

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Imerys Minerals Limited
Settlement system serving
Rosevallen China Clay processing site
St Stephen
St Austell
Cornwall
PL26 7SB

Variation application number

NRA-SW-7201/V001

Permit number

NRA-SW-7201

Settlement system serving Rosevallen China Clay processing site

Permit number NRA-SW-7201

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. All the conditions of the permit have been varied and are subject to the right of appeal.

This variation is to update the permit so that it reflects the current operations at the site. It also amends the suspended solids limit and pH limit as well as the maximum daily discharge volume. The variation will impose new monitoring and reporting requirements for flow, Aluminium, Cadmium, Mercury, Arsenic, Nickel, Dissolved Organic Carbon (DOC), Zinc, Manganese, Copper, Iron, Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Suspended Solids on the discharge as well as upstream and downstream environmental monitoring to support a risk assessment as well as carry out a risk assessment for the impact of suspended solids on the River Fal. The variation also includes several improvement conditions.

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 NRA-SW-7201	08/02/1995	Permit issued to ECC International Limited.
Application NRA-SW-7201/V001 (variation and consolidation)	Duly made 30/04/2018	Application to regularise activities at Rosevallen as well as vary and update the permit to modern conditions.
Additional information received	18/02/2019	Rosevallen Environmental Permit Water Discharge Management Document.
Variation determined NRA-SW-7201	27/03/2019	Varied and consolidated permit issued in modern condition format.

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

NRA-SW-7201

Issued to

Imerys Minerals Limited ("the operator")

whose registered office is

Par Moor Centre

Par Moor Road

Par

Cornwall

PL24 2SQ

company registration number 00269255

to operate a water discharge activity at

Rosevallen China Clay processing site

St Stephen

St Austell

Cornwall

PL26 7SB

to the extent set out in the schedules.

The notice shall take effect from 27/03/2019.

Name	Date
Ben Evans	27/03/2019

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit NRA-SW-7201.

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

2.1.1, 2.2.1, 2.3.1, 3.1.1, 3.2.1, 3.3.4, Schedule 1 Table S1.1 and Table S1.2, Schedule 3 Table S3.1a, Table S3.1b, Table S3.1c, Table S3.1d and Table S3.1e, Table S3.2, Table S3.3a and Table S3.3b, Table S3.4a and Table S3.4b and Schedule 7.

The following conditions were varied as a result of an Environment Agency initiated variation:

1.1.1, 1.1.2, 1.1.3, 2.4.1, 2.4.2, 3.2.2, 3.3.1, 3.3.2, 3.3.3, 4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.4.1, 4.4.2, Schedule 1 Table S1.3, Schedule 2, Schedule 4 Table S4.1 and Table S4.2, Schedule 5 and Schedule 6.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

NRA-SW-7201

This is the consolidated permit referred to in the variation and consolidation notice for application NRA-SW-7201/V001 authorising,

Imerys Minerals Limited ("the operator"),

whose registered office is

Par Moor Centre

Par Moor Road

Par

Cornwall

PL24 2SQ

company registration number 00269255

to operate a water discharge activity at

Rosevallen China Clay processing site

St Stephen

St Austell

Cornwall

PL26 7SB

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

Name	Date
Ben Evans	27/03/2019

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activity:
- (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 activity authorised by the permit is the activity specified in schedule 1 table S1.1.

2.2 The site

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

2.3 Operating techniques

- 2.3.1 For the activity referenced in schedule 1, table S1.1 the activity 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.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

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 activity 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;
 - (b) surface water specified in table S3.4.
- 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 and the environmental or other monitoring 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 and the environmental monitoring to be carried out at the monitoring points specified in table S3.3 and S3.4 of schedule 3 and shown marked on the site plan 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 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:

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

4.3.4 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	
Description of activity	Limits of specified activity
Discharge of trade effluent consisting of process effluent and surface water drainage via Outlet 1	The process effluent shall be associated with the extraction and processing of china clay from Imerys Minerals Limited Western Area Combined Input. The activity shall be made in accordance with OT1 – Appendix 2.

Table S1.2 Operating techniques		
Description of documentation	Parts	Date Received
OT1 - Rosevallen Environmental Permit Water Discharge Management Document	All	18/02/2019

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP1	The operator shall carry out screening using 12 months of Aluminium, Cadmium, Hardness, Mercury, Arsenic, Nickel, Iron, Manganese, Copper, Zinc, Dissolved Organic Carbon, pH, Biochemical Oxygen Demand, Chemical Oxygen Demand and Suspended Solids data collected as per Table S3.1a and Table S3.1b and Table S3.4a. Environment Agency routine monitoring data is also available for consideration as part of the screening. The screening shall be carried out in accordance with https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit#screening-tests-freshwaters using data (environmental and discharge) collected by the operator and/or Environment Agency. The operator shall submit the screening to the Environment Agency.	Within 15 months of the date of this variation notice

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP2	The screening shall be audited by the Environment Agency. For those determinands that the Environment Agency concludes aren't screened out as being insignificant, the Environment Agency will model the impact that the determinands are having on water quality in the River Fal. If the screening or monitoring data required by IP1 or the modelling carried out by the Environment Agency identifies that the discharge is impacting upon water quality in the River Fal, the operator shall submit a written Action Plan to the Environment Agency for approval, identifying what improvements shall be made and why and by when to address the impact(s). The Environment Agency shall also use the monitoring data and modelling to: (a) establish operational compliance (numeric limits) for any contaminants at environmentally significant levels. Following written notification by the Environment Agency, any additional compliance limits required shall be deemed to be incorporated into table S3.1d and table S3.1e; and (b) assess whether continued monitoring is required. Following written notification by the Environment Agency, any monitoring requirements shall be deemed to be incorporated into table S3.1c and table S3.4b.	Within 3 months of the Environment Agency requesting in writing that the operator submit a written Action Plan in relation to IP2
IP3	The Operator shall implement the improvements identified within any Action Plan approved by the Environment Agency under IP2 and provide written confirmation to the Environment Agency that the improvements have been made.	Within 12 months of the Action Plan in relation to IP2 being submitted to the Environment Agency or any subsequent date as notified in writing by the Environment Agency.
IP4	The operator shall carry out a risk assessment using 60 months of suspended solids data collected as per Table S3.1a, Table S3.1b, Table S3.1c and Table S3.1d and Table S3.4a and Table S3.4b to assess the impact of suspended solids in the discharge upon the receiving waters in the River Fal. The operator shall submit the completed risk assessment to the Environment Agency.	Within 61 months of the date of issue of this variation.
IP5	The risk assessment shall be audited by the Environment Agency and if the Environment Agency concludes that the risk assessment required by IP4 identifies that the discharge is impacting upon the River Fal, the operator shall submit a written Action Plan to the Environment Agency for approval, identifying what improvements shall be made and why and by when to address the impact(s). The Environment Agency shall also use the risk assessment to establish an operational compliance (numeric limit) for suspended solids. Following written notification by the Environment Agency, the compliance limit for suspended solids shall be deemed to be incorporated into table S3.1e.	Within 3 months of the Environment Agency requesting in writing that the operator submit a written Action Plan in relation to IP5
IP6	The operator shall implement the improvements identified within any Action Plan approved by the Environment Agency under IP5 and provide written confirmation to the Environment Agency that the improvements have been made.	Within 12 months of the Action Plan in

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
		relation to IP5 being submitted to the Environment Agency or any subsequent date as notified in writing by the Environment Agency.

Schedule 2 – Waste types, raw materials and fuels

Schedule 2 not in use.

Schedule 3 – Emissions and monitoring

Table S3.1a Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effective up to and including 27/09/2019						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Maximum daily discharge volume	29376m ³ /day	Total daily volume	N/A	N/A	Maximum (Condition 3.3.3 does not apply).
	Suspended solids (measured after drying at 105°C)	175 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	pH	4.5 to 8	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace
	Aluminium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Cadmium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Mercury (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Arsenic (total)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Nickel (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Iron (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Manganese (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Copper	N/A	Instantaneous	N/A	Monthly	(Condition

Table S3.1a Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effective up to and including 27/09/2019						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	(dissolved)		(spot sample)			3.3.3 applies)
	Zinc (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Dissolved Organic Carbon	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	ATU-BOD as O ₂	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	COD as O ₂	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)

Table S3.1b Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effective from 28/09/2019 and up to and including 27/03/2020						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Maximum daily discharge volume	29376m ³ /day	Total daily volume	N/A	Continuous	Maximum (Condition 3.3.3 applies)
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A (Condition 3.3.3 applies)
	Suspended solids (measured after drying at 105°C)	175 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	pH	4.5 to 8	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace
	Aluminium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Cadmium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)

Table S3.1b Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/09/2019 and up to and including 27/03/2020						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Mercury (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Arsenic (total)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Nickel (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Iron (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Manganese (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Copper (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Zinc (dissolved)	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	Dissolved Organic Carbon	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	ATU-BOD as O ₂	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)
	COD as O ₂	N/A	Instantaneous (spot sample)	N/A	Monthly	(Condition 3.3.3 applies)

Table S3.1c Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/03/2020 and up to and including 27/09/2021						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Maximum daily discharge volume	29376m ³ /day	Total daily volume	N/A	Continuous	Maximum (Condition 3.3.3 applies)
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A (Condition 3.3.3 applies)

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

Effective from 28/03/2020 and up to and including 27/09/2021

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Suspended solids (measured after drying at 105°C)	175 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	pH	4.5 to 8	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace
	Aluminium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Cadmium (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Mercury (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Arsenic (total)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table d1.3	(Condition 3.3.3 applies)
	Nickel (dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Iron (total & dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement	(Condition 3.3.3 applies)

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

Effective from 28/03/2020 and up to and including 27/09/2021

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
					condition IP2 in Table S1.3	
	Manganese (dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Copper (dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Zinc (dissolved)	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	Dissolved Organic Carbon	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	ATU-BOD as O ₂	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)
	COD as O ₂	N/A	Instantaneous (spot sample)	N/A	In accordance with Improvement condition IP2 in Table S1.3	(Condition 3.3.3 applies)

Table S3.1d Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/09/2021 and up to and including 27/03/2024						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Maximum daily discharge volume	29376m ³ /day	Total daily volume	N/A	Continuous	Maximum (Condition 3.3.3 applies)
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A (Condition 3.3.3 applies)
	Suspended solids (measured after drying at 105°C)	150 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	pH	5.5 to 8	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace
	Total aluminium as Al	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Total cadmium as Cd	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Total mercury as Hg	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum

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

Effective from 28/09/2021 and up to and including 27/03/2024

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Total arsenic as As	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Dissolved nickel as Ni	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	Total iron as Fe	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Dissolved manganese as Mn	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	Dissolved copper as Cu	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	Dissolved zinc as Zn	Limit established in accordance with Improvement	Instantaneous (spot sample)	N/A	N/A	Mean

Table S3.1d Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/09/2021 and up to and including 27/03/2024						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
		condition IP2 in Table S1.3				
	ATU-BOD as O ₂	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum

Table S3.1e Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/03/2024						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Maximum daily discharge volume	29376m ³ /day	Total daily volume	N/A	Continuous	Maximum (Condition 3.3.3 applies)
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A (Condition 3.3.3 applies)
	Suspended solids (measured after drying at 105°C)	Limit established in accordance with Improvement condition IP5 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	pH	5.5 to 8	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace

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

Effective from 28/03/2024

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Total aluminium as Al	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Total cadmium as Cd	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Total mercury as Hg	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Total arsenic as As	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Dissolved nickel as Ni	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	Total iron as Fe	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum
	Dissolved manganese	Limit established in	Instantaneous (spot sample)	N/A	N/A	Mean

Table S3.1e Point Source emissions to water (other than sewer) – emission limits and monitoring requirements Effective from 28/03/2024						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	as Mn	accordance with Improvement condition IP2 in Table S1.3				
	Dissolved copper as Cu	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	Dissolved zinc as Zn	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Mean
	ATU-BOD as O ₂	Limit established in accordance with Improvement condition IP2 in Table S1.3	Instantaneous (spot sample)	N/A	N/A	Maximum

Table S3.2 Discharge points			
Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment
Trade effluent consisting of process effluent and surface water drainage	Outlet 1	SW 93373 54966	River Fal

Table S3.3a Monitoring points Effective up to and including 6 months from date of issue			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Effluent sampling	SW 93391 54984	M1. Monitoring point to be appropriately labelled.

Table S3.3b Monitoring points Effective from 6 months from date of issue			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	Effluent sampling	SW 93391 54984	M1. Monitoring point to be appropriately labelled.
Trade effluent consisting of process effluent and surface water drainage via Outlet 1	MCERTS flow monitoring	SW 93382 54975	M2. Monitoring point to be appropriately labelled.

Table S3.4a Surface water monitoring requirements Effective up to and including 27/03/2020				
Location or description of monitoring points	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Upstream surface water monitoring at U1 (SW 93343 55047)	Aluminium (total & dissolved) Cadmium (dissolved) Hardness Mercury (dissolved) Arsenic (total) Nickel (dissolved) Iron (dissolved) Manganese (dissolved) Copper (dissolved) Zinc (dissolved) Dissolved Organic Carbon ATU-BOD as O ₂ Suspended solids (measured after drying at 105°C)	Monthly	ISO 5667-1 (2006) Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques. ISO 5667-3 (2018) Water quality – Sampling – Part 3: Preservation and handling of water samples. ISO 5667-6 (2014) Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams.	Surface water monitoring at U1 and D1 must be carried out on the same day as effluent monitoring at M1
Downstream surface water monitoring at D1 (SW 93820 54653)	pH Suspended solids (measured after drying at 105°C)	Monthly		

Table S3.4b Surface water monitoring requirements Effective from 28/03/2020 and up to and including 27/03/2024				
Location or description of monitoring points	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Upstream surface water monitoring at U1 (SW 93343 55047)	Aluminium (total & dissolved) Cadmium (dissolved) Hardness Mercury (dissolved) Arsenic (total) Nickel (dissolved) Iron (dissolved) Manganese (dissolved) Copper (dissolved) Zinc (dissolved) Dissolved Organic Carbon ATU-BOD as O ₂	In accordance with Improvement condition IP2 in Table S1.3	ISO 5667-1 (2006) Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques. ISO 5667-3 (2018) Water quality – Sampling – Part 3: Preservation and handling of water samples. ISO 5667-6 (2014) Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams.	Surface water monitoring at U1 and D1 must be carried out on the same day as effluent monitoring at M1
	Suspended solids (measured after drying at 105°C)	Monthly		
Downstream surface water monitoring at D1 (SW 93820 54653)	pH	In accordance with Improvement condition IP2 in Table S1.3		
	Suspended solids (measured after drying at 105°C)	Monthly		

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			
Parameter	Monitoring point reference	Reporting period	Period begins
Total daily volume	M2	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
15-minute flow	M2	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
Aluminium (total & dissolved), Cadmium (total & dissolved), Mercury (total & dissolved), Arsenic (total), Nickel (dissolved), Iron (total & dissolved), Manganese (dissolved), Copper (dissolved), Zinc (dissolved), Dissolved Organic Carbon, ATU-BOD as O ₂ , COD as O ₂ , Suspended solids (measured after drying at 105°C)	M1	Every 6 months Report to be submitted within 28 days	1st January 1 st July
Aluminium (total & dissolved), Cadmium (dissolved), Hardness, Mercury (dissolved), Arsenic (total), Nickel (dissolved), Iron (dissolved), Manganese (dissolved), Copper (dissolved), Zinc (dissolved), Dissolved Organic Carbon, ATU-BOD as O ₂ , Suspended solids (measured after drying at 105°C)	U1	Every 6 months Report to be submitted within 28 days	1st January 1 st July
pH, Suspended solids (measured after drying at 105°C)	D1	Every 6 months Report to be submitted within 28 days	1st January 1 st July

Table S4.2 Reporting forms	
Parameter	Reporting format
Total daily volume	WISKI electronic format specified by the Environment Agency
15-minute flow	WISKI electronic format specified by the Environment Agency
Aluminium (total & dissolved), Cadmium (total & dissolved), Mercury (total & dissolved), Arsenic (total), Nickel (dissolved), Iron (total & dissolved), Manganese (dissolved), Copper (dissolved), Zinc (dissolved), Dissolved Organic Carbon, ATU-BOD as O ₂ , COD as O ₂ , Suspended solids (measured after drying at 105°C) at M1	Electronic format specified by the Environment Agency (effluent sampling)
Aluminium (total & dissolved), Cadmium (dissolved), Hardness, Mercury (dissolved), Arsenic (total), Nickel (dissolved), Iron (dissolved), Manganese (dissolved), Copper (dissolved), Zinc (dissolved), Dissolved Organic Carbon, ATU-BOD as O ₂ , Suspended solids (measured after drying at 105°C) at U1	Electronic format specified by the Environment Agency (U1)
pH, Suspended solids (measured after drying at 105°C) at D1	Electronic format specified by the Environment Agency (D1)

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)	
Type of failure	e.g. maximum, minimum, mean
Date of sample/event	
Parameter	
Result and units	
Limit and units	

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

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.

“ATU-BOD as O₂” means the biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea).

“COD as O₂” means the chemical oxygen demand (measured using the standard dichromate procedure).

“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.

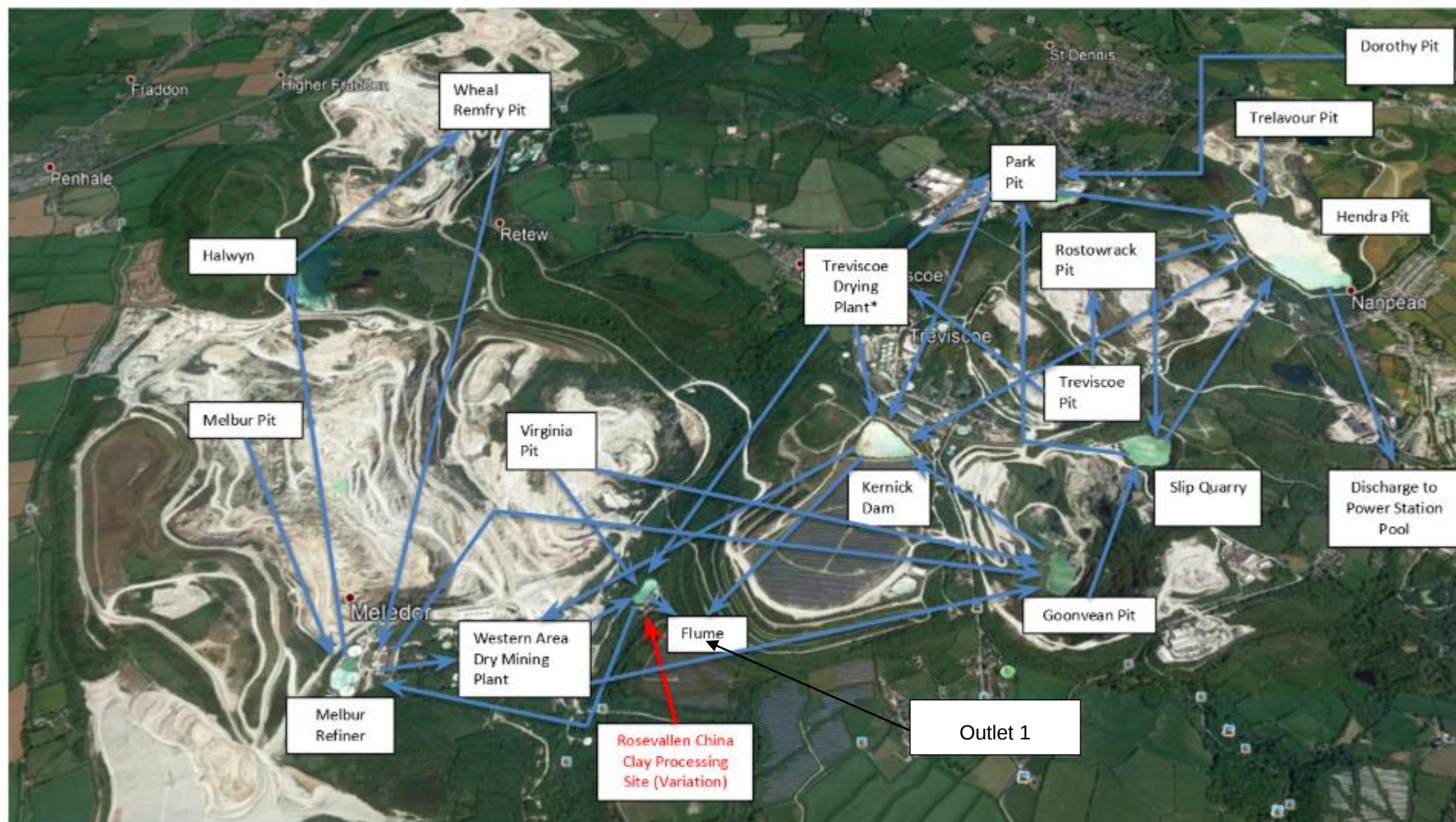
“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

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

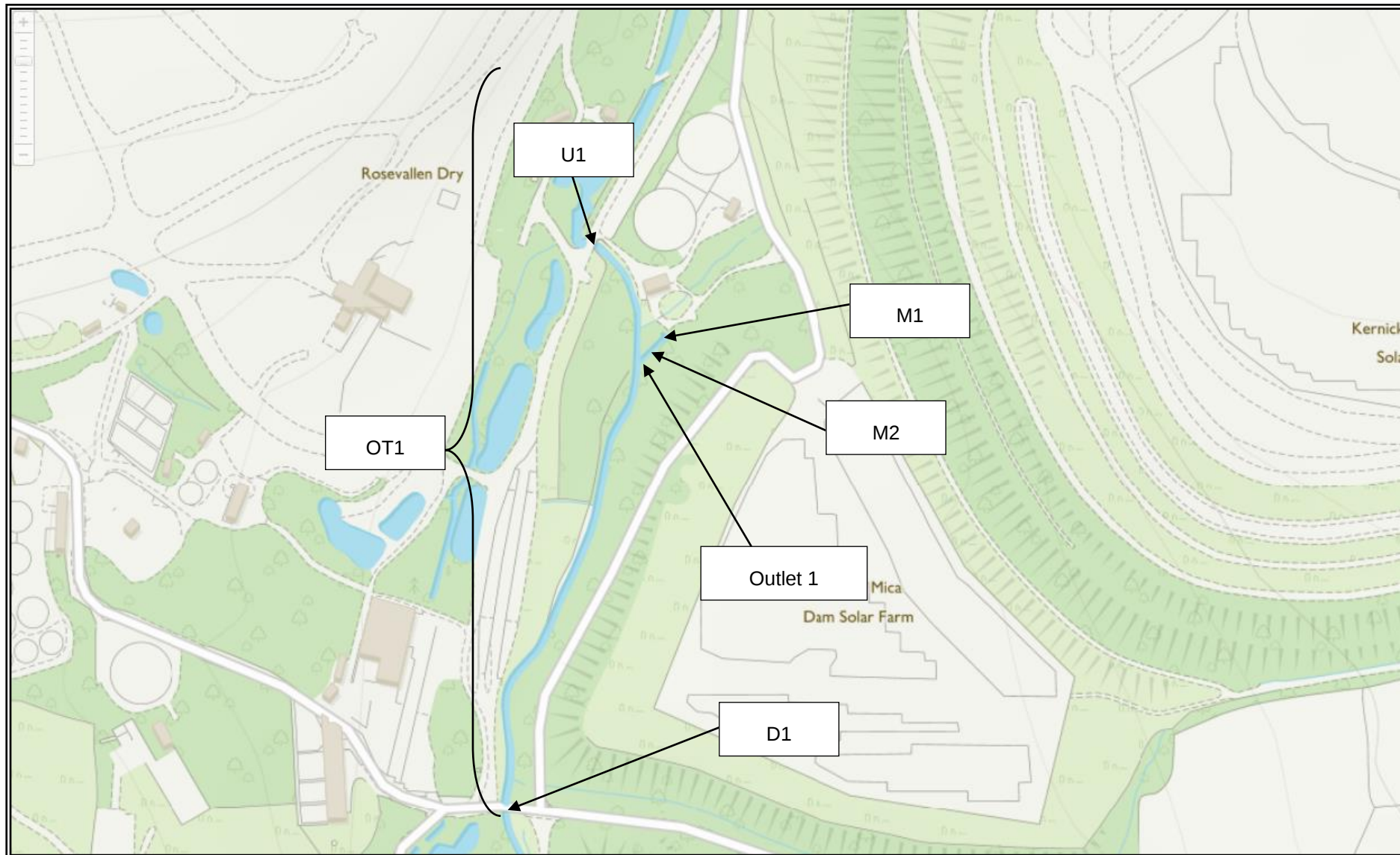
“significant pollution” means a category 1 or category 2 incident indicated by the Common Incident Classification Scheme (CICS).

“year” means calendar year ending 31 December.

Schedule 7 – Site plans



*Treviscoe Drying Plant includes Treviscoe Dryer, Bagging Plant and Parkandillick Dryer.



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END OF PERMIT