

**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:

ENVIRONMENT AGENCY WALES
Llys Afon
Hawthorn Rise
Haverfordwest
Pembrokeshire SA61 2BQ

Official Use Only

Dist/Area Ref:

Application No. B0297601

Date Received: 06/03/02

Fee Received: £661

Each applicant must complete the main form and may need to complete a separate annex 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

1 SITE ADDRESS

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

BLAENCIL GOEJ QUARRY
LUSCHURCH
PEMBROKE SHIRE

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 annex 1) ☐

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

Cooling Water (complete annex 3) ☐

Trade Effluent (including site drainage) (complete annex 3) ☒

Others (please specify) ☒

DEWATERING QUARRY

2.2 Please state the maximum quantity it is proposed to discharge in any one day **5000 m³/day**
Briefly state how this figure was calculated (see note ii).

Estimation of likely inflow plus the necessity to remove standing water over a relatively short period.

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) ☐

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

SN / 1501 / 1050 (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)

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

SN / 1501 / 1050 (please indicate on accompanying plans)

c) What flow measurement facilities will be provided (see note v)?
Please give details.

ACCESS TO DISCHARGE PIPE

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 ☒

CATCH PIT, OIL INTERCEPTOR & SETTLING LAGOON

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

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

01/06/02

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

1. 1

to:

1. 1

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

INITIALLY CONTINUOUS WHILE QUARRY DEWATERED &
DURING PERIODS OF HEAVY RAINFALL OTHERWISE
BETWEEN 06.00 & 20.00

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).

BP029220101

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.

PEMBROKE SHIRE COUNTY COUNCIL

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) ☐

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

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Well | ☐ | 5. River (please give name below) | ☐ |
| 2. Borehole | ☐ | 6. Estuary (please give name below) | ☐ |
| 3. Precipitation (eg. rain or snow) | ☒ | 7. Coastal Water (please give name below) | ☐ |
| 4. Mains (please state water supply company) | ☐ | | |

PRECIPITATION &
GROUNDWATER

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) | ☐ | 5. Into Land | ☐ |
| 2. River or Stream (non-tidal) | ☒ | 6. Onto Land | ☐ |
| 3. Canal | ☐ | 7. Directly into Groundwater | ☐ |
| 4. Lake, Loch or Pond | ☐ | 8. Coastal Water (see note vii) | ☐ |

State name of receiving water if known:-

NOT 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?

Y/N

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

Y/N

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

Y/N

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

m

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

m

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

(i) Depth of lining

m

(ii) Depth of perforated lining

m

(iii) Depth of unperforated lining

m

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

Have the results been provided?

Y/N

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)?
If yes, please give the reasons it is not practical to connect to it (eg. distance, flow etc.).

Y/N

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.

* G D HARRIES & SONS LTD
* ROWLANDS VIEW
* NARBERTH
*
*

Post Code: SA67 8RG

Daytime Telephone Number: 01834 860 464

Company Registration Number (if appropriate): 4179343

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

* MATTHEWS & SON
* 112 EDGESTON ROAD
* CREWE
*
*

Post Code: CW2 7HD

Contact Name and Daytime Telephone Number: PAUL JERKIN 01270 501 320

5.2

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

*
*
* S/A 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.

SHOULD A DISCHARGE LICENCE BE FORTHCOMING
THEN THE EXISTING DISCHARGE LICENCE WILL BE
SUPERFLUOUS & WILL BE SURRENDERED

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: 	PRINT NAME: P. LEAKIN
ON BEHALF OF: G. SHARLES LON LTD	DATED: 14-02-02

CONFIDENTIALITY

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

SIGNED: _____	DATED: _____
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ANNEXE 3
TRADE EFFLUENT DISCHARGES

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

Site Name

Official Use Only
Application No.

BLDENMILGOTT QUARRY

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

GROUNDWATER & RUNOFF FROM QUARRY

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

CATCHPIT, FULL RETENTION OIL INTERCEPTOR & SETTLING LAGOON

Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent?

☒ YES

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

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

MINERAL WORKING & MOVEMENT OF PLANT & VEHICLES

Rainfall Independent Discharges

a) What is the maximum rate of discharge?

60 l/s

b) What is the average daily flow?

1500 m³/d

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

i) Give the abstraction licence number.

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

c) Contact name of case officer.

a) The application reference.

If yes, please complete the following:

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

☒ N/A

No

b) Will the discharge be monitored for temperature? If yes, please give details of type and location (please indicate on plan).

☒ N/A

AIR TEMPERATURE

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

No

b) Will automatic sampling equipment be provided? If yes, please give details of type, frequency and location (please indicate on plan).

☒ N/A

DAILY VISUAL INSPECTION

a) Will any self monitoring take place? If yes, please give details.

☒ Y/N

No

If yes, please give details.

Y/N

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

SUBSTANCE	CONCENTRATION (ug/l)			SUBSTANCE	CONCENTRATION (ug/l)		
	Max	Min	Mean		Max	Min	Mean
Iron				Lead			
Arsenic				Malathion			
Altrazine				Mercury			
Azinphos-ethyl				Nickel			
Azinphos-methyl				PCB's			
Boron				PCSD's			
Cadmium				Purabion			
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				Sulfuron			
Dioxins				Tetrachloroethylene			
Drins (eg. Aldrin, Dieldrin)				Tributyltin compounds			
Endosulfan				Trichlorobenzene			
Fenitrothion				Trichloroethylene			
Fenitron				Trifluralin			
Fluorofuron				Triphenyltin compounds			
Hexachlorobenzene (HCB)				Vanadium			
Hexachlorobutadiene (HCBD)				Zinc			
Hexachlorocyclohexanes (HCH's)							

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.



ANNEX 4
WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annex for every proposed discharge.

Official Use Only
Application No.

For all proposed discharges:

1. Site Name.

BLAENCIL GOED Quarry

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):

200 mm (8 in)

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

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

☒ N

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

☒ Tick





ASIANTAETH YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

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

Pumped / Gravity

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

60 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)	_____

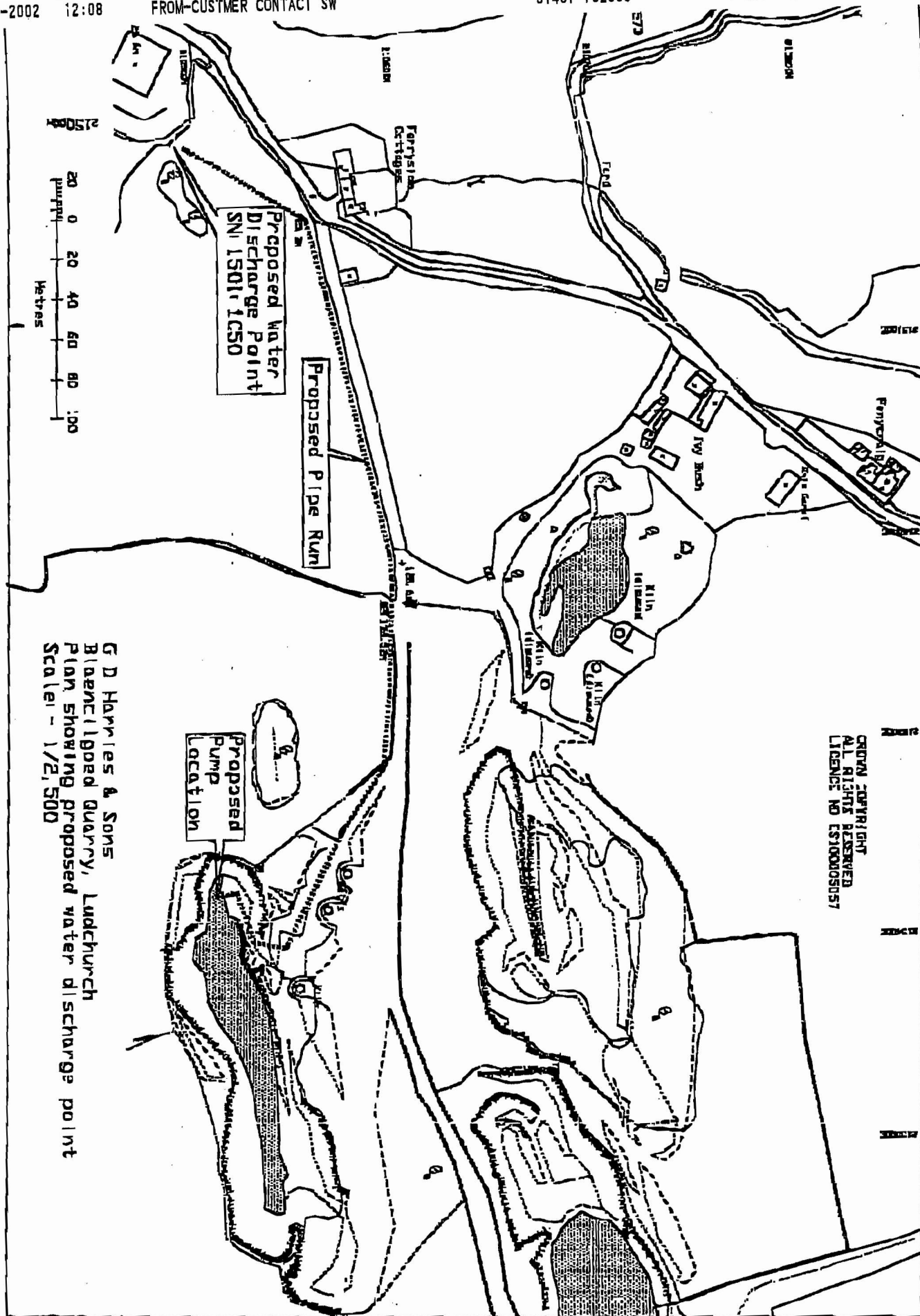
IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

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.

Matthews and Son
G D Hames and Sons
Blaencilloed Quarry, Ludchurch, Pembrokeshire
Application for Water Discharge Licence
LOCATION PLAN



CROWN COPYRIGHT
 ALL RIGHTS RESERVED
 LICENCE NO. E510005057



CONSENT NO.	BP0297601
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ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 – SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

CONSENT TO DISCHARGE

TO: Managing Director
G D Harries & Sons Limited
Rowlands View
Narberth
Pembrokeshire
SA67 8RG

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:

Settled Site Drainage and Groundwater

FROM: BLAENCILGOED QUARRY DISCHARGE 2

AT: LUDCHURCH, PEMBROKESHIRE

TO: ABBEY STREAM

SUBJECT TO the conditions set out in the following schedule(s):

Settled Site Drainage and Groundwater

Schedule No. BP0297601 01

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 30th day of April 2004.

Signed Ged Davies

Ged Davies – Environment Management Team Leader



CONSENT NO.	BP0297601
SCHEDULE NO.	BP0297601 01
DATE ISSUED	April, 2004



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

CONDITIONS OF CONSENT TO DISCHARGE

Settled Site Drainage and Groundwater ("the Discharge")

**FROM: BLAENCILGOED QUARRY DISCHARGE 2, LUDCHURCH,
PEMBROKESHIRE**

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 these conditions.

NATURE

2. The Discharge shall consist solely of trade effluent comprising of site drainage arising from an area totalling 2 hectares and groundwater intercepted by excavation activities.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 200 millimetre diameter pipe;
 - (b) discharging to Abbey Stream;
 - (c) at National Grid Reference SN 15009 10495;
 - (d) shown marked 'Consent Point' on Plan BP0297601 attached as Annex 1.

SAMPLE POINT

4. The outlet to controlled waters shall be constructed and maintained so that a representative sample of the Discharge may be obtained at National Grid Reference SN 15009 10495, as shown marked 'Consent Point' on Plan BP0297601.

VOLUME

5. The volume of the Discharge shall not exceed 5,000 cubic metres per day.
6. The rate of discharge shall not exceed 60 litres per second.



CONSENT NO.	BP0297601
SCHEDULE NO.	BP0297601 01



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

COMPOSITION

7. The Discharge shall not contain:
 - (a) more than 25 milligrammes per litre of suspended solids (measured after drying at 105°C);
 - (b) any visible oil or grease.
8. The Discharge shall not have a pH value less than 6.0 nor greater than 9.0 pH Units.
9. As far as is reasonably practicable, the treatment system shall be operated so as to prevent:
 - (a) any matter being present in the Discharge, other than matter specifically covered by numerical conditions in this consent, 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
 - (b) the Discharge from having any other adverse environmental impact.

MAINTENANCE

10. The treatment system shall be operated and maintained in accordance with good operational practice such that:
 - (a) it remains fully operational except at times of unavoidable mechanical or electrical breakdown which shall be attended to, and the Agency informed of the failure, as soon as practicable after the failure;
 - (b) following a failure all equipment shall be returned to normal operation as soon as practicable;
 - (c) the separator and settlement lagoon(s) shall be desludged at sufficient frequency and in such a manner to prevent excessive carryover of suspended solids or significant reduction in separator holding capacity.
 - (d) the separator shall be de-oiled at sufficient frequency and in such a manner to prevent excessive carryover of oil.



CONSENT NO.	BP0297601
SCHEDULE NO.	BP0297601 01



**ASiantaeth yr
Amgylchedd Cymru
Environment
Agency Wales**

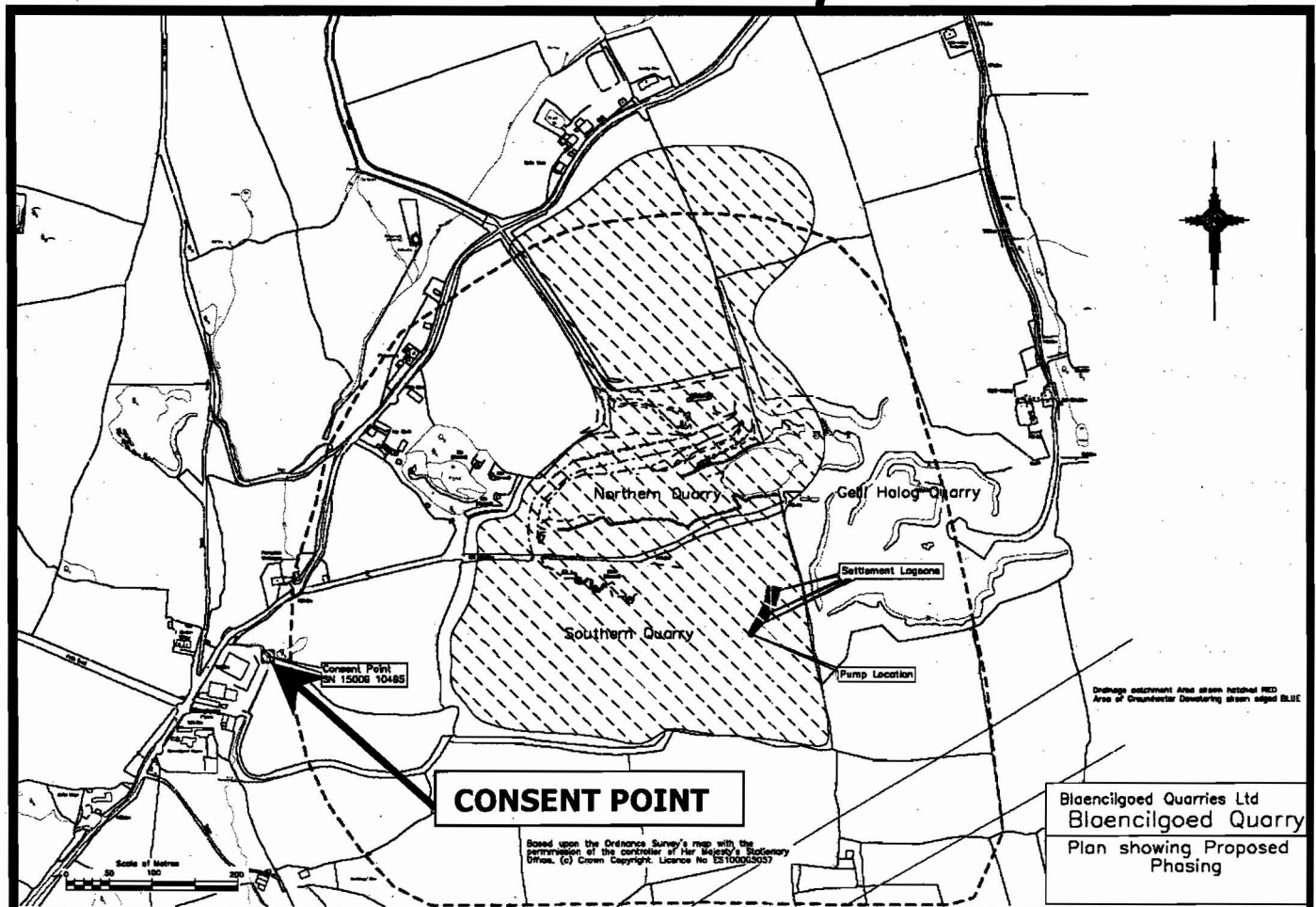
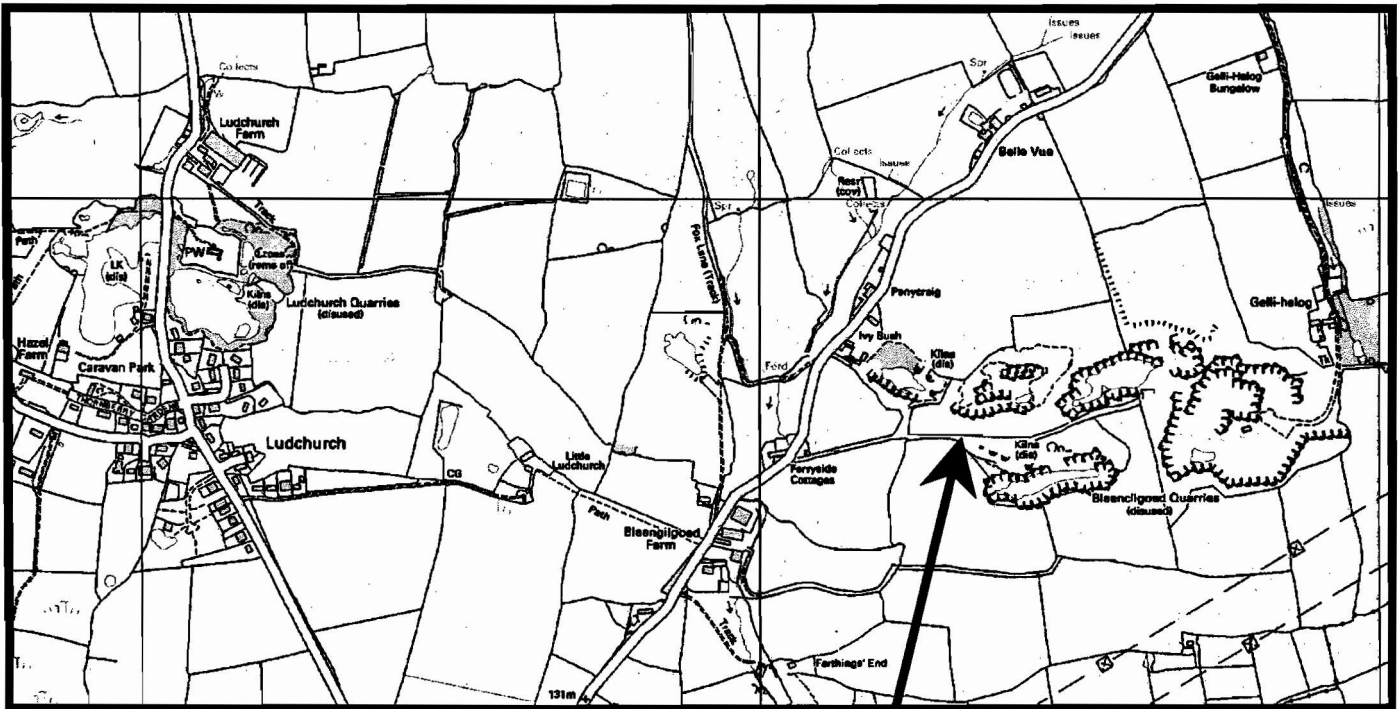
RECORDING AND REPORTING

11. (a) The Consent Holder shall establish and operate documented maintenance programme and record all non-routine actions undertaken that may have adversely affected the operation of the treatment system or effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- (b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected the operation of the treatment system or effluent quality.



ANNEX 1 – BP0297601

BLAENCILGOED QUARRY DISCHARGE 2, LUDCHURCH, PEMBS



Ein cyf/Our ref. 2/CS/LL/BP0297601
Eich cyf/Your ref.



**ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES**

Dyddiad/Date: 4 May 2004

Mr Paul Deakin
Mathews & Son
Radway Green Business Centre
Crewe
Cheshire
CW2 5PR

Dear Mr Deakin

**RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR CONSENT TO DISCHARGE TRADE EFFLUENT AT BLAENCILGOED QUARRY BY G D HARRIES & SONS LTD.
APPLICATION NO: BP0297601**

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 Blaencilgoed 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 National Assembly for Wales at Cathays Park, Cardiff CF10 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.

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 01792 325500, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 01792 325500, Fax: 01792 325511



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.

If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Ged Davies, Team Leader Environment Management, Environment Agency Wales, Llys Afon, Hawthorne Rise, Haverforwest, SA61 2BQ.

Yours sincerely



GARETH DAVIES
Customer Contact & Authorisation Officer

Enc.

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 01792 325500, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 01792 325500, Fax: 01792 325511

RECEIVED

22 APR 2004

MATTHEWS & SON

Chartered Surveyors

Incorporating

SMITH VINCENT

Chartered Mineral Surveyors

Radway Green Business Centre,
Crewe, Cheshire
CW2 5PR

Tel: 01270 886350

Fax: 01270 886213

T West Esq
Environment Agency Wales
Llys Afon
Hawthorn Rise
Haverfordwest
Pembrokeshire
SA61 2BQ

Our ref: 1838

Your ref:

20 April 2004

Dear Mr West

Discharge Licence Application - Blaencilgoed Quarry, Ludchurch

Further to our recent telephone conversation I confirm that my client is prepared to extend the period for a decision on the above application to Friday 30 April 2004. I enclose a disc with Plan No BP0297601 in PDF form on it. Can you confirm that this is adequate for your requirements.

Should you wish to discuss this matter please do not hesitate in contacting me.

Yours sincerely



P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr ITP Harries

And at:
91 Gower Street,
London,
WC1E 6AB

Partners

M. J. Davies, FRICS
E. M. Sheard, MA, FRICS, MRTPI
D. Thaddeus, FRICS
S. J. Meaney, BSc, FRICS
P. R. Deakin, FRICS, CEng, MIMMM,
FIQ, FRPS

Consultants

Eur Ing P. A. Vincent, FRICS, CEng,
MIMMM, ACI Arb, FIQ

Associate

T. J. Powell-Harper, MRICS

MATTHEWS & SON

Chartered Surveyors

Incorporating

SMITH VINCENT

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T West Esq
Environment Agency Wales
Llys Afon
Hawthorn Rise
Haverfordwest
Pembrokeshire
SA61 2BQ



Our ref: 1838

Your ref:

23 February 2004

Dear Mr West

Discharge Licence Application - Blaencilgoed Quarry, Ludchurch

Further to our recent telephone conversation I confirm that the proposals are to discharge the water from the quarry at a fairly constant rate rather than short periods of high volume followed by periods of no discharge. This can be achieved by either pumping continuously or pumping to a balancing pond within a restricted outlet/outfall. The use of a balancing pond solution would require relatively large pond and at the present time there is no suitable location for sufficiently large balancing.

The preferred solution is to install a pump with the appropriate capacity so that there would be a continuous flow. Once the water is down to a desired level the pump would deal with the make of water and the only variations in flow would be the fluctuations groundwater flow and runoff. During periods on high rainfall however the water flowing to the pump is likely to be in excess of the pump's capacity and the water level in the quarry would temporarily rise.

We have had a hydrogeological study carried out at the site and it is estimated that the water flow for deepening the quarry to 110 metre above Ordnance Datum will be somewhere between 760 and 7600m³/day depending on the hydraulic conductivity of the limestone. The constant values of 0.5 and 5 used in arriving at the above figure are based of the extreme figures determined in a study on carboniferous limestone in the Vale of Glamorgan.

The mean value of 4180m³/day is considered to a fair estimate of the likely flow. The water discharge licence application is for a maximum of 5000m³/day which is still considered to be

And at:
91 Gower Street,
London,
WC1E 6AB

Partners
M. J. Davies, FRICS
E. M. Sheard, MA, FRICS, MRTPI
D. Thaddeus, FRICS
S. J. Meaney, BSc, FRICS
P. R. Deakin, FRICS, CEng, MIMMM,
FIQ, FRPS

Consultants
Eur Ing P. A. Vincent, FRICS, CEng,
MIMMM, ACI Arb, FIQ
Associate
T. J. Powell-Harper, MRICS

the appropriate figure. The maximum discharge rate would be 60l/s which equates to 5184m³/day

I hope the above is self explanatory but should you require clarification or wish to discuss this matter please do not hesitate in contacting me. If you consider it would be helpful to have a meeting to discuss the proposals please let me know.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Paul Deakin', with a stylized, cursive script.

P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr ITP Harries

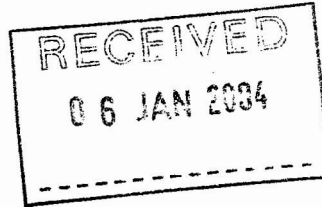
MATTHEWS & SON

Chartered Surveyors
Incorporating
SMITH VINCENT
Chartered Mineral Surveyors

Radway Green Business Centre,
Crewe, Cheshire
CW2 5PR

Tel: 01270 886350
Fax: 01270 886213

T West Esq
Environment Agency Wales
Llys Afon
Hawthorn Rise
Haverfordwest
Pembrokeshire
SA61 2BQ



Our ref: 1838

Your ref:

2 January 2004

Dear Mr West

Discharge Licence Application - Blaencilgoed Quarry, Ludchurch

Further to our recent telephone conversation I confirm that my client wishes to discharge water from the Blaencilgoed Quarry to allow the quarry to be deepened. To this end we made an application for a water discharge licence in February 2002. We have had various discussions with the Environment Agent since then but the application has still not been processed.

The proposed discharge point is at NGR SN1501/1050 and this point was selected because it is relatively close to the quarry and is on land where the applicant has an agreement with the landowner. We were informed that this point of discharge was inappropriate as the stream was considered to have insufficient flow and we were requested to modify the application with the discharge point being adjacent to that of discharge licence number BP0105601 *ie* NGR SN/1595/0980. We accordingly submitted a modification to the application in July 2002 but have received no further correspondence on the matter although it has been the subject of several telephone conversations.

My client would prefer to discharge to NGR SN1501/1050 if possible or somewhere else along this stream if possible. The other discharge point is however acceptable to my client if this is considered to be more suitable to the EA.

It would be appreciated if you could process this application as a matter of urgency.

My client has had four boreholes drilled in the vicinity of the quarry and these were fitted with piezometers. Water level monitoring has now been undertaken for the last eighteen months and this information will be used in an hydrological assessment which has been commissioned.

And at:
91 Gower Street,
London,
WC1E 6AB

Partners
M. J. Davies, FRICS
E. M. Sheard, MA, FRICS, MRTPI
D. Thaddeus, FRICS
S. J. Meaney, BSc, FRICS
P. R. Deakin, FRICS, CEng, MIMMM,
FIQ, FRPS

Consultants
Eur Ing P. A. Vincent, FRICS, CEng,
MIMMM, ACI Arb, FIQ
Associate
T. J. Powell-Harper, MRICS

MATTHEWS & SON

020-7387 8511

I hope the above is self explanatory but should you require clarification or wish to discuss this matter please do not hesitate in contacting me. If you consider it would be helpful to have a meeting to discuss the proposals please let me know.

Yours sincerely

A handwritten signature in black ink, appearing to read 'P R Deakin', written in a cursive style.

P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

MATTHEWS & SON

Chartered Surveyors

Incorporating

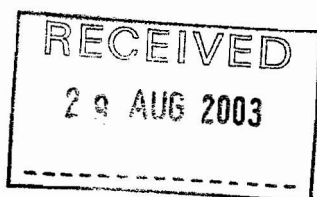
SMITH VINCENT

Chartered Mineral Surveyors

112 Edleston Road,
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CW2 7HD

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Fax: 01270 509253



Our ref: 1838

Your ref:

T West Esq
Environment Agency Wales
Llys Afon
Hawthorn Rise
Haverfordwest
Pembrokeshire
SA61 2BQ

27 August 2003

Dear Mr West

Discharge Licence Application - Blaencilgoed Quarry, Ludchurch

I thank you for your recent email and comment as follows. The applicant wishes to discharge water off site so as to ensure the quarry can be kept dry all year round. To this end an application for a discharge licence was made proposing a discharge point at NGR SN1501/1050. This point had been selected as the stream lies relatively close to the quarry and is on land where the applicant has an agreement with the landowner. We were informed that this point of discharge was inappropriate as the stream was considered to have insufficient flow and we were requested to modify the application with the discharge point being adjacent to that of discharge licence number BP0105601 *ie* NGR SN/1595/0980. This seemed peculiar to us as the receiving stream at this point appeared to be smaller than the one initially proposed. The two streams join together a little over 2 kilometres to the south of the second discharge point.

Our preferred discharge point is NGR SN1501/1050 *ie* the initial application position. Another point downstream of but within 300 metres of this position would also be acceptable to the applicant if this is more acceptable to the Agency.

Our second choice of discharge point is NGR SN/1595/0980 *ie* the subsequent alteration to the application. The attached plan shows the positions of the both proposed discharge points.

And at:
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London,
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Yours sincerely

A handwritten signature in black ink, appearing to read 'Paul Deakin', written in a cursive style.

P R Deakin

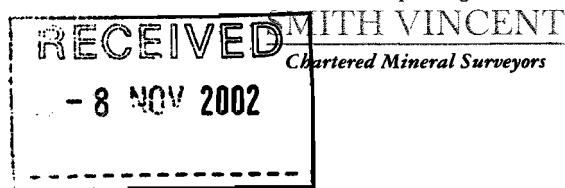
e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr I T P Harries

MATTHEWS & SON

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112 Edleston Road,
Crewe, Cheshire
CW2 7HD

Tel: 01270 501320
Fax: 01270 509253

K Bennett Esq
Environment Agency Wales
Glan Tawe
154 St Helens Road
Swansea
SA1 4DF

Our ref: 1838

Your ref:

6 November 2002

Dear Mr Bennett

Blaencilgoed Quarry

Further to our recent telephone conversation I confirm my understanding with regard to the water discharge licence is:- the receiving streams are not considered large enough to take an additional 60 litres/second and as long as RMC have a licence then there will be no further licence/s granted. If RMC are under utilising their facility then any excess capacity could be licensed to G D Harries and Sons. We are in discussions with RMC at the present time to see if it is possible to use their licence but unfortunately they are happy for us to pump their quarry dry but do not want Blaencilgoed water pumped into Gelli Halog. If we entered into a some formal agreement with RMC then it is possible they would relax their position on this but this does not solve Blaencilgoed's problem in the short term.

Our licence application used the figure of 60 litres/second because this figure had proved adequate at Gelli Halog when pumped in isolation and so should, therefore, prove adequate for Blaencilgoed pumped in isolation. Should a licence be forthcoming then once the quarries are dry the total pumping requirement is likely not to greatly exceed that for keeping either quarry dry. The scenario of two licences discharging at 60l/s is considered unlikely but under the terms of the proposed licences possible.

RMC have now recommenced pumping at Gelli Halog and have removed most of the standing water but we understand they have no immediate plans to recommence quarrying.

At present quarrying is taking place in the northern quarry of the Blaencilgoed complex and the water from this area is being pumped into the pond in the southern quarry via the lagoons. During the recent wet weather the level of the southern pond has risen and is giving rise for concern. During wet weather surface water flows into the northern quarry on the Gelli Halog

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land and this formerly flowed to Gelli Halog but now flows into Blaencilgoed. This intermittent stream is main source of surface water and is exacerbating the situation. The pond in the northern quarry spans the land ownership boundary.

Earlier in the year a local farmer said that during the previous periods of working all the water was disposed of to soakaways and pointed out the location of these which are shown on the attached plan. Percolation tests were carried out on these, initially using a 600 gallon bowser over a period of three hours. These tests indicated that the soakaway could take more water than could be delivered by a single bowser. Subsequently a further percolation test was undertaken using a six-inch pump for ten 10 minute periods over twenty four hours. Again the soakaways accepted the water without backing up or overflowing. The soakaway option was not followed up at the time as I was concerned by the possibility of recirculation and considered it would be better to pursue the water discharge licence option.

Since then four water monitoring boreholes have been drilled and fitted with piezometers, their positions are shown on the attached plan. The water levels in the boreholes have been measured weekly since the beginning of July and the water level in boreholes Nos 2 and 3 proved to be lower than expected, a copy of the borehole logs showing geology and water levels is attached for your information. It will be seen that the water level in borehole No 2 varied between 116.9 and 120.3m AOD during the monitoring period. The water level of the pond in the southern quarry varies between about 129.9m and 131.5m AOD whereas the water level in the northern pond rises to about 137m AOD when no pumping is undertaken.

In the light of this information we have reassessed our options and are now of the opinion that pumping to a soakaway is unlikely lead to recirculation of the water in the short to medium term.

We are proposing, therefore, to pump the quarry water to the soakaway/s. The pump in the quarry will be sited so that it is pumping clean water and runoff will continue to flow through the lagoon system.

I hope the above is sufficient for your present purposes but should you require further information or wish to discuss this matter please do not hesitate in contacting me.

Yours sincerely

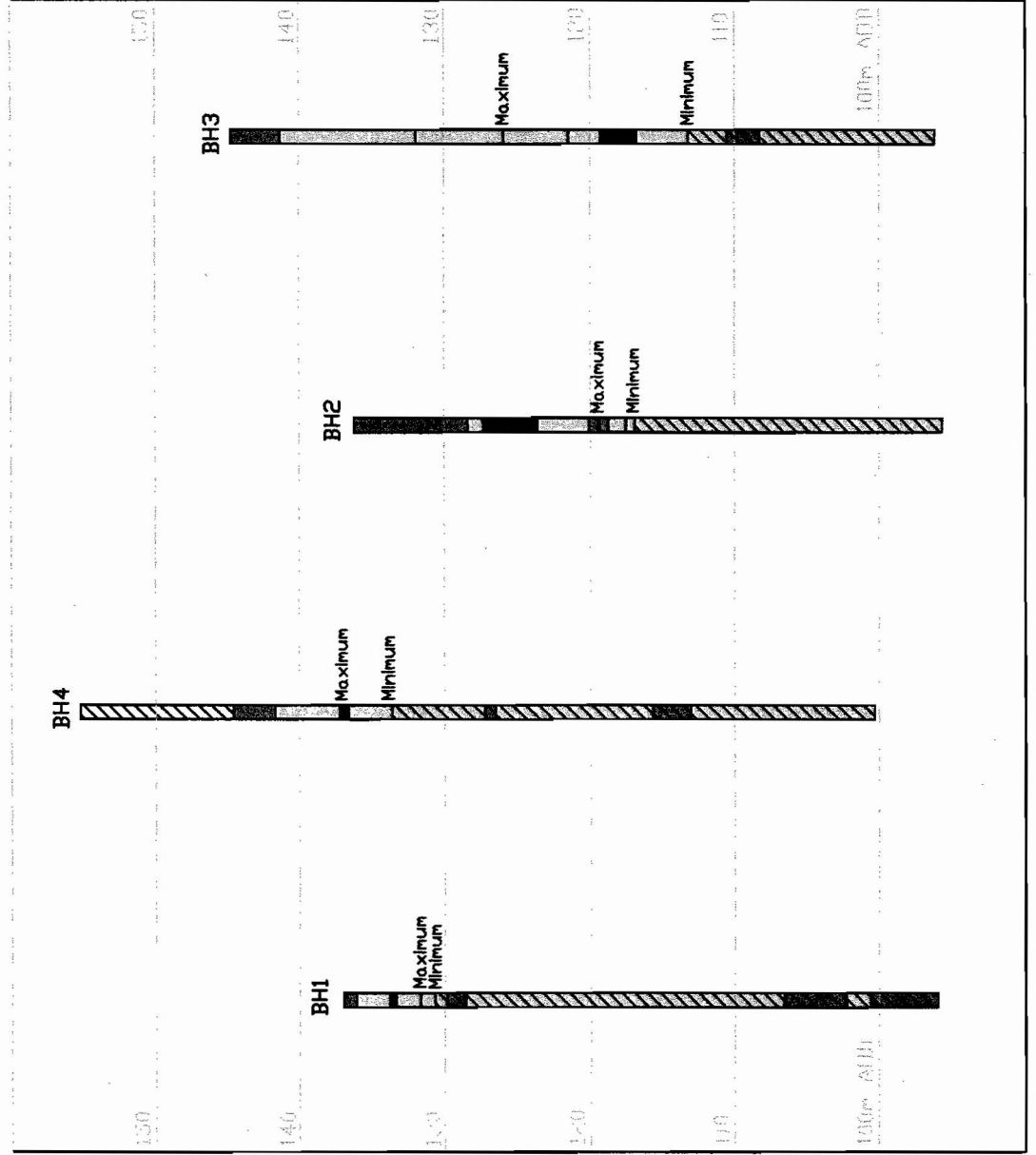
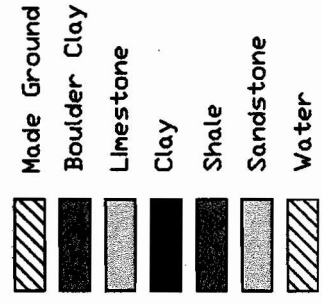


P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr I T P Harries

Blaencilloed Quarry Boreholes Scale:- 1/500



29 JUL 2002

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CW2 7HD

Tel: 01270 501320
Fax: 01270 509253

Our ref: 1838

Your ref:

K Bennett Esq
Environment Agency Wales
Glan Tawe
154 St Helens Road
Swansea
SA1 4DF

27 July 2002

Dear Mr Bennett

**G D Harries and Sons
Blaencilgoed Quarry
Application for Water Discharge Licence**

Further to your *e-mail* please accept this letter of confirmation that we wish to alter the discharge point for above water discharge licence application to NGR SN/1595/0980 and as show on the attached plan.

I hope the above is sufficient for your requirements but should you need further information or wish to discuss this matter please do not hesitate in contacting us.

Yours sincerely



P R Deakin
e-mail:- prd@matthewsandson.fsnet.co.uk

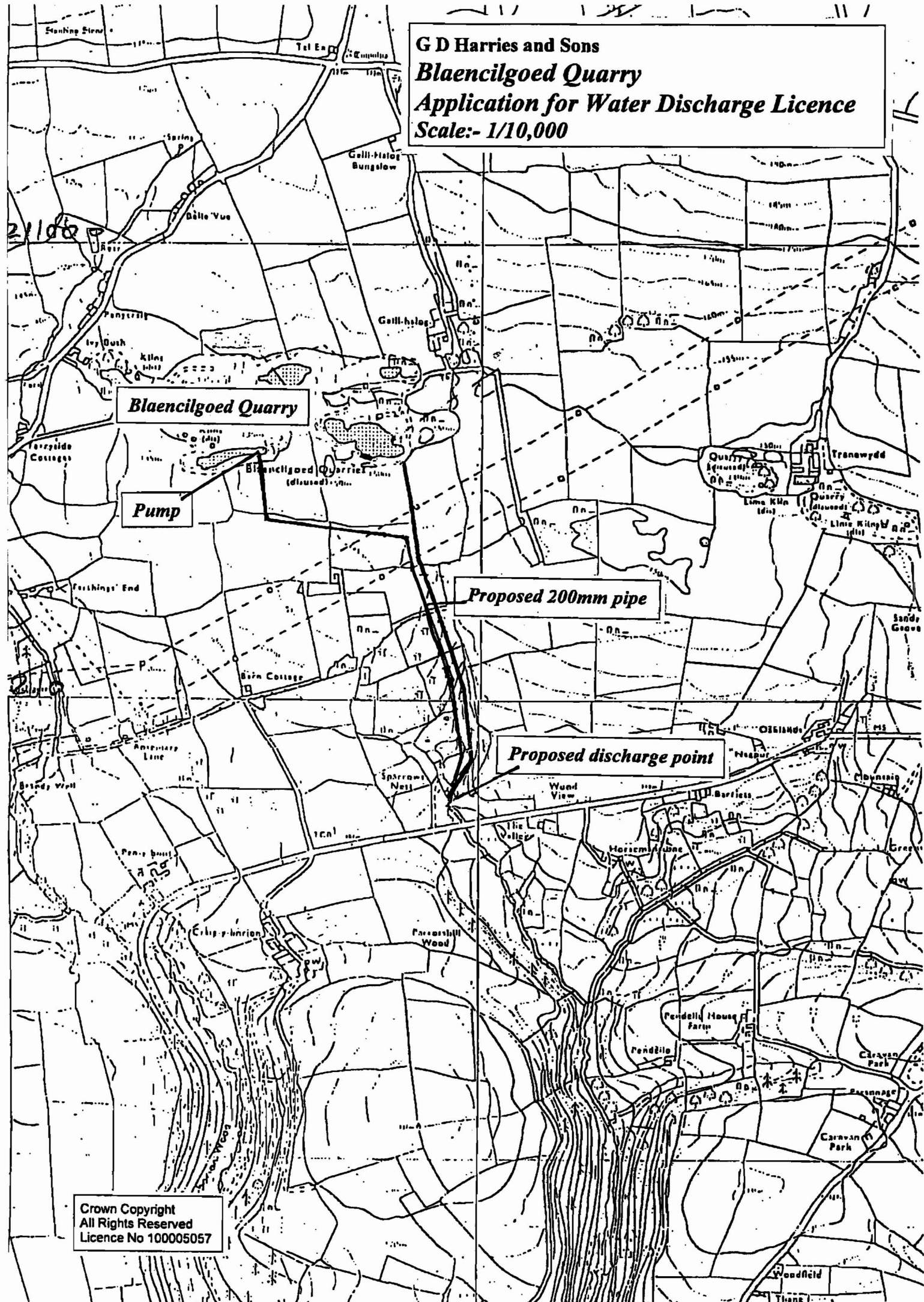
cc Mr I T P Harries

And at:
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G D Harries and Sons
Blaencilgoed Quarry
Application for Water Discharge Licence
Scale:- 1/10,000



13 JUN 2002

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Our ref: 1838

Your ref:

K Bennett Esq
Environment Agency Wales
Glan Tawe
154 St Helens Road
Swansea
SA1 4DF

10 June 2002

Dear Mr Bennett

Blaencilgoed Quarry Application for Water Discharge Licence

Further to your letter of 5 June the size of the water treatment lagoons will be a minimum of 250m² (more if there is sufficient room) with a minimum volume of 200m³.

I hope the above is sufficient for your requirements but should you need further information or wish to discuss this matter please do not hesitate in contacting us.

Yours sincerely



P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr I T P Harries

And at:
91 Gower Street,
London,
WC1E 6AB

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17 MAY 2002

112 Edleston Road,
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Fax: 01270 509253

Our ref:

Your ref:

1838

K Bennett Esq
Environment Agency Wales
Glan Tawe
154 St Helens Road
Swansea
SA1 4DF

15 May 2002

Dear Mr Bennett

Blaencilgoed Quarry Application for Water Discharge Licence

Further to our meeting on your letter of 24 April and our meeting on 9 May I comments as follows:-

- ♦ The Blaencilgoed Quarry contains three bodies of standing water which I understand fall into the category of controlled waters.
- ♦ Planning permission was granted for mineral working at the site in the late 1940's under the provisions of the Town and Country Planning Acts Interim Development Order (IDO).
- ♦ This consent imposes no restrictions on the depth of the mineral workings.
- ♦ This consent was reviewed, in common with all other IDO consents, under the provisions of the Planning and Compensation Act 1991.
- ♦ During the review of conditions the mineral planning authority attached a condition that requires no mineral extraction to take place below 126 metres above Ordnance Datum (AOD) until an hydrological study/assessment has been undertaken.

And at:
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- ♦ A series of boreholes are going to be drilled at the site in the near future and piezometers installed so that the hydrological regime can be determined and this will form part of the hydrological assessment.
- ♦ The water level in the southern pond (Fish Pond) fluctuates by about +/-0.5m with a mean level of about 129.5m AOD.
- ♦ The water level in the two northern ponds fluctuates more with the level reducing to as low as 129.8 m AOD whilst the adjacent quarry was pumped dry to a level of about 126 m AOD. The water level rebounded to a maximum of about 135.1 m AOD about six months after the cessation of pumping and during a period of high rainfall.
- ♦ The surface runoff from the quarry discharges into the Fish Pond at NGR: SN/15520:10550 via a series of lagoons and under the provisions of Consent No BP0292201.
- ♦ The proposal at the quarry are to work the limestone down to 126 m AOD whilst the hydrology of the site is determined and below this depth after a detailed assessment has been submitted.
- ♦ An application for a discharge licence has been submitted for discharging the quarry water into a nearby stream (Colby Brook or a tributary of it) at NGR: SN/15010:10500.
- ♦ The proposals are to initially place a pump into the Fish Pond in the position shown on the attached plan and the runoff water from the access road and pumped water from the quarry floor would pass through the catchpit, oil interceptor and lagoons before passing into the Fish Pond *ie* via the discharge point of Consent No BP0292201.
- ♦ We consider that this Consent No BP0292201 will need to be kept active and utilised in the interim period but eventually we consider this consent will become redundant and at that time it will be surrendered.
- ♦ It is proposed that as and when there is sufficient space on the quarry floor the lagoons will be enlarged to ensure the optimum amount of settlement is achieved.
- ♦ It is anticipated that the water level in the Fish Pond will be lowered and should this dry out then the pump will be placed in a watertight container into which the water from the lagoons will discharge. The water flowing into the lagoon system will consist partly of direct runoff and partly water pumped from the lowest part of the quarry. The proposed water flow is shown on the attached schematic diagram.
- ♦ The planning consent allows the ponds to be lowered to a level of 126 m AOD but an ecological survey this is being undertaken first to assess the ecological impact.
- ♦ As with all mineral workings the area extracted will gradually extend and the amount of runoff will increase accordingly. At present the area of quarry floor and access road

directly draining to the lagoons is less than 2,000m². The proposals are for this area to increase to about 20,000m² over the next year or so but this will be an indirect flow the majority will be pumped into the lagoons from the lowest point of the quarry.

- ♦ The proposals are to provide sufficient attenuation in the lagoon system to ensure the quality of the discharged water meets the EA's requirements. Initially the water will flow into catchpit which will remove the larger particles and this will be regularly emptied. From this water will flow through a full retention oil interceptor before discharging into the lagoons. The future layout of the quarry is currently uncertain as this will depend on the outcome of applications to remove the lime kilns and divert the footpath which crosses the site. Because of this we would like some flexibility in the siting of the lagoons. They would be sited either:- i) in the quarry between the oil interceptor and the pump or in the fields to the west of the quarry and between the pump and the discharge point.
- ♦ The size of the lagoons will be maintained at a maximum consistent with the space available within the quarry. The design of the lagoons will be based on the information provided by Chapter 6 of the NCB's Technical Management of Water in the Coal Mining Industry.
- ♦ The water discharge from the quarry will be via a pump. In the event of storm runoff being greater than can be accommodated by the lagoon system and the discharge requirements then the water will be stored on the quarry floor prior to being pumped into the lagoon system.

I hope the above is sufficient for your requirements but should you need further information or wish to discuss this matter please do not hesitate in contacting us.

Yours sincerely



P R Deakin

e-mail:- prd@matthewsandson.fsnet.co.uk

cc Mr I T P Harries

TO BE RETURNED TO THE
ENVIRONMENT AGENCY BY THE
NEW CONSENT HOLDER



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Please complete Parts A and B

Regarding Discharge Consent Number BP0297601 (essential information)

Part A Confirmation of New/~~Joint~~ Holders

Name BLAENCILGODD QUARRY LIMITED
(Please use Block Capitals)
Address ROWLANDS VIEW

COD BLOW, NARBERTH
Postcode SA67 8RG

Daytime Telephone Number 01834 860464
(NB: Please duplicate or continue on separate sheet if necessary for joint holders)

Date that you became responsible for above consent 01/07/04

Signature of New Holder I Harrell Date 28/06/04

Part B Confirmation of Bill Recipient

If the consent attracts an annual charge, who will be responsible for the bill?

Name BLAENCILGODD QUARRY LIMITED
(Please use Block Capitals)
Address ROWLANDS VIEW, COD BLOW
NARBERTH

Postcode SA67 8RG

Daytime Telephone Number 01834 860464
(NB: Please duplicate or continue on separate sheet if necessary for joint holders)

Date that you became responsible for above consent 01/07/04

Signature of New Holder I Harrell Date 28/06/04

Please return to the Register Officer at the following address.

The Environment Agency, Cambria House, 29 Newport Road, Cardiff, CF24 0TP
Tel: 02920 770088 Fax: 02920 362487



ASiantaeth yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

I'W DYCHWEL YD I ASiantaeth yr Amgylchedd gan Ddeiliad Newydd y Caniatâd

Llenwch rannau A a B

Yngl n a Chaniatâd Rhif _____ (gwybodeth hanfodol)

A Cadarnhad am y Deiliaid/Cyd Ddeiliaid Newydd

Enw _____
(Priflythrennau bras)
Cyfeiriad _____

Cod post _____

Rhif Teleffon Dydd _____
(DS: Gwnewch gopi o'r ddalen hon neu brarhau ar wahan os bydd angen ar gyfer Deiliaid ar y cyd)

Dyddiad y daethoch yn gyfrifol am y caniatad uchod ____/____/____

Llofnod y Deiliad Newydd _____ Dyddiad ____/____/____

B Cadarnhad am Dderbynnydd y Bil

Os oes tal blynnyddol am y canniatâd, pwy fydd gyfrifol am y bil?

Enw _____
(Priflythrennau bras)
Cyfeiriad _____

Cod post _____

Rhif Teleffon Dydd _____
(DS: Gwnewch gopi o'r ddalen hon neu brarhau ar wahan os bydd angen ar gyfer Deiliaid ar y cyd)

Dyddiad y daethoch yn gyfrifol am y caniatâd uchod ____/____/____

Llofnod y Deiliad Newydd _____ Dyddiad ____/____/____

Dychbhwelwch hon I'r Swyddog Registrar I'r cyfeiriad used
Asiantaeth yr Amgylchedd, Ty Cambria, 29 Newport Road, Caerdydd, CF24 0TP
Tel:02920 770088 Fax:02920 362487

BP0292201.

Could you make an occupation
change from 1/4/05 as they have
paid this years charges.

Blaencilgoed Quarry Limited

Rowlands View, Cold Blow, NARBERTH SA67 8RG
Tel 01834 860464 (Fax 01834 869156)

19 March 2004

Environment Agency Wales
27 Newport Road
CARDIFF
CF24 0TP

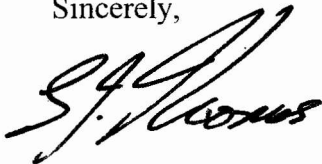
fao Sharn Flynn, Income Team Leader

Thank you for your letter of March 14 detailing the new arrangements for bill-paying by instalments, which we will wish to take advantage of as will be confirmed on receipt of the annual invoice.

Your letter has been passed to this office, and I would be grateful if your records could be amended to show our correct invoicing address as :

Blaencilgoed Quarry Limited
Rowlands View
Cold Blow
NARBERTH
SA67 8RG

Sincerely,



MS Martin Scourfield
(Accounts Manager)

Company Registration No: 04633303
Registered Office: Bank House, St James Street, Narberth SA67 7BX
Directors : I Harrie, J. Harries

CFD
Actioned
17/05/04
Sharn

enc: copy of your letter up for information.

Winn
Actioned
17/05/04
Sharn

22890
16/06/00