

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

NNB Generation Company (HPC) Limited

Water Management Zones and effluent treatment units serving
Hinkley Point C Construction Site
Hinkley Point C Power Station
Near Bridgwater
Somerset
TA5 1UD

Variation application number

EPR/JP3122GM/V013

Permit number

EPR/JP3122GM

Water Management Zones and effluent treatment units serving Hinkley Point C Construction Site

Permit number EPR/JP3122GM

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

This variation (EPR/JP3122GM/V013) amends the water discharge activity (WDA) permit description of water discharge activity (WDA) references A1(i), A1(ii) and A1(iii) for the additional discharge via the construction surface water network of small volumes of ammoniated firewater released during the fire hydrant pressure and flow testing of the site's fire hydrant network (up to 10m³/day).

This variation also permits the addition of a new WDA as reference J (as J(i) and J(ii)); these comprise effluents that have been segregated from the existing permitted WDA reference I effluents. The operator requires this segregation to ensure that the whole capacity of the discharge through WDA reference I is utilised for the effluent containing concentrations of hydrazine and/or ammonia (which will receive treatment by the site's commissioning effluent treatment plant (CETP) prior to its discharge via outlet 12).

WDAs J(i) and J(ii) will also be discharged via outlet 12 and are required to allow for the discharge of effluents generated as part of cold commissioning activities and from the site's demineralised water plant:

- WDA reference J(i): This effluent is generated from hydro-testing and flushing associated with cold commissioning activities not containing ammonia and/or hydrazine (but potentially containing ethanolamine and trisodium phosphate) that bypasses the CETP up to a maximum volume of 1,500m³/day.
- WDA reference J(ii): This effluent is generated from the production of demineralised water from the site's demineralised water plant up to a maximum volume of 1,500m³/day; this involves purifying water to be used for the hydro-testing and flushing described above. The production of this demineralised water results in a by-product (comprising a concentrate of potable water) and use of DBNPA (2,2-dibromo-3-nitropropionamide, CAS reference: 0222-01-2) as a biocide to prevent biofouling of the reverse osmosis (RO) and pre-treatment filters.

The variation also permits a change of the discharge pattern from an originally planned batched discharge to a continuous discharge for the existing permitted WDA reference I, and newly permitted WDA references J(i), and J(ii). The operator has confirmed this change is required to increase operational flexibility and to efficiently utilise the CETP following its detailed design outcomes.

Finally, the variation also permits the discharge (via the water management zones (WMZs) under WDAs A1(i), A1(ii) and A1(iii)) of small volumes of natural groundwater seepage into the completed tunnels (two cooling water intake tunnels and single cooling water outlet tunnel) and raking drains, as well as small volumes of rainfall generated surface water run-off from the tunnel entrances (which does not increase the existing permitted discharge rate via WDAs A(i), A(ii) and A(iii) of 1,800 litres per second (l/s)).

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements. We are satisfied that the permit will ensure that a high level of protection is provided for the environment and human health and that the activities will not give rise to any significant pollution of the environment or harm to human health.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Permit determined EPR/JP3122GM	29/02/2012	Permit issued to NNB Generation Company Limited.
Variation determined EPR/JP3122GM/V002	28/11/2013	Amendments associated with revised proposals for Early Works Water Management Zones (WMZs) in response to pre-operational (PO) conditions PO1, PO5, PO6 and PO8. Inclusion of drainage arising from the construction of the sea wall.
Variation determined EPR/JP3122GM/V003	12/02/2015	Variation to increase the volume of concrete wash water discharged and add a new WDA (activity G) for the discharge of trade effluent consisting of site drainage from WMZ6 via Outlet 11.
Variation determined EPR/JP3122GM/V004	03/12/2015	Variation to change company name where the company number has not changed.
Variation determined EPR/JP3122GM/V005	15/03/2017	Variation to reduce the volume, impose load based and concentration limits on activity E (discharge of trade effluent consisting of pumped groundwater) and incorporating new operating techniques (OTs 9, 10 and 11).
Variations determined EPR/JP3122GM/V006 and EPR/JP3122GM/V007	20/03/2018	Variation to add activity E2 discharge of trade effluent consisting of pumped groundwater, amend the registered address, and inclusion of a new WDA (activity H) to discharge wastewater that will be generated during the construction of the heatsink tunnels.
Variation determined EPR/JP3122GM/V008	26/07/2021	Variation to amend the wording of the limits of specified activity to WDAs A, B, C, F and H, to alter the discharge point and increase the maximum daily flow rate for WDA F and surrender WDAs D and G.
Variations determined EPR/JP3122GM/V009 and EPR/JP3122GM/V010	25/03/2022	Variation (V009) to include an additional discharge via outlet 12 comprising effluent from cold commissioning activities, including hydro-testing and demineralised water production, and variation (V010) to increase the amount of ammonia that can be discharged via WDAs E2 and H.
Variation determined EPR/JP3122GM/V011	22/07/2024	Variation to increase the concentrations of dissolved inorganic nitrogen (DIN), cadmium and chromium that can be discharged via WDA H.
Variation determined EPR/JP3122GM/V012	22/09/2025	Variation to add numeric compliance limits for copper, chlorine and zinc for discharged via outlet 12 under WDA I (activity I) from the commissioning effluent treatment plant (CETP), and incorporating an updated version of operating technique 13 (OT13) for use of biocide for cleaning the water demineralisation plant reverse osmosis membranes (and subsequent use of sodium bisulphite for the neutralisation/de-activation of the biocide).
Application EPR/JP3122GM/V013 (variation and consolidation)	Duly made 12/08/2025	Variation application to add ammoniated fire water to WDA A1(i), A1(ii) and A1(iii), add WDA J(i) and J(ii) which are segregated effluents from the existing permitted WDA I. WDAs I, J(i) and J(ii) will occur as continuous instead of batched discharges via outlet 12.
Additional information received	24/11/2025	Additional information and clarification provided regarding the application's supporting surface water pollution risk assessment (SWPRA/H1) and technical reports (TR) TR428 and TR611.
Additional information received	19/12/2025	Additional information and clarification provided regarding the application's SWPRA/H1.
Additional information received	22/12/2025 and 30/01/2026	Request for inclusion of additional discharge of small volumes of natural groundwater seepage (from the completed tunnels and raking drains) and rainfall generated surface water run-off (from the tunnel entrances)
Variation determined EPR/JP3122GM	31/03/2026	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/JP3122GM

Issued to

NNB Generation Company (HPC) Limited (“the operator”)

whose registered office is

**Building 1000
Park Avenue
Aztec West Business Park
Almondsbury
Bristol
England
BS32 4SQ**

company registration number 06937084

to operate water discharge activities at

**Hinkley Point C Construction Site
Hinkley Point C Power Station
Near Bridgwater
Somerset
TA5 1UD**

to the extent set out in the schedules.

The notice shall take effect from 31/03/2026

Name	Date
Rebecca Coales	31/03/2026

Authorised on behalf of the Environment Agency

Schedule 1

Only conditions 2.2.1, 2.3.1, 3.1.1 and 3.3.1, and Schedules 1 (tables S1.1 and S1.2), 3 (tables S3.1, S3.2 and S3.3) and 4 (tables S4.1 and S4.2) have been varied by the consolidated permit EPR/JP3122GM as a result of the application made by the operator.

The following conditions were varied as a result of the application made by the operator:

2.2.1, 2.3.1, 3.1.1, 3.3.1, Schedule 1 (tables S1.1 and S1.2), Schedule 3 (tables S3.1, S3.2 and S3.3) and Schedule 4 (tables S4.1 and S4.2)

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/JP3122GM

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/JP3122GM/V013 authorising,

NNB Generation Company (HPC) Limited (“the operator”),

whose registered office is

**Building 1000
Park Avenue
Aztec West Business Park
Almondsbury
Bristol
England
BS32 4SQ**

company registration number 06937084

to operate water discharge activities at

**Hinkley Point C Construction Site
Hinkley Point C Power Station
Near Bridgwater
Somerset
TA5 1UD**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Rebecca Coales	31/03/2026

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of the permit.

2 Operations

2.1 Permitted activities

- 2.1.1 The only activities authorised by the permit are the activities specified in schedule 1 table S1.1.

2.2 The site

- 2.2.1 The discharge activities shall take place at the discharge points marked on the site plans at schedule 7 to this permit, and as listed in table S3.2; and, the operating techniques that are the subject of conditions prefixed by 2.3 shall be applied at the locations shown, or otherwise described, in schedule 7.

2.3 Operating techniques

- 2.3.1 For the activities (A1(i), A1(ii), A1(iii), B, C, E1, E2, F, H, I, J(i) and J(ii)) referenced in schedule 1, table S1.1 the activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.4 Pre-operational conditions

- 2.4.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.3 have been completed.

3 Emissions and monitoring

3.1 Emissions to water

3.1.1 The limits given in schedule 3 table S3.1 shall not be exceeded.

3.2 Emissions of substances not controlled by emission limits

3.2.1 The operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).

3.2.2 For the activities (A1(i), A1(ii), A1(iii), B, C, E1, E2, F, H, I, J(i) and J(ii)) referenced in schedule 1, table S1.1 all oils or chemicals stored in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Monitoring

3.3.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1 and S3.3.

3.3.2 The operator shall maintain records of all monitoring required by this permit.

3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.3.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme and/or other monitoring to be carried out at the monitoring points specified in table S3.3 of schedule 3 and shown marked on the site plans in schedule 7.

4 Information

4.1 Records

4.1.1 All records required to be made by schedule 3, 4 and 5 to this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made.

4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plan and management system required to be maintained by this permit.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within the time period after the end of the reporting period specified in schedule 4 table S4.1 the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and monitoring points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified as soon as reasonably practicable following detection, within the site of the regulated facility of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution; and
 - (b) any breach of a limit specified in schedule 3 table S3.1.
- Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to the Environment Agency as soon as reasonably practicable following detection.
- 4.3.2 The information provided under condition 4.3.1 shall be supported by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified as soon as reasonably practicable, in accordance with operating technique OT10 as specified in schedule 1 table S1.2:
- (a) when the discharge of trade effluent consisting of pumped groundwater temporarily reverts back from Outlet 12 (as per Activity E2 referenced in schedule 1, table S1.1) to Outlet 1 (as per Activity E1 referenced in schedule 1, table S1.1); and
 - (b) when the temporary discharge of pumped groundwater via Outlet 1 ceases (as per Activity E1 referenced in schedule 1, table S1.1) and the discharge of pumped groundwater via Outlet 12 recommences (as per Activity E2 referenced in schedule 1, table S1.1).
- 4.3.4 The Environment Agency shall be notified in writing;
- (a) at least one month prior to each Water Management Zone becoming operational; and
 - (b) of the date each Water Management Zone becomes operational, within one month of becoming operational.
- 4.3.5 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.6 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (c) any change in the operator's name or address; and
- (d) any steps taken with a view to the dissolution of the operator.

4.3.7 Where the operator proposes to make a change in the nature of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:

- (a) the Environment Agency shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
- (b) the notification shall contain a description of the proposed change.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "as soon as reasonably practicable", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities		
Activity reference	Description of activity	Limits of specified activity
A1(i), A1(ii) and A1(iii)	Discharge of trade effluent consisting of site drainage and groundwater via Outlet 1	<p>(a) Rainfall dependent run-off and surface water pumped from excavations and structures within Built Development Area East (BDAE) and Built Development Area West (BDAW) and including run-off from:</p> <ul style="list-style-type: none"> (i) onshore activities associated with the jetty aggregates storage area; (ii) construction of the sea defence wall; (iii) permitted crushing and sorting of waste and non-waste materials; (iv) restoration of construction areas; (v) the Shurton Substation compound; and (vi) the completed tunnel entrance areas (serving the two cooling water intake tunnels and cooling water outlet tunnel) <p>(b) Waste potable/surface water not containing hazardous chemicals and elements from activities including dust suppression, general cleaning of surfaces, vehicle cleaning, wheel wash facilities, hydro-demolition and dewatering of road sweepings/silts, or other equivalent activity as agreed in writing with the Environment Agency.</p> <p>(c) Effluent generated from testing and flushing of pipes and systems using site-derived surface water, potable water or demineralised water not containing hazardous substances.</p> <p>(d) Effluent composed of ammoniated firewater generated from testing of the site's fire hydrant system</p> <p>(e) Naturally occurring groundwater generated from:</p> <ul style="list-style-type: none"> (i) seepage through the tunnel linings of the three completed cooling water tunnels (comprising two cooling water intake tunnels and single cooling water outlet tunnel) (ii) accumulation within the raking drains <p>Effluent treatment of (a), (b), (c), (d) and (e) above shall be provided by Water Management Zones (WMZ) including:</p> <ul style="list-style-type: none"> • WMZ 1 for Activity A1(i) • WMZ 2 for Activity A1(ii) • WMZ 3 for Activity A1(iii)

Table S1.1 Activities

Activity reference	Description of activity	Limits of specified activity
B	Discharge of trade effluent consisting of site drainage via Outlet 3	<p>(a) Rainfall dependent run-off and water pumped from shallow excavations within the Southern Construction Phase Area (SCPA), including run-off from the materials stockpile areas and the area used for permitted crushing and sorting of waste and non-waste materials.</p> <p>(b) Waste potable/surface water not containing hazardous chemicals and elements from activities including dust suppression, general cleaning of surfaces, vehicle cleaning, wheel wash facilities, hydro-demolition and dewatering of road sweepings/silts, or other equivalent activity as agreed in writing with the Environment Agency.</p> <p>Effluent treatment shall be provided by WMZ 5.</p>
C	Discharge of trade effluent consisting of site drainage via Outlet 4	<p>(a) Rainfall dependent run-off and water pumped from shallow excavations within the SCPA.</p> <p>(b) Waste potable/surface water not containing hazardous chemicals and elements from activities including dust suppression, general cleaning of surfaces, vehicle cleaning, wheel wash facilities, hydro-demolition and dewatering of road sweepings/silts, or other equivalent activity as agreed in writing with the Environment Agency.</p> <p>Effluent treatment shall be provided by WMZ 4.</p>
E1	Discharge of trade effluent consisting of pumped groundwater via Outlet 1	<p>Groundwater from the groundwater dewatering system required to dewater the excavation voids located within BDAE and BDAW.</p> <p>Discharge via Outlet 1 shall cease on completion of commissioning of Outlet 12 in accordance with 4.3.4.</p> <p>Once Activity E2 has commenced and Activity E1 ceased in accordance with 4.3.4 Activity E1 may only recommence in an emergency as specified in operating technique OT10, referenced in Table S1.2 and in accordance with 4.3.4.</p>
E2	Discharge of trade effluent consisting of pumped groundwater via Outlet 12	<p>Groundwater from the groundwater dewatering system required to dewater the excavation voids located within BDAE and BDAW.</p>
F	Discharge of trade effluent consisting of cementitious wash water via Outlet 12	<p>Wash water from the washing down of:</p> <p>(a) vehicles used to transport cementitious products to the required location on the construction site; and</p> <p>(b) batching plants and equipment such as pumps and tools which are being used with cementitious products.</p> <p>Effluent treatment shall be provided by a Cementitious Wash Water Treatment System.</p> <p>Wash water to be discharge will be restricted to those wash water streams/sources that have been assessed under PO2.</p>
H	Discharge of trade effluent consisting of tunnelling effluent and muck bay drainage via Outlet 12	<p>Tunnelling effluent will consist of wastewater pumped out from the pit-bottom of the tunnels required to construct the power station heatsink system as they are constructed (during or following tunnel excavation), as well as drainage from temporary spoil storage areas. These will include groundwater and low concentrations of soil conditioning chemicals. Muck bay drainage will consist of leachate from the tunnelling spoil containing low concentrations of soil conditioning chemicals and low levels of groundwater, as well as a rainfall dependant surface water runoff within the muck bay curtilage.</p>

Table S1.1 Activities

Activity reference	Description of activity	Limits of specified activity
I	Discharge of trade effluent consisting of effluent from cold commissioning activities via Outlet 12	<p>The effluent shall be generated from cold commissioning activities potentially containing ammonia and/or hydrazine that require treatment via the commissioning effluent treatment plant (CETP), including:</p> <ul style="list-style-type: none"> (a) Hydro-testing: this involves filling components and systems with water up to a certain pressure to test for leaks. (b) Flushing: this involves filling and emptying the components and systems several times to check they are clean and flowing correctly.
J(i) and J(ii)	Discharge of trade effluent consisting of effluent from cold commissioning activities via Outlet 12	<p>The effluent shall be generated from cold commissioning activities and the demineralised water plant including:</p> <ul style="list-style-type: none"> J(i) The effluent generated from hydro-testing and flushing associated with cold commissioning activities not containing ammonia and/or hydrazine (but potentially containing ethanolamine and trisodium phosphate) that bypasses the CETP up to a maximum volume of 1,500m³/day. J(ii) The effluent generated from the production of demineralised water from the site's demineralised water plant up to a maximum volume of 1,500m³/day; this involves purifying water to be used for the hydro-testing and flushing described above. The production of this demineralised water results in a by-product (comprising a concentrate of potable water) and use of DBNPA as a biocide to prevent biofouling of the reverse osmosis (RO) and pre-treatment filters.

Table S1.2 Operating techniques

Activity reference	Description of documentation	Parts	Date Received	Comments
A1(i), A1(ii), A1(iii), B and C	OT1 – Construction Water Discharge Activity Submission for Hinkley Point C (NNB-OSL-REP-000359)	Section 3 – Pollution Control Measures and Best Practice Section 6.3 – Emissions Management Plan	23/09/2011	Superseded by other Operating Techniques, as confirmed by NNB GenCo for issue of EPR/JP3122GM/V008
A1(i), A1(ii), A1(iii), B and C	OT2 – Surface Water Emissions Operating Techniques (100178264)	All	24/03/2022	Document referenced is latest version as confirmed by NNB GenCo at issue of EPR/JP3122GM/V010
A1(i), A1(ii) and A1(iii)	OT3 – Attachment 1 – HPC Construction WDA Permit Application – Schedule 5 Notice Response (NNB-OSL-REP-0001242 Version 1.0)	Response to Question 7 of Schedule 5 Notice, with regard to the management of drainage from the construction of the marine offloading jetty and from the associated aggregates storage area.	23/12/2011	Superseded by other Operating Techniques, as confirmed by NNB GenCo for issue of EPR/JP3122GM/V008
D4	OT4 – Construction Water Discharge Activity Submission for Hinkley Point C (NNB-OSL-REP-000359)	Section 2.3.5 – Early Discharges to Holford Stream	23/09/2011	Superseded by other Operating techniques, as confirmed by NNB GenCo for issue of EPR/JP3122GM/V008. Early works have been completed.
A1(i), A1(ii), A1(iii), B and C	OT5 – Construction Water Discharge Activity Submission for Hinkley Point C (NNB-OSL-REP-000359)	Section 2.3.7 – Water Management Zones (WMZ's)	23/09/11	Superseded by OT6 NNB-209-REP-001138 / 100783334 V001. Doc Issue date 18/06/18 As confirmed by NNB GenCo for issue of EPR/JP3122GM/V008
A1(i), A1(ii), A1(iii), B and C	OT6 – Temporary Surface Water Drainage (Design II) Report (100783334)	All	18/06/2018	Document referenced is latest version as confirmed by NNB GenCo at issue of EPR/JP3122GM/V010
D4	OT7 – Temporary Surface Water Drainage Report (HPC-NNBOSL-XX-000-REP-000020)	All Partial submission to PO1 and PO8	11/01/2013	Superseded by OT6 NNB-209-REP-001138 / 100783334 V001. Doc Issue date 18/06/18 As confirmed by NNB GenCo for issue of EPR/JP3122GM/V008
		Report Addendum	25/03/2013	
F	OT8 - Cementitious Wash Water Operating Techniques Report (COTR)	Submission required under PO2, as specified in table S1.3		

Table S1.2 Operating techniques

Activity reference	Description of documentation	Parts	Date Received	Comments
E1 and E2	OT10 – Construction Water Discharge Activity Permit: Dewatering Operating Techniques Report (100139205)	By approving and incorporating OT10 into the permit, we are not approving those references to the discharge not stopping and we will consider enforcement action if there are permit non-compliances.	02/03/2022	Document referenced is latest version at time of issue of EPR/JP3122GM/V010, however as confirmed by NNB GenCo an update is in progress.
E1	OT11 – Hinkley Point C construction discharge monitoring plan (100139104)	All	06/03/2017	N/A
H	OT12 – Construction Water Discharge Activity Permit: Tunnelling Operating Techniques Report (100793495)	All	12/07/2024	This is the latest version of OT12 (V10) at the time of issue of EPR/JP3122GM/V011, and has been produced to reflect the updated permit compliance limits for dissolved inorganic nitrogen (DIN), total cadmium and total chromium. Other admin updates have been completed, as described in e-mail dated 12/07/2024.
I, J(i) and J(ii)	OT13 - Construction Water Discharge Activity Permit: Commissioning Effluent Treatment Plant (CETP) and Demineralised Water Plant Operating Techniques Report	Submission required under PO10, as specified in table S1.3		OT13 also to account for the assessed additional substances (including use of DBNPA as a biocide and sodium bisulphite for the breakdown of the biocide) within the treated effluents to be discharged from the CETP and the demineralised water plant.

Table S1.3 Pre-operational measures	
Reference	Pre-operational measures
PO2	<p>At least 2 months prior to commencement of Activity F specified in schedule 1 table S1.1, the operator shall submit to the Environment Agency a Cementitious Wash Water Characterisation report, which will include the following information:</p> <ul style="list-style-type: none"> (a) the nature and composition of the concrete(s) and grout(s) used on site, including additives; (b) the characteristics of the resultant wash water, for both concrete and grout from the off-site supplier and from the on-site batching plant(s); and (c) performance data on the proposed treatment system(s) for all relevant substances identified within the wash water. <p>The report should (i) take into consideration those substances listed in the Environment Agency's Guidance 'Surface water pollution risk assessment for your environmental permit', (ii) take into consideration substances without EQS i.e. hazardous chemicals and elements as defined in Schedule 6 of this notice, (iii) make clear how the information has been derived and (iv) describe any assumptions or limitations associated with preparation of the report.</p> <p>The Cementitious Wash Water Characterisation report shall be audited by the Environment Agency and used to establish operational compliance (numeric) limits for any contaminants present in the wash water at environmentally significant levels.</p> <p>Following written notification by the Environment Agency, any additional compliance limits required shall be deemed to be incorporated into table S3.1 of this permit.</p> <p>Following the submission of the Cementitious Wash Water Characterisation report, the operator shall provide to the Environment Agency a Cementitious Operating Techniques Report (COTR).</p> <p>The purpose of the COTR is to provide an update to OT8. Environment Agency approval of the COTR is required before discharge of activity F can commence. The COTR will include the following information:</p> <ul style="list-style-type: none"> a) Details of the management of cementitious activities and pollution prevention. b) Details on the treatment system used to treat the effluent arising from Activity F prior to discharge, such as, but not limited to the location of the treatment system and associated monitoring points. <p>Once Activity F has commenced additional Cementitious Wash Water Characterisation reports can be submitted under this pre-operational condition (PO2) to include additional Cementitious Wash Waters or to cover changes on site that may alter the characterisation of the Cementitious Wash Water.</p> <p>These are to be submitted at least 2 months prior to any change to the Cementitious Wash Water discharge (Activity F).</p>
PO8	<p>At least 2 months prior to commencement of Activities A1(i), A1(ii), A1(iii), B, C and G specified in schedule 1 table S1.1, the operator shall submit for approval by the Environment Agency, final designs for the Water Management Zones that will be put in place to manage discharges of site drainage. Appropriate engineering drawings and site plans shall be included.</p>
PO10	<p>At least 2 months prior to commencement of activities I, J(i) and J(ii), the operator shall submit for approval by the Environment Agency, OT13 - Construction Water Discharge Activity Permit: Commissioning Effluent Treatment Plant (CETP) and Demineralised Water Plant Operating Techniques Report.</p> <p>Following written approval by the Environment Agency, OT13 - Construction Water Discharge Activity Permit: Commissioning Effluent Treatment Plant (CETP) and Demineralised Water Plant Operating Techniques Report shall be deemed to be incorporated under table S1.2 of this permit.</p>

Schedule 2 – Waste types, raw materials and fuels

Schedule 2 not in use.

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
A1(i), A1(ii) and A1 (iii): Trade effluent consisting of site drainage via outlet 1	Maximum rate of discharge (combined)	1,800 l/s	Instantaneous (spot sample)	N/A	N/A	Maximum
	Suspended solids (measured after drying at 105°C)	250 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
B: Trade effluent consisting of site drainage via outlet 3	Maximum rate of discharge	166 l/s	Instantaneous (spot sample)	N/A	N/A	Maximum
	Suspended solids (measured after drying at 105°C)	60 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
C: Trade effluent consisting of site drainage via outlet 4	Maximum rate of discharge	336 l/s	Instantaneous (spot sample)	N/A	N/A	Maximum
	Suspended solids (measured after drying at 105°C)	60 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
E1: Trade effluent consisting of pumped groundwater via outlet 1	Maximum daily discharge volume	2,160 m ³ /day	Total daily volume	Period defined in OT10 as specified in table S1.2 and in accordance with conditions 4.3.4.	Continuous	Maximum
	Maximum rate of discharge	25 l/s	Instantaneous (spot sample)		Continuous	Maximum
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	Suspended solids (measured after drying at 105°C)	250 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Total Cadmium as Cd	2.72 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Chromium as Cr	33.64 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Copper as Cu	55.74 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Cyanide as CN	10.58 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Lead as Pb	10.84 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Mercury as Hg	0.58 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Zinc as Zn	222.88 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
Ammoniacal nitrogen (expressed as N)	1.1 mg/l	Instantaneous (spot sample)	N/A	Monthly	Annual mean	

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
E1: Trade effluent consisting of pumped groundwater via outlet 1 (continued)	Ammoniacal nitrogen (expressed as N)	8 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Cadmium as Cd	0.28 kg/year	24 hour composite	Period defined in OT10 as specified in table S1.2 and in accordance with condition 4.3.4.		Annual mean
	Total Chromium as Cr	3.52 kg/year	24 hour composite			Annual mean
	Total Copper as Cu	8.97 kg/year	24 hour composite			Annual mean
	Cyanide as CN	1.79 kg/year	24 hour composite			Annual mean
	Total Lead as Pb	3 kg/year	24 hour composite			Annual mean
	Total Mercury as Hg	0.19 kg/year	24 hour composite			Annual mean
	Total Zinc as Zn	41.33 kg/year	24 hour composite			Annual mean
	Unionised Ammonia	64.33 kg/year	24 hour composite			Annual mean
	Dissolved Inorganic Nitrogen	1,880.33 kg/year	24 hour composite			Annual mean

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
E2: Trade effluent consisting of pumped groundwater via outlet 12	Maximum daily discharge volume	1,728 m ³ /day	Total daily volume	Period defined in OT10 as specified in table S1.2 and in accordance with condition 4.3.4.	Continuous	Maximum
	Maximum rate of discharge	20 l/s	Instantaneous (spot sample)		Continuous	Maximum
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	Suspended solids (measured after drying at 105°C)	675 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
		264 mg/l	Rolling 12 months	N/A	Weekly	Annual average
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Total Cadmium as Cd	1 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Chromium as Cr	48 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Copper as Cu	442 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Lead as Pb	6 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Mercury as Hg	1 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Zinc as Zn	3,284 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Dissolved Inorganic Nitrogen	8,146 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
Ammoniacal nitrogen (expressed as N)	9.5 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum	

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
F: Trade effluent consisting of cementitious wash water via outlet 12	Maximum daily discharge volume	50 m ³ /day	Total daily volume	N/A	N/A	Maximum
	Suspended solids (measured after drying at 105°C)	675 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
		264 mg/l	Rolling 12 months	N/A	Weekly	Annual average
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Total Cadmium as Cd	1 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Chromium as Cr	48 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Copper as Cu	442 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Lead as Pb	6 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Zinc as Zn	3,284 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
H: Trade effluent consisting of tunnelling effluent and muck bay drainage via outlet 12	Maximum daily discharge volume (tunnelling effluent and muck bay drainage)	2,592 m ³ /day	Total daily volume	Period defined in OT10 and OT12 as specified in table S1.2	Continuous	Maximum
	Maximum rate of discharge (tunnelling effluent and muck bay drainage)	30 litres per second	Instantaneous (spot sample)	Period defined in OT10 and OT12 as specified in table S1.2	Continuous	Maximum
	15-minute instantaneous or averaged flow (tunnelling effluent and muck bay drainage)	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	Maximum daily discharge volume (muck bay drainage)	No limit set. Record as m ³ /day	Total Daily Volume	N/A	As defined in OT12 as specified in table S1.2	N/A
	Suspended solids (measured after drying at 105°C)	675 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
		264 mg/l	Rolling 12 months	N/A	Weekly	Annual average
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Total Cadmium as Cd	3 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Chromium as Cr	144 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Copper as Cu	442 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Lead as Pb	6 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Mercury as Hg	1 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
Total Zinc as Zn	3,284 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum	

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
H: Trade effluent consisting of tunnelling effluent and muck bay drainage via outlet 12 (continued)	Dissolved Inorganic Nitrogen	15,000 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Ammoniacal nitrogen (expressed as N)	9.5 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
I: Trade effluent consisting of effluent from cold commissioning activities via outlet 12	Maximum daily discharge volume	1,500 m ³ /day	Total daily volume	N/A	Continuous	Maximum
	Maximum rate of discharge	17.4 litres per second	Instantaneous (spot sample)	N/A	Continuous	Maximum
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	Suspended solids (measured after drying at 105°C)	675 mg/l	Instantaneous (spot sample)	N/A	Weekly	Maximum
		264 mg/l	Rolling 12 months	N/A	Weekly	Annual average
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Total Hydrazine	15 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Ammoniacal nitrogen (expressed as N)	271 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
Total Copper as Cu	102 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum	

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
J(i) and J(ii): Trade effluent consisting of effluent from cold commissioning activities via outlet 12	Maximum daily discharge volume	3,000 m ³ /day	Total daily volume	N/A	Continuous	Maximum
	Maximum rate of discharge	34.8 litres per second	Instantaneous (spot sample)	N/A	Continuous	Maximum
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	pH	6 to 9	Instantaneous (spot sample)	N/A	Weekly	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	Weekly	No significant trace
	Chlorine (free)	1,200 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Copper as Cu	102 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Total Zinc as Zn	140 µg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum

Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment
A1(i), A1(ii) & A1(iii): Trade effluent consisting of site drainage	Outlet 1	ST 20375 46165	Severn Estuary
B: Trade effluent consisting of site drainage	Outlet 3	ST 19792 45158	Holford Stream
C: Trade effluent consisting of site drainage	Outlet 4	ST 20500 45218	Holford Stream
E1: Trade effluent consisting of pumped groundwater	Outlet 1	ST 20375 46165	Severn Estuary
E2: Trade effluent consisting of pumped groundwater	Outlet 12	ST 19315 46475	Severn Estuary
F: Trade effluent consisting of cementitious wash water	Outlet 12	ST 19315 46475	Severn Estuary
H: Trade effluent consisting of tunnelling effluent and muck bay drainage	Outlet 12	ST 19315 46475	Severn Estuary
I: Trade effluent consisting of effluent from cold commissioning activities	Outlet 12	ST 19315 46475	Severn Estuary
J(i) and J(ii): Trade effluent consisting of effluent from cold commissioning activities	Outlet 12	ST 19315 46475	Severn Estuary

Table S3.3 Monitoring points			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
A1(i): Trade effluent consisting of site drainage via outlet 1	Effluent sampling	ST 19742 46092	WMZ 1-SW
A1(ii): Trade effluent consisting of site drainage via outlet 1		ST 20015 46111	WMZ 2-SW
A1(iii): Trade effluent consisting of site drainage via outlet 1		ST20612 46141	WMZ 3-SW
B: Trade effluent consisting of site drainage via outlet 3	Effluent sampling	ST 19775 45126	WMZ 5-SW
C: Trade effluent consisting of site drainage via outlet 4	Effluent sampling	ST 20507 45166	WMZ 4-SW
E1: Trade effluent consisting of pumped groundwater via outlet 1	Effluent sampling	ST 20431 46134	GWDCMP
	MCERTS flow monitoring	ST 20431 46134	GWDCMP
E2: Trade effluent consisting of pumped groundwater via outlet 12	Effluent sampling	ST 19503 46069	Outlet 12 GW
	MCERTS flow monitoring	ST 19637 46111	E2 - FLOW
F: Trade effluent consisting of cementitious wash water via outlet 12	Effluent sampling	Approved in accordance with PO2 as specified in table S1.4 and incorporated into OT8 (Cementitious operating techniques report)	
H: Trade effluent consisting of tunnelling effluent and muck bay drainage via outlet 12	Effluent sampling	ST 19503 46069	Outlet 12 – TE
	MCERTS flow monitoring (tunnelling effluent and muck bay drainage)	ST 19509 46056	Tunnels and MB flow
I: Trade effluent consisting of effluent from Cold Commissioning Activities via outlet 12	Effluent sampling	Approved in accordance with PO10 as specified in table S1.4 and incorporated into OT13 (Commissioning operating techniques report)	
	MCERTS flow monitoring or as defined in OT13 as specified in table S1.2	Approved in accordance with PO10 as specified in table S1.4 and incorporated into OT13 (Commissioning operating techniques report)	
J(i) and J(ii): Trade effluent consisting of effluent from Cold Commissioning Activities via outlet 12	Effluent sampling	Approved in accordance with PO10 as specified in table S1.4 and incorporated into OT13 (Commissioning operating techniques report)	
	MCERTS flow monitoring or as defined in OT13 as specified in table S1.2	Approved in accordance with PO10 as specified in table S1.4 and incorporated into OT13 (Commissioning operating techniques report)	

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data				
Activity reference	Parameter	Monitoring point reference	Reporting period	Period begins
A1(i), A1(ii) and A1(iii)	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	WMZ 1-SW WMZ 2-SW WMZ 3-SW	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
B	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	WMZ 5-SW	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
C	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	WMZ 4-SW	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
E1	Total daily volume	GWDCMP	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
	15-minute flow	GWDCMP	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency

Table S4.1 Reporting of monitoring data				
Activity reference	Parameter	Monitoring point reference	Reporting period	Period begins
E1 (continued)	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, ammoniacal nitrogen (expressed as N)	GWDCMP	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
	In accordance with operating technique OT10 as specified in table S1.2 – total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, unionised ammonia, dissolved inorganic nitrogen	GWDCMP	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
E2	Total daily volume	As specified in OT10: Dewatering operating techniques report (100139205)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
	15-minute flow	As specified in OT10: Dewatering operating techniques report (100139205)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, total lead as Pb, total mercury as Hg, total zinc as Zn, dissolved inorganic nitrogen, ammoniacal nitrogen (expressed as N)	As specified in OT10: Dewatering operating techniques report (100139205)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January

Table S4.1 Reporting of monitoring data				
Activity reference	Parameter	Monitoring point reference	Reporting period	Period begins
F	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, total lead as Pb, total zinc as Zn, plus other matter specified in accordance with pre-operational condition PO2 in Table S1.3	Approved in accordance with pre-operational condition PO2 as specified in table S1.3 and incorporated into OT8 (Cementitious operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
H: tunnelling and muck bay drainage	Total daily volume	As specified in OT12: Tunnelling operating techniques report (100793495)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
	15-minute flow	As specified in OT12: Tunnelling operating techniques report (100793495)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, total lead as Pb, total mercury as Hg, total zinc as Zn, dissolved inorganic nitrogen, ammoniacal nitrogen (expressed as N)	As specified in OT12: Tunnelling operating techniques report (100793495)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month	
		Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January	
I	Total daily volume	As specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January

Table S4.1 Reporting of monitoring data				
Activity reference	Parameter	Monitoring point reference	Reporting period	Period begins
I (continued)	15-minute flow	As required under PO10 and to be specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total hydrazine, ammoniacal nitrogen (expressed as N), total copper as Cu	As required under PO10 and to be specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
J(i) and J(ii)	Total daily volume	As specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January
	15-minute flow	As required under PO10 and to be specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
	pH, visible oil or grease, chlorine (free), total copper as Cu, total zinc as Zn	As required under PO10 and to be specified in OT13 (Commissioning operating techniques report)	Quarterly Report to be submitted within 28 days from the end of the reporting period unless otherwise specified in writing by the Environment Agency	1st of month
			Annual summary Report to be submitted within 2 months of the end of the calendar year	1 January

Table S4.2 Reporting forms		
Activity reference	Parameter	Reporting format
A1(i), A1(ii) and A1(iii)	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	Electronic format specified by the Environment Agency
B	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	Electronic format specified by the Environment Agency
C	Suspended solids (measured after drying at 105°C), pH, visible oil or grease	Electronic format specified by the Environment Agency
E1	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, ammoniacal nitrogen (expressed as N)	Electronic format specified by the Environment Agency
	In accordance with operating technique OT10 specified in Table S1.2 – total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, unionised ammonia, dissolved inorganic nitrogen	As specified in OT10: Dewatering operating techniques report (100139205)
E2	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, dissolved inorganic nitrogen, ammoniacal nitrogen (expressed as N)	Electronic format specified by the Environment Agency
F	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, total lead as Pb, total zinc as Zn.	Electronic format specified by the Environment Agency
H	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total cadmium as Cd, total chromium as Cr, total copper as Cu, cyanide as CN, total lead as Pb, total mercury as Hg, total zinc as Zn, dissolved inorganic nitrogen, ammoniacal nitrogen (expressed as N)	Electronic format specified by the Environment Agency
	Total daily volume	As detailed in OT12: Tunnelling operating techniques report (100793495)
	15-minute flow	As detailed in OT12: Tunnelling operating techniques report (100793495) Electronic format specified by the Environment Agency
I	Suspended solids (measured after drying at 105°C), pH, visible oil or grease, total hydrazine, ammoniacal nitrogen (expressed as N), total copper as Cu	Electronic format specified by the Environment Agency
	Total daily volume	As detailed in OT13: Commissioning operating techniques report (submission required under PO10)
	15-minute flow	As detailed in OT13: Commissioning operating techniques report (submission required under PO10)
		Electronic format specified by the Environment Agency

Table S4.2 Reporting forms		
Activity reference	Parameter	Reporting format
J(i) and J(ii)	pH, visible oil or grease, chlorine (free), total copper as Cu, total zinc as Zn	Electronic format specified by the Environment Agency
	Total daily volume	As detailed in OT13: Commissioning operating techniques report (submission required under PO10)
	15-minute flow	As detailed in OT13: Commissioning operating techniques report (submission required under PO10)
		Electronic format specified by the Environment Agency

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection unless otherwise agreed in writing by the Environment Agency	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released/type or nature of effluent released	
Best estimate of the quantity or rate of release of substances and/or duration of discharge	
Best estimate of the environmental impact of the discharge	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit specified in schedule 3 table S3.1	
The information specified below is to be notified to the Environment Agency as soon as reasonably practicable following detection.	
Monitoring point reference/ source	
Self monitoring regime (where relevant)	e.g. measuring volume, rate and concentrations within effluents
Type of failure	e.g. minimum, maximum, annual mean
Date of sample/event	
Parameter	
Result and units	
Limit and units	

Part B – to be submitted as soon as reasonably practicable unless otherwise agreed in writing by the Environment Agency

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident/breach/exceedance	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“appropriate measures” for the purposes of the emission of substances not controlled by emission limits condition (condition 3.2.1) do not require the operator to undertake treatment to a level beyond that specified in schedule 1 table S1.1, or to carry out routine monitoring for substances not controlled by emission limits.

“DBNPA” means 2,2-dibromo-3-nitropropionamide (CAS reference: 0222-01-2) which is permitted to be utilised by the operator for as a biocide for prevention of biofouling within the water demineralisation plant’s reverse osmosis membranes.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the permitted activities, which are not controlled by an emission limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“Hazardous chemicals and elements” are defined as priority hazardous substances, priority substances, specific pollutants, and substances with operational Environmental Quality Standards (EQSs). It also includes substances that are not within these categories but which have ecotoxic properties and are discharged at sufficient concentrations to be of concern in relation to the predicted no effect concentration (PNEC).

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

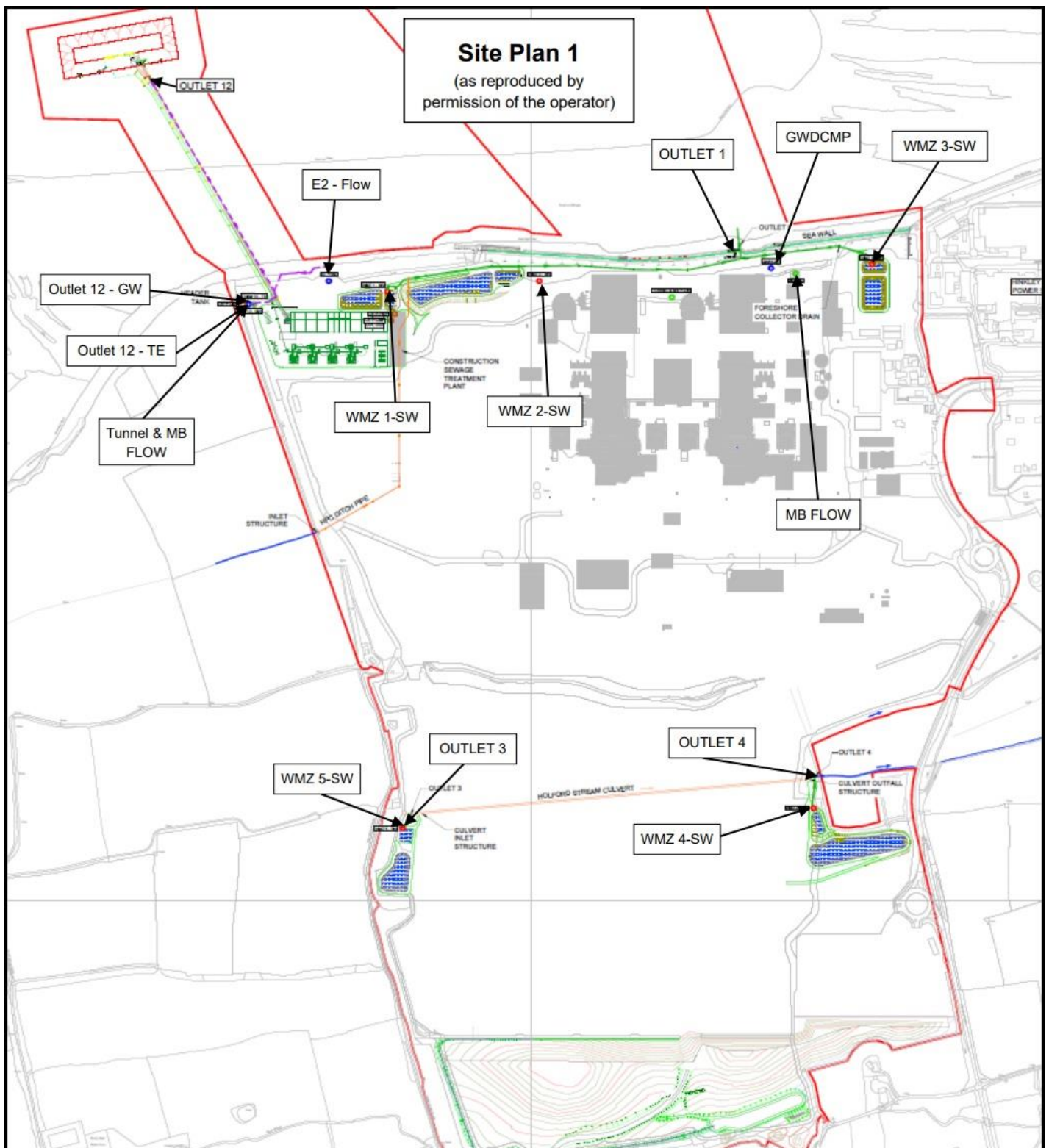
“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

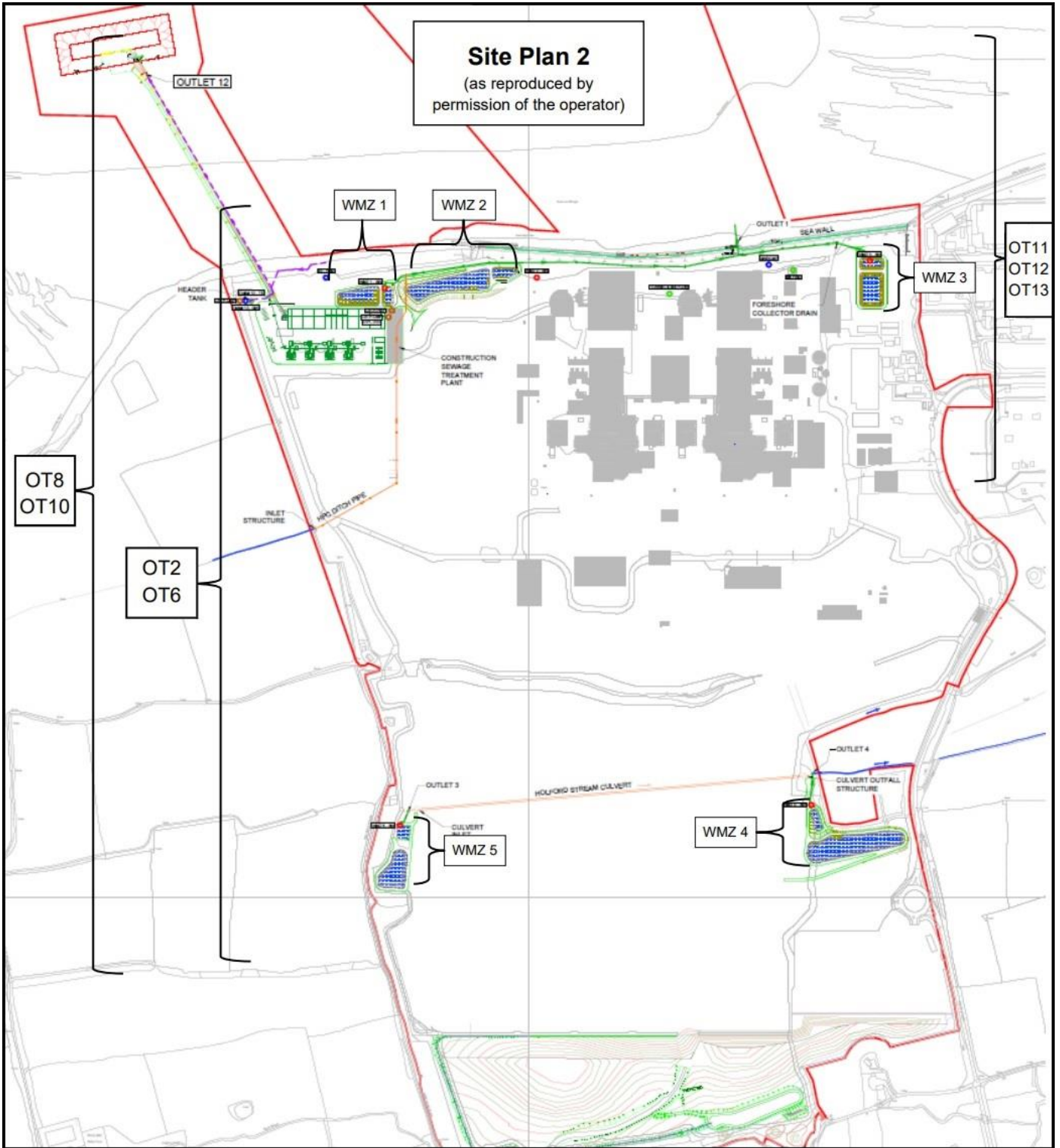
“rolling 12 months” as a reference period, means the limit is compared against the latest 12 months of sampling. For example, when assessed against an annual average compliance statistic, the average is calculated from the most recent 12 months and is used to assess compliance. If less than 12 months of samples have been collected then the average is calculated from all samples collected until more than 12 months of samples have been collected.

“significant pollution” means a category 1 or category 2 incident indicated by the Common Incident Classification Scheme (CICS).

“year” means calendar year ending 31 December.

Schedule 7 – Site plans





END OF PERMIT