

Councillor C. Flood, T.D.,  
Minister of State,  
Department of Health,  
Baile Atha Cliath 2.

Our Ref.: 91A/0340

9th September, 1992.

Re: Proposed bungalow and waste water treatment system at  
Greenhills Road, for J. Harvey.

Dear Minister,

I refer to your recent representations in connection with the  
above planning application.

I now wish to inform you that the Planning Authority made a  
decision to grant approval on 7th September, 1992. (copy  
enclosed).

Yours faithfully,

  
\_\_\_\_\_  
for Principal Officer.

Councillor C. Flood, T.D.,  
Minister of State,  
Department of Health,  
Baile Atha Cliath 2.

Our Ref.: 91A/340

10 May 1991

RE: Proposed bungalow and waste water treatment system at  
Greenhills Road for J. Harvey.

Dear Minister,

I refer to your recent representations in connection with the  
above planning application.

I now wish to inform you that the Planning Authority requested  
additional information from the applicant on 9th May, 1991

Yours faithfully,

  
\_\_\_\_\_  
for Principal Officer.

91A/0340

CERTIFICATE NO: 24551

Bungalow + Waste Water Treatment System

PROPOSAL: Greenhills Road, Ballymount  
LOCATION: Jim Harvey  
APPLICANT: Jim Harvey

1	2	3	4	5	6	7
DRELLINGS/AREA LENGTH/STRUCT	RATE	AMT. OF FEE RES.	AMOUNT LOADED	BALANCE DUE	BALANCE DUE	DATE/ RECEIPT
Swallings	2532	32	32			
	2516					
	2500					
	2500					
	2500					
	2500					
	2500					
	2500					
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	2500					
	2500					
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	2500					
	2500					
	2500					

Page 1 Certified: Signed: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_  
Page 1 Endorsed: Signed: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_  
Pages 2,3,4,5,6 & 7 Certified: Signed: Rubb Grade: 5.0 Date: 19/3/91  
Pages 2,3,4,5,6 & 7 Endorsed: Signed: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_

Mr. A. Hinchy,  
Senior Executive Draughtsman/Technician

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RE: House at Greenhills Road, Ballymore

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REG. REF.: 89A/19

RE: LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) (FEES AND AMENDMENT)  
REGULATIONS, 1983 - ARTICLE 6.1.

A reduced fee (i.e.  $\frac{1}{2}$ ) has been paid in respect of the above application.  
Please confirm this is the correct fee under Article 6.1 of the Local  
Government (Planning and Development) (Fees and Amendment) Regulations, 1983.  
File Reg. Ref.: 91A/0340 on which a full fee was paid is attached.

  
Richard Whelan,  
Staff Officer,  
Registry Section.

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Mr. R. Whelan,  
Registry Section.

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A. Hinchy,  
Senior Executive Draughtsman/Technician

LOCATION GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1982

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG. REF.:

CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

AREA OF SITE:

FLOOR AREA OF PRESENT PROPOSAL:

MEASURED BY:

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT

MANAGER'S ORDERED NO: P/ /  
DATED

ENTERED IN CONTRIBUTIONS REGISTER:

DEVELOPMENT CONTROL ASSISTANT GRADE

P/4254/92

W 8370

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

<b>CONTRIBUTION:</b>	
Standard:	2375
Roads:	2800
S. Sers:	-
Open Space:	-
Other:	-
<b>SECURITY:</b>	
Band / C.I.F.:	-
Cash:	-

| SOUTH DUBLIN |

Register Reference : 91A/0340

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,  
Name and : 110 Baggot Lane,  
Address : Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Approval

Zoning :

Floor Area : sq.metres

(NP/BB)

Report of the Dublin Planning Officer dated 3 September 1992.

This is an application for APPROVAL for a bungalow and waste water treatment system at Greenhills Road, for Jim Harvey.

The application was lodged on 13th March, 1991, and Additional Information requested regarding sewage treatment and access arrangements. Time Extensions were subsequently requested on the application on 9th inst.

Reg. Ref. 89A/19 refers to a grant for outline permission for a house on the site as a result of a section 4 resolution of the council.

Reg. Ref. 91A/349 refers to a current application for approval for a site on the other side of the existing bungalow.

Roads Engineer report noted.

Sanitary Services report noted.

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0340

Page No: 0002

Location: Greenhills Road.

In the event of approval being granted for the proposed development the following conditions should be imposed.

*A/NO/M*  
I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963 - 1991, subject to the following (C) conditions :-

### CONDITIONS / REASONS

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 20th May 1992 *and 20/8/92* save as may be required by the other conditions attached hereto. *M*

REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That the proposed house be used as a single dwelling unit.

REASON: To prevent unauthorised development.

03 That the vehicular entrance to be *located* as shown on lodged plans on the New Greenhills Road until such time as a new line on the Greenhills Road has been provided which will allow for the removal of the substandard Ballymount Road/Greenhills Road junction. At that time the applicant to relocate his entrance onto Ballymount Road. *relocated 4/8/92*

03 REASON: In the interest of the proper planning and development of the area.

04 That the applicants Greenhills Road boundary to be set back to provide for improvements of existing junction of Ballymount Road/ Greenhills Road.

04 REASON: In the interest of the proper planning and development of the area.

*€ 200.00*  
05 That a financial contribution in the sum of ~~€ 375.00~~ be paid by the applicant to Dublin County Council towards the improvement of the road network in the area of the proposed development, and which will facilitate this development. This contribution to be paid prior to the commencement of development on site. *€ 200*

REASON: The provision of such services in the area by the Council will

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0340

Page No: 0003

Location: Greenhills Road.

facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.

- 06 That a financial contribution in the sum of £ <sup>1002</sup> ~~350.00~~ <sup>375.00</sup> be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which facilitate this development; this contribution to be paid before the commencement of development on the site.

REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.

- 07 That the following requirements of the Sanitary Services Engineer to be adhered to:-

- (i) The irrigation area being located closer to the boundary wall with Greenhills Road than is indicated on the drawing received in this office on 4th August, 1992.
- (ii) The applicant entering into an on-going maintenance contract with the manufacturer.
- (iii) A certificate of satisfactory completion being supplied before occupancy takes place.
- (iv) An acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which may be installed on the lands lying to the west in the future, such infrastructure to terminate in a manhole at the site boundary.

- 07 REASON: In the interest of the proper planning and development of the area.

- 08 Heating to be provided by the use of either oil, gas, electricity or by smokeless fuels in fireplaces or appliances suitable only for burning solid smokeless fuels.

REASON: In the interest of reducing air pollution.

09. That the garage be used solely for purposes incidental to the enjoyment of the dwelling house as such  
Reason: In the interest of the proper planning & development of the area



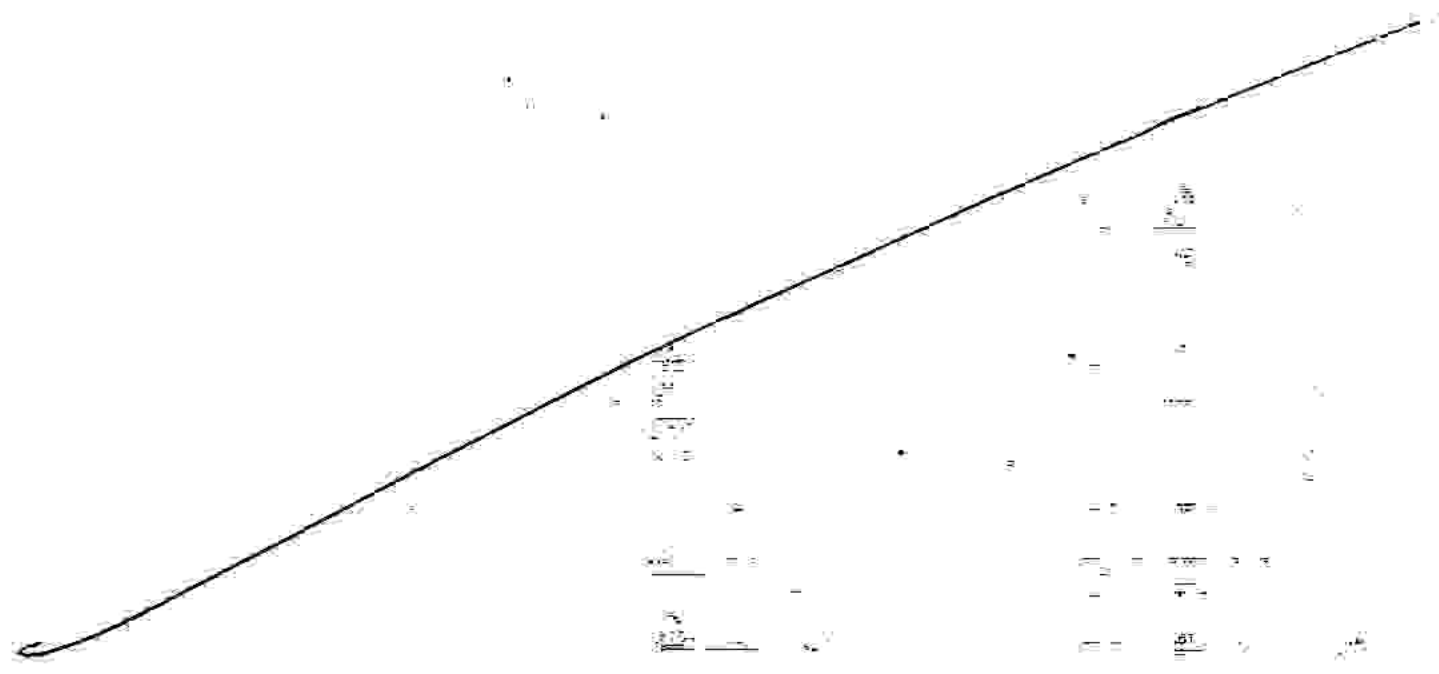
# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0340

Page No: 0004

Location: Greenhills Road.



*[Signature]*  
.....  
for Dublin Planning Officer

*[Signature]*  
Endorsed:- .....  
for Principal Officer

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1991 to GRANT PERMISSION for the above proposal subject to the (9) conditions set out above is hereby made.

Dated : 7 September, 1992.

*[Signature]*  
.....  
ASSISTANT COUNTY MANAGER/~~APPROVED OFFICER~~

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 7/9/92

SP + CMO

Register Reference : 91A/340

Date :

Development : Bungalow and waste water treatment system.

LOCATION : Greenhills Road.

Applicant : J. J. Harvey

App. Type :

Planning officer :

Date Recd. : 20-5-92

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL - 5 JUN 1992 SAN SERVICES	DUBLIN CO COUNCIL SANITARY SERVICES PRINCIPAL OFFICER 1 AUG 1992 Returned <i>JJ</i>
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Date received in sanitary service

FOUL SEWER

As for the report for 91A/349 dated 6/8/92 see  
for the comment no(i) regarding the relocation of the sub-surface irrigation area.  
(copy attached)

SURFACE WATER

French drains peak pits proposed - refer to B.B.L. Dept.

SENIOR ENGINEER,  
SANITARY SERVICES DEPARTMENT,  
45/49 UPPER O'CONNELL STREET,  
DUBLIN 1.

PLANNING DEPT.  
DEVELOPMENT CONTROL SECT  
Date ..... 12/08/92  
Time ..... 12.30

*J. J. Harvey*  
6/8/92

Register Reference : 91A/340

Date :

.....  
ENDORSED \_\_\_\_\_

DATE \_\_\_\_\_

WATER SUPPLY.....

*See previous report enclosed.*

*J. R. [Signature]*  
*9/6/92*

.....  
ENDORSED \_\_\_\_\_

*[Signature]*

DATE *6/8/92*

PLANNING DEPT.  
DEVELOPMENT CONTROL SECT  
Date ..... 12/08/92  
Time ..... 12:30

Register Reference : 91A/349

Date :

(B)

Development : Bungalow + waste water treatment system

LOCATION : Greenhills Road, D12

Applicant : J. Harvey

App. Type : A I

Planning officer :

Date Recd. :

PLANNING DEPT.  
 DEVELOPMENT CONTROL SECT  
 Date ..... 12.08.92 .....  
 Time ..... 12.30 .....  
 .....

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL  
 5 JUN 1992  
 SAN SERVICES

DUBLIN Co. COUNCIL  
 SANITARY SERVICES  
 PRINCIPAL OFFICER  
 Returned *[Signature]*

Date received in sanitary services .....

FOUL SEWER

Available to Biocycle treatment centre with sub-surface irrigation as a disposal method as proposed by the applicant subject to:

- (i) The irrigation area being located closer to the boundary wall with Greenhills Rd. than is indicated on the dog. received in this office on 4/8/92.
- (ii) The applicant entering into an on-going maintenance contract with the manufacturer.
- (iii) A certificate of satisfactory completion being supplied before occupancy takes place
- (iv) An acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which ~~may~~ may be installed on the lands lying to the west in the future, such infrastructure to terminate in a Manhole at the site boundary.

SURFACE WATER : Available to french drains / soak pits as proposed by applicant, subject to the requirements of the B.B.L. Dept.

SENIOR ENGINEER,  
 SANITARY SERVICES DEPARTMENT,  
 46/49 UPPER O'CONNELL STREET,  
 DUBLIN 1

*[Signature]*  
 6/8/92

Register Reference : 91A/349

Date :

.....  
ENDORSED \_\_\_\_\_

DATE \_\_\_\_\_

WATER SUPPLY... *See previous report enclosed*

*J. Mary Abbe*  
*9/6/92*

.....  
ENDORSED \_\_\_\_\_

*[Signature]*

DATE *6/8/92*

PLANNING DEPT.  
DEVELOPMENT CONTROL SECT  
Date ..... 12.08.92  
Time ..... 12.30

P/3740/92

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

SOUTH COUNTY

Register Reference : 91A/0340

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,  
Name and : 110 Baggot Lane,  
Address : Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Approval


Zoning :

Floor Area : Sq.metres

In accordance with Section 26(4a) of the Local Government (Planning and Development) Act, 1963, as amended by Section 39(f) of the Local Government (Planning and Development) Act, 1976, the applicant has furnished his consent in writing to the extension by the Council of the period for considering this application within the meaning of subsection (4a) of Section 26, up to and including the 09.09.92.

I recommend that the period be extended accordingly.

Reason: To facilitate full consideration of the application.

Endorsed:-  .....  
for Principal Officer

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Order: A decision pursuant to Section 26(4A) of the Local Government (Planning and Development) Act, 1963 to extend the period for considering the application as recommended is hereby made.

Dated : ..... <sup>5<sup>th</sup></sup> August 1992 .....  
ASSISTANT COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated ..... 13<sup>th</sup> July 1992 .....

NOTE: I have checked that the necessary entry has been made recording details of the period as extended and that the statutory expiry date on the Detail Screen has been updated.

.....  
Senior Staff Officer.

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

| SOUTH COUNTY |

Register Reference : 91A/0340

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,  
Name and : 110 Baggot Lane,  
Address : Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Approval

Zoning :

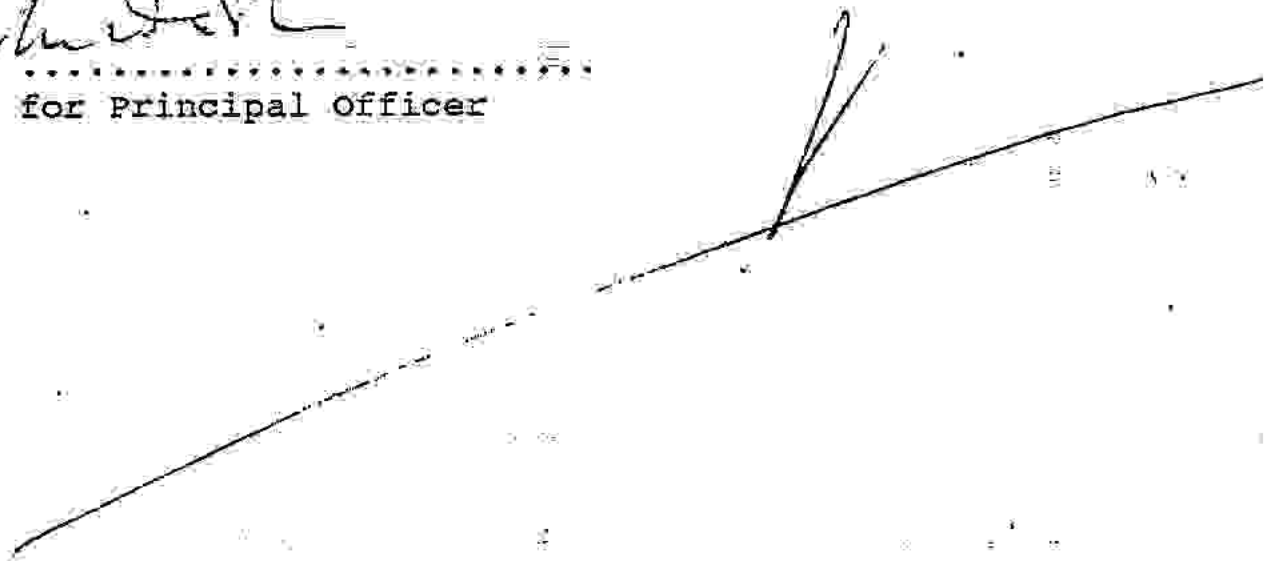
Floor Area : Sq.metres

In accordance with Section 26(4a) of the Local Government (Planning and Development) Act, 1963, as amended by section 39(f) of the Local Government (Planning and Development) Act, 1976, the applicant has furnished his consent in writing to the extension by the Council of the period for considering this application within the meaning of subsection (4a) of Section 26, up to and including the 28.08.92.

I recommend that the period be extended accordingly.

Reason: To facilitate full consideration of the application.

Endorsed:  .....  
for Principal Officer





# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Order: A decision pursuant to section 26(4A) of the Local Government (Planning and Development) Act, 1963 to extend the period for considering the application as recommended is hereby made.

Dated : *16<sup>th</sup> July 1992* ..... 

ASSISTANT COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated

*13<sup>th</sup> July 1992*

NOTE: I have checked that the necessary entry has been made recording details of the period as extended and that the statutory expiry date on the Detail Screen has been updated.

  
.....  
Senior Staff Officer.

1. Applicant's Greenhills Road boundary to be set back to provide for improvement of existing junction of Ballymount/Greenhills Road.
2. Relocate main entrance for two proposed bungalows as far as possible from the junction of Lower Ballymount and the Greenhills Roads, to a location on Ballymount Road to be agreed with the Roads Department.
3. Any roadside drains interfered with shall be fully re-instated and shall where necessary be culverted with pipes of adequate size and strength.
4. Parking for 2 cars to be provided within curtilage of site with turning area.
5. Footpath and kerb to be dished to satisfaction of the Area Engineer, (Roads Maintenance).
6. All works to be carried out prior to the house being occupied.
7. All work to be carried out at the applicant's expense according to the Specification and Conditions of Dublin County Council.
8. A financial contribution, in the sum of money equivalent to the value of £800 as on 1st January, 1991, and updated in accordance with the Wholesale Price Index-Building and Construction (Capital Goods) as published by the Central Statistics Office to the value pertaining at the time of payment shall be paid by the developer to Dublin County Council towards the cost of road improvements and Traffic Management proposals in the area serving this site.

WA/JMcC  
2.5.91.

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

ENDORSED: *[Signature]* \_\_\_\_\_

DATE: *2<sup>nd</sup> 10/05/91* \_\_\_\_\_

DUBLIN COUNTY COUNCIL

91A/349 &amp; 91A/340.

Greenhills Road, Dublin 12.

J. Harvey.

Bungalow and waste water treatment system

14.3.91.

PLANNING DEPT.  
DEVELOPMENT CONTROL SECT

Date

14-4-91

Time System

REG. REF:

LOCATION:

APPLICANT:

PROPOSAL:

DATE LODGED:

This application is for approval for bungalow and waste water treatment system at Greenhills Road.

Greenhills Road under previous outline permission Reg. Ref: 87A/1089.

Planning History: The above applicant has lodged several outline applications for additional bungalows to the northeast and southwest of the existing bungalow. Roads Department have been consistently opposed to any development in this location with access either to the lower Ballymount Road or the heavily trafficked Greenhills Road.

C. Harvey lodged an outline application (Reg. Ref. 87/A/1089) for a bungalow to the southwest of the existing bungalow with a shared access to the Greenhills Road approx. 80m. from the junction with Lower Ballymount Road. Dublin County Council granted permission on 29.10.87.

An application for outline permission for a bungalow to the northeast of existing bungalow with a proposed access to the Greenhills Road approx. 27m. from the lower Ballymount Road junction (Reg. Ref. 88/A/80) was refused by Dublin County Council on 24.1.88.

Finally, a third application for the said bungalow, this time with an access to Lower Ballymount Road (Reg. Ref. 89/A/19) was granted by Dublin County Council on 11.1.88.

Subsequently, an outline application for the bungalow with access to Greenhills Road via the approved shared entrance from Reg. Ref. 87/A/1089 was refused by Dublin County Council on 30.11.88 under Reg. Ref. 88/A/1181.

The Roads Department are investigating the possibility of the construction of a new line on the Greenhills Road which will allow for the removal of the seriously substandard Ballymount Rd/Greenhills Road junction from the network. Implementation of this proposal would mean that access to the bungalows should in the long term be off Ballymount Road Upper (then a cul-de-sac) and not the district distributor Greenhills Road. Implementation of an access on this basis would require to cater for the interim time until the above works are carried out.

Because of this Roads feel the proposal is premature. If, however, because of the existing permission on the site permission is being contemplated it should be

13 MAY 1991

DUBLIN COUNTY COUNCIL

91A/349 & 91A/340.

Greenhills Road, Dublin 12.

J. Harvey.

Bungalow and waste water treatment system.

14.3.91.

PLANNING DEPT.  
DEVELOPMENT CONTROL SECT  
Date ..... 14/4/91 .....  
Time .....

(MD)  
REG. REF:

LOCATION:

APPLICANT:

PROPOSAL:

DATE LODGED:

This application is for approval for bungalow and waste water treatment system at Greenhills Road.

Greenhills Road under previous outline permission Reg. Ref: 87A/1089.

Planning History: The above applicant has lodged several outline applications for additional bungalows to the northeast and southwest of the existing bungalow. Roads Department have been consistently opposed to any development in this location with access either to the lower Ballymount Road or the heavily trafficked Greenhills Road.

C. Harvey lodged an outline application (Reg. Ref. 87/A/1089) for a bungalow to the southwest of the existing bungalow with a shared access to the Greenhills Road approx. 80m. from the junction with Lower Ballymount Road. Dublin County Council granted permission on 29.10.87.

An application for outline permission for a bungalow to the northeast of existing bungalow with a proposed access to the Greenhills Road approx. 27m. from the lower Ballymount Road junction (Reg. Ref. 88/A/80) was refused by Dublin County Council on 24.3.88.

Finally, a third application for the said bungalow, this time with an access to Lower Ballymount Road (Reg. Ref. 89/A/19) was granted by Dublin County Council on 27.7.89.

Subsequently, an outline application for the bungalow with access to Greenhills Road via the approved shared entrance from Reg. Ref. 87/A/1089 was refused by Dublin County Council on 30.11.88 under Reg. Ref. 88/A/1181.

The Roads Department are investigating the possibility of the construction of a new line on the Greenhills Road which will allow for the removal of the seriously substandard Ballymount Rd/Greenhills Road junction from the network. Implementation of this proposal would mean that access to the bungalows should in the long term be off Ballymount Road Upper (then a cul-de-sac) and not the district distributor Greenhills Road. Implementation of an access on this basis would require to cater for the interim time until the above works are carried out.

Because of this Roads feel the proposal is premature. If, however, because of the existing permission on the site permission is being contemplated it should be subject to:-

1. Applicant's Greenhills Road boundary to be set back to provide for improvement of existing junction of Ballymount/Greenhills Road.
2. Relocate main entrance for two proposed bungalows as far as possible from the junction of Lower Ballymount and the Greenhills Roads, to a location on Ballymount Road to be agreed with the Roads Department.
3. Any roadside drains interfered with shall be fully re-instated and shall where necessary be culverted with pipes of adequate size and strength.
4. Parking for 2 cars to be provided within curtilage of site with turning area.
5. Footpath and kerb to be dished to satisfaction of the Area Engineer, (Roads Maintenance).
6. All works to be carried out prior to the house being occupied.
7. All work to be carried out at the applicant's expense according to the Specification and Conditions of Dublin County Council.
8. A financial contribution, in the sum of money equivalent to the value of £800 as on 1st January, 1991, and updated in accordance with the Wholesale Price Index-Building and Construction (Capital Goods) as published by the Central Statistics Office to the value pertaining at the time of payment shall be paid by the developer to Dublin County Council towards the cost of road improvements and Traffic Management proposals in the area serving this site.

MA/BMcC  
9.5.91.

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

ENDORSED: \_\_\_\_\_

DATE: \_\_\_\_\_

*E. Wadden*

*9<sup>th</sup> May '91*

MD

Register Reference : 91A/0340

Date : 21st March 1991

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road.

Applicant : J. Harvey

App. Type : APPROVAL

Planning Officer : M. DARLEY

Date Recd. : 13th March 1991

PLANNING DEPT.  
 DEVELOPMENT CONTROL SECT  
 Date ..... 08/05/91 .....  
 Time ..... 4.00 P.M. ....

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

*Paul Tobin*

PRINCIPAL OFFICER

The proposal is unacceptable for the following reasons

- 1) The proposed irrigation areas, <sup>the location or length of service</sup> have not been indicated on plan.
- 2) There is no guarantee that irrigation of recreational areas will be avoided due to the restriction of the site size.
- 3) In the event of overflow of the unit there is no evidence that the soil will absorb the effluent within the site boundaries.

SUPER. ENVIRON. HEALTH OFFICER,  
33 GARDINER PLACE,  
DUBLIN 1.

Details of the Biocycle unit and confirmation from the installers that the site is suitable to accommodate the system have not been indicated.  
for *Pauline*  
for *Joan O'Reilly* SEHO 7/5/91

Register Reference : 91A/0340

Date : 21st March 1991

MD

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road.

Applicant : J. Harvey

App. Type : APPROVAL

Planning officer : M. DARLEY

Date Recd. : 13th March 1991

PLANNING DEPT.	
DEVELOPMENT CONTROL SECT	
Date .....	21/5/91
Time .....	12.30

Attached is a copy of the application for the above development .Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL  
- 2 APR 1991  
SAN SERVICES

*Paul J. O'Connell*  
DUBLIN CO. C  
SANITARY OFFICER  
30 APR 1991  
Returned *[Signature]*

Date received in Sanitary Services .....

FOUL SEWER

Insufficient Information

1. Applicant has not provided sufficient details of the irrigation system proposed (its nature, size etc.)
2. Applicant has not indicated the location of the irrigation area.
3. Applicant has not established in the application that the size of irrigation area required can be accommodated in the location selected.
4. Applicant has not indicated that he intends to enter into & maintain on an on-going basis the necessary maintenance contracts.

SURFACE WATER

Additional Information Required

Applicant is requested to provide details of the "french drains" proposed - soak pits may be intended.

SENIOR ENGINEER,  
SANITARY SERVICES DEPARTMENT,  
46/49 UPPER O'CONNELL STREET,  
DUBLIN 1

*J. Rice*  
29/4/91

FBI

Register Reference : 91A/0340

Date : 21st March 1991

.....  
ENDORSED \_\_\_\_\_ DATE \_\_\_\_\_

WATER SUPPLY. Available for condense 24 hour storage  
to be provided.

*[Signature]*  
8/4/91

.....  
ENDORSED \_\_\_\_\_ DATE \_\_\_\_\_

*[Signature]* 8/4/91  
*[Signature]* 26/7/91



P/2012/91

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

Register Reference : 91A/0340

Date Received : 13th March 1991

Correspondence : Fuller & Jermyn, Architects,  
Name and : 110 Baggot Lane,  
Address : Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Approval

Zoning : F

MD  
(MD/AC)

Report of the Dublin Planning Officer dated 2 May, 1991.

This is an application for APPROVAL for a bungalow and waste water treatment system at Greenhills Road, for Jim Harvey.

A current application Reg. Ref. 91A/0349 is also an application for APPROVAL for a bungalow at Greenhills Road for Mr. Harvey.

The site is stated to be about 1/3 of an acre. It is located to the north of an existing bungalow on the site. A Biocycle System of wastewater treatment is proposed. The bungalow proposed is three bedroomed with a brown tiled roof and with selected brick finish.

The existing building called "The Bungalow" on Greenhills Road stands on a site of 1.125 acres. The site of this proposal forms a part of this site.

On this overall 1.125 acre site Outline Permission was granted for a bungalow on another portion by Order No. P/3763/87, Reg. Ref. 87A/1089.

This portion of the site has the following planning history:

By Decision Order P/852/88, Reg. Ref. 88A/80, Dublin County Council refused Outline Permission for a bungalow on a 715 sq.m. site which incorporated the site of the current proposal for two reasons - traffic hazard and septic tank drainage, would be prejudicial to public health.

By Decision Order P/4214/88, Reg. Ref. 88A/1181, Dublin County Council refused Outline Permission for a bungalow on a site of 1,020 sq.m. which incorporated most of the site of the previous application. Access to this bungalow was via the entrance to the existing bungalow on the site.

# COMHAIRLE CHONTAE ÁTHA CLIATH

## Record of Executive Business and Manager's Orders

*the County Council passed a resolution under S4 of the City + County Management (Amendment) Act 58 and*  
By Decision Order P/3069/89, Reg. Ref. 89A/19, Outline Permission was granted subject to four conditions for a bungalow and septic tank with a site area that incorporated the entire 1.125 acre site of the existing house and a smaller area indicated similar to the refusal above of Reg. Ref. 88A/1181. Condition No. 3 of this application relates to a satisfactory system for foul drainage. Condition No. 4 relates to the access arrangements. The Sanitary Services Department has reported and has indicated that insufficient information has been submitted in relation to the waste water treatment system.

Roads Department report that is not available.

I recommend that ADDITIONAL INFORMATION be requested from the applicant with regard to the following:-

- 01 In order to assess this application the following information is requested in relation to the Biocycle system proposed: (a) Applicant is to provide sufficient details of the irrigation system proposed, its nature, size, etc. Applicant should consult with the Sanitary Services Department of Dublin County Council (Tel. 127777) in relation to this before additional details are submitted. (b) Applicant is requested to indicate the location of the irrigation area and to indicate if the required size of the irrigation area for the system proposed can be accommodated in the location selected. (c) Applicant is requested to submit details of maintenance contracts if any, that he proposes to undertake and enter into in relation to this system.
- 02 Applicant is requested to submit evidence that the site is suitable for the Biocycle system which is proposed for it.
- 03 In relation to surface water drainage applicant is requested to provide details of the French drains proposed.

034 In relation to Condition No. 4 of Outline Permission, Reg. Ref. 89A/19, applicant is requested to submit details of the access arrangements which will meet the requirements of the Roads Department.

Richard Cresswell SEP  
for Dublin Planning Officer 6.5.91

Endorsed: *[Signature]*  
for Principal Officer

Order: I direct that ADDITIONAL INFORMATION be requested from the applicant for Approval as set out in the above report and that notice thereof be served on the applicant.

Dated: 8 May 1991. *[Signature]*  
ASSISTANT CITY AND COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 26th April, 1991.

SS + CMO

30

①

Register Reference : 91A/0340

Date : 21st March 1991

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road.

Applicant : J. Harvey

App. Type : APPROVAL

Planning Officer : M. DARLEY

Date Recd. : 13th March 1991

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN CO. COUNCIL  
- 2 APR 1991  
SAN SERV

DUBLIN CO. C.  
SANITARY OFFICER  
30 APR 1991  
Returned

Date received in Sanitary Services .....

FOUL SEWER

Insufficient Information

1. Applicant has not provided sufficient details of the irrigation system proposed (its nature, size etc.)
2. Applicant has not indicated the location of the irrigation area.
3. Applicant has not established in the application that the size of irrigation area required can be accommodated in the location selected.
4. Applicant has not indicated whether he intends to enter into or maintain on an on-going basis the necessary maintenance contracts.

SURFACE WATER

Additional Information Required

Applicant is requested to provide details of the "french drains" proposed - soak pits may be intended.

SENIOR ENGINEER,  
SANITARY SERVICES DEPARTMENT,  
46/49 UPPER O'CONNELL STREET,  
DUBLIN 1

PLANNING DEPT.  
DEVELOPMENT CONTROL SEC  
Date ..... 30/4/91  
Time ..... 4pm

J. O'Keefe  
30/4/91

BB

6

Register Reference : 91A/0340

Date : 21st March 1991

ENDORSED \_\_\_\_\_ DATE \_\_\_\_\_

WATER SUPPLY. *Av. available for condense 24 hour storage to be provided.*

*J. Hart*  
5/4/91

ENDORSED \_\_\_\_\_ DATE \_\_\_\_\_  
*J. M. 8/4/91*  
*24/4/91*



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1,  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

NOTIFICATION OF DECISION TO GRANT APPROVAL  
LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS 1963-1991.

Decision Order Number : P/ 4254 /92 Date of Decision : 7th September 1992

Register Reference : 91A/0340 Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Floor Area : Sq.Metres

Time Extension(s) up to and including :

Additional Information Requested/Received : 090591//200592

In pursuance of its functions under the above mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by order dated as above make a decision to GRANT APPROVAL in respect of the above proposal.

subject to the conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- ...9...ATTACHED.

Signed on behalf of the Dublin County Council.....

  
for Principal Officer

Date: ...7<sup>th</sup> September 1992.

Fuller & Jermyn, Architects,  
110 Baggot Lane,  
Dublin 4.

Reg.Ref. 91A/0340  
Decision Order No. P/ 4254 /92  
Page No: 0002



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1.  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

CONDITIONS / REASONS

- 01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 20th May 1992 and 04.08.92 save as may be required by the other conditions attached hereto.  
REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.
- 02 That the proposed house be used as a single dwelling unit.  
REASON: To prevent unauthorised development.
- 03 That the vehicular entrance to be located as shown on lodged plans received dated 4th August, 1992, on the New Greenhills Road until such time as a new line on the Greenhills Road has been provided which will allow for the removal of the substandard Ballymount Road/Greenhills Road junction. At that time the applicant to relocate his entrance onto Ballymount Road.
- 03 REASON: In the interest of the proper planning and development of the area.
- 04 That the applicants Greenhills Road boundary to be set back to provide for improvements of existing junction of Ballymount Road/ Greenhills Road.
- 04 REASON: In the interest of the proper planning and development of the area.
- 05 That a financial contribution in the sum of £800.00 be paid by the applicant to Dublin County Council towards the improvement of the road network in the area of the proposed development, and which will facilitate this development. This contribution to be paid prior to the commencement of development on site.  
REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.
- 06 That a financial contribution in the sum of £375.00 be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which facilitate this development; this contribution to be paid before the commencement of development on the site.  
REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1,  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

Reg.Ref. 91A/0340

Decision Order No. P/ 4254 /92

Page No: 0003

07 That the following requirements of the Environmental Services Department be adhered to:-

(i) The applicant entering into an on-going maintenance contract with the manufacturer.

(ii) A certificate of satisfactory completion being supplied before occupancy takes place.

(iii) An acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which may be installed on the lands lying to the west in the future, such infrastructure to terminate in a manhole at the site boundary.

07 REASON: In the interest of the proper planning and development of the area.

08 Heating to be provided by the use of either oil, gas, electricity or by smokeless fuels in fireplaces or appliances suitable only for burning solid smokeless fuels.

REASON: In the interest of reducing air pollution.

09 That the garage be used solely for purposes incidental to the enjoyment of the dwelling house as such.

09 REASON: In the interest of the proper planning and development of the area.

NOTES

1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.

2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

An Bord Pleanala,  
Blocks 6 and 7,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

3. An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.

(a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee.

"Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward for services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.

(b) An appeal other than an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee.

(c) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanala a fee.

(d) A person who is not a party to an appeal must pay a fee to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

4. If the Council makes a decision to grant permission/approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

5. From 17th February, 1992, fees payable to An Bord Pleanala are as follows:

(a) Appeal against a decision of a Planning Authority on a planning application relating to commercial development, by the person by whom the application was made.	£200.00
(b) Appeals other than an appeal mentioned at (a).	£100.00
(c) Reference	£100.00
(d) Request for a determination.	£100.00
(e) Reduced Fee.	£50.00
(f) Submissions or observations.	£30.00
(g) Request for an oral hearing.	£50.00





Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

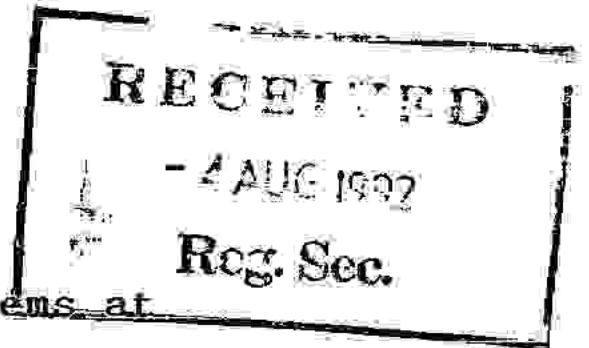
telephone 600429

Fax 602082.

31st July 1992.

UNSOLICITED INFORMATION.

Mr. Gerry Richard,  
Planning Department,  
Dublin County Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.



Re:- 2 Bungalows and Waste Water Treatment Systems at  
Greenhills Road, Dublin 12. - J. Harvey.

Register Reference 91A/0/06  
" " 91A/0340  
J.H.O.  
R.J.

Dear Mr. Richard,

In regard to the above I have had consultations with Mr. Terry Rice of Sanitary Services, and we have now agreed from his point of view the method of percolation.

I am now enclosing an amended Block Plan, certificate of Percolation times as carried out under SR6, and a copy of letter received from Bio-Cycle Ltd.

I am also lodging with Mr. Terry Rice today the identical information and he asked me to inform you that he has the relevant files at the present time.

I now propose within the next few days to approach the Environmental Health Department to obtain their Approval.

Yours sincerely,

  
ROGER JERMYN.

Encls.

4/8

**bio**  **CYCLE LTD. WASTE WATER TREATMENT SYSTEMS**  
Unit 107 Baldoyle Industrial Estate, Dublin 13. Tel. 391000. Fax 391998.

Ref: FC/md/let.7hh

23 July 1992

Attention Mr. Roger Jermyn

MRIAI.  
110 Baggot Lane,  
Dublin 4,

**RE: TWO BUNGALOWS AND WASTE WATER TREATMENT SYSTEMS AT GREENHILLS ROAD, DUBLIN 12.**

**REGISTER REFERENCE: 91 A/0349 AND 91 A/0340**

Dear Sir,

Further to our recent meeting regarding the above, we have now studied your drawing dated November 1990 and your certified test results and find your proposal conforms with our requirements, all of which has to be approved by the Local Authority.

Should we be of any further assistance to you in the future please do not hesitate to contact us.

Yours faithfully,

*FR*  
  
Frank Cavanagh



UNSOLICITED INFORMATION.

21st July 1992.

For attention of Mr. Terry Rice,

Sanitary Services Department,  
Dublin County Council,  
O'Connell Street,  
Dublin 1.

Re:- Two Bungalows and Waste Water Treatment Systems at  
Greenhills Road, Dublin 12.

Register Reference: 91 A/0349 and 91 A/0340.

Dear Mr. Rice,

Further to our recent telephone conversation in regards to the proposed "Biocycle" Waste Water Treatment Systems at the above. As requested Site suitability tests were carried out as set out by Ealos S R 6, 1975 and in accordance with pages 8, 9, and 10, in regards to Percolation.

Five test holes were dug 10 metres in along the Greenhills Road and Two test holes were dug 2 metres in along the North West boundry.

I CERTIFY THE TESTS AS FOLLOWS:-

Greenhills Road Boundry (5 test holes).

Average drain down time. 50 minutes  $\pm$  9.

Value "T" = 5.55

North West Boundry.

Average drain down time. 80 minutes  $\pm$  9

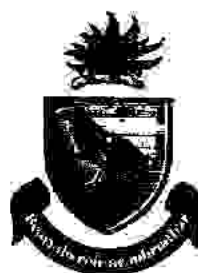
Value of "T" = 8.88.

Taking Table 1. Percolation Areas the length of the Distribution piping in metre should be as follows:-

Maximum in both cases 47 metres.

Yours sincerely,

ROGER JERMYN.



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1,  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

Register Reference : 91A/0340

Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system.

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Additional Information

Date Recd : 20th May 1992

Dear Sir/Madam,

With reference to your planning application received here on 20.05.92 in connection with the above, I wish to inform you that:-  
In accordance with Section 26(4A) of the Local Government (Planning and Development) Act 1963, as amended by Section 39(F) of the Local Government (Planning and Development) Act, 1976 the period for considering this application within the meaning of subsection (4A) of Section 26 has been extended up to and including the 09.09.92.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'D. J. Harvey', written over a dotted line.

PRINCIPAL OFFICER

Date : 6/8/92

Fuller & Jermy, Architects,  
110 Baggot Lane,  
Dublin 4.

NOTES

1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.

2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

An Bord Pleanala,  
Blocks 6 and 7,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

3. An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.

(a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee.

"Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward for services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.

(b) An appeal other than an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee.

(c) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanala a fee.

(d) A person who is not a party to an appeal must pay a fee to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

4. If the Council makes a decision to grant permission/approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

5. From 17th February, 1992, fees payable to An Bord Pleanala are as follows:

(a) Appeal against a decision of a Planning Authority on a planning application relating to commercial development, by the person by whom the application was made.	£200.00
(b) Appeals other than an appeal mentioned at (a).	£100.00
(c) Reference	£100.00
(d) Request for a determination.	£100.00
(e) Reduced Fee.	£50.00
(f) Submissions or observations.	£30.00
(g) Request for an oral hearing.	£50.00



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082.

4th August 1992.

The Principal Officer,  
Planning Department,  
Dublin County Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

Re:- 2 Bungalows and Waste Water Treatment Systems - Greenhills  
Road, Dublin 12 - J. Harvey.

Register Reference Nos. 91A/0340  
91A/0349

Dear Sir,

We wish to extend the time for consideration of these  
two Applications by a further month to the 9th September 1992.

Yours faithfully,

  
ROGER JERMYN.



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1,  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

Register Reference : 91A/0340

Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road.

Applicant : J. Harvey

App. Type : Additional Information

Date Recd : 20th May 1992

Dear Sir/Madam,

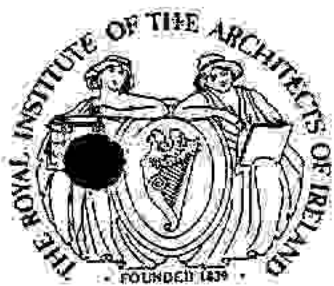
With reference to your planning application received here on 20.05.92 in connection with the above, I wish to inform you that:-  
In accordance with Section 26(4A) of the Local Government(Planning and Development) Act 1963, as amended by Section 39(F) of the Local Government (Planning and Development) Act, 1976 the period for considering this application within the meaning of subsection (4A) of Section 26 has been extended up to and including the 09.08.92.

Yours faithfully,

PRINCIPAL OFFICER

Date : 16/7/92

Fuller & Jermyrn, Architects,  
110 Baggot Lane,  
Dublin 4.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082

9th July 1992.

For attention of Mr. Jerry Richards.

Planning Department,  
Dublin County Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin. 1.

Re:- Two Bungalows and Waste Water Treatment Systems at  
Greenhills Road, Dublin 12.

Register Reference : 91 A/0349 and 91 A/0340.

Dear Mr. Richards,,

Further to our telephone conversation of today, whereas you requested a time Extension and it was suggested that the two Applications for Planning Approval should be extended by one calendar month; this is agreed by me.

Yours sincerely,

ROGER JERMYN.





Building Control Department,  
Liffey House,  
Tara Street,  
Dublin 1.  
Telephone: 773066



Bloc 2, Ionad Bheatha na hEireann,  
Bloc 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1.  
Dublin 1.  
Telephone (01) 724755  
Fax (01) 724896

Register Reference : 91A/0340

Date : 22nd May 1992

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1991

Dear Sir/Madam,

DEVELOPMENT : Bungalow and waste water treatment system

LOCATION : Greenhills Road.

APPLICANT : J. Harvey

APP. TYPE : Additional Information

With reference to the above, I acknowledge receipt of additional information received on 20th May 1992.

Yours faithfully,

.....  
for PRINCIPAL OFFICER

Fuller & Jermyn, Architects,  
110 Baggot Lane,  
Dublin 4.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082.

12th May 1992.

ADDITIONAL INFORMATION.

91A/349 + 91A/340  
1.4.0  
A.1

Planning Department,  
Dublin County Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

Re:- Proposed Bungalows and Waste Water Treatment - Greenhills  
Road, Dublin 12.

Registry Reference 91A/0349

Registry Reference 91/A0340.

Dear Sirs,

Further to having a number of consultations with Officials in the Environmental Health Department and finally receiving **ADDITIONAL INFORMATION** from the Manufacturers of the Biocycle Waste Water treatment Systems, it is now proposed that the percolation would not be as previously specified by means of distribution pipes running at ground level, but that they be inserted into 50 M.M. Wavin field drain pipes which would be inserted just under grass sod level in order to achieve an evaporation rather than soakage.

We have also shown on the Drawing the tree Survey as requested.

Yours faithfully,

ROGER-JERMIN.

RECEIVED  
20MAY 1992  
Reg. Sec.

Fuller & Jermyn Arch.,  
110 Baggot Lane,  
Dublin 4.

Reg. Ref. No. 91A/0340

9 May 1991

Re: Proposed bungalow and waste water treatment system at  
Greenhills Road for J. Harvey.

Dear Sir,

With reference to your planning application, received here on 13 March, 1991, in connection with the above, I wish to inform you, that before the application can be considered under the Local Government (Planning and Development) Acts, 1963-1983, the following additional information must be submitted in quadruplicate:-

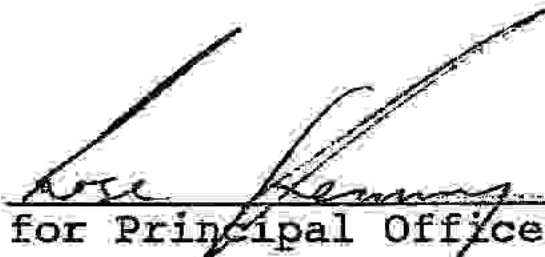
1. In order to assess this application the following information is requested in relation to the Biocycle System proposed:
  - (a) Applicant is to provide sufficient details of the irrigation system proposed, its nature, size, etc. Applicant should consult with the Sanitary Services Department of Dublin County Council and the Supervising Environmental Health Officer, Eastern Health Board (Tel. 727777) in relation to this before additional details are submitted.
  - (b) Applicant is requested to indicate the location of the irrigation area and to indicate if the required size of the irrigation area for the system proposed can be accommodated in the location selected.
  - (c) Applicant is requested to submit details of maintenance contracts if any, that he proposes to undertake and enter into in relation to this system.
2. Applicant is requested to submit evidence that the site is suitable for the Biocycle System which is proposed for it.

Over .....

3. In relation to surface water drainage applicant is requested to provide details of the French drains proposed.
4. In relation to Condition No. 4 of Outline Permission, Reg. Ref. 89A/19, applicant is requested to submit details of the access arrangements which will meet the requirements of the Roads Department.

Please mark your reply "ADDITIONAL INFORMATION" and quote the Reg. Ref. No. given above.

Yours faithfully,

  
for Principal Officer.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

21st March 1991.

Planning Department,  
Dublin County Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

RE: BUNGALOWS AND WASTE WATER TREATMENT SYSTEMS, GREENHILLS ROAD,  
DUBLIN 12.

RE: REGISTER REFERENCE 91 A/0349  
" " " 91 A/03440

Dear Sirs,

Further to your three letters of the 19th instant, I have to state all lands in both Applications are held Freehold.

It should also be noted that the Applications in both cases is for Planning Approval and not for Building Bye-Law Approval.

Yours faithfully,

ROGER JERMYN.

25 MAR

Building Control Department,  
Liffey House,  
Tara Street,  
Dublin 1.  
Telephone: 773066



Bloc 2, Ionad Bheatha na hEireann,  
Block 2, Irish Life Centre,  
Sraid na Mainistreach Iacht,  
Lower Abbey Street,  
Baile Atha Cliath 1.  
Dublin 1.  
Telephone. (01)724755  
Fax. (01)724896

Register Reference : 91A/0340

Date : 14th March 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990

Dear Sir/Madam,

DEVELOPMENT : Bungalow and waste water treatment system

LOCATION : Greenhills Road.

APPLICANT : J. Harvey

APP. TYPE : APPROVAL

With reference to above, I acknowledge receipt of your application received on 13th March 1991.

Yours faithfully,

.....  
PRINCIPAL OFFICER

Fuller & Jermyn, Architects,  
110 Baggot Lane,  
Dublin 4.



PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.

1. Application for  Permission  Outline Permission  Approval  Place in appropriate box.  
 Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.

2. Postal address of site or building Greenhills Road, Ballymount,  
 (If none, give description sufficient to identify) Co. Dublin.

3. Name of applicant (Principal not Agent) Jim Harvey,  
 Address Greenhills Road, Ballymount, Co. Dublin. Tel. No. ....

4. Name and address of Fuller & Jermyn, Architects,  
 person or firm responsible for preparation of drawings 110 Baggot Lane, Dublin 4. Tel. No. 600429.

5. Name and address to which Fuller & Jermyn, Architects,  
 notifications should be sent 110 Baggot Lane, Dublin 4.

6. Brief description of Bungalow and waste water treatment system.  
 proposed development

7. Method of drainage Waste water treatment system. 8. Source of Water Supply Public.

8. In the case of any building or buildings to be retained on site, please state:  
 (a) Present use of each floor or use when last used Existing Bungalow.  
 (b) Proposed use of each floor

*Handwritten notes:*  
 64  
 13/3  
 N 34195

10. Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? No

11. (a) Area of Site 1/3rd acre approx. Sq. m.  
 (b) Floor area of proposed development 119 sq. m. plus garage 15.8 sq. m. Sq. m.  
 (c) Floor area of buildings proposed to be retained within site ..... Sq. m.

*Handwritten notes:*  
 Irish Press  
 9/3/91

12. State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.) Freehold.

13. Are you now applying also for an approval under the Building Bye Laws? Yes  No  Place  in appropriate box.

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:

15. List of documents enclosed with application. 4 copies of Drawings, technical Specification for Biocycle waste water system, Newspaper Notice and cheque.

*Stamp:*  
 CO. DUBLIN Planning Approval  
 sought for bungalow and for  
 waste water treatment system at  
 Greenhills Road for J. Harvey

16. Gross floor space of proposed development (See back) ..... Sq. m.

No of dwellings proposed (if any) ..... Class(es) of Development .....  
 Fee Payable £ 32 Basis of Calculation Single dwelling.  
 If a reduced fee is tendered details of previous relevant payment should be given

Signature of Applicant (or his Agent) Roger Harvey Date 13/3/91

Application Type APP  
 Register Reference 91A/0340  
 Amount Received £ 22/1  
 Receipt No .....  
 Date .....

FOR OFFICE USE ONLY

*Handwritten:* 2.12.4

**RECEIVED**  
**13 MAR 1991**  
 REG. SEC.

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office, Sun Alliance House, Molesworth Street, Dublin 2.

1. Name and Address of applicant.
2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.
3. The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.
  - (a) The address of the structure or the location of the land.
  - (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
  - (c) The name of the applicant.

**NB. Applications must be received within 2 weeks from date of publication of the notice.**
4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1: 2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.
5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are.
  - (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.
  - (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.
    - (ii) A layout and a survey plan of each floor of any structure to which the application relates.
  - (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.
6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

**SEPTIC TANK DRAINAGE:** Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordance with I.I.R.S. S.R. 6:75.

**INDUSTRIAL DEVELOPMENT:**

The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act, 1977 in particular the licencing provisions of Sections 4 and 16.

PLANNING APPLICATIONS

BUILDING BYE-LAW APPLICATIONS

CLASS NO.	DESCRIPTION	FEE	CLASS NO.	DESCRIPTION	FEE
1.	Provision of dwelling — House/Flat.	£32.00 each	A	Dwelling (House/Flat)	£55.00 each
2.	Domestic extensions/other improvements.	£16.00	B	Domestic Extension (improvement/alteration)	£30.00 each
3.	Provision of agricultural buildings (See Regs.)	£40.00 minimum	C	Building — Office/Commercial Purposes	£3.50 per m <sup>2</sup> (min. £70.00)
4.	Other buildings (i.e. offices, commercial, etc.)	£1.75 per sq. metre (Min. £40.00)	D	Agricultural Buildings/Structures	£1.00 per m <sup>2</sup> in excess of 300 sq. metres (min. - £70.00) (Max. - £300.00)
5.	Use of land (Mining, deposit or waste)	£25.00 per 0.1 ha (Min. £250.00)	E	Petrol Filling Station	£200.00
6.	Use of land (Camping, parking, storage)	£25.00 per 0.1 ha (Min. £40.00)	F	Development or Proposals not coming within any of the foregoing classes,	£9.00 per 0.1 ha (£70.00 min.)
7.	Provision of plant/machinery/tank or other structure for storage purposes.	£25.00 per 0.1 ha (Min. £100.00)			Min. Fee £30.00
8.	Petrol Filling Station.	£100.00			Max. Fee £20,000
9.	Advertising Structures.	£10.00 per m <sup>2</sup> (min £40.00)			
10.	Electricity transmission lines.	£25.00 per 1,000m (Min. £40.00)			
11.	Any other development.	£5.00 per 0.1 ha (Min. £40.00)			

Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls.

For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.



# COMHAIRLE CHONTAE ÁTHA CLIATH

DUBLIN COUNTY COUNCIL  
46/49 UPPER O'CONNELL STREET,  
DUBLIN 1.

Issue of this receipt is not an acknowledgement that the fee tendered is the prescribed application fee.

- PAID BY
- CASH
- CHEQUE
- M.O.
- B.I.
- I.T.

€ 60.00

Received this 13th day of March 1991

from *Fuller - Lemyn*  
*113 Ballymot Lane*  
*D.U.*

the sum of *sixty four* Pounds

Pence, being *two four*  
*plc p application at Greenhills Rd.*

*Mahee - Dean* Cashier

91A / 349  
S. CAREY  
Principal Officer



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

12th March 1991.

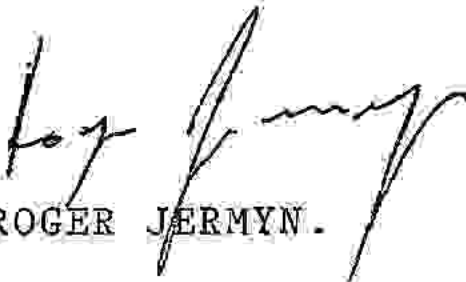
The Principle Officer,  
Planning Department,  
Dublin Co. Council,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

RE: PROPOSED BUNGALOW AT GREENHILLS ROAD, DUBLIN 12 - J. HARVEY  
PLANNING REGISTER REFERENCE 89A/19

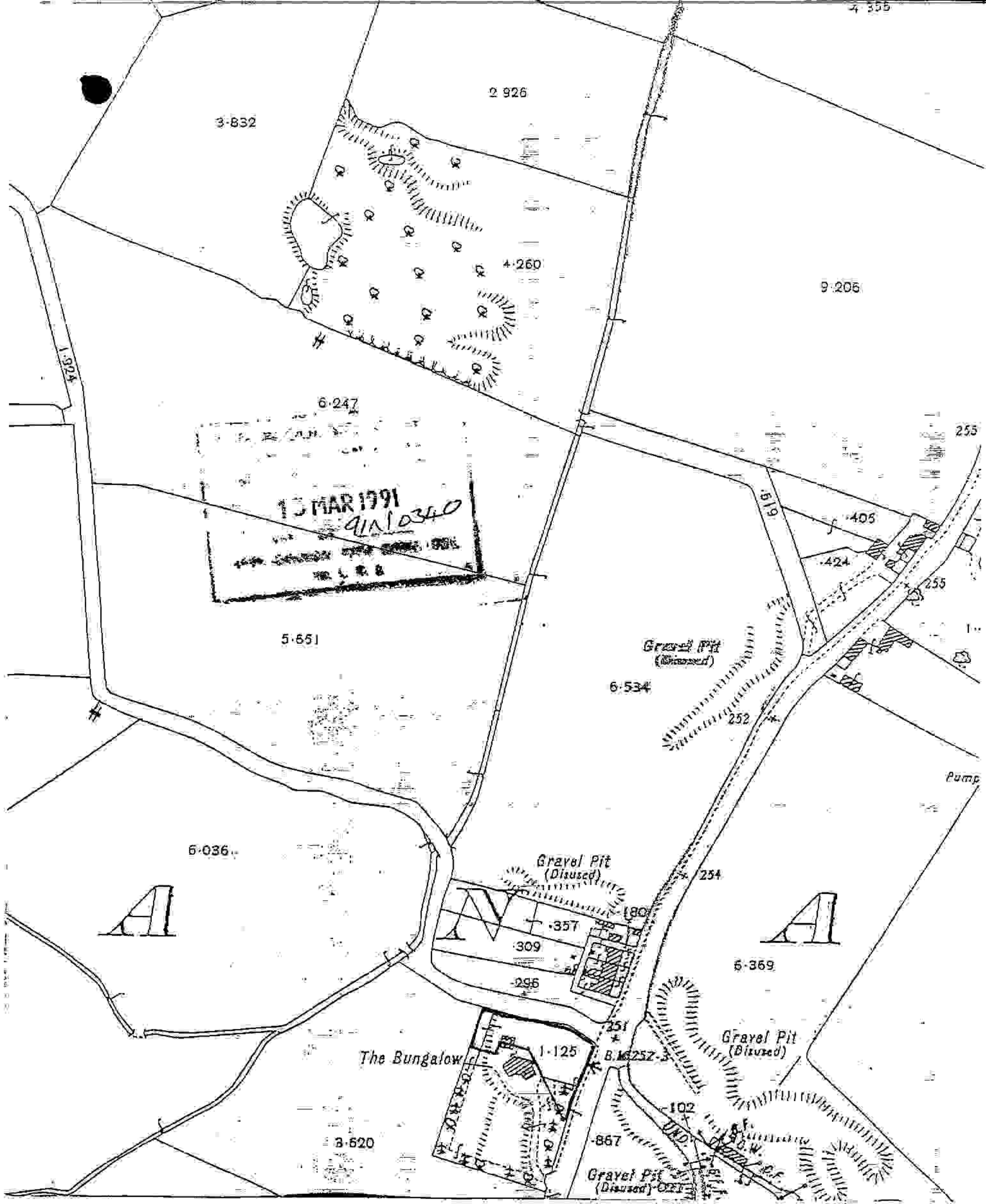
Dear Sirs,

We have been instructed by our client to submit for Planning Approval for Bungalow and Waste Water treatment System. We are submitting part of the Specification in regard to a Biocycle 5100 litres Waste treatment system. I have had discussions with Officials of the Eastern Health Board who are well aware of this system and have the complete Specification for the system.

Yours faithfully,



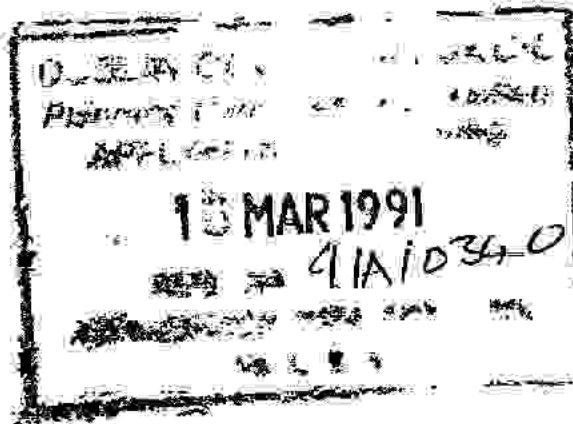
ROGER JERMYN.



Proposed Bungalow, Greenhills Road, Dublin 12. J. Harvey.

Scale 1:2500.

Fuller and Jermyn, Architects, 110 Baggot Lane, Dublin 4.



SPECIFICATION

AND TYPICAL DETAILS OF  
SINGLE TANK SYSTEMS

BIOCYCLE 5100 LITRE

WASTEWATER TREATMENT SYSTEM

General

The Biocycle 5100 litres system is a packaged Waste Water Treatment Plant for domestic applications where mainline sewage is not available or where the soil types or terrain do not suit conventional site disposal systems but particularly where environmental damage wishes to be avoided.

The System is designed and installed in accordance with the British Standards code of practice for "Design and Installation of small sewage treatment works and cesspools" (B.S. 6297: 1983)

The Unit provides for a retention period of four days and has an actual working capacity of 5100 litres. In addition, the System has a further capacity of 2,400 litres to cater for any overflow resulting from power failure which provides for over two days use before action must be taken to avoid overflow. However, even if the system overflows there are sufficient chlorine stocks within the system that dissolve as the liquid level rises and renders the overflow relatively harmless.

\*\*\*\*\*

Design Criteria

The designed capacity for the Biocycle 5100 litres system is for up to 8 people.

The plant is designed to function automatically between routine service inspections.

The plant is designed to operate under the following loads

Hydraulic Loads

- |     |   |       |            |
|-----|---|-------|------------|
| (a) | Average daily per capita flow                       | ..... | 230 litres |
| (b) | Maximum per capita flow rate in any two hour period | ..... | 125 litres |

Biological Loads

- |     |   |       |             |
|-----|---|-------|-------------|
| (a) | Average daily per capita 5 day BOD              | ..... | 100 Grammes |
| (b) | Average daily per capita total suspended solids | ..... | 100 Grammes |

ELECTRICS

All electrical work is carried out in accordance with I.E.E. regulations.

MEDIA

The active surface of growth media per capita contained in the aerobic chamber is 4.05 m<sup>2</sup>.

Specification sheets on the growth media used are enclosed.

\*\*\*\*\*

TANK

The outer tank is designed and constructed from re-inforced pre cast concrete in accordance with B.S 8007 (design of concrete structures for retaining aqueous liquids).

INTERNAL/CHAMBERS

The main dividing "Bladder" and clarification/irrigation chambers are constructed from fibreglass in accordance with B.S. 4994 (vessels and tanks on reinforced plastics).

<u>Clarification Chamber:</u>	Height	1400mm
	Diameter	950mm
	Capacity	310 litres

<u>Irrigation Chamber:</u>	Height	1400mm
	Diameter	950mm
	Capacity	300 litres

AIR SYSTEMS

Pipework used for the fabrication of the aeration system, sludge return and top level skimmer are in accordance with B.S. 3505/4346

The compressor/blower used provides continuous supply of air at 95 litres/minute and has a power rating of 110 watts.

CHLORINATION SYSTEM

Chlorination takes place as effluent flows between the clarification and irrigation chambers.

The chlorinator unit is designed and calibrated to suit above normal sewage and to provide sufficient chlorine stocks under maximum usage.

Safety factors are included to cover all foreseeable circumstances between maintenance calls with a 100% safety margin. Pipework and fittings used in the construction of the chlorinator are in accordance with local government requirements Eg. wavin pipe.

IRRIGATION SYSTEM

The submersible irrigation pump used has a capacity of 40-130 litres/minute and comes complete with its own float switch.

A specification sheet for the pump unit is enclosed.

Polyethylene pipework is used for the irrigation lines which are fitted with approximately 25-30 brass spray heads.





Biocycle Ltd.,  
107 Baldoyle Industrial Estate,  
Dublin 13.

THE IRISH SCIENCE AND TECHNOLOGY AGENCY  
Glasnevin, Dublin 9, Ireland. Telephone 01-370101.  
Fax 01-379620. Telex 32501.

Attention: Mr F Kavanagh.

Our Ref: R.6/07999E

5 April 1990.

Re: Biocycle Waste Water Treatment System.

Dear Mr Kavanagh,

Thank you for sending details of the above system for treating domestic waste water. We also acknowledge receipt of analytical results. Having examined two working units in North County Dublin we are in a position to comment on the Biocycle as a means of treating and disposing of domestic waste water.

In our opinion the system is superior to the conventional septic tank and percolation method for disposing of domestic waste water from single house dwellings. The septic tank is really only a settling tank and removes the pollution load associated with the solids. It does not remove the soluble organic load and this can only be removed or reduced by the percolation process in suitable conditions.

The Biocycle achieves degradation of the total organic load and the sludge produced will be stable i.e., it will have been self digested. The system is a mini-version of the modern method of effluent treatment used by the local authorities to treat municipal effluent i.e., biological oxidation. The principal difference is that the detention time per capita in the Biocycle is longer than in a local authority plant. Because of this the effluent from the Biocycle should be of higher quality. The effluent from the system will be of much better quality than that from a septic tank. Consequently the

risk of surface and groundwater pollution will be much reduced. As such the system is to be recommended.

We have examined the test reports submitted and the results (BOD removal greater than 90% and suspended solids removal greater than 80%) are in line with what we would have expected from this type of treatment system given the principal of operation and the retention time involved.

As you are probably aware there are areas in the country where conventional septic tanks and percolation are not suitable as a means of treating and disposing of domestic waste water. For example, bacteriological contamination of groundwater by the septic tank method of treatment is of increasing concern to the local authorities and health boards. Properly selected the Biocycle will be particularly suitable for such areas.

The fact that the Biocycle requires electrical power for the air blower and pump means that consideration must be given at each installation to the effects of power cuts and blower and pump malfunction. Even allowing for the capacity of the system to accept about 4 days of raw effluent after say a pump malfunction, it would be important to equip each installation with a high liquid level alarm, independently powered (eg., battery pack), to alert the house holder to a malfunction.

Yours sincerely,

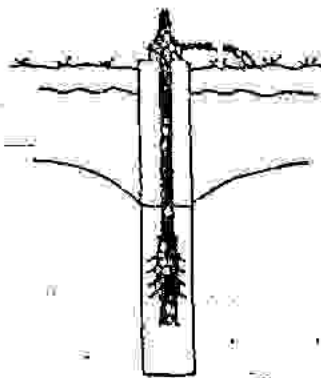


Richard Foley,  
Environmental Services.

rf/RF.

# THE GSI GROUNDWATER NEWSLETTER

- Exploration
- Management
- Pollution
- News from abroad
- Development
- Quality
- Reviews
- Opinion Forum



# NUACHTÁN SCREAMHUISCE SGÉ

- Taiscéalocht
- Bainistíocht
- Truailiú
- Nuacht idirnáisiúnta
- Forbairt
- Cálíocht
- Athbhreithniú
- Tuairimí

Wished by the Geological Survey of Ireland,  
1990s Bush, Haddington Rd.,  
Dublin 4. ☎ (01) 609511

Foilsithe ag an Suirbháireacht Gheolaíochta Éireann,  
1990s Bush, Bóthar Haddington,  
Baile Átha Cliath 4. ☎ (01) 609511

Edited by: Donal Daly.

No. 15. March, 1990

## IN THIS ISSUE

### NITRATES IN SURFACE WATER AND GROUNDWATER

Over 40% of the country is probably not suitable naturally - geologically or hydrogeologically - for the safe disposal of septic tank effluent. Yet location of septic tank systems in these areas has occurred, leading to surface water and groundwater contamination problems. Recently two systems, designed for the disposal of effluent from single dwellings, have been launched - the Biocycle and Puraflo systems (see pages 5 and 6). These may well provide an answer to many of the pollution problems associated with septic tank systems. They each cost £2,500-£3,000.

### SUCCESSFUL DRILLING AT LANESBOROUGH

### NEWS FROM ABROAD

"Climatic Extremes and their Effects on Water Resources" is the theme of the 1990 IAH Portlaoise seminar (page 8). This is particularly topical now as evidence for the "greenhouse effect" and its consequences is growing. The seminar will examine the effects of droughts and floods on both groundwater and surface water.

### SEPTIC TANK EFFLUENT TREATMENT

The GSI maintains a national archive of earth science information, which is now being collated, assessed and produced on 1:25,000 scale bedrock maps. John Morris describes the availability and content of these maps on page 7.

### GSI GEOLOGICAL MAPS

### PORTLAOISE SEMINAR

The value of groundwater as a source of water supply has been proven yet again by successful drilling in Co. Roscommon (see article by Donal Marron on page 3). The assumed extension of the Burren limestone aquifer west of the Shannon from Co. Longford is now proven.

### IAH NEWS

A questionnaire is enclosed with this issue of the Newsletter to enable the updating of the mailing list and to receive suggestions for improvements. If you find the Newsletter useful and wish to continue receiving it, you should return the questionnaire.

Editor.

## UNITED STATES: EFFECT OF GROUNDWATER CONTAMINATION ON HOME VALUES

An assessment of home values in the town of Twin City, Nebraska, after groundwater contamination had occurred, gave the following valuation reductions:

- \$19,000 for properties which had levels of contamination severe enough to require the use of bottled water.
- \$12,000 for properties with trace levels that were under the threshold to require bottled water
- \$3,000 for properties in an area determined to have high potential risk.

Source: The Groundwater Newsletter of the Water Information Centre, Inc.  
Vol. 18, No. 16.

Editor.

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## SEPTIC TANK EFFLUENT TREATMENT

### THE BIOCYCLE SYSTEM: THE WIZARD OF OZ ARRIVES IN IRELAND

A chance viewing of the Australian television programme Beyond 2000, by a Dublin engineer has led to a new design in wastewater treatment being recently launched onto the Irish market. Christened the Biocycle, this system incorporates four separate concepts of wastewater treatment in one compartmentalised tank. These four concepts are as follows:-

1. Receiving chamber (anaerobic or septic).
2. Diffused aeration chamber.
3. Clarification or settlement chamber.
4. Chlorination and irrigation chamber.

Manufactured in Ireland by Biocycle Ltd. of Ballydoyle Industrial Estate, the Biocycle unit has a total capacity of 5000 litres for service to the average sized dwelling. Made from fibreglass or concrete, this Australian designed unit is currently being evaluated by the Environmental Science Unit, Trinity College under field conditions at Swords Co. Dublin.

The receiving chamber operates on similar lines to a septic tank where anaerobic conditions predominantly prevail in the removal of heavy solids. Passage to the adjoining chamber is by means of a submerged baffle, where 4 diffuse aerators are strategically placed, to handle a hydraulic loading of 2800 litres per day, or 0.7 Kg. B.O.D.; assuming an influent B.O.D.5 strength of 250 mg/l. The aeration chamber contains submerged biological media to assist in providing suitable conditions for growth of oxidising and nitrifying micro-organisms.

From the aeration chamber, the wastewater flows into the clarification tank where quiescent conditions allow for the settlement of lighter solids. By means of the venturi principle, the unit is designed to return settled material from this chamber back to the primary tank. This process is operated off the main air supply to the aeration chamber, and ensures a constant return of activated or aerated sludge to assist in the carbonaceous breakdown in the primary tank. Floating scum from the clarification chamber is also returned by this method.

The wastewater in the clarification chamber is drawn off below surface level and flows via a Chlorinator to the pump chamber. It is similar in design to the concept of Onsite chlorination tested by the U.S. E.P.A., where all wastewater comes in contact with two perpendicular stacks

containing calcium hypochlorite tablets. These stacks are adjustable by the user to the desired residual chlorine level, and to the hydraulic loading envisaged. Under normal household usage, each stack containing 29 tablets (70% active) is designed for 156 days treatment.

After chlorination, the wastewater passes to the pumping chamber which has a capacity of 300 litres and contains the irrigation pump and the warning alarm system. Designed to ensure a minimum retention period of 30 minutes at 0.5 mg/l free available chlorine, the pumping routine is regulated on a float switch from within the unit. Failure of the float-control pump to operate will activate the high water alarm in the control panel in the owners dwelling. The pumping system is designed to achieve a hydraulic head of approx. 4-50 metres, which can be very advantageous in rural settings where site contours prevent normal gravity flow.

The system also incorporates a rather untried option in Ireland of wastewater disposal - irrigation. The treated effluent is discharged by the pump through a 25mm hydrodare piping which is simply laid in the area of the garden to the owners wishes. Self tapping microjet sprayheads are inserted in the piping at regular intervals and with 25 such sprayheads the pump is capable of discharging up to 200 litres in a 10 minute period. More preferable irrigating locations are shrubberies, but play areas are not recommended.

The ongoing study of the Biocycle unit in Swords has revealed very good B.O.D. and suspended solids removal rates. After initial teething problems, recent effluent samples from this plant have had a final B.O.D. 5 and suspended solids levels in single figures. Nitrification has not been achieved to any great extent. The short retention time of 2-3 days would appear to be the limiting factor for the optimum growth of the nitrifying bacteria, Nitrosomonas and Nitrobacter. Bacteriological examinations of the wastewater at different stages in the plant has revealed very good reductions in total and faecal coliforms in the final effluent.

The plant at Swords is in operation since September 1989 and serves a normal sized house with five occupants. There has been no mechanical faults with the unit to date and early indications would appear to suggest that this system has a role to play in the treatment of onsite wastewater.

The telephone number of Biocycle Limited is (01) 391000.

Dave O'Brien, Eastern Health Board

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#### THE PURAFLOW SEPTIC TANK EFFLUENT TREATMENT SYSTEM IS LAUNCHED.

Mr. R. Molloy, T.D., Minister for Energy, officially launched the Puraflow Septic Tank Effluent Treatment System on 28th February. This System, which was developed by Bord na Mona, consists of a sump, pump and a group of specialised peat fibre biofilter modules which incorporate effluent distribution and odour control facilities. The system is designed to treat domestic sewage from individual dwellings, but can be expanded to suit hotels, caravan sites and small housing estates. Over 25 Puraflow Systems have been installed to date.

The telephone number of Puraflow Limited is (0903) 4200.

Donal Daly, Geological Survey of Ireland.