

WATER USE GUIDANCE

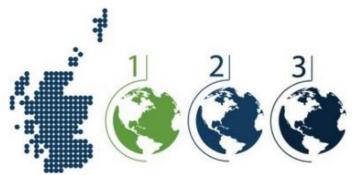
CONSTRUCTION REGULATORY GUIDE

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Every day SEPA works to protect and enhance Scotland's environment, helping communities and businesses thrive within the resources of our planet.

We call this One Planet Prosperity



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Update summary

Version	Description
v1.0	Document first issue Nov 2020
V1.1	Inclusion links to new licence application form N for construction run-off
	Updated definition of large and complex projects for time and materials charging.
V1.2	Updated references for GBRS following updates within CAR 2021 including new GBR 10C for runoff from quarries and borrow pits

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1. Purpose and Scope of this Guide:

This guide provides a high level summary of SEPA's guidance and regulatory controls that may apply to construction projects affecting the water environment.

The guide is for SEPA staff and developers/ contractors etc. working on the planning, construction and regulation of construction projects. This guide does not replace any other guidance but aims to bring the issues together and highlight key documents.

The key aims being:

- to promote early engagement between SEPA and external stakeholders;
- to improve awareness of the potential impacts from construction projects;
- to identify and promote early consideration of the authorisation requirements;
- to provide links to the key guidance documents;
- to encourage application and assessment of multiple water related activities at the same time;
- to reduce the risk of authorisations being refused or significantly delayed.

The <u>CAR Practical Guide</u> is SEPA's main reference document that specifies which activities are regulated to protect the water environment and at what level of authorisation. The CAR practical guide should always be referred to as the main source of information regarding the level of authorisation any activity is controlled by and for any additional detail. There are three levels of authorisation:

General Binding Rules: mandatory rules covering the lowest risk activities (No application required)

Registration: low risk activities which require basic assessment,

conditions are specified to prevent direct and cumulative

impacts (usual determination within 30 days)

Licence: higher risk activities which require detailed assessment and

site specific conditions to prevent direct and cumulative impacts (usual determination within 4 months) (split into

simple and complex license based on risk)

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In addition to the content of this guide our approach to certain sectors is laid out in a series of <u>sector plans</u>. Moving our regulation from individual sites to a sectoral approach supports the aim that all regulated businesses fully meet their compliance objectives and as many as possible go further. The plans applicable to this guide are:

- Housing sector plan
- Strategic infrastructure transport and utilities sector plan

Other SEPA Controls:

For any construction project additional SEPA legislative controls may also apply. These may include requirements for <u>waste management activities</u> and those such as operating mobile plant <u>see pollution prevention and-control Part B guidance</u>. You are advised check other guidance and/or discuss these with SEPA directly as this guide solely relates to activities affecting the water environment.

In addition SEPA has a <u>Biodiversity Duty</u> to further the conservation of biodiversity when exercising its duties. This may require consultation with other authorities.

Other Authorities:

A construction project may also require additional permissions or advice from other authorities, such as local planning authorities, NatureScot (formerly Scottish Natural Heritage) see NatureScot: construction good practice, local district salmon fishery boards, river and fishery trusts and Fishery Management Scotland. A list of other agencies and their roles and responsibilities is summarised here.





Photos above showing typical construction activities involving the water environment.

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2. Potential Impacts and Activities Subject to Authorisation:

Construction projects if poorly planned and managed can result in significant water and riparian impacts during and after construction. The main potential water related impacts and those activities potentially subject to authorisation are:

Pollution impacts from:

- construction run-off (table 1);
- permanent surface water drainage systems (<u>table 2</u>);
- o temporary or permanent sewage discharges (table 3);
- other discharges and pollution incidents such as: fuel and chemical storage/ spillage; hydrostatic testing and novel situations etc. (<u>table 4</u>);

River morphology and physical disturbance impacts from:

- river engineering works such as culverts, bank works, realignments etc.
 (see table 5) These include impacts such as:
 - o adverse effects on the spawning and passage of fish;
 - adverse changes to natural river morphology (loss of instream and bankside habitat diversity, changes in sediment movements etc.);
 - pollution during the construction of river engineering works (e.g. siltation, cement, oil etc.)

Water resources impacts:

Dewatering, abstractions and impoundments (table 6);

Biodiveristy and the spread of invasive non-native species (INNS):

- Application of herbicides close to watercourses or drains (table 7)
- Protection of water based wildlife species (otter passage, bankside nesting etc.) (<u>table 7</u>)

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Note SEPA does not regulate the issues of nuisance (noise, dust and odour) from water related construction activities these are largely controlled via the planning authority and environmental health. However SEPA can apply controls when associated with Waste Management and Pollution Prevention and Control (PPC) activities.

The disturbance and protection of wildlife species (often known as wildlife crime) is regulated by NatureScot (protected species legal framework) (formerly Scottish Natural Heritage) and enforced by wildlife crime units within the Police.

Each of the situations and activities described above often require design and /or working controls to prevent environmental harm. Depending on the scale and nature many of these activities may be subject to authorisation from SEPA.

3. Authorisation Requirements and Approach

A construction site or project may involve a variety of water related activities which may require one or more applications for authorisation and/or require compliance with general binding rules.

The authorisation requirements for a construction project will depend on:

- the area of the construction project: <u>see table 1</u> for further details;
- the nature and scale of the proposed activities: see tables 1-9 in section 4;
- the project timing and timescales: see section 3.1 below.

3.1 A flexible approach to authorisation:

The application system for authorising water related activities is designed to be flexible and allows for activities to be authorised to fit in with the programme of works for the construction project.

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Large construction projects often have multiple activities which will require authorisation. These activities could fall under any of the levels of authorisation general binding rule (GBR), registration or licence (simple or complex) as detailed in the <u>CAR practical guide</u>. This may mean that a single authorisation will contain many activities at different levels of authorisation.

Registration and licence activities can be referenced within one authorisation document, however general binding rule activities do not require prior authorisation and these activities would not be listed within a license or registration.

SEPA's preference is for applications to follow these principles:

- Apply for as many water related activities as possible at the same time;
- Ideally registration activities should be included in any licence application(s)
- Multiple applications can be made to coincide with phases of a project;

This approach is strongly encouraged but it is accepted that in some cases it may be necessary to apply separately for certain activities such as where these activities need to take place in advance of the main construction works.

This approach helps to:

- deliver a joined-up, proportionate and efficient approach to regulation and the protection of the water environment;
- facilitate efficient permit administration and to provide cost savings for an applicant from multiple activity application discounts (see our <u>Charging</u> Calculator);
- Create simpler authorisations that reduce the burden on the operator.

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4. Summary of Regulatory Requirements:

The key regulatory requirements and guidance for water related activities for a construction project are summarised in tables 1- 8 below.

Check through each of the tables to see if and what regulatory controls will apply to your proposals. The exact controls which will apply and the degree of assessment required will be based on a combination of the scale of the project and the nature of individual elements of the proposal.

A basic checklist has been provided in <u>section 5</u> to help track and summarise the requirements

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Table 1: Determining Scale of Project & Controls on Construction Run-off				
Criteria	Regulatory Requirements	Guidance		
1(a) Large and Complex	Projects of this scale will	Sect 3.4 Charging Scheme		
Construction Projects:	be assessed by SEPA to	<u>Guidance</u>		
Projects that undertake one	see if they are large and	Large and complex		
or more controlled	complex. This assessment	activities arrangements for		
activities (including the	will establish the length and	consultation, applications and		
discharge of water run-off	type of work which will be	fees will be put in in place.		
from a construction site to	involved, how SEPA will			
the water environment) and	consult and work with you	The guidance listed in the		
are:	and how application and	row 1(b) below will apply to		
a) A project (or part of a	subsistence charges will be	projects of this scale.		
project) that is a	levied.			
National Development,	Large and complex			
as identified in	construction projects are			
the National Planning	often large infrastructure			
Framework;	projects.			
b) An onshore electricity				
generating station, wind				
farm or power station				
with a capacity of				
greater than				
50 megawatts; and / or				
c) A linear project greater				
than 25km in length.				
1(b) Construction area:	This a considered a large	Licence application will be		
Greater than 4ha; or	construction site.	required for construction		
Greater than 5km of		related surface water run-		
track or road; or	Licence application is	off. See:		
Greater than 500m or	required for all large	WAT-SG-75: Sector		
1ha of ground with a	construction sites to	Specific Guidance:		
slope greater than 25	regulate the construction	Construction Sites		
degrees.	related surface water run-	Pollution Control for		
	off.	Construction Site		
		<u>Licences</u>		

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Note the definition of area (note where the project is **Licence application** Form A and Form N or length can include considered a large Application form A combinations of sections construction site this will e.g. 3 independent sections affect some pre-application guidance and technical assessment Sect 3.4 Charging of track 1km long plus 3km of road etc. being done as processes for any Scheme Guidance engineering activities) part of the same project or phase of a project. The construction site See CAR practical guide 1(c) Construction area: Less than or equal to 4ha; related surface water run-(pollution control regime) for Less than or equal to 5km off is subject to the rules in details. of track or road; General Binding Rule Less than or equal to 500m (GBR) 10D For details regarding pollution or 1ha of ground with slope For these smaller prevention plans see WAT->25degrees etc. construction sites, no SG-75: Sector Specific Guidance: Construction direct application for authorisation regarding the Sites. site run-off to SEPA is required. Rules within WAT-SG-12 GBR10 set the generic Supporting Guidance: controls required. Good General Binding Rules for practice to prevent Water Run-off and pollution is strongly Discharge into Surface encouraged. This does not Water Drainage Systems alter the requirement for the regulation of other activities taking place.

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Table 2: Discharge from Permanent Surface Water Drainage Systems				
Criteria	Regulatory Requirements	Guidance		
2(a) Permanent surface	Simple licence application	<u>CAR practical guide</u>		
water drainage systems	will be required prior to any	(pollution control		
which will discharge to the	permanent surface water	regime)		
water environment and	discharges taking place	• <u>WAT-RM-08:</u>		
serve:	from the type of areas	Sustainable urban		
Greater than 30ha of	listed in the criteria.	drainage systems		
land used for		(SUDS)		
residential purposes;	(*See CAR practical guide			
or	for further details regarding	Licence application		
More than 1km of	qualifying dates and	Form A and Form B		
motorway or trunk	modifications)	Application form A		
road (discharging to a		<u>guidance</u>		
single outfall)*; or		Application form B		
 Industrial estates; or 		<u>guidance</u>		
More than 1000 car		• Charging		
park spaces				
2(b) Permanent surface	The surface water	CAR practical guide		
water drainage	discharge will be subject to	(pollution control		
systems which will	the rules in GBR 10A or	regime)		
discharge to the water	10B)	• <u>WAT-SG-12</u>		
environment and		Supporting Guidance:		
serve:		General Binding Rules		
Less than or equal to		for Water Run-off and		
30ha of land used for		Discharge into Surface		
residential purposes;		Water Drainage		
or		Systems		
Less than or equal to				
1km of Motorway or				
trunk road; or				
Industrial estates; or				
Less than or equal to				
1000 car park spaces.				

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Table 3: Temporary or Permanent Sewage Discharges				
Criteria 1	Regulatory Requirements	Gu	Guidance	
3. Discharge of treated	NB The level of authorisation	•	CAR practical guide	
sewage effluent from	and any application charge		(pollution control	
temporary or permanent	will depend on the scale of		regime)	
buildings/ cabins etc.	the sewage discharge in	•	British water code-of-	
indirectly to groundwater	terms of population		practise-flows-and-	
via a soakaway or directly	equivalent (p.e.) -for		loads	
any river, loch, estuary or	determining flows and loads			
sea.	see British water flows and			
	loads document.			
	See p.e. criteria in rows			
	3(a) and (b) below:			
3(a) Discharge of sewage	Registration application	•	Application form:	
effluent where population	will be required.		Registering a New	
equivalent (p.e.) is ≤15.	There is a general preference		<u>Discharge</u>	
	to discharge such scale	•	Septic tanks and	
	discharges to soakaway		private sewage	
	where the ground conditions		treatment systems	
	are suitable.	•	Charging	
3(b) Discharge of sewage	Licence application will be	•	Licence application	
effluent where Population	required.		forms A and Form B	
Equivalent (p.e.) is >15.	>15 –100 p.e. Simple	•	Application form A	
	Licence		guidance	
	>100 p.e. Complex Licence	•	Application form B	
			guidance	
		•	<u>WAT RM 03:</u>	
			Regulation of Sewage	
			discharges to surface	
			<u>water</u>	
		•	WAT RM 04: Indirect	
			discharges of sewage	
			effluent to groundwater	
		•	Charging	

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Table 4: Other Discharges and Pollution Controls				
Criteria	Regulatory Requirements	Guidance		
4(a) Any other discharges	Depending on the nature and	As this section could		
to the water environment	scale of the activity they could	involve a wide variety of		
(surface water and	be subject to:	novel discharges or		
groundwaters) such as	• GBR's (see GBRs: 11; 16;	situations it will be best to		
runoff from quarries and	21; 22; 26 and 28 which	consult:		
borrow pits, jetting,	may apply)			
cleaning, concrete/cement	 registration; or 	the <u>CAR practical</u>		
wash water, hydrostatic	• licence (simple or complex)	guide (pollution control		
testing of pipelines		regime section) for		
(excepting the discharge	Note runoff from quarries and	details.		
from dewatering activities	borrow pits constructed after 1	contact SEPA		
which are covered in table	Jan 2022 is now covered by	the full list of SEPA's		
6 below)	GBR 10C	pollution control		
		<u>guidance</u>		
	Novel situations should be	WAT-SG-12 (see GBR)		
	discussed with SEPA prior to	10C for runoff from		
	submitting any applications to	quarries and borrow		
	determine the appropriate level	<u>pits)</u>		
	of authorisation and suitable	see also a variety of		
	mitigation controls.	pollution control		
		advice on the Netregs		
	General controls may also	website: NetRegs -		
	apply to prevent pollution	Guidance for Pollution		
	occurring from certain	Prevention (GPPs)		
	activities.			
		• Charging		

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Table 5: Engineering Activities				
Criteria	Regulatory Requirements	Guidance		
5(a) Activities defined as	NB The level of authorisation	CAR Practical Guide		
engineering activities	and any application charge	(engineering regime)		
within the engineering	will depend on the type and	WAT-RM-02: Regulation		
regime section of the CAR	scale of the engineering	of Engineering		
Practical Guide such as	activity. Control may apply at	<u>Activities</u>		
new or modified bridges,	any of the three levels of	Fish protection guidance		
culverts, bank	authorisation:	(currently under		
reinforcement, channel	• GBR's: 5,6,7,8,9,12,13,14	development)		
modifications (diversions,	and 25 may apply	Engineering checklists		
realignment etc.)	 registration 	(currently under		
	licence (simple or	development)		
	complex)	Licence application form		
		A and Form E		
	Note if your construction	Application form E		
	project meets the criteria of a	guidance		
	large construction site then			
	any licensable (simple or	Application form:		
	complex) engineering	Engineering		
	activities are likely to be	Registrations		
	subject to additional			
	assessment and design			
	drawings as part of any	• Charging		
	application. You should	List of engineering-		
	discuss this directly with	guidance documents		
	SEPA prior to submitting any			
	applications.	Contact SEPA		

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Table 6: Dewatering Excavations, Other Abstractions and Impoundments			
Criteria	Regulatory Requirements	Guidance	
6(a) Temporary dewatering of excavations	GBR's 3 and 15 apply to temporary dewatering	See the abstraction regime section of the	
either directly or indirectly.	abstractions during construction. Where the conditions of the GBR cannot be met a registration or licence application must be made. Note GBR 15 also covers the	CAR Practical Guide for details of the GBR rules.	
6(b) Any other	discharge of the abstracted water back to the water environment. The level of authorisation and	See the abstraction	
abstractions of water from inland surface or ground waters.	application charge will depend on the type and scale of the abstraction activity.	regime section of the CAR Practical Guide for details of the GBR rules and other details.	
	A construction project may require abstraction of water for a variety of one off or novel applications such a hydrostatic testing of pipelines etc. these should be discussed with SEPA prior to submitting any applications to determine the level of authorisation which SEPA will apply and any mitigation required.	 Water abstractions - web page Licence application Form A and Form D Application form: Abstraction Registrations Charging Contact SEPA 	

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6 (c) Any new or modified	The level of authorisation and	See the Impoundment
impoundments.	application charge will	regime section of the
	depend on the type and scale	CAR Practical Guide
	of the impoundment activity.	for details on the levels
		of authorisation, GBR
	A construction project may	rules and other details
	involve construction or	Impoundment web
	modification of new or	page
	temporary impoundments.	For works associated
	Due to the variety of	with flood defence
	situations these should be	works see WAT-SG-47
	discussed with SEPA prior to	WOIKS SEE <u>WAT-30-47</u>
	submitting any applications to	
	determine the level of	
	authorisation which SEPA will	
	apply and any mitigation	
	required.	

Table 7: Use of Herbicides / Biosecurity and Invasive Non Native Species			
Criteria	Regulatory Requirements	Guidance	
7(a) Application herbicides	GBR 23 will apply	See <u>CAR Practical</u>	
during construction or post	except where:	Guide for detail	
completion.	Application is within 1m of	• see Annex 1 WAT-SG-	
	a watercourse, as	<u>18</u>	
	measured from the top of	• Registration	
	the bank, to control	application form for	
	species which are not	using a herbicide	
	invasive species – in	<u>Licence application</u>	
	this case a registration	Form A	
	application will be	<u>Licence application</u>	
	required;	form M	
	 Any application of 	Application form A	
	herbicide directly	<u>guidance</u>	
	onto/into a watercourse	• <u>Charging</u>	
	will require application for		
	a simple licence;		

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	The application is within 250m of any abstraction used for human consumption in which case a simple licence application will be required.	
	See GBR 23 for full	
	requirements.	
7(b) Use of any other	You should discuss the use	Contact SEPA to
pesticides which are not	of any other pesticide which	discuss
herbicides (i.e.	isn't a herbicide near water	
insecticides, fungicides,	with SEPA to determine if	
preservatives etc.) near	any form of regulatory	
water.	controls need to be applied	
	for.	
7(c) Biosecurity	Measures should be taken to	SEPA Biodiversity
precautions need to be	prevent the introduction of	Web Page
taken during all	non-native and non-native	Biodiversity/invasive-
construction activities to	invasive species.	non-native-species/
prevent the spread of non-		Construction guidance
native and invasive non-	The main regulatory	on biosecurity and
native species.	requirements are under	management of
	Section14 of the Wildlife and	invasive non-native-
	Countryside Act 1981.	species-construction-
		<u>sites</u>
	SEPA also has a Biodiversity	
	Duty to further the	Scottish Government
	conservation of biodiversity in	Non-Native Species
	exercising its duties.	Code of Practice

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Table 8: Other activities which may require regulation in other legislation

If the project may involve the use of mobile crushers/cement batchers etc. see SEPA's guidance on the pollution prevention and control regulations with particular relevance to Part B processes listed under section 3 of the PPC regulations. See the <u>pollution-prevention-and-control page on SEPA's website.</u>

Ensure you are compliant with <u>waste management</u> legislation, including duty of care controls.

Other agencies also provide advice on good practice for the construction industry

- NatureScot: Construction good practice planning and development
- See Other Agencies Responsibilities

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5. Checklist:

Below is a simple checklist that could be used and adapted to aid keeping track of which water related activities/issues will need to be investigated and the level of authorisation that is likely to apply for any project or phase of a project.

Summary Checkli	st		
Project Name:			
Project Phase:			
Anticipated Duration and Project Dates			
Project Criteria	Y/N	Relevant Table	Comments /Notes
Project size/ (Phase Size)			
Large and complex Projects			
>4ha; or>5km; or >0.5km >25degree slope		Table 1 Applies in all cases	
<=4ha			
Water Related Activities			
Construction phase Surface water		Table 1	
Permanent Surface water discharge		Table 2	
Sewage discharge		Table 3	
Other Discharge		Table 4	
Engineering Activities		Table 5	
Dewatering		Table 6	
Any other abstraction		Table 6	
Impoundments		Table 6	
Herbicide application		Table 7	
Any other activity		Table 8	
Other issues to note or follow up			

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6. Additional and Supplementary Guidance:

This section provides links to additional and supplementary guidance:

6.1 All Regulated Activities:

- <u>CAR practical guide</u> provides guidance on regulatory activity definition and the level of authorisation required.
- <u>Authorisations and permits guidance on making an application for authorisation.</u>
- Charging Schemes and summary charging-booklets
- Charging-scheme-calculator.
- Sectors information on SEPA's sector approach and sector plans:
 - Strategic Infrastructure Transport and Utilities Sector Plan
 - Housing Sector Plan
- SEPA Water Regulation Main Web Page
- WAT-SG-93: Guidance for transport infrastructure projects
- Other Agencies responsibilities

External Links:

- CIRIA https://www.ciria.org/ contains many detailed construction related guidance documents.
- CIRIA: Control of water pollution from construction sites. Guidance for consultants and contractors (C532)
- CIRIA: Control of water pollution from linear construction projects. Site guide
- NatureScot: Construction good practice planning and development (www.nature.scot)
- NetRegs -Environmental guidance for business in Northern Ireland & Scotland (www.netregs.org.uk)
- NetRegs Guidance for Pollution Prevention (GPPs)

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6.2 Pollution Control Activities:

- <u>List of SEPA Pollution Control Guidance Documents</u>
- WAT-SG-75: Sector Specific Guidance: Construction Sites.
- WAT-SG-12: Supporting Guidance: General Binding Rules for Water Run-off and Discharge into Surface Water Drainage Systems)
- WAT-RM-08: Sustainable urban drainage systems (SUDS)
- British water code-of-practise-flows-and-loads document 4 Sizing Criteria,
 Treatment Capacity for Sewage Treatment Systems (www.britishwater.co.uk)

6.3 River Engineering Activities:

• List of all SEPA Engineering Guidance Documents

SEPA have good practice guides on various river engineering topics:

- Sustainable Riverbank Protection Guidance
- WAT-SG-23 Good Practice Guide Bank Protection
- WAT-SG-25: Good Practice Guide River Crossings
- WAT-SG-26: Good Practice Guide Sediment Management
- WAT-SG-28: Good Practice Guide Intakes and Outfalls
- WAT-SG-29: Good Practice Guide Construction Methods
- WAT-SG-44: Good Practice Guide Riparian Vegetation Management
- Ponds, Pools and Lochans: Guidance on good practice in the management and creation of small waterbodies in Scotland
- Managing River Habitats for Fisheries

Other supporting documents largely aimed for SEPA internal use are listed below

- WAT-SG-31: SEPA Special Requirements for Civil Engineering Contracts for the Prevention of Pollution
- WAT-SG-32: SEPA Guidance on the Special Requirement for Civil Engineering Contracts
- WAT-SG-21 Environmental Standards for River Morphology

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6.4 Dewatering Other Abstraction and Impoundment Activities:

- SEPA Water Abstractions Web Page
- SEPA Impoundment Web Page

6.5 Biodiversity /Invasive Non-Natives /Herbicides:

- SEPA Biodiversity Web Page
- Construction guidance on biosecurity and management of invasive nonnative-species-construction-sites
- Scottish Government Non-Native Species Code of Practice
- WAT-SG-18 Control of Plants in or near to water

END

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