

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**



Part A

To: HANSON QUARRY PRODUCTS EUROPE LTD
THE COMPANY SECRETARY
THE RIDGE CHIPPING SODBURY
BRISTOL
BS37 6AY

NB: For a body corporate the job title is a point of contact.
Holder Start Date: 26/08/00

The **Environment Agency** ("the Agency") hereby confirm that the above named person is a/the registered holder of consent AN0272901 Consent issued: 06/06/97

Nature of Discharge(s); TMWC Trade - Minewater - Continuous
at SN9494008710 PENDERYN QUARRY PENDERYN ABERDARE

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. **Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor.** To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To:

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent: AN0272901
Consent Issued: 06/06/97
Name: HANSON QUARRY PRODUCTS EUROPE LTD
Address: THE COMPANY SECRETARY
THE RIDGE CHIPPING SODBURY
BRISTOL
BS37 6AY

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to: * delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s);

Signed: **Dated:**

Name (block capitals): **Position:**



Deddf Adnoddau Dwr 1991
fel y'i diwygiwyd gan Ddeddf yr Amgylchedd 1995
Caniatâd Gollwng
Tystysgrif Daliwr



**ASiantaeth yr
AMGYLCHEDD**

Rhan A

At:

HANSON QUARRY PRODUCTS EUROPE LTD
THE COMPANY SECRETARY
THE RIDGE CHIPPING SODBURY
BRISTOL
BS37 6AY

DS: I gorff corfforedig mae teitl y swydd yn bwynt cysylltu.
Dyddiad Cychwyn Daliwr: 26/08/00

Mae **Asiantaeth yr Amgylchedd** ("yr Asiantaeth") yn cadarnhau drwy hyn mai/bod y sawl a enwyd uchod yw/yn ddaliwr cofrestredig uy caniatâd
AN0272901 Cyhoeddwyd Caniatâd: 06/06/97

Natur y gollwng:
yn

TMWC Trade - Minewater - Continuous
SN9494008710 PENDERYN QUARRY PENDERYN ABERDARE

Nodyn: Dylid cadw'r dystysgrif hon gyda'r ddogfen ganiatâd i gyfeirio ati yn y dyfodol. Os byddwch yn trosglwyddo cyfrifoldeb y gollwng i rywun arall, rhaid i chi gyflwyno'r caniatâd iddo ef neu hi a dweud wrth yr Asiantaeth cyn pen 21 diwrnod. **Ni all y daliwr wadu cyfrifoldeb y gollwng, ond gall cofrestriad y daliwr gael ei drosglwyddo i olynnydd.** I wneud hynny, byddwch cystal â llenwi'r ffurflen isod, ei datgysylltu a'i dychwelyd i'r cyfeiriad a nodir. Os methwch drosglwyddo'r caniatâd, hyd yn oed os nad ydych ar y safle mwyach, gallwch fod yn agored yr un fath i gael eich erlyn am lygru. Os trosglwyddwch y caniatâd ond heb ddweud wrthom, byddwch yn cyflawni trosedd. Os bydd gennych ymholiadau, byddwch cystal â chysylltu â swyddfa Asiantaeth yr Amgylchedd yn lleol.

Rhan B Llenwch mewn priflythrennau bras neu deipio.

At:

Deddf Adnoddau Dwr 1991: Hysbysiad am drosglwyddo caniatâd gollwng

Caniatâd:

AN0272901

Enw:

HANSON QUARRY PRODUCTS EUROPE LTD

Cyfeiriad:

Cyhoeddwyd Caniatâd:

06/06/97

THE COMPANY SECRETARY

THE RIDGE CHIPPING SODBURY

BRISTOL

BS37 6AY

Yr wyf fi/Yr ydym ni* drwy hyn yn hysbysu'r Asiantaeth nad fi/ni/nad wyf/ydym mwyach yw/yn* Ddeiliad y caniatâd uchod. Caiff/Cafodd hwnnw ei drosglwyddo i:

*dilewch yn ôl yr angen

Enw(au) y Daliwr/Dalwyr newydd:

Cyfeiriad:

Cod Post:

Dyddiad Trosglwyddo i'r Daliwr/Dalwyr newydd:

Llofnodwyd:..... **Dyddiedig:**

Enw Enw (priflythrennau bras):..... **Safle:**



Our Ref: EA/DNH

13th December 2000

Eleanor Smart
Consents Officer
Environment Agency
Regional Consents
Rivers House
St. Mellons Business Park
St. Mellons
Cardiff
CF3 0LT

Hanson Aggregates

Regional Office
Canal Road
Cwmbach
Aberdare CF44 0AG
Tel 01685 884444
Fax 01685 882005
www.hanson-aggregates.com

RECEIVED
14 DEC 2000

Dear Madam,

Re: Environment Act 1995, Water Resources Act 1991 – Company Name Change

I write to inform you that as from the 26th August 2000, the Company known as Hanson Aggregates South Wales Limited (HASWL) became vested within its parent Company, Hanson Quarry Products Europe Limited (HQPEL), whose address is as follows:

Hanson Quarry Products Europe Limited
The Ridge
Chipping Sodbury
Bristol BS37 6AY

Please accept this letter as formal notification of the transfer of Discharge Consents, Abstraction Licences and Land Drainage Consent, shown on the schedules enclosed, from HASWL to HQPEL.

Whilst writing, may I take the opportunity to notify you that as of the 11th November 2000, HQPE are no longer the owners of the Concrete Plants at Risca and Swansea, which currently have extant Discharge Consents, Nos. **AN0239001** and **BP0224601** respectively. Ownership of both sites is now vested with Tarmac Limited whose address is as follows:

Tarmac Limited
Mittsfield Road
Ettingshall,
Wolverhampton
West Midlands WV4 6JP

*Amended
11/2/01
ELH*

Finally, would you please ensure all future correspondence is directed to myself at the address given at the top of this page and accept our apologies for the delay in notification.

Yours faithfully

pp. D.N. Hg

M M Frampton
Natural Resources Manager

Enc

HANSON AGGREGATES SOUTH WALES LIMITED

1 SCHEDULE OF CONSENTS TO DISCHARGE

	(a)	(b)	(c)	(d)	(e)
1	QUARRIES				
1.1	Hanson Aggregates South Wales Limited	AW4002601	Trade Effluent	Llanelwedd Quarry, Builth Wells	10.11.92.
1.2	Hanson Aggregates South Wales Limited	AW4002602	Trade Effluent	Manor Quarry, Builth Wells	10.11.92.
1.3	Hanson Aggregates South Wales Limited	AF4029101	Trade Effluent	Craig-Yr-Hesg Quarry	26.10.93.
1.4	Hanson Aggregates South Wales Limited & Marshalls Mono Limited	BP0255101	Trade Effluent	Lithalun Quarry, Bridgend	31.07.95.
1.5	Hanson Aggregates South Wales Limited	AS4003601	Trade Effluent	Livox Quarry, Tintern	24.04.75.
1.6	Hanson Aggregates South Wales Limited	AF4028802	Trade Effluent	Machen Quarry, Machen	22.04.97.
1.7	Hanson Aggregates South Wales Limited	AN0238501	Trade Effluent	Penderyn Quarry	02.11.92.
1.8	Hanson Aggregates South Wales Limited	AN0272901	Trade Effluent	Penderyn Quarry	06.07.97.
1.9	Hanson Aggregates South Wales Limited	AB0072601	Trade Effluent	Penhow Quarry, Newport	18.08.70.
1.10	Hanson Aggregates South Wales Limited Tarmac Heavy Buildings Materials UK Limited	AF4026001	Trade Effluent	Vaynor Quarry, Merthyr Tydfil	23.05.78.
1.11	H.A.S.W. LIMITED	AG0016401	Trade Effluent	Cwmleishon Quarry, Draethen	29.06.83.

Standing

Standing

2 PREMIX PLANTS

2.1	H.A.S.W. Limited	AN0224701	Trade Effluent	Craig-Yr-Hesg	03.01.96.
2.2	H.A.S.W. Limited	AG0001901	Trade Effluent	Penderyn Quarry	12.01.96.
2.3	H.A.S.W. Limited	BM0006001	Trade Effluent	Briton Ferry	12.06.80.
2.4	H.A.S.W. Limited	AN0161201	Trade Effluent	Cardiff Docks	04.08.99.
2.5	H.A.S.W. Limited	AN0237001	Trade Effluent	Ebbw Vale	26.05.95.
2.6	H.A.S.W. Limited	AC0100401	Trade Effluent	Newport	21.06.95.
2.7	H.A.S.W. Limited	AN0239001	Trade Effluent	Risca	26.05.95.
2.8	H.A.S.W. Limited	BP0224601	Trade Effluent	Swansea	27.07.93.

Non-stand

Reference:

(a) = Registered Holder (b) = Consent Number (c) = Nature of Discharge (d) = Site Location (e) Date of Consent (as issued or last revised)

2 SCHEDULE OF ABSTRACTION LICENCES

	Licence Holder	Licence Number	Location	Date of Licence
1	Hanson Aggregates South Wales Limited	19/55/21/0044	Livox Quarry	10.08.66.
2	Hanson Aggregates South Wales Limited	21/57/23/0051	Penderyn Quarry	07.02.77.

3 SCHEDULE OF LAND DRAINAGE CONSENT

	Consent Holder	Consent Number	Location	Date of Consent
1	H.A.S.W. Limited	95/485W	Lithalun Quarry	28.07.95.

Our Ref: EA/DNH

13th December 2000

Eleanor Smart
Consents Officer
Environment Agency
Regional Consents
Rivers House
St. Mellons Business Park
St. Mellons
Cardiff
CF3 0LT

Hanson Aggregates

Regional Office
Canal Road
Cwmbach
Aberdare CF44 0AG
Tel 01685 884444
Fax 01685 882005
www.hanson-aggregates.com

Dear Madam,

Re: Environment Act 1995, Water Resources Act 1991 – Company Name Change

I write to inform you that as of the 1st August 2000, Pioneer International Limited were acquired by Hanson PLC.

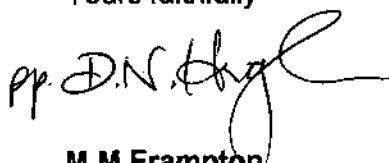
Please accept this letter as formal notification of the transfer of the Discharge Consents and Abstraction Licence held by Pioneer, shown on the schedule enclosed, for their units within South Wales to the new Company whose details are as follows:

Hanson Quarry Products Europe Limited
The Ridge
Chipping Sodbury
Bristol BS37 6AY

Please accept our apologies for the delay in notification.

Finally, would you please ensure all future correspondence is directed to myself at the address given at the top of this page.

Yours faithfully



M M Frampton
Natural Resources Manager

Enc

PIONEER AGGREGATES (UK) LIMITED / PIONEER CONCRETE (UK) LIMITED

1 SCHEDULE OF CONSENTS TO DISCHARGE

	(a)	(b)	(c)	(d)	(e)
1	QUARRIES				
1.1	Pioneer Aggregates (UK) Limited	AN0229001	Trade Effluent	Forest Wood	16.01.92.
1.2	Pioneer Aggregates (UK) Limited	AN0229002	Trade Effluent	Forest Wood	16.01.92.
1.3	Pioneer Aggregates (UK) Limited	AG0018801	Trade Effluent	Forest Wood	25.02.97.

2	PREMIX PLANTS				
2.1	Pioneer Concrete Holdings PLC	AF4010801	Trade Effluent	Barry	10.07.74.
2.2	Pioneer Concrete Holdings PLC	AN0023501	Trade Effluent	Cardiff	23.03.87
2.3	Pioneer Concrete (UK) Limited	BP0282101	Trade Effluent	Carmarthen	
2.4	Pioneer Concrete Holdings PLC	BN0252201	Trade Effluent	Pembroke	22.11.93.
2.5	Pioneer Concrete (UK) Limited	BP0262901	Trade Effluent	Pembroke	22.04.97.
2.6	Pioneer Concrete Holdings PLC	AB0075901	Trade Effluent	Pontypool	11.10.96.
2.7	Pioneer Concrete Holdings PLC	BE0057101	Trade Effluent	Llanelli	30.03.73.
2.8	Pioneer Concrete Holdings PLC	AS4002401	Trade Effluent	Ross on Wye	05.05.65.
2.9	Pioneer Concrete Holdings PLC	AB0044101	Trade Effluent	Newport	25.05.65.

Reference:

(a) = Registered Holder

(b) = Consent Number

(c) = Nature of Discharge

(d) = Site Location

(e) = Date of Consent (as issued or last revised)

2 SCHEDULE OF ABSTRACTION LICENCE

	Licence Holder	Licence Number	Location	Date of Licence
1	Pioneer Aggregates (UK) Limited	22/59/2/108	Ammanford	31.01.94.

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: HANSON AGGREGATES SOUTH WALES LTD
THE COMPANY SECRETARY
CANAL ROAD
CWMBACH
ABERDARE CF44 0AG



NB: For a body corporate the job title is a point of contact.
Holder Start Date: 19-JUN-99

The **Environment Agency** ("the Agency") hereby confirm that the above named person is a/the registered holder of consent AN0272901 Consent Issued: 06-JUN-97

Nature of Discharge(s); TRADE EFF/MINEWATER/CONTINUOUS
at

PENDERYN QUARRY PENDERYN ABERDARE

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. **Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor.** To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To:

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent: AN0272901

Name: HANSON AGGREGATES SOUTH WALES LTD

Consent Issued: 06-JUN-97

Address:

THE COMPANY SECRETARY
CANAL ROAD
CWMBACH
ABERDARE CF44 0AG

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to:

* delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s);

Signed: Dated:

Name (block capitals): Position:



New Title	Authorisation/Licence/Consent	Nature of Discharge	Site Location	Date of Consent etc
Hanson Quarry Products Europe Limited	AH4004102 ✓	Trade effluent (from dewatering quarry)	Hereford	6-Feb-79
Hanson Quarry Products Europe Limited	CG0136801 ✓	Trade effluent	Llanddulas	23-Nov-92
Hanson Quarry Products Europe Limited	CG341101 ✓	Trade effluent/site drainage/rainfall	Pennaenmawr	4-Aug-93
Hanson Quarry Products Europe Limited	CG341102 ✓	Trade effluent/site drainage/rainfall	Pennaenmawr	4-Aug-93
Hanson Quarry Products Europe Limited	CG0348201 ✓	Trade effluent	Tortfannau	29-Mar-94
Hanson Quarry Products Europe Limited	CG010151 ✓	Trade effluent/site drainage/rainfall	Dolgellau	5-Dec-94
Hanson Quarry Products Europe Limited	CM0086601 ✓	Trade effluent/site drainage/rainfall	Mold	4-Sep-95
Hanson Aggregates South Wales Limite	AN0224701 ✓	Trade effluent	Craig Yr Hesg	3-Jan-96
Hanson Aggregates South Wales Limite	AG0001901 ✓	Trade effluent	Penderyn	12-Jan-96
Hanson Aggregates South Wales Limite	BM0006001 ✓	Trade effluent	Briton Ferry	12-Jun-80
Hanson Aggregates South Wales Limite	AN0161201 ✓	Trade effluent	Cardiff Docks	20-Oct-89
Hanson Aggregates South Wales Limite	AF0237001 ✓	Trade effluent	Ebbw Vale	26-May-95
Hanson Aggregates South Wales Limite	AC0100401 ✓	Trade effluent	Newport	21-Jun-95
Hanson Aggregates South Wales Limite	AN0239001 ✓	Trade effluent	Risca	26-May-95
Hanson Aggregates South Wales Limite	BP0224601 ✓	Trade effluent	Swansea Docks	27-Jul-93
Hanson Aggregates South Wales Limite	AW4002601 ✓	Trade effluent	Builth	10-Nov-92
Hanson Aggregates South Wales Limite	AW4002602 ✓	Trade effluent	Builth (Manor)	10-Nov-92
Hanson Aggregates South Wales Limite	AF4029101 ✓	Trade effluent	Craig Yr Hesg	26-Oct-93
Hanson Aggregates South Wales Limite	BP0255101 ✓	Trade effluent	Lithalun	31-Jul-95
Hanson Aggregates South Wales Limite	AS4003601 ✓	Trade effluent	Llwox	24-Apr-76
Hanson Aggregates South Wales Limite	AF4028802 ✓	Trade effluent	Machen	22-Apr-97
Hanson Aggregates South Wales Limite	AN02378501 ✓	Trade effluent	Penderyn	2-Nov-92
Hanson Aggregates South Wales Limite	AN027290101 ✓	Trade effluent	Penderyn	6-Jun-97
Hanson Aggregates South Wales Limite	AB0072601 ✓	Trade effluent	Penhow	18-Aug-70
Hanson Aggregates South Wales Limite	AF4026001 ✓	Trade effluent	Vaynor	23-May-78
Hanson Aggregates South Wales Limite	AG0016401 ✓	Trade effluent	Cwm Llyshon	29-Jun-83

AN0237001
AN0237001

See :-
AH4004102
BM0060001
CG0136801
for all copy of
name change
memo etc.
Bex

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: ARC SOUTH WALES LTD
THE COMPANY SECRETARY
CANAL ROAD
CWMBACH
ABERDARE CF44 0AG

NB: For a body corporate the job title is a point of contact.

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent AN0272901 Consent Issued: 06-JUN-97

Nature of Discharge(s); TRADE EFF/MINEWATER/CONTINUOUS
at
PENDERYN QUARRY, PENDERYN, ABERDARE

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor. To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type

To:

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent: AN0272901

Consent Issued: 06-JUN-97

Name: ARC SOUTH WALES LTD

Address: THE COMPANY SECRETARY
CANAL ROAD

CWMBACH

ABERDARE CF44 0AG

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to:

* delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of transfer to new Holder(s):

Signed:

Dated:

Name (block capitals):

Position:



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

Our ref: an0272901
Your ref:

Date: 12 June 1997

M M Frampton
Senior Estates Surveyor
ARC South Wales Ltd.
Canal Road
Cwmbach
Aberdare
CF44 OAG

Dear Sir/Madam,

RE: WATER RESOURCES ACT 1991 SECTION 88 SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995). APPLICATION FOR CONSENT TO DISCHARGE AT PENDERYN QUARRY, ABERDARE. APPLICATION NO. AN0272901

Further to your application the Agency has decided that consent should be given subject to conditions. I enclose the Agency's formal consent to discharge trade effluent from Penderyn Quarry.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge is of sewage effluent of five cubic metres or less per day. The charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet.

If you consider that the conditions imposed by the consent are unreasonable you have a right of appeal to the Secretary of State for Wales at the Welsh Office, Cathays Park, Cardiff, CF1 3NQ.

Notice of an appeal must be given in writing within three months of this notification and must be accompanied by a statement of the grounds of appeal.

If granted, a consent under Schedule 10 of the Act, covers water quality considerations only. It does not alter the need to obtain any other consents or approvals which might be required in connection with your proposal under other legislation. For example it does not give any right or permission to discharge where land is not owned by the applicant.

Please take careful note that if the holder of the consent changes, you must inform the Agency IN WRITING as soon as possible of the name of the new holder. This is to ensure that the rights and charges associated with the Consent are transferred to the new holder. A Certificate of Holder notice will be sent to you shortly which is designed for this purpose, and should be kept safely with the Consent until required.

Yours faithfully,

Kathrene R. Bardeley

MARTIN MILLS
Area Water Quality Manager

Enc.

Please ask for: Huw Price



CONSENT NO.

AN0272901



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

CONSENT TO DISCHARGE

TO: THE COMPANY SECRETARY
ARC SOUTH WALES LTD
CANAL ROAD
CWMBACH
ABERDARE
CF44 0AG

The **ENVIRONMENT AGENCY** ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY CONSENTS** to the making of a discharge **OF TRADE EFFLUENT**, as follows:

PUMPED GROUNDWATER /SITE DRAINAGE

FROM: EFFLUENT TREATMENT PLANT

AT: PENDERYN QUARRY, PENDERYN ABERDARE

TO: THE RIVER CYNON

SUBJECT TO the conditions set out in the following schedule:

PUMPED GROUNDWATER/SITE DRAINAGE SCHEDULE NO. AN027290101

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, altering this consent, without the agreement in writing of the consent holder, during a period of 4 years from the date this consent takes effect.

This consent is issued and takes effect on the *6th* day of *June* 1997

Signed

March J. Hilly
Area Water Quality Manager

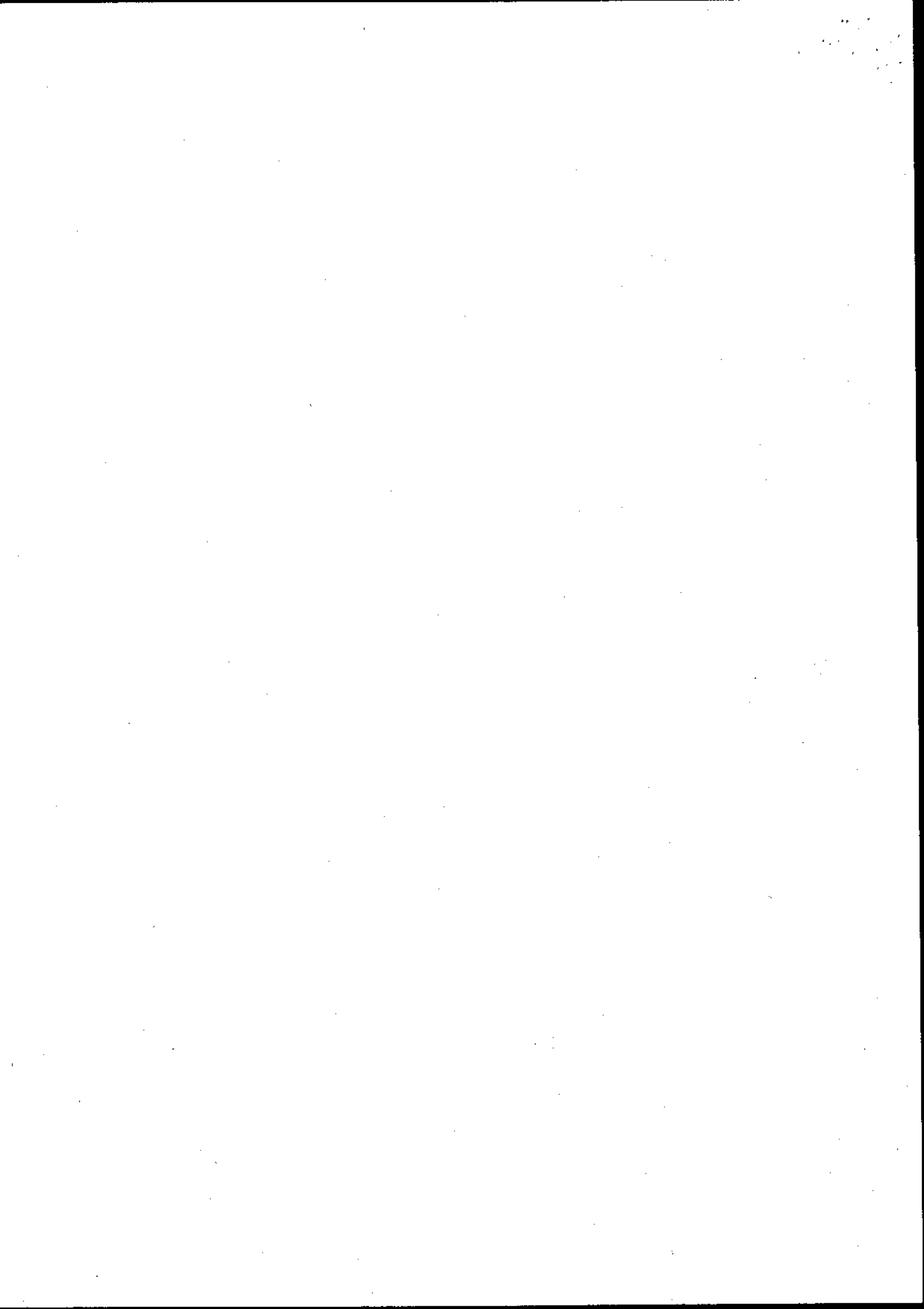
Asiantaeth yr Amgylchedd

Plas yr Afon, Parc Busnes Llancirwg, Llancirwg, Caerdydd CF3 0LT. Ffôn 01222 770088, Ffacs 01222 798555

Environment Agency

Rivers House, St. Mellons Business Park, St. Mellons, Cardiff CF3 0LT. Tel 01222 770088, Fax 01222 798555





CONSENT NO.	AN0272901
SCHEDULE NO.	AN027290101
DATE ISSUED	6/6/97



ASiantaeth Yr
AMGYLCHEDD
ENVIRONMENT
AGENCY

CONDITIONS OF CONSENT TO DISCHARGE

PUMPED GROUNDWATER /SITE DRAINAGE ("the Discharge")

FROM: EFFLUENT TREATMENT PLANT, PENDERYN QUARRY

1. (a) The Discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.
- (b) Provided that the Discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by those conditions.

NATURE

2. The Discharge shall consist solely of trade effluent comprising of pumped groundwater and site drainage from a total drainage area of 202300 square metres for the prevention of interference with quarrying.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 300mm dia pipe set in concrete headwall.
 - (b) discharging to the River Cynon
 - (c) at National Grid Reference SN 9494 0871
 - (d) shown marked "Consent Point" on Drawing No P7d/2 attached as Annex 1

SAMPLE POINT

4. The outlet to the watercourse shall be constructed and maintained so that a representative sample of the Discharge may be obtained at National Grid Reference SN 9494 0871 as shown marked 'Consent Point' on Drawing No P7d/2





CONSENT NO	AN0272901
SCHEDULE NO	AN027290101
DATE ISSUED	6/6/97

VOLUME

5. The volume of the Discharge shall be dependant on rainfall.
6. The rate of discharge shall not exceed 50 litres per second.

COMPOSITION

7. The discharge shall not contain more than:
 - (a) 25 milligrammes per litre of suspended solids (measured after drying at 105°C.);
 - (b) 10 milligrammes per litre of mineral oil.
 - (c) a pH value of 9.0pH units or less than a pH value of 6.0 pH units.
 - (d) 2 milligrammes per litre of total iron (as Fe)
8. The effluent treatment facility shall be maintained in an efficient operational manner at all times.
9. As far as is reasonably practicable, the effluent treatment area shall be operated to prevent:
 - (i) any matter being present in the Discharge to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and
 - (ii) the Discharge from having any other adverse environmental impact.



PENDERYN QUARRY
APPLICATION FOR CONSENT TO DISCHARGE
SUPPORTING STATEMENT

It is proposed to deepen Penderyn Quarry by dewatering future workings below the water table. The existing settlement lagoons at the quarry have a limited ability to handle any additional capacity, therefore the water from the dewatering operations will be handled/processed as a separate entity with the discharge from the new facilities, described below, being directed to a new consented discharge point on the Cynon River just south of the quarry entrance. Surface run-off water from the processing plant and stockyard areas will continue to be managed via the existing arrangements and discharged in accordance with Consent Ref.No.AN0238501.

It will not be possible to produce precise details of the final dewatering arrangements until the quantity and quality of the water to be handled become more accurately known. An initial estimate is that the quantity is likely to be in the region of 0.5-4.5 million litres per day, with pumping taking place on a 24 hour basis throughout the year. The quality of the water to be pumped is an unknown factor, but for practical purposes the assumption is being made that it will contain suspended solids in excess of 0.1mm diam particle size.

The principal method of detwatering will be by pumping from a sump within the lower workings. If suitable geological conditions are encountered then consideration will be given to the use of a combination of detwatering techniques involving conventional pumping from a sump and an arrangement consisting of a series of air lift pumps positioned in advance of the lower quarry faces. The latter arrangement produces clean water which could be pumped direct to the discharge point subject to its quality being continually monitored.

The water arising from the main sump will be of variable quality and this will be automatically monitored via a turbidity meter arrangement so as to permit a direct discharge to the Cynon River if it is within the limits set by the discharge consent. If the water exceeds these limits then the turbidity monitor will direct the flow to new water treatment lagoons.

Preliminary calculations have shown that the magnitude of flow (assuming the estimated maximum quantity of 4.5 million litres per day will need to be handled) will require two continuous flow type settlement lagoons of circa 20m x 10m arranged in parallel. In the earlier stages of the development it is anticipated that the flows will be much lower than this ultimate requirement and therefore the construction of the settlement facility can take place in a phased manner. This approach is the preferred option as it will allow flexibility to modify the design if necessary to enhance the efficiency of the facility.

It is intended to construct an attenuation pond prior to the settlement lagoons, the holding capacity of which will be maximised to suit the available floor space (see schematic diagram - fig.1). The attenuation pond will serve two main purposes:

- a. To accommodate fluctuating deliveries from the dewatering pumps.
- b. To act as a crash box to absorb the momentum of the water before it enters the settlement facility.

The attenuation pond will be provided with several outlets to direct the water to the settlement lagoons which in turn will pass the cleaned water to the new discharge point.

The likelihood is that there will ultimately be four settlement lagoons allowing each lagoon to be selectively taken out of circuit for de-silting purposes whilst retaining the required functional settlement area for normal use in settling out suspended solids.

As regard monitoring of the quality of the discharges it is proposed that a system, incorporating several turbidity meters will be arranged to monitor the discharge from the pumps and also the final discharge to the consented point. As previously mentioned the turbidity meter monitoring the discharge from the pumping column will be used to automatically direct the discharge to the attenuation pond and thereafter the lagoons in the event of the level of suspended solids exceeding a predetermined level. Other turbidity meters will be provided to aid the daily management of the settlement facility.

Records of the quantity of water pumped will be kept and incorporated in a ground and surface monitoring programme which is already ongoing at the quarry.

The use of flocculants has not been considered as the particle size distribution of the suspended solids is not known at this stage, however, should their use become necessary then a dosing station will be incorporated into the final design of the settlement facilities.

No discharge will be made other than in accordance with the appropriate discharge consent issued by the Environment Agency and for the time being in force. Full consultation will be carried out with the Agency in relation to the above details prior to the implementation of dewatering works.

ARC SOUTH WALES Penderyn Quarry

Dewatering Arrangements - Schematic Diagram

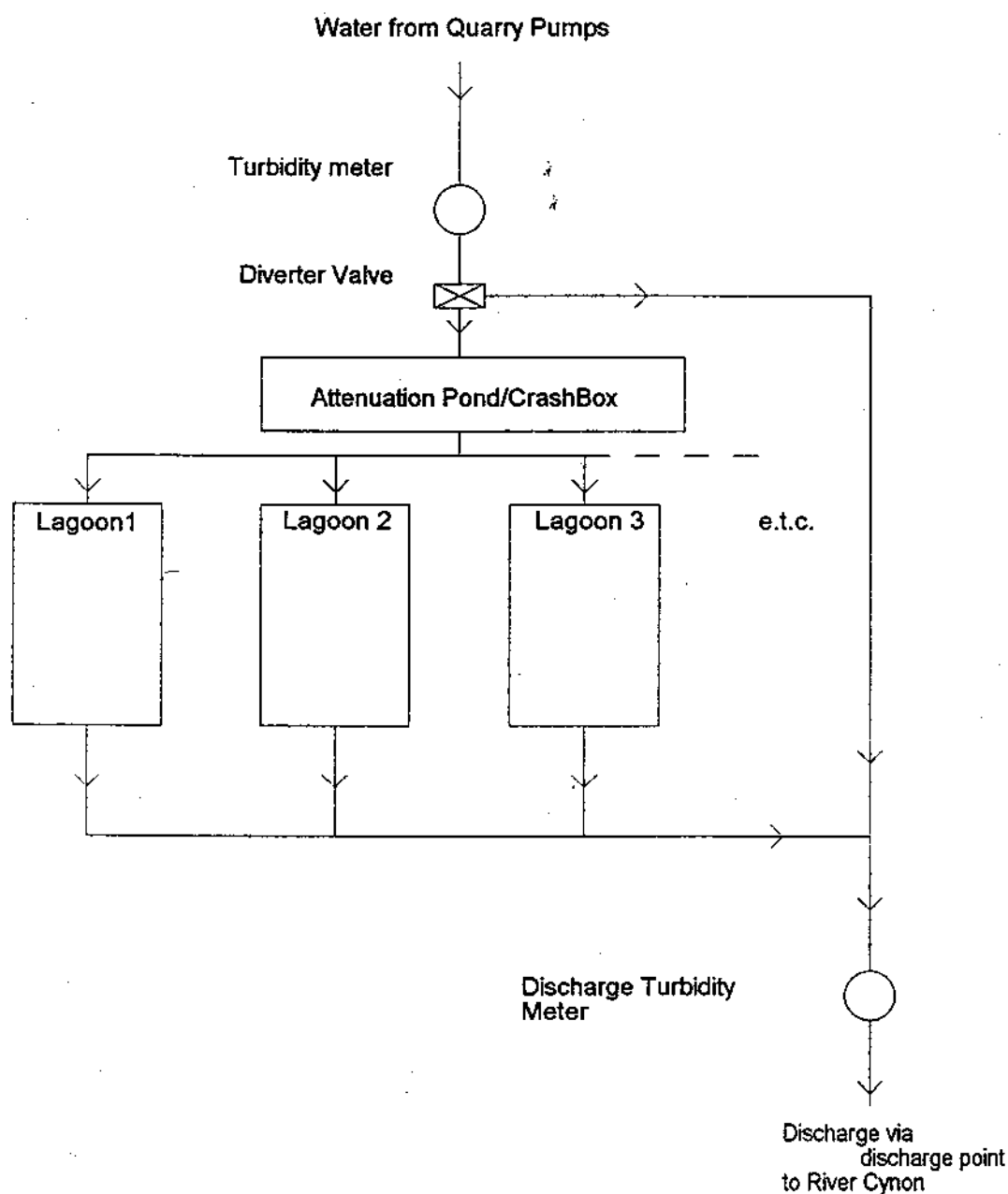


FIGURE 1

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**ENVIRONMENT
AGENCY**

WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

Application for new consent/variation to an existing consent* to discharge
(* delete as appropriate)

Regional/Area Address:

Regional Finance Manager
Environment Agency - Welsh Region
PO Box 425, St.Mellons Business Park
Cardiff CF3 0LT

Official Use Only

Dist/Area Ref:

Application No. A.20272901

Date Received:

Fee Received:

Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all the relevant sections and provision of the necessary plans. If you have any queries regarding the form please contact the person given in the notes.

NOTE:

All information contained within this application will be made available on the public register unless there is a request to withhold any of it. Any such request should provide a full justification stating why the information needs to be withheld (see note xiii).

1 SITE ADDRESS

1.1 Address or other sufficient description of land or premises to which this application applies.

PENDERYN QUARRY
PENDERYN
NR. ABERDARE
MID GLAM

Post Code:

CF44 0TX

2 DETAILS OF DISCHARGE(S)

2.1 State the nature of the discharge(s) (see note i and ii) - tick one or more boxes as appropriate:-

Sewage Effluent - volume of 5 cubic metres per day or less ☐

Sewage Effluent - volume greater than 5 cubic metres per day (complete annexe 1) ☐

Sewage Effluent discharged under storm or emergency conditions (complete annexe 2) ☐

Cooling Water (complete annexe 3) ☐

Trade Effluent (including site drainage) (complete annexe 3) ☐

Others (please specify) ☐

Surface run-off from quarry workings and pumped groundwater from quarry dewatering operations.

2.2 Please state the maximum quantity it is proposed to discharge in any one day **4,500** m³/day
Briefly state how this figure was calculated (see note ii).

Figure estimated by consultants SRK Ltd during a hydrogeological investigation of the quarry. Precise figure unknown due to the absence of pumping data to-date.

2.3 a) Indicate proposed means of discharge - tick as appropriate and show on plan:-
(for 1, 2 & 3 please state dimensions below)

1. Pipe ☒

4. Borehole ☐

7. Sub-Irrigation System ☐

2. Channel ☐

5. Well ☐

8. Combination of 6. & 7. ☐

3. Culvert ☐

6. Soakaway ☐

9. Other (please specify below) ☐

Pipe headwall arrangement generally in line with
NRA Sketch N° LD/004.

b) National Grid Reference(s) of point(s) of discharge (see note iii).

S N / 9 4 9 4 / 0 8 7 1 (please indicate on accompanying plans)

2.4 a) The Agency will normally require adequate provision for the taking of samples of the discharge in a safe and convenient manner at any time. Please indicate the means proposed (see note iv) - tick as appropriate and show on plan:-

At the outlet ☐

At a manhole or sampling chamber ☐

Other (please specify)

**AT VEE NOTCH - Location to be agreed with
OR FLUME Agency on site ***

b) National Grid Reference(s) of sampling point(s). (If different from 2.3 b) above)

☐ ☐ / ☐ ☐ ☐ ☐ / ☐ ☐ ☐ ☐ (please indicate on accompanying plans)
*

c) What flow measurement facilities will be provided (see note v)?

Please give details.

Vee Notch or flume

3.3 Please indicate source of the water supply - tick as appropriate:-

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Well Quarry sump | <input checked="" type="checkbox"/> | 5. River (please give name below) | <input type="checkbox"/> |
| 2. Borehole | <input type="checkbox"/> | 6. Estuary (please give name below) | <input type="checkbox"/> |
| 3. Precipitation (eg. rain or snow) | <input checked="" type="checkbox"/> | 7. Coastal Water (please give name below) | <input type="checkbox"/> |
| 4. Mains (please state water supply company) | <input type="checkbox"/> | | |

4 DETAILS OF RECEIVING ENVIRONMENT

4.1 Receiving Medium - tick the category(s) to which the proposed discharge(s) is(are) to be made:-

- | | | | |
|--|-------------------------------------|---------------------------------|--------------------------|
| 1. Estuarial Water (tidal river or stream) | <input type="checkbox"/> | 5. Into Land | <input type="checkbox"/> |
| 2. River or Stream (non-tidal) | <input checked="" type="checkbox"/> | 6. Onto Land | <input type="checkbox"/> |
| 3. Canal | <input type="checkbox"/> | 7. Directly into Groundwater | <input type="checkbox"/> |
| 4. Lake, Loch or Pond | <input type="checkbox"/> | 8. Coastal Water (see note vii) | <input type="checkbox"/> |

State name of receiving water if known:

4.2 In the case of sub-irrigation systems, soakaways or boreholes:-

(a) Is any part of the system within 5 metres of the boundary of the premises?

(b) Is any part of the system within 10 metres of a watercourse?

(c) Is any part of the system within 50 metres of a borehole or spring?

(d) For wells and boreholes state dimension(s) in metres.

(e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres.

(f) For boreholes, state details of lining in metres:

• (i) Depth of lining

(ii) Depth of perforated lining

(iii) Depth of unperforated lining

(g) A percolation test must be carried out in accordance with British Standard BS6297:1983.

Have the results been provided?

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)?

☒ Y/N

If yes, please give the reasons it is not practical to connect to it (eg. distance, flow etc.).

5 DETAILS OF APPLICANT AND OTHER INFORMATION

5.1 (See general notes and note ix)

- (a) Full name and postal address of applicant. This should be the person who will become the consent holder should consent be issued.

* ARC SOUTH WALES LIMITED - COMPANY SECRETARY
* CANAL ROAD
* CWMBACH
* ABERDARE COMPANY REGISTRATION NO. 685718
*

Post Code: CF44 0AG

Daytime Telephone Number: 01685 884444

Company Registration Number (if appropriate): 685718

- (b) Agent (if any) - Full name and postal address.

* M.M. FRAMPTON
* SENIOR ESTATES SURVEYOR
* ARC SOUTH WALES LIMITED
* — ADDRESS AS ABOVE —
*

Post Code:

Contact Name and Daytime Telephone Number: 01685 884444 Ext. 244

5.2

Please give full name and address to which bills should be sent if different to that given above:

* As above
*
*
*
*
*

Post Code:

Daytime Telephone Number:

5.3 Are there any other factors to be taken into account? Please continue on a separate sheet if necessary.

THIS APPLICATION HAS BEEN THE SUBJECT OF CONSULTATION BETWEEN
THE APPLICANT AND THE AGENCY'S POLLUTION CONTROL
DEPARTMENT (— CONTACT: MR. H. PRICE —)



ENVIRONMENT AGENCY

ANNEXE 3

TRADE EFFLUENT DISCHARGES

Please complete this annexe if you are proposing to discharge trade effluent (this includes site drainage).

Official Use Only
Application No.

1. Site Name.

PENDERYN QUARRY, PENDERYN, NR. ABERDARE

2. a) Describe in full the trade effluent and the process(es) from which it arises.

SURFACE RUN-OFF FROM QUARRY WORKINGS AND PUMPED GROUNDWATER FROM QUARRY DEWATERING OPERATIONS.

b) Please state the type and number of treatment units you are proposing to use (if site drainage please include details of oil/petrol interception facilities).

QUARRY DEWATERING EITHER DIRECT TO THE WATERCOURSE OR VIA SETTLEMENT LAGOONS (SEE SUPPORTING STATEMENT) WHERE THE LATTER OPTION IS USED THESE WILL INCORPORATE TEE PIPES / SLIM BOARDS OR BOOMS

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent?

N/A

b) If yes, please give the total area drained.

m²

c) Please give details of any activities which occur in the drainage area which could contaminate surface water (see note b)

VOLUME WILL COMPRISE PRIMARILY PUMPED GROUNDWATER FROM QUARRY DEWATERING.
ACTIVITIES WITHIN SITE — MOVEMENT OF MOBILE PLANT.

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge?

50 l/s

b) What is the average daily flow?

2,400 m³/d

c) For discharges where the source of supply is other than mains water:

i) give the abstraction licence number.

N/A

ii) give the National Grid Reference of a point where the influent can be sampled.

□ □ / □ □ □ □ / □

□ □

(please mark on the plan)

5. a) Will any self monitoring take place?

Y/N

If yes, please give details.

IN HOUSE MONITORING OF BOTH THE QUALITY AND QUANTITY OF THE DISCHARGE WILL BE UNDERTAKEN. THE SYSTEM WILL ALSO INCORPORATE A TURBIDITY METERING ARRANGEMENT.

- b) Will automatic sampling equipment be provided?

Y/N

If yes, please give details of type, frequency and location (please indicate on plan).

6. a) Please state the maximum temperature in degrees Celsius of the effluent when discharged if different from ambient.

- b) Will the discharge be monitored for temperature?

Y/N

If yes, please give details of type and location (please indicate on plan).

7. Has an application for Authorisation been made for a 'prescribed process' as defined in Part 1 of the Environmental Protection Act 1990?

Y/N

If yes, please complete the following:

- a) The application reference.

N/A.

- c) Contact name of case officer.



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ANNEXE 4

WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

Official Use Only
Application No.

For all proposed discharges:

1. Site Name.

PENDERYN QUARRY, PENDERYN, NR. ABERDARE.

2. Is this application being made to reinstate a lapsed Consent?

☒ N

If so, please state the Number of the lapsed Consent:

IMPORTANT: If you are in need of advice on either part of question 2, please contact the Agency Regional Consents Section on 01222 770088.

3. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 in the main application form), please state the diameter (including units):

PROBABLY 300 mm ϕ

4. Please indicate the anticipated cost of the proposed scheme, including any alternatives which may have been considered:

CIRCA £150,000

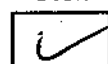
5. Is there any trade effluent component in the proposed discharge?

QUARRY SURFACE WATER RUN-OFF

☒ Y

If yes, please confirm here that you have completed and enclosed Annexe 3:

Tick



6. Will the proposed discharge be pumped or made under gravity? (please circle):

BOTH

Pumped / Gravity

If pumped, please state the maximum pump rate in l/sec:

50 l/s

For proposed discharges of sewage in storm or emergency conditions:

7. Please confirm here that you have completed and enclosed both Annexes 1 and 2:

Tick

☐

8. Please state:

Population served (head)	_____
Consumption (l/head/day) default = 180	_____
Infiltration (m ³ /day)	_____
Industrial effluent flow (m ³ /day)	_____
Dry Weather Flow (m ³ /day)	_____
SOCA (l/sec)	_____
Predicted spill frequency (per annum)	_____

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

1. Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (e.g. a public limited company ('plc'), limited company, local authority), the 'body corporate' will be the registered consent holder, and the person with the delegated authority to sign on behalf of the 'body corporate' should give their job title.
2. Agents making an application on behalf of a client, must attach their clients written authority.
3. If the name and/or address of the applicant changes after submission of this application to the Environment Agency, the applicant must inform the Agency in writing.

8. a) Please indicate if any of the specified substances given below or their compounds will be present in the effluent and if so at what maximum concentration (please give values in micrograms per litre - ug/l). Please see note c.

SUBSTANCE	CONCENTRATION (ug/l)			SUBSTANCE	CONCENTRATION (ug/l)		
	Max	Min	Mean		Max	Min	Mean
Iron				Lead			
Arsenic				Malathion			
Atrazine				Mercury			
Azinphos-ethyl				Nickel			
Azinphos-methyl				PCB's			
Boron				PCSD's			
Cadmium				Parathion			
Carbon tetrachloride				Parathion-methyl			
Chloroform				Pentachlorophenol (PCP)			
Chromium				Perchloroethylene			
Copper				Permethrin			
Cyanide				pH < 5.5 or > 9.0			
Cyfluthrin				Phosphorus			
DDT				Polychlorinated biphenyls			
1,2 Dichloroethane				Simazine			
Dichlorvos				Sulcofuron			
Dioxins				Tetrachloroethylene			
Drins (eg. Aldrin, Dieldrin)				Tributyltin compounds			
Endosulfan				Trichlorobenzene			
Fenitrothion				Trichloroethane			
Fenthion				Trichloroethylene			
Fluocofuron				Trifluralin			
Hexachlorobenzene (HCB)				Triphenyltin compounds			
Hexachlorobutadiene (HCBd)				Vanadium			
Hexachlorocyclohexanes (HCH's)				Zinc			

- b) Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives? Y/N

If yes, please give details.

Notes (see also the notes attached to the main form):

- a) For direct trade effluent discharges, full details of the type of the effluent are required (eg. cooling water from air conditioning units), along with typical analytical details and the results of any toxicity studies on the effluent or its constituents. In certain circumstances the Agency may require that specific samples be taken and tests and analysis carried out. The Agency is empowered to recover any costs incurred as a result of special studies.*
- b) Possible sources of contamination include oil/chemical storage areas, vehicle loading/unloading areas, heavy vehicle parking areas and oil/petrol filling points. Any other potential sources of contamination should be detailed.*
- c) Where discharges of trade effluent take place to a sewerage system, as covered by this application, please give details of all authorised discharges of substances listed in table 8 overleaf.*

2.5 a) Type of Treatment Plant(s) to be used (please specify make and model) - tick as appropriate:-

Septic Tank ☐

Package Sewage Treatment Works ☐

Other



Continuous flow settlement lagoon with bypass facility

b) Will the treatment process involve the use of any chemicals (eg ferric salts, polyelectrolytes) ☐ Y/N
If yes please give details.

Not intended at outset, however consideration will be given to the use of flocculents if deemed necessary to meet the conditions of the discharge consent.

2.6 a) On what date do you anticipate the discharge will commence?

/ /

As soon as possible and within the coming 6 months

b) If you require the consent for a limited time period please give dates; from:

/ /

to:

/ /

c) If the discharge is not continuous please detail the period/circumstances when it will occur.

N/A

2.7 a) Are there any existing consents for discharge from the premises (see note vi)? ☐ Y/N

If yes, please give the reference numbers (Any further information should be given in section 5.3).

AN0238501

b) Has any person had a Prohibition Notice served on them in respect of this site? ☐ Y/N

If yes, please give the reference number.

3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

BRECON BEACONS NATIONAL PARK AUTHORITY.

3.2 Please give details of the premises - tick as appropriate:-

1. Single Dwelling ☐

6. Fish Farm ☐

2. Multiple Dwellings ☐

7. Mineral Workings ☒

3. Industrial Premises ☐

8. Water Services plc STW ☐

4. Vehicle Parking Area ☐

9. Water Supply ☐

5. Commercial Premises (please specify) ☐

10. Other (please specify) ☐

DECLARATION

I/We:

1. apply under the Water Resources Act 1991 (as amended by the Environment Act 1995) for consent to discharge, as described in this Application. "This Application" means this page, all the other pages of this form and any attached annexes, the attached plan(s), any other sheets attached, and any other written information supplied to support the application.
2. enclose the required application fee, payable to the Environment Agency (see note x).
3. enclose 3 copies of the plan(s) and location maps with all relevant information clearly marked (see note xi).
4. will pay required advertising costs (see note xii).
5. confirm that I/we* will notify the Environment Agency of any changes in the information in this application which might be material to the continuation of the consent.
6. confirm that the information given in this application and any questions which the Environment Agency may have about it is/will* be true to the best of my/our* knowledge, information and belief and am/are* not aware of any other facts or information which might affect the granting of a consent, or conditions which might be put on it (see note xiii).
7. confirm that I/we* will pay any annual charges due should a consent be granted YES/NO*. If no please indicate who will by completing section 5.2 above (see note xiv).

(* Delete as appropriate)

SIGNED: *M. M. Frampton* PRINT NAME: M. M. FRAMPTON
SENIOR ESTATES SURVEYOR
ON BEHALF OF: ARC SOUTH WALES LIMITED DATED: 28.3.97

o o o

CONFIDENTIALITY

I/we apply for commercial confidentiality and enclose a full written justification (see note xv).

SIGNED: DATED:

PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE