Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Application type

Reference number (The number you generated in form WRA). Example: WRNATURALRESOURCESWALES1101
WRTHEROYALMINT2303

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.
>25 to 50kW

Are there any applications currently being assessed by us that are linked to this application?
No

Is the proposed abstraction going to be aggregated with another existing abstraction?
No

Are any applications, at the same site; being assessed by the Environment Agency?
No

If you require a shorter or longer duration licence, please provide details and your justification
Current Abstraction Licence ends in 2029

Abstraction details

Abstraction location name/reference
WA/057/0031/002

Abstraction point type
Single point

National Grid Reference
ST 02990 84652

Do you have any further points of abstraction?
No

Means of abstraction

Provide full details of the equipment you propose to use to abstract water, such as maximum pump capacity and any relevant dimensions, e.g. pipe diameter. For groundwater abstractions, include details about the borehole (depth and diameter) and details of screening and lining.
Abstraction by means of 2 pumps of 750 imperial gallons per minute capacity: WEG W22 High eff SBJ 125/200b Screening via a 3.3 diameter wheel filter screen

Abstraction quantities

Abstraction location name/reference
WA/057/0031/002

What purpose will the water be used for?
Process Water

Period of abstraction Will it be all year?
Yes

Maximum quantities (cubic metres)	
Annual	150,000
Daily	411
Hourly	17.1

Peak abstraction rate (in litres per second)
20.8

Number of hours of abstraction per day
24

Add quantities for another location?
No

Calculations and supporting information

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below. If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.
The attached Water Consumption Table presents historic abstraction data for the period 2020 to 2024. During this time, abstracted water was primarily used as process water for cooling the furnaces (BAK7, BAK8 and Rogers Furnace). Mains water was predominantly used for domestic purposes and supplementary process requirements. In 2024, the business confirmed its decision to cease international currency production. As a result, the furnaces were decommissioned. Consequently, abstraction volumes reduced significantly in 2025. Despite this reduction, mains water continued to be used to support UK coin production processes. Within these processes, water is used operationally, treated via the onsite Water Treatment Plant, and subsequently discharged to sewer (S1). The proposed abstraction volume reflects this operational change. It represents a reduction from the current licensed volume while providing sufficient capacity for the controlled use of abstracted water within selected UK coin production processes going forward.

Additional document. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)
• File: Water Consumption Calculations 20 - 26.xlsx - Download • File: Abstraction Licence Variation Water System.pptx - Download

Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.
Meter

Water efficiency

Provide details of what measures you provide or intend to implement, to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practice.

Leak survey every 24 months, closed loop cooling of furnaces.
Water use is reviewed as part of the energy management system with improvement opportunities introduced when identified.
Certified to ISO14001 Environmental Management Systems, ISO 50001 Energy Management Systems.

Fish and eel considerations (surface water abstractions only)

Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse. For further guidance on appropriate screening Intake screening for fish (opens in new tab)

	Intake	Outfall
Type of fish screen	Wheel Filter 3.3m in diameter	Fixed panel
Screen aperture size (mm)	Less than 10mm	Less than 10mm

Confirm the fish species present at your site. If you're not proposing any measures to protect fish and eels, you must justify this. For example, we may have confirmed in our pre-application response that the intake is inaccessible to fish or you undertook a fish survey to confirm.

Fish species present in the River Ely: Roach, brown trout, perch, chub, eel, grayling, sea trout and salmon but not at The Royal Mint site

Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists.
Your local authority's environmental health will hold details of exempt domestic abstractors.

none known

Planning application

Have you sought advice on your planning application?

No

Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

Signed	K. Jenkins
Print name	Kim Jenkins
position	Head of Safety, Health & Environment

Date

* 23/03/2026

Submit your application

Enter your email address to get a copy of your application

kim.jenkins@royalmint.com