

Application for an environmental permit: Part B6 - new bespoke water discharge activity and groundwater (point source) activity

About you

Please give details of the individual, or where relevant for groups or organisations of individuals, the main representative.

Title:

First name:

Last name:

Please provide details below.

Are you applying as an individual, an organisation or group of individuals' (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

A registered company or other corporate body

Registered company or other corporate body

Please provide details below

Company name

Gold Mines of Wales (Operations) Ltd

Company registration number

07246717

Date of registration (DD/MM/YYYY)

07/05/2010

Contact name for the company

Title

First name

Last name

Email address

Your address

For companies this must be the address on record at Companies House.	
Address	6th Floor 60 Gracechurch Street, London -
Postcode	EC3V OHR
Telephone	0203 950 0725
Email address	info@albamineralresources.com

Agent or others acting on behalf of the applicant.

If you want us to contact an agent or another person not named above, their details must be provided below. This can be someone acting as a consultant or an 'agent' for you.

Title	
First name	
Last name	
Address	
Postcode	
Telephone	
Email address	

1 Pre-application discussions

<p>Did you have pre-applications discussions with Natural Resources Wales about this activity?</p>
<p>Yes</p>

Pre-application discussions

Give us the case reference or details of the pre-application advice you received. We will then be able to refer back to the information you've already given us, which will help us to determine your application.

In conjunction with "EPS Dev App Form - [REDACTED] - Clogau Gold Mine"

Have you changed your proposal since you had pre-application discussions with us?
No

Where will you be discharging?

Please complete

Site name Clogau-St David's Gold Mine

Address GMOW (Operations) Ltd
Bontddu

Postcode LL40 2UP

Please provide the 12 character national grid reference of the location of your septic tank / sewage treatment plant. This consists of two letters followed by 10 numbers (for example AB 12345 67890)

To find out the 12 character grid reference, you can search on the UK grid reference finder website: <http://www.gridreferencefinder.com/>

NG Ref: XXXXXXXXXX

About the effluent

Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent.

Pumped waters from flooded mine void and residual groundwater inflow

Give this effluent a unique name

This name will be used throughout the application and may be used in the permit to identify this effluent. If you have more than one effluent you must ensure that each name you use is distinct. For example, package sewage treatment plant effluent, septic tank effluent, cooling water, site drainage and so on.

Lower Llechfraith drainage

Is this a release from a dam, weir or sluice ('reservoir release') under Schedule 21 of the EPR meaning of water discharge activity?

No

Tell us the effluent type:

You must fill in a separate copy of this form for each type of effluent you plan to discharge.

Trade – known volume (including process effluents, wash waters, close circuit cooling waters, boiler blowdown, filter backwash, pumped mine water)

Trade – known volume: How long will you need to discharge?

What date do you want the permit for this effluent to start?

You cannot discharge your effluent prior to this start date on your permit. This is the date that your annual subsistence charges will start, even if you have not started to discharge.

* 01/04/2023

Is the discharge time limited?

No

For seasonal discharges which only occur for part of the year, tells us when the discharge will take place. Where a discharge will continue at a significantly lower rate over a period you should complete this question and also send in details of the seasonal variation. For example, campsites which are closed in winter but have a residual throughput from residential properties on site all year.

Will the discharge take place all year?

Yes

Will the discharge take place on more than six days in any year?

If you answer 'no' you must be able to comply with the requirement to discharge on six days or fewer in any year as this will be a permit condition. It would apply only to batch processes such as the emptying of fish rearing ponds or planned shutdowns of plant or equipment

Yes

Trade – known volume: Could your discharge be made to the foul sewer?

How far away is the nearest foul sewer from the boundary of the premises (in metres)?

You will need to check this with your sewerage undertaker (usually your local water company) and you may also need to check if it is possible to connect to a private foul sewer. Measure the shortest distance between the boundary of premises served by the sewage treatment facility and the nearest foul sewer and/or private sewer.

>1000m

If your answer to the above question is greater than the distance to the nearest foul sewer you must explain why you cannot discharge your effluent into the foul sewer.

You must send us evidence that you have approached the sewerage undertaker or owner(s) of the private sewer to reach an agreement for a connection to the foul sewer and send us their formal response regarding connection

- File: PLS0027126 sewer.pdf - [Download](#)

Please provide your explanation below:

Having contacted Dwr Cymru the nearest sewer runs under the main A496 road through Bontddu village. This would require the construction of over 1km of dedicated pipeline to transfer the water.

Trade – known volume: How much do you want to discharge?

What is the maximum volume of effluent you will discharge in a day (in cubic metres)?

100

What is the maximum rate of discharge (in litres a second)?

1.15

Tell us how you have calculate this figure in the box below, or upload a copy of your workings in the next question.

Pumping trials will discharge a maximum of 100m³/day at a constant rate
 $100/24 \times 1000/3600$

Trade – known volume: How will the effluent be treated?

Do you treat your effluent?

Yes

Please fill in the table below for each stage of the treatments carried out on your effluent in the order in which they are carried out. . If you prefer, you can upload an overall design for the whole treatment process below

	Code number
First treatment	29 Settlement
Second treatment	-
Third treatment	-
Fourth treatment	-

Final effluent discharge quality

You must provide details of the final effluent discharge quality that the overall treatment system is designed to achieve. This should be after all the stages of treatment you have listed in the table above. For discharges of treated domestic sewage effluent this must include biochemical oxygen demand, suspended solids and ammonia. For trade effluent discharges, the substances should reflect the substances that are likely to be present in the final effluent discharge.

Please upload this and any supporting documents here.

- File: SE22720 Gold Mines of Wales Clogau Analysis.pdf - [Download](#)

Trade – known volume: What will be in the effluent?

Are any 'specific substances' added to or present in the effluent as a result of the activities on the site?

You may add chemicals to the effluent during the treatment process; for example, iron salts to remove phosphate. Or you may have substances present in your effluent as a result of activities on your site; for example, chromium can be present in effluents from concrete batching plants.

No

Have any 'specific substances' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge?

Yes

Are there any other harmful or hazardous substances in your effluent not mentioned in the environmental risk assessment guidance ?

The list in the environmental risk assessment guidance is not exhaustive and if you accept, add or detect any other harmful substance (including hazardous substances or relevant non-hazardous pollutants as described above) you will need to tell us.

No

If you have answered yes to either of the above two questions, please fill in the table below or upload further information on a separate sheet.

	Substance	Unit	Maximum concentration	Minimum concentration	Average concentration	Number of samples	Total or dissolved
	Arsenic	micrograms/l	26.0	3.2	13.0	27	Dissolved
	Arsenic	micrograms/l	50.6	6.6	21.6	27	Total
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

You must also send us any information on samples that you may have

- File: GMOW (Operations) Ltd Water Analyses.xlsx - [Download](#)

Give the maximum temperature of your discharge in degrees Celsius

10

Trade – known volume: Monitoring arrangements

Please provide the 12 character national grid reference of the final effluent sample point.

This is the sample point used to assess compliance with any water quality emission limits on your permit. You must ensure that it allows a representative sample of the discharge to be obtained. You must also ensure that all constituents of the discharge pass through the sampling point at all times. The sample point can be where the effluent meets the receiving environment only in cases where no other effluent is added before this point. You must provide a permanent means of access to monitoring points.

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website: gridreferencefinder.com

██████████

Do you have a UV disinfection efficacy monitoring point?

This type of monitoring point is only required for discharges that undergo some form of disinfection. For example, ozone or ultraviolet disinfection, membrane filtration etc.

No

What is the 12 character national grid reference of the flow monitoring point?

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website gridreferencefinder.com

██████████

Does the flow monitor have an MCERTS certificate?

No

Where will the effluent discharge to?

Where will the effluent discharge to?

Non-tidal river, stream or canal

Is this effluent discharged through more than one outlet?

Effluents are usually discharged to one location in one receiving environment. If your effluent will be discharged to more than one location within the same receiving environment, for example, two different discharge points on a non-tidal river, you can provide details of every discharge point on the next page.

If your effluent discharges to more than one location in a different receiving environment, for example, into land and to a non-tidal river you will need to select both receiving environments above and complete the relevant sections on the following pages.

No

Are there any other factors we need to take into account as part of your application?

Yes

If yes, please give details:

This discharge will be a partial diversion of a proportion of the existing discharge from the mine

Discharges to non-tidal river, stream or canal

Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan), the national grid reference and the name of the watercourse, canal or the main watercourse it is a tributary of if you know it

	Discharge point name	National grid reference	Watercourse name	Name of effluent discharged through this discharge point
1	Treated water	██████ ██████	Afon Cwm Llechen	Pumped minewater
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

Is the discharge into a

Non-tidal river

Does the discharge reach the watercourse or canal by flowing through a surface water sewer?

No

Does the watercourse dry up for part of the year?

Effluent should discharge to watercourses which flow all year. Discharging to a dry watercourse may cause the effluent to pond and cause other environmental or amenity issues"

No

Environmental risk assessment and modelling

Have you carried out any river quality modelling? Read the 'Surface water pollution risk assessment for your environmental permit' guidance available on Gov.UK to determine if you need to provide this modelling.

Yes

Upload details of how the modelling was carried out and the outcome of the assessment.

- File: GMOW Draft - H1 water discharges calcs spreadsheet v6.xlsx - [Download](#)

Site plan

You must provide a site plan for your proposed discharge which is A4 in size or larger, and at 1:10,00 scale or larger.

On your plan you must show: which direction North is; the premises discharging effluent; the site in relation to the local area; any watercourses, wells, springs or boreholes on the site (or within 50 metres); the location of the wastewater treatment system all outlets where effluent will be discharged into the receiving environment; where samples of effluent can be taken automatically or manually (if required); where flow or quality will be measured (if required).

You may submit more than one plan if necessary.

Please upload your plan(s) below

- File: [https://d.docs.live.net/782f9bdc9ccd620e/Documents/GMOW_NRW/GMOW Site Plan.pdf](https://d.docs.live.net/782f9bdc9ccd620e/Documents/GMOW_NRW/GMOW%20Site%20Plan.pdf) - [Download](#)

Application fee

Is your discharge or groundwater activity a standard rate (£912) or reduced rate (£129)?

Standard

Tell us your total charges

912

How do you want to pay?

Who can we talk to you about your billing or invoice?

Same as application contact

If a new contact, please provide details:

Title -

First name [REDACTED]

Last name [REDACTED]

Address 6th Floor, 60 Gracechurch Street, London

Postcode EC3V OHR

Telephone 0203 950 0725

Email address [REDACTED]

How do you want to pay for your application fee?

Electronic transfer (e.g. BACS)

How we collect your personal data

We will process the information provided by you in line with the Data Protection legislation. For more information on how we manage, store and use your data, see our [Privacy Notice](#) (opens in new tab)

Please treat the information in my application as confidential

I have read and understood this information

Yes

Freedom of Information

I have read and understood this information

Yes

Declaration
