## Annex 5 Controlled Activity Regulations (CAR) - STW and Trade

EPA Compliance Assessment

SEPA licence no.:	
Site name:	
Annual summary	
sheet for year:	
Completed by:	

Environmenta	I Limits							
ELC parameter	Licence condition #	Data source	No breaches	Minor breach	Repeated minor breach	Gross Breach	Significant breach	Comments
Scope ELC  Nature of discharges								Looking only at high level definition and location of the authorised controlled activity(ies)( e.g.
		Inspection					Outwith scope of licence  Exceeds the licence limit and has been assessed as causing	discharges of treated sewage, screened sewage etc)
Dry Weather Flow (DWF) / Maximum daily flow Discharge points:		Inspection / Data returns	Compliant with licence	N/A	N/A	N/A	an unacceptable environmental impact OR leads to a Cat 1 or 2 environmental event	Refer to CAS-G-004 Flow recording and reporting at STWs and on the sewer network
location and design		Inspection / Data returns					Significantly out of specification and could lead to a category 1 or 2 environmental event. E.g. it may cause significant localised	Assessment should focus on location and general design aspects in a broad assessment.  'A breach by itself may be discounted where modelling indicates that the licence can be varied and the status of the WB downstream is not adversely affected.
Numeric ELC Statis	tical (Torre tical)						pollution due to poor dispersion and result in public complaint.	the status of the WB downstream is not adversely affected
Parameters with lower	stical (I wo tier)							
tier limits (e.g. Biochemical Oxygen Demand)					Number of planned samples exceeding lower tier limit is greater than the maximum number of	N/A	N/A	
		Samples	Compliant with licence	N/A	permitted exceedance's specified in the look up table (usually Appendix 1 in licence).	NOT	NA	
Parameters with			Compilate with incircu					
upper tier limits (e.g. Biochemical Oxygen Demand)					N/A	First breach of the upper tier limit (but which does not give rise to a category 1 or 2 environmental event)	Second and subsequent breach of the upper tier limit, or the first breach of an upper tier limit which gives rise to a category 1 or 2 environmental event.	
UWWT Limits:						,		
Lower tier limits for BOD and COD					Number of planned samples			
(composite)					exceeding lower tier limit is greater than the maximum number of permitted exceedance's specified		N/A	
					in the look up table (usually Appendix 1 in licence).			
Upper tier limits for BOD and COD (composite)					N/A		Any breach of the upper tier limit (except where sample compliance is achieved by meeting the minimum percentage reduction of influent load)	
Percentage reduction in BOD / COD		Samples	Compliant with licence	N/A	% reduction is less than licenced and conc is less than upper tier	N/A		
(composite)					but the number of samples exceeds the permitted number of exceedances in look up table (		% reduction is less than licensed and exceeds the upper tier numeric composite limit	
Annual Mean Concentration for					Appendix 1 in licence)		Exceeds licence limit and does not achieve minimum	
Total Nitrogen Annual Mean					N/A		percentage reduction of influent load.	
concentration for Total Phosphorus							Exceeds licence limit and does not achieve minimum percentage reduction of influent load	
Numeric ELC (sing Biochemical Oxygen	le threshold)							
Demand (BOD)				Exceeds the licensed limit but is less than twice the licensed limit		Exceeds the licensed limit and is greater than twice the licensed limit	Second gross breach ( exceeds twice the limit); or any breach that leads to a category 1 or 2 environmental event.	
Suspended solids pH limits					Con last on table 7	Breach of pH unit limit by more than		
		Samples	Compliant with licence	Up to 1pH unit change from limit.	See look-up table (Table 4 in compliance guidance manual) for number of minor breaches	Breach of pH unit limit by more than 1 pH unit but does not lead to a category 1 or 2 environmental event	Second gross breach (exceeds pH limit by >1 unit) or any breach that leads to a category 1 or 2 environmental event.	
Temperature Limits					constituting a repeated breach.		Second gross breach (exceeds temp limit by >5 degrees Centigrade)	these criteiria apply to those sites with single tier temperature limits. SEPA may shortly be moving to
				Exceeds the licensed limit by less than 5 degrees C		Exceeds the licensed limit by more than 5 degrees C	Centigrade) or; any breach that leads to a category 1 or 2 environmental event.	introduce two tier temperature limits where environmental conditions require it. New guidance and assessment methods are being introduced and these should be consulted to decide whether the current licence condition is appropriate and requires variation.
Numeric ELC (Annual I	Mean Concentratio	n)					any oreact that back to a category 1 of 2 citricinicanal even.	сителя поитое сотельног за вругортного што годинал чинавоги.
Annual Mean								
Concentration e.g. CAR Iron, aluminium AMC limits (excluding		Samples	AMC compliant with licence	AMC exceeds the licensed limit but is less than twice the licensed limit	N/A	AMC exceeds the licensed limit and is greater than twice the licensed	N/A	Annual mean concentration is the mean result of any series of samples taken in the preceeding 12 month period. Note that this assessment is for AMC conditions within CAR licence schedules (typically spot samples for Iron and Aluminium). Note that AMCs for Total P and Total N under UWWTD are
UWWTD Total P and Total N AMCs)						limit		assessed separately
Process ELC (a)								
Instantaneous flow limits (I/s etc)							"Exceeds the licensed limit and leads to or likely to lead to a deterioration in status of the stretch or waterbody;	*A breach by itself may be discounted where modelling indicates that the licence can be varied and the status of the WB downstream is not adversely affected
				Any breach of licence condition which may			and /or	Instantaneous flow limits are usually only specified in trade licences and would only be assessed where flow monitors allow during an inspection; are required to be reported and/or as a result of an investigation by SEPA (this which may involve examining any flow records that are required to be
				result in no more than a category 3 (minor) environmental event.			leads to or likely to lead to a category 1 or 2 environmental event.	kept)
							Highly likely to require capital investment ( Q&S for SW) and development restraint (STW's) to resolve.	Caution is required in deciding whether an instantaneous breach should be considered a breach or whether the licence should be varied. Cognisance of the time over which the instantaneous flow has been exceeded for should be taken into account.
Discharge points: location and design				Any breach of licence condition which may			More than one location/design of discharge point is not as described. Significantly out of specification and could lead to a	
				result in no more than a category 3 (minor) environmental event. Location and /or design is not as described in licence			category 1 or 2 environmental event. E.g. it may cause significant localised pollution due to poor dispersion and result in public complaint.	Assessment should focus on location and general design aspects in a broad assessment.
Overflow settings including combined sewer overflows				CSOs:	4 or more minor breaches Note: for Sewer Network Licences minor			
		Inspection	Compliant with licence	Operating during settled dry weather (not as a consequence of rainfall / snowmelt),	breaches are assessed against each discharge point and are not cumulative across the network	N/A (Failure to monitor or produce a report which would allow the licence	CSOs:	
emergency overflows (E)'s)		rispection	Compilant with licence	may give rise to a minor category 3 environmental event.	e.g. two events occuring one overflow and two at another would	holder to demonstrate compliance with a process ELC)	One or more overflows operating during settled dry weather (not as a consequence of rainfall / snowmelt) and likely to cause to a category 1 or 2 environmental event.	
				Emergency Overflow (EOs): Operating and may give rise to a category 3	be two seperate minor breaches, not a repeat minor breach.		,	
				minor environmental event and not due to power failure, rising main failure, blockage			EOs:  One or more EO's operating not due to power failure, rising main failure, blockage or actions of third party and liable to	
				or actions of third party. and/or Overflows operating before the pass			result in a category 1 or 2 environmental event.	
				forward rate has been exceeded.				
Provision of Screens				Screens not provided with potential or actual minor unauthorised releases.			Screens not provided and resulting in, or likely to result in, a category 1 or 2 environmental event.	e.g. provision 6mm screen is key to ensuing a certain effluent quality
Provision of specific effluent treatment				Effluent treatment equipment/ plant not			Not provided and resulting in, or likely to result in, a category 1	
plant & equipment				provided with potential or actual minor unauthorised releases.			or 2 environmental event.	
Process ELC (b)		Inspection						
Discharge shall not be comminuted or macerated to achieve		inspection		any breach of licence: e.g. evidence of use		N/A	comminution and or maceration used to achieve screening	
screening requirements			maceration or comminution not used to achieve screening standards	any breach of licence: e.g. evidence of use of comminution and or maceration to achieve screening standards	4 or more minor breaches	(Failure to monitor or produce a report which would allow the licence holder to demonstrate compliance	comminution and or maceration used to achieve screening standards and results in , or potentially results in a category 1 or 2 environmental event.	linked to requirements to provide screening
No Environmental						with a process ELC)		
No Environmental Harm Conditions			No environmental harm	Minor environmental event ( category 3) which is not caused by discharge in full compliance with licensed conditions (e.g.	4 or more minor breaches	N/A	Major (category 1) or Significant (category 2) environmental event which is not caused by discharge is full compliance with	catch all condition realting to impacts to water environment.
				due to a spillage on site etc) and which is not accounted for elsewhere.			licensed conditions and not accounted for elsewhere	
Process ELC (c) No significant oil								
No significant oil			No significant oil				Equivalent to a category 1 or 2 environmental event.  Continuous oil sheen in discharge and downstream, or presence of oil in stones and vegetation downstream (for a	
No significant sewage							significant distance).  Equivalent to a category 1 or 2 environmental event.	
solids No significant			No significant sewage solids				Smothering of stream bed around outfall and or significant solids identifiable downstream.  Equivalent to a category 1 or 2 environmental event.	
discoloration		Inspection	No significant discoloration	N/A	N/A	N/A	Equivalent to a category 1 or 2 environmental event.  Discoloration visible for a distance of greater than one river width downstream.	
No significant foaming			No significant foaming				Equivalent to a category 1 or 2 environmental event. Significant difference downstream compared to upstream.	
No significant sewage fungus			No significant sewage fungus				Equivalent to a category 1 or 2 environmental event. Bed of stream blanketed with sewage fungus or tufts of fungus visible over greater than one river width downstream.	
Environmental Eve	ents (classified a	according to table 5)						
Environmental harm		Inspection / environmental events	No environmental harm	Minor environmental event ( category 3) which is not caused by discharge in full	4 or more minor breaches	N/A	Major (category 1) or Significant (category 2) environmental event which is not caused by discharge which is in full	
				compliance with licensed conditions (e.g. due to a spillage on site etc) and which is not accounted for elsewhere.			compliance with licensed conditions and not accounted for elsewhere	
Overall ELC band								
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Environmental EMC attribute	l Managem Licence	ent Compliant	Minor non-compliance	Main and an allowed	Comments
	condition #		minor non-compliance	Major non-compliance	Comments
Management	should be assesse	ed at a level of detail appropriate to the scale and risk of the licensed activities.			
Knowledge of licence by appropriate staff		Appropriate stiff have a good broad knowledge of the Icence and/or its requirements.  This may be demonstrated through written procedure and the operation of these procedures be resum compliance with he Icence.  Compliance with all, or most (4 or more) of the broad knowledge areas (see points 1-6 in comments section).	Limited knowledge of licence by operator. (compliance with some (1-3) but not all of knowledge areas (see points 1-5 in comments)	No knowledge of licence or its requirements by the operator	Awareness of licence requirements and purpose of I fiscace Appropriate salf for Scettish Water enclodes: Team Lader, Serior Operators and Operators. For Trade sites is would be those personnel with day to day responsibility to the treatment to sprian and associated for management.  Good Involvelage of the licence should be assessed against the the operators knowledge and awareness of the following broad areas:  1. The estatence of a lossociate five state.  The estatence of a lossociate five state.  1. The estatence of lossociate five state.  1. The estatence of lossociate five state.  1. As we estate of lossociate five state.  1. As we have the state of lossociate five state.  1. As we have the following possible state of lossociates for state of lossociates and state of lossociates for lo
Process Control: Systems and Procedures		Written procedures or instructions in places and are used efficiently for the process control of critical apposts of the effluent treatment plant (including monitoring systems).  This may include minus deviations from written procedures with no potential or actual breach of an ELC. No Env harm.	Written procedures or instructions in place for the process control of some (but not place) for the process control of some (but not plant (inc monitoring systems); and /or Minor deviations from written procedures with minor actual or potential breach of a ELC sufficient to cause minor environmental harm (cat 3 environmental event)	No written procedures or instructions in place for the process control of critical aspects of the effluent treatment plant (inc monitoring systems); and/or Significant treatment procedures with actual or potential significant treatment of the ELC sufficient to cause significant environmental harm. (Cast 1 or 2 Environmental Event)	Are there procedures for the day to day operation of the the plant?  Systems and procedures can usually only be assessed if a condition is present in the licence which refers to operating and maintaining the plant in accordance with best practice (unless a licence contains specific reference for the requirement to have written procedures).
Emergency procedures / accident plans		Emergency procedures, with testing regime, in place for main foreseable scenarios.  Main foreseable scenarios have been risk assessed.  Comprehensive list of actions to be taken to mitigate potential occurrences and for impacts.	Limited emergency procedures in place.  Limited risk assessment of foreseable scenarios.  Limited riad adequate list of actions to be taken to mitigate potential occurrences and/or impacts.	No written emergency procedures in place.  No risk assessment of foreseable scenarios.  No list of actions to take to mitigate potential occurrences and / or impacts.	Now emergencies been considered? are these procedures plans in place?  This attribute can usually only be assessed if a condition is present in the forement which refers to 'operating and maintaining the plant in accordance with best practice.  Common foreseeable emergencies which SEPA would expect assessments to have be done include: loss of power supply, dealing with unauthorised discharges into the system. Roofing etc.  Other site specific scenarios may arise and it is up to the operator to consider what significant situations are most likely to arise.
Response to incidents (short term)		Incident response was appropriate in preventing, minimising and mitigating the impacts of the releases arising from an incident (e.g. emergency overflows).	Limited / ineffectual practical response to stop, minimise or mitigate the effects of incidents or discharge of effluent during an emergency (e.g. emergency overflows).	No practical response taken to stop or mitigate effects of incidents or discharge of effluent during an emergency (e.g. emergency overflows).	How well did the operator respond to Incidiotes?  This attributes should be assessed if a condition is present in the licence which refers to operating and maintaining the plant in accordance with best practice (e.g. STW condition 124 "Intels 5.1.) or if operation in the licence (e.g. emergency overflows response).  For Scottish Water much of this should be compiled with by following their own EPI_Environmental Pollution incident, system.
Plant and infrastructure	,	Critical Plant:	Critical plant:	Critical plant:	le it working? are operating recordurer being followed?
Operational condition of plant & Infrastructure		United 1987.  No or infrequent breakdown without unauthorised releases  Son Critical Plant.  No, infrequent or frequent breakdown without unauthorised releases;  Infrastructure:  Sas infrastructure fit for purpose.	Linking jacks: Proquent broadcorns with no or potential required broadcorns with no or potential unauthorized broadcorns with minor unauthorized releases; Non-Criscal Plans. Inforquent or broadcorn with inforquent or broadcorn which leads to, or in to linkly to leade to, a minor broadcorn or an ELC (verified by investigative not notifies sampling); infrastructure. See infrastructure has minor defects which See infrastructure in a minor defects which control or control or contro	Label Teach Control of critical plant with minor unauthorised releases; and control breakdown of critical plant with minor unauthorised releases; and control of the contro	Is it working are operating procedures being followed?  Assessment of this supply associated with the presence of a condition relating to operating the plant in accordance with best practice and or specified conditions with a license.  The rain flowar showly be no plant conditioned to be a critical part of an efficient stage. Although pensistes failure of non critical aspects leading to releases countil the scope of the income will be taken into account.  The rain flowar showly a flowar part of the reserve will be taken into account.  The rain flowar showly a flowar part of the reserve will be taken into account.  The relation of the relationship of the rela
Provision and operation of monitoring equipment		Monitoring equipment required by licence installed.  Installed equipment operating with few if any breakdowns. Breakdowns up to a total of 36 days over the year.	Monitoring equipment required by licence installed, but installed equipment unreliable and subject to frequent brookdowns.	Monitoring equipment required by licence not installed; or Installed equipment not working for extended periods of time. Breakdowns contend a total of 108 days over the year	an operators schemance to any company/SEPA protocol on maintaining compliance during maintenance; construction and adverse operating conditions.  Has monitoring equipment been provided, its it working?
			Breakdowns between 37 and 108 days over the year.		Camping ports for treated final effluent CSOs, som tasks, emergency overflows:  - Ano exampling plateits only for swape stemmer works with over 10,000 population equivalent; - Flow monothing distributions; - Flow monothing distributions; - Flow monothing distributions; - Flow monothing distributions; - Telement; - Te
Maintenance of plant, infrastructure and		Fully maintained.	Evidence of lack of maintenance of effluent treatment works and/or	Significant lack of maintenance of effluent treatment works and/or	Is it being maintained? are maintenance procedures being followed?
monitoring equipment (including calibration)		Maintenance procedures in place and adhered to.	Maintenance procedures incomplete or inadequate; and/or	No maintenance procedures in place; or Significant deviation from maintenance procedures, which are	This attribute is assessed where there is a requirement in a licence for maintenance of plant, infrastructure and monitoring systems (e.g. the plant will be operated and maintained in accorance with best practice condition and conditions relating to monitoring equipment).
Reporting and recording	g	Full calibration calibration checks of monitoring equipment.	Deviation from maintenance procedures which have not been notified to and/or agreed by SEPA and/or which are liable to cause a minor environmental event. Cat. 3)  Partial calibration/calibration checks of monitoring equipment.	lable to cause a significant or major entronmental event (Cat. 1 or 2) and/or and/or and/or catibration/catibration checks. of monitoring equipment.	The focus should be on maintenance of critical plant and equipment.  For calibration of meters sep flow meters use guidance document on calibrations of monitoring and measuring equipment as a guide (CAS-G-002)  For Sostitish Water use SEPA/Sostitish Water protocol document for ensuring compliance during maintenance; construction and adverse operating conditions as a guide.
Record keeping, and		All records and data kept and/or collected as stipulated and available for last five years (or as specified)	Most data collected and recorded as	Failure to collect and record a significant proportion of data.	SEPA generally requires records to be kept for five years.
information and records available as required by licence		Licence freely available to view. (but note it does not have to be held on site)	stipulated. A small proportion of records missing and unavailable.  Licence difficult to obtain.	All or a significant number of records are missing and or unavailable.	This aspect include licence availability. If a licence can be readily obtained readily electronicity and or physically it would not matter if the licence is not actually held on size.
Reports to SEPA required under licence		Regions such mitted (where required); to he agreed standard and format and with agreed inscribed. Summay statistics, or [WF and mean shall flow should be calculated from data collected over the year with up to a total of Buildings calculated standards of the calculated from data collected over the year with up to a total of Buildings calculated standards.	inadequate quality. Summary statistics, og DWF and men dally flow calculated from data collected over the year with between 37 and 108 days data missing.	All, or majority of, reports not submitted and/or majority incomplete or madequate quality. Summary statistics, or gOVE and nees daily flow calculated from data with more than a total of 100 days data missing.	New apports required been submitted?  Note: 4 the mason why reports have not been submitted or are incomplete is due to malfunction of monitoring equipment; this should be assessed under the appropriate inflammation as including an analysis of the property of the proper
Reports to SEPA required under licence OSM: requirement to carry out monitoring and provide data to SEPA (licence conditions A2 and A4)		UWWTD_CAR (including QSPAR) discharges where all (100%) of planned determinant results received (no shortfall)	UWWTD discharge determinands other than BOD, COD, Total N and Total P and all CARJOSPAR discharge determinands where 5 10% shortfall in results received	UWWTD docharge determinants where ANY result shortfall for BOD, COD, Total Por Total Nyllwer required. AIC CARCASPAR discharge determinants where >10% shortfall in results received.	Failure to submit a UNWTD BOD. CCD. Total P or Total N result (where required) is an automatic major non-compliance. The shortfall assessment excludes 'influent samples' (which are optional), 'wealther' and 'observation' results.
Notification of incidents		All Incidents notified within timescales and include the required information specified in the licence.  Operator is proactive in discussing incidents and events.	Some but not all incidents notified.  Some of the Incident notifications do not comply with the timescale and/or information requirements specified.	No incidents notified; or Significant number of notifications do not comply with the timescale and Jor information requirements specified.	Nas the operator notified SEPA of all incidents? Applies to all licances
Overall EMC band				•	

Overall compliance band