK-19	Dissolved Magnesium	TM30/PM14	quarterly	24.7	23 525	mg/l	10.75	50		
quarterly	KTK-19	Dissolved Magnesian	TM30/PM14	quarterly	925	696 5	11.g/l		50		
quarterly	KTK-19	Dissolved Marganese	TM30/PM14	quarterly	<1	<1			1		
quarterly	KTK-19	Dissolved Nickel	TM30/PM14	quarterly	<7	<2	ug/l	15	1		
quarterly	KTK-19	Dissolved Phosphorus	TM30/PM14	quarterly	15	10.75	ug/l	15			
quarterly	KTK-19	Dissolved Potassium	TM30/PM14	quarterly	16	1 //5	mg/l		5		
quarterly	KTK-10		TM30/PM14	quarterly	1.0	- 1.45	116/1 11g/l		ر		
quarterly	KTK-19	Dissolved Sodium	TM30/PM14	quarterly	20.1	16 275	mg/l	150			
quarterly	KTK-10	Dissolved Zinc	TM30/PM14	quarterly	20.1	10.275	116/1 11g/l	150	100		
quarterly	KTK-10		TM26/DM0	quarterly	3	< 3	mg/l		0.5		
quarterly	K1K-10	Eluoride	TM27/DM0	quarterly	0.4	0 2275	mg/l		1		
quarterly	NIN-19	Fiu0fiue Sulphoto		quarterly	0.4	0.3375	mg/l	197 5	T		
quarterly	NIN-19	Chlorido	TM28/PIVIU	quarterly	29.34	20.52	mg/l	187.5			
quarterly	KIK-10	Nitrate as NO2	TM29/PIVIU	quarterly	11	10.025	mg/l	107.5			
quarterly	NIN-19	Nitrate as NO3		quarterly	0.0	0.3325	mg/l	37.5			
quarterly	KTK 10	Ortho Dhosphata as DC4	TN328/PIVIU	quarterly	<0.02	<0.02	mg/l	0.375	0.02		
quarterly	KIK-19	Ammoniacol Nitra as PO4		quarterly	<0.06	<0.06	mg/l	0.005 0.475	0.03		
quarterly	KTK-19	Ammoniacal Nitrogen as N		quarterly	0.19	0.135	mg/l	0.065-0.175	0.15		
quarterly	KTK-19	Disselyed Own		quarterly	362	337.5	mg/l		NAC		
quarterly	KTK-19	Dissolved Oxygen	TIVI59/PIVI0	quarterly	/	5.5	ing/i	000 1 075	4000		
quarterly	KTK-19	Electrical Conductivity		quarterly	646	637	us/cm	800-1,875	1000		
quarterly	KIK-19	I otal Organic Carbon	1M60/PM0	quarterly	5	<2	mg/l		10	CELECT.	
quarterly	K1K-20	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/I	7.5	10	SELECT	
quarterly	KTK-20	Dissolved Barium	TM30/PM14	quarterly	221	210.25	ug/l		100		
quarterly	KTK-20	Dissolved Boron	TM30/PM14	quarterly	25	18.75	ug/l	750			
quarterly	KTK-20	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5			
quarterly	KTK-20	Dissolved Calcium	TM30/PM14	quarterly	148.8	145.5	mg/l	200			
quarterly	KTK-20	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30		
quarterly	KTK-20	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30		
quarterly	KTK-20	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200		
quarterly	KTK-20	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10		
quarterly	KTK-20	Dissolved Magnesium	TM30/PM14	quarterly	29.7	29.125	mg/l		50		
quarterly	KTK-20	Dissolved Manganese	TM30/PM14	quarterly	917	829	ug/l		50		
quarterly	KTK-20	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1		
quarterly	KTK-20	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15			
quarterly	KTK-20	Dissolved Phosphorus	TM30/PM14	quarterly	18	12.75	ug/l				
quarterly	KTK-20	Dissolved Potassium	TM30/PM14	quarterly	1.6	1.425	mg/l		5		
quarterly	KTK-20	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l				
quarterly	KTK-20	Dissolved Sodium	TM30/PM14	quarterly	16.6	14.2	mg/l	150			
quarterly	KTK-20	Dissolved Zinc	TM30/PM14	quarterly	5	3.125	ug/l		100		

froundwater	r/Soil monito	oring template			Lic No:	W0081-04		Year	2014	
quarterly	KTK-20	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	KTK-20	Fluoride	TM27/PM0	quarterly	0.4	0.25	mg/l		1	
quarterly	KTK-20	Sulphate	TM38/PM0	quarterly	63.9	60.4325	mg/l	187.5		
quarterly	KTK-20	Chloride	TM38/PM0	quarterly	16.2	15.625	mg/l	187.5		
quarterly	KTK-20	Nitrate as NO3	TM38/PM0	quarterly	0.7	0.2325	mg/l	37.5		
quarterly	KTK-20	Nitrite as NO2	TM38/PM0	quarterly	< 0.02	< 0.02	mg/l	0.375		
quarterly	KTK-20	Ortho Phosphate as PO4	TM38/PM0	quarterly	<0.06	< 0.06	mg/l		0.03	
quarterly	KTK-20	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	0.14	0.1275	mg/l	0.065-0.175	0.15	
quarterly	KTK-20	Total Alkalinity as CaCO3	TM75/PM0	quarterly	628	500.5	mg/l		NAC	
quarterly	KTK-20	Dissolved Oxygen	TM59/PM0	quarterly	8	6	mg/l			
quarterly	KTK-20	Electrical Conductivity	TM76/PM0	quarterly	887	868	uS/cm	800-1,875	1000	
quarterly	KTK-20	Total Organic Carbon	TM60/PM0	quarterly	9	3	mg/l			
quarterly	KTK-21	Dissolved Arsenic	TM30/PM14	quarterly	<2.5	<2.5	ug/l	7.5	10	
quarterly	KTK-21	Dissolved Barium	TM30/PM14	quarterly	75	72.25	ug/l		100	
quarterly	KTK-21	Dissolved Boron	TM30/PM14	quarterly	18	13.5	ug/l	750		
quarterly	KTK-21	Dissolved Cadmium	TM30/PM14	quarterly	<0.5	<0.5	ug/l	5		
quarterly	KTK-21	Dissolved Calcium	TM30/PM14	quarterly	143.4	136.075	mg/l	200		
quarterly	KTK-21	Total Dissolved Chromium	TM30/PM14	quarterly	<1.5	<1.5	ug/l	37.5	30	
quarterly	KTK-21	Dissolved Copper	TM30/PM14	quarterly	<7	<7	ug/l	1500	30	
quarterly	KTK-21	Total Dissolved Iron	TM30/PM14	quarterly	<20	<20	ug/l		200	
quarterly	KTK-21	Dissolved Lead	TM30/PM14	quarterly	<5	<5	ug/l	18.75	10	
quarterly	KTK-21	Dissolved Magnesium	TM30/PM14	quarterly	12.3	11.65	mg/l		50	
quarterly	KTK-21	Dissolved Manganese	TM30/PM14	quarterly	<2	<2	ug/l		50	
quarterly	KTK-21	Dissolved Mercury	TM30/PM14	quarterly	<1	<1	ug/l		1	
quarterly	KTK-21	Dissolved Nickel	TM30/PM14	quarterly	<2	<2	ug/l	15		
quarterly	KTK-21	Dissolved Phosphorus	TM30/PM14	quarterly	14	9.25	ug/l			
quarterly	KTK-21	Dissolved Potassium	TM30/PM14	quarterly	0.4	0.325	mg/l		5	
quarterly	KTK-21	Dissolved Selenium	TM30/PM14	quarterly	<3	<3	ug/l			
quarterly	KTK-21	Dissolved Sodium	TM30/PM14	quarterly	3.2	3.175	mg/l	150		
quarterly	KTK-21	Dissolved Zinc	TM30/PM14	quarterly	<3	<3	ug/l		100	
quarterly	KTK-21	Total Phenols HPLC	TM26/PM0	quarterly	<0.1	<0.1	mg/l		0.5	
quarterly	KTK-21	Fluoride	TM27/PM0	quarterly	<0.3	< 0.3	mg/l		1	
quarterly	KTK-21	Sulphate	TM38/PM0	quarterly	4.17	3.02	mg/l	187.5		
quarterly	KTK-21	Chloride	TM38/PM0	quarterly	4.6	3.7	mg/l	187.5		
quarterly	KTK-21	Nitrate as NO3	TM38/PM0	quarterly	1.7	0.7825	mg/l	37.5		
quarterly	KTK-21	Nitrite as NO2	TM38/PM0	quarterly	0.21	<0.02	mg/l	0.375		
quarterly	KTK-21	Ortho Phosphate as PO4	TM38/PM0	quarterly	<0.06	< 0.06	mg/l		0.03	
quarterly	KTK-21	Ammoniacal Nitrogen as N	TM38/PM0	quarterly	0.05	0.0275	mg/l	0.065-0.175	0.15	
quarterly	KTK-21	Total Alkalinity as CaCO3	TM75/PM0	quarterly	426	414	mg/l		NAC	
quarterly	KTK-21	Dissolved Oxygen	TM59/PM0	quarterly	8	7.75	mg/l			
quarterly	KTK-21	Electrical Conductivity	TM76/PM0	quarterly	717	685	uS/cm	800-1,875	1000	
quarterly	KTK-21	Total Organic Carbon	TM60/PM0	quarterly	7	<2	mg/l			SELECT
*please note trend in r complete	exceedance results for a s e the Ground	of generic assessment criteria (substance indicates that further lwater Monitoring Guideline Ter	GAC) such as a G interpretation of nplate Report at otherwise	iroundwater Thres monitoring results the link provided a instructed by the E	hold Value (GTV) or a i is required. In additi nd submit separately PA.	n Interim Guidelir on to completing through ALDER as	e Value (IGV) or an upwar the above table, please s a licensee return or as	d <u>Grounc</u>	lwater monitor	ing template

Groundwater/Soil monitoring template	Lic No:	W0081-04		Year	2014	4	
**Depending on location of the site and proximity to other sensitive receptors alternative F	Receptor based V	Vater Quality standards should be	used in addition		Groundwater	Drinking water	
to the GTV e.g. if the site is close to surface water compare to Surface Water Environmenta	l Quality Standar	ds (SWEQS), If the site is close to a	a drinking water	Surface	regulations	(private supply)	Drinking water (public
supply compare results to the Drinking Wat	er Standards (DV	VS)		water EQS	<u>GTV's</u>	<u>standards</u>	<u>supply) standards</u>

Groundwat	ter/Soil monito	ring template			Lic No: W0081-04 Ye			Year	2014
Table 3: Soil results									
	Sample								
Date of	location			Monitoring	Maximum	Average			
sampling	reference	Parameter/ Substance	Methodology	frequency	Concentration	Concentration	unit		
							SELECT		
							SELECT		

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

Environmental Liabilities template

Click here to access EPA guidance on Environmental Liabilities and Financial

provision

			Commentary
1	ELRA initial agreement status	SELECT	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest FLRA	Specify	
5	Anount of Financial Frowsion cover required as determined by the latest LERA	Specify	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Lic No:

2014

W0081-04

Year

	Environmental Management Programme/Continuous Improvement Programm	ie template	Lic No:	W0081-04	Year	2014
	Highlighted cells contain dropdown menu click to view		Additional Information			
:	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	SELECT				
2	2 Does the EMS reference the most significant environmental aspects and associated impacts on-site	SELECT				
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance					
3	3 with the licence requirements	SELECT				
	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	SELECT				

Environmental Management Programme (EMP) report										
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes					
SELECT		SELECT		SELECT	SELECT					
SELECT		SELECT		SELECT	SELECT					
SELECT		SELECT		SELECT	SELECT					

	Noise monitorin	ng summary	report			Lic No:	W0081-04	Year	2014
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below							No		
2 Was noise monitoring ca "Checklist for noise meas	rried out using the EPA surement report" inclu	A Guidance not uded in the guic	<u>Noise</u> Guidance note NG4	No					
3 Does your site have a not4 When was the noise reduced	ise reduction plan uction plan last update	ed?					No Enter date		
Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since noise survey?							SELECT	<u></u>	
Table N1: Noise monitor	ing summary]				
		Noise							Commonts (ov. main

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

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

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

SELECT

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

Any additional comments? (less than 200 words)

Resource Usa	age/Energy efficiency summary	Lic No:	W0081-04	Year	2014

Additional information

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

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

2 such as the SEAI programme linked to the right? If yes please list them in additional information <u>Network (LIEN)</u> Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	272	223		
Total Energy Generated (MWHrs)	15350	11390	-25.80%	
Total Renewable Energy Generated (MWHrs)			
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	19.3	12.85		
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usag				Water Emissions	Water Consumption		
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	1.034	0.822	-20.5		0.822		
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)	12.85			12.85	
Non-Hazardous (Tonnes)					

	Additional information							
in table 3 below	Enter date of audit							
<u>SEAI - Large</u>								
Network (LIEN)	SELECT							
state percentage	SELECT							

Resource	e Usage/Energy efficiency sur	mmary			Lic No:	W0081-04		Year
	Table R4: Energy Au	idit finding recommenda	tions					
			Description of		Predicted energy			
	Date of audit	Recommendations	Measures proposed	Origin of measures	savings %	Implementation date	Responsibility	Completion date
				SELECT				
				SELECT				

SELECT

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

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

2014

Status and comments

Complaints and Incidents summary template		Lic No:	W0081-04	Year	2014	
 Complaints						
		Additional inform	nation			
Have you received any environmental complaints in the current reporting year? If yes please complete						
summary details of complaints received on site in table 1 below	SELECT					

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

	Incidents			
				Additional information
Have any incidents occurred on site in the current repo	rting year? Please list all incid	ents for current reporting		
year in Tab	le 2 below		SELECT	
*For information on how to report and what				

What is an incident

constitutes an incident

Table 2 Incidents su	mmary		1											
			Incident			Other	Activity in				Preventative			
			category*please refer to			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year														
Total number of														
incidents previous														
year														
% reduction/														
increase														

WASTE SUMMARY	Lic No:	W0081-04	Year	2014
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLET	ED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		
		Additional Information
Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundar	ies	
1 is to be captured through PRTR reporting)	No	
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	N/A	
3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	N/A	

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

Licenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
tonnage limit for your			accepted	accepted in current	previous reporting year (tonnes)	Increase over	reduction/ increase	only applies if the	treatment operation carried out	waste remaining	
site (total			Please enter an	reporting year (tonnes)		previous year +/ -	from previous	waste has a packaging	at your site and the description	on site at the	
tonnes/annum)			accurate and detailed			%	reporting year	component	of this operation	end of reporting	
			description - which							year (tonnes)	
			applies to relevant EWC								
			code								
	European Waste Catalogue EWC codes		European Waste								
			Catalogue EWC codes								
		Ballynagran Landfill Limited									
	190703	(W0165-02)	Leachate	985.7		NA			D9-Physico-Chemical treatment n	0	
1					1						

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

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

6 Does your facility have relevant nuisance controls in place?
7 Do you have an odour management system in place for your facility? If no why?
8 Do you maintain a sludge register on site?

SELECT			
SELECT			
SELECT			
SELECT SELECT			



| PRTR# : W0081 | Facility Name : Kilcullen Landfill Limited | Filename : W0081_2014.xls | Return Year : 2014 |

Guidance to completing the PRTR workbook

AER Returns Workbook

chynoliniental Ffotection Agency							
	Version 1.1.18						
REFERENCE YEAR 2014							
1. FACILITY IDENTIFICATION							
Parent Company Name	e Kilcullen Landfill Limited						
Facility Name	e Kilcullen Landfill Limited						
PRTR Identification Number	r W0081						
Licence Number	r W0081-04						
Classes of Activity	v						

No. class_name - Refer to PRTR class activities below

Address 1	Brownstown and Carnalway
Address 2	Kilcullen
Address 3	
Address 4	
	Kildare
Country	Ireland
Coordinates of Location	-6.71785 53.1451
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	1
User Feedback/Comments	The levels of various parameters reported in the air emissions section show variances when
	compared to the 2013 PRTR due to the use of a revised GasSim model for the site.
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 20	02)
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 onsite treatment (either recovery or disposal activities) ?

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

4.1 RELEASES TO AIR Link to previous years emissions data

| PRTR# : W0081 | Facility Name : Kilcullen Landfill Limited | Filename : W0081_2014.xls | Return Year : 2014 |

12/06/2015 08:22

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR		Please enter all quantities in this section in KGs											
POLLUTANT			METHO	OD					QUANTITY					
			Method Used		Flare 1 Engine 1		Engine 2	Engine 3						
										A (Accidental)	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	T (Total) KG/Year	KG/Year	KG/Year			
03	Carbon dioxide (CO2)	С	OTH	Gas sim model 2014	0.0	0.0	0.0	0.0	4136444.0	0.	.0 4136444.0			
01	Methane (CH4)	С	OTH	Gas sim model 2014	0.0	0.0	0.0	0.0	2782551.0	0.	.0 2782551.0			
02	Carbon monoxide (CO)	M	EN 15058:2004	horiba 250	0.0	665.01	664.845	664.68	0.0	0.	.0 0.0			
08	Nitrogen oxides (NOx/NO2)	M	EN 14791:2005	horiba 250	91.84	455.65	22511.825	44568	67627.315	0.	.0 0.0			
11	Sulphur oxides (SOx/SO2)	M	EN 14791:2005	horiba 250	0.0	522.64	490.505	458.37	0.0	0.	.0 0.0			
				Signal FID 3030PM and										
07	Non-methane volatile organic compounds (NMVOC)	M	ALT	TNMHC analyser	0.0	8.5964	7.78685	6.9773	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

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

	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	F (Fugitive) KG/Year	
					0.0		0.0 0	.0 0.0	

Additional Data Requested from Landfill operators													
or the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) lared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) mission to the environment under T(tota) KGiyr for Section A: Sector specific PRTR pollutants above. Please complete the table below:													
Landfill:	Kilcullen Landfill Limited												
Please enter summary data on the													
quantities of methane flared and / or													
utilised			Met	hod Used									
				Designation or	Facility Total Capacity								
	T (Total) kg/Year	M/C/E	Method Code	Description	m3 per hour								
Total estimated methane generation (as per													
site model	5483193.0	С	other	Gas Sim model 2014	N/A								
Methane flared	631482.0	M	calculated	EPA-Bernard hyde model	0.0	(Total Flaring Capacity)							
Methane utilised in engine/s	2069160.0	M	calculated	EPA-Bernard hyde model	0.0	(Total Utilising Capacity)							
Net methane emission (as reported in Section													
A above	2782551.0	С	other	Gas Sim model 2014	N/A								

4.2 RELEASES TO WATERS

Link to previous years emissions data

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 only conc SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS RELEASES TO WATERS his section in KG POLLUTANT QUANTITY Method Used A (Accidental) KG/Year F (Fugitive) KG/Year No. Annex II M/C/E Method Code Designation or Description Emission Point 1 T (Total) KG/Year Name 0.0 0.0 0.0 0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS		Please enter all quantities in this section in KGs						
POLLUTANT					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					
PO				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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0081 | Facility Name : Kilcullen Landfill Limited | Filename : W0081_2014.xls | Return Y 12/06/2015 08:22

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs					
POLLUTANT			METHO)D	QUANTITY					
			Met	hod 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 00		

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs				
POLLUTANT			MET	HOD	QUANTITY				
			ſ	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 00	0.0	

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

	RELEASES TO LAND				Please enter all quantities		
POLLUTANT			METHO	DD			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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRTR# : W0081 Facility Name : Kilculen Landfill Limited Filename : W0081_2014.xis Return Year : 2014										12/06/2015 08:22	
			Please enter all quantities on this sheet in Tonnes								3
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year) Description of Waste	Waste Treatment Operation	M/C/E	Method Used Method Used	Location of Treatment	<u>Haz Wasto</u> : Name and Licence/Permit No of Next Destination Facility <u>Nor</u> <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDQUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
									Kildare County Council Headquarters		
Within the Country	19 07 03	No	landfill leachate other than those mentioned 11211.0 in 19 07 02	D8	С	Weighed	Offsite in Ireland	Osberstown wwtp Kildare Coco ,D00**	, , , ,Aras Chill Dara Devoy Park Naas Co. Kildare	BILTA.W0192-	
Within the Country	13 02 05	Yes	mineral-based non-chlorinated engine, gea 12.85 and lubricating oils	R3	м	Weighed	Offsite in Ireland	RILTA,W0192-03	Greenogue Industrial Estate,Rathcoole,Dublin,- ,ireland	03,Greenogue Industrial Estate,Rathcoole ,Dublin,- ,ireland	Greenogue Industrial Estate,Rathcoole ,Dublin,- ,ireland