Tel.: 24246

TOWN CLERK'S OFFICE, TOWN HALL, TUAM.

To each Town Commissioner.

25th March, 1988

A CHARA,

The Monthly Meeting of the Tuam Town Commissioners will be held

Tuesday, 5th April, 1988 at 8.00 p.m.

You are hereby summoned to attend.

Mise le meas,

alion.

Minutes Manager's Business Site at Fairgreen Water Correspondence Notice of Motion:

1. J. Burke - I will ask what the position is re: rent at No 75 Gilmartin road. If substantial arrears have accumulated I prepose any Tenant over 10 weeks in arrears should come up for discussion at next meeting of the Board. I further propose that any Tenant with arrears not be given a transfer or be rehoused if they leave with arrears.

2. J. Burke - I will ask why the persistant difficulty regarding water in Galway Road is not being resolved by Galway County Council equest the 3. J. Burke - I will propose that a facility for transporting stray horses be urgently acquired by Galway County Council for use in the Tuam Area, and each time the pound is used the Gardai be informed so prosecutions will follow for wandering animals. 4. M. Kelly - I propose that this Board call on the Government to consider Tuam in their de-centralisation programme.

5. F. Biggins - I propose that this Board organise a tribute to Mr. B. Burke in recognition of the good work he has done for

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ne cross to e a replica 1 placque, so that the 1 which rks and the as agreed that make the

ad be repaired Council was cially the

ided that the trairic lights be installed before the April meeting. Commissioner Burke asked that a copy of the Minutes of the August '87 meeting be sent to the County Engineer. The Engineer stated that a traffic census has been completed. A Warrent has been sought from the Garda Commissioner to erect the lights. The design entails land acquisition and road realignment and the present estimate of cost is £20,000.

The Assistant County Manager stated that the County Manager would need more time to consider the extention of the Town Boundary in relation to the County Council. It was decided to invite the County Manager to the April meeting of the Board.

Commissioner Browne who led the deputation from the Board to Mr. A. Reynolds, Minister for Industry and Commerce said the Minister understood the problems in Tuam and was anxious to visit the Town. The Deputation also met with representatives of Goodman International who outlined their plans. It was proposed by Commissioner Burke and seconded by Commissioner Browne that an invitation be extended to the Goodman Organisation to meet with the Board. It was proposed by Commissioner Browne and seconded by Commissioner Biggins that the County Manager, County Engineer and Planners also a representative from the

a junction:

ndary:

#### Minutes of meeting held on Tuesday, 1st March, 1988

Chairman: P. M. Stapleton

Commissioners: F. Biggins, M. O'Grady, J. O'Mara, N. Halion, J. Flaherty, G. Browne, J. Burke

Mr. J. Howlett, Assistant County Manager Mr. J. Gibbons, Area Engineer

The Prayer was recited.

A Deputation from the Fairgreen Resident Association appealed to the Board and Galway County Council to rectify the situation regarding a site not now available for the building of a house. After the Deputation left the Manager stated that he had consulted with the law Agent, the site was sold in good faith, but he feared the County Council would be unable to enforce the original conditions in this case. It was proposed by Commissioner Browne and seconded by Commissioner Biggins that the Manager get a second Legal opinion or Counsel's opinion on the matter. This to be discussed at the next meeting.

A Deputation from the Old Tuam Society asked the Board to request the Office of Public Works to examine the Town Cross, remove the cross to an interior location such as St. Mary's Cathedral, and have a replica erected at the Square. They requested permission to have a placque, in memory of Mr. John Waldron erected at the Town Hall, also that the Chair of Tuam be maintained litter free. In the discussion which followed it was decided to write to the Office of public works and the National Monuments Committee, Galway County Council. It was agreed that the plaque be erected at the Town Hall. It was decided to make the key of the Chair of Tuam available to the Old Tuam Society.

ouses:

It was proposed and seconded that two houses at Athenry Road be repaired and made available to the Mental Health Association. The Council was asked to give consideration to the settled residents, especially the elderly, when allocating vacent houses.

d junction:

Commissioner O'Grady proposed and Commissioner Browne seconded that the traffic lights be installed before the April meeting. Commissioner Burke asked that a copy of the Minutes of the August '87 meeting be sent to the County Engineer. The Engineer stated that a traffic census has been completed. A Warrent has been sought from the Garda Commissioner to erect the lights. The design entails land acquisition and road realignment and the present estimate of cost is £20,000.

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understood the problems in Tuam and was anxious to visit the Town.
The Deputation also met with representatives of Goodman International
who outlined their plans. It was proposed by Commissioner Burke and
seconded by Commissioner Browne that an invitation be extended to the
Goodman Organisation to meet with the Board. It was proposed by
Commissioner Browne and seconded by Commissioner Biggins that the County
Manager, County Engineer and Planners also a representative from the

I.D.A. and the Sugar Company be invited to the meeting. The Manager who accompanied the deputation stated that he also met with officials of the Department of the Environment and made them aware of the need for funds for services.

Commissioner O'Grady said the deputation had made a strong case to Officials of An Post re the advantages of purchasing the Old Garda Barrack.

ge at ream Park:

The Manager stated that the County Council would attempt to recover the cost from the developer.

of Motion:

It was decided to consider the Notice of Motion at the April meeting.

t Office:

Commissioner Burke proposed and Commissioner Flaherty seconded that the Tourist Office be located in the Hallway of the Town Hall for June, July and August.

The adoption of the Minutes of the Narch meeting was proposed by Commissioner O'Grady and seconded by Commissioner Browne.

ondence:

Letters were received from the following:

- 1. Birr Urban District Council There was unanimous support for both resolutions.
- J. P. Glynn & Sons re 58 Athenry Road, Consent to sale was proposed by Commissioner Stapleton and seconded by Commissioner Burke.
- 3. James M. Hession re 46 Athenry Road, Consent to the sale was proposed by Commissioner Browne and seconded by Commissioner O'Mara.
- 4. Industry for Tuam Action Group It was proposed and seconded that Commissioners Browne and Biggins represent the Board at future meeting of the Group.
- 5. Telecom Eireann read.
- 6. Mr. W. O'Connor This letter to be sent to the Planning Dept. Galway County Council for their comments.

Tributes were paid to the late Sean McBride and a vote of sympathy was passed with his family. A vote of sympathy was also passed with the Daly Family on the death of Bernie.

This concluded the meeting.

ed by: Holian, Lerk

STONED.

5/4/1988

#### Minutes of Special Meeting held on Tuesday, 16th February, 1988

Chairman: P. M. Stapleton

Commissioners: M. O'Grady, F. Biggins, J. Flaherty, G. Browne

J. O'Mara, M. Kelly, J. Burke

Mr. John Howlett, Assistant County Manager

The Prayer was recited.

The purpose of the meeting was to select a deputation from the Board, to accompany the Work for Tuam Action Committee, to meet with Mr. A. Reynolds, Minister for Industry and Commerce on Tuesday 23rd February, 1988.

The following members were selected to represent the Board: Commissioners Kelly, Burke, O'Grady, Browne, Flaherty

Lights: There was unanimous agreement that the Traffic Lights at Weir road junction be erected without delay.

It was decided to seek a meeting with officials of an Post re: The Post Office, on the same day, 23rd February - the Clerk to arrange the meeting and notify the members of the time and place.

Mr. J. Gibbons, Engineer was also to be asked to accompany the deputation to An Post.

Commissioner Browne asked that the Manager, Galway County Council, be contacted urgently re: the misuse of a site at the Fairgreen.

A vote of sympathy was passed with the following families:
King Family on the death of Tom
Daly Family on the death of Bernie
Farrel Family on the death of Paddy
Vardin Family on the death of David
Ivers and Burke Families on the death of Majella Ivers

This consluded the meeting.

dby: Holian,

Fairgreen:

SIGNED.

5/4/1988

Tel.: 24246

TOWN CLERK'S OFFICE, TOWN HALL, TUAM.

To each Town Commissioner.

A CHARA,

The Monthly Meeting of the Tuam Town Commissioners will be held

Tuesday, 1st March, 1988 at 8.00 p.m.

You are hereby summoned to attend.

Mise le meas,

a Holian Baile Cleireach.

AGENDA

Minutes

Manager's Business

Correspondence

Notice of Motion: J. Burke

I will ask what the position is re: rent at No. 75
Gilmartin road. If substantial arrears have accumulated
I propose any Tenant over 10 weeks in arrears should come
up for discussion at the next meeting of the Board. I
further propose that any Tenant with arrears not be given
a transfer or be rehoused if they leave with arrears.

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Commissioners
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1 members
and, I.D.A.,

posed by the

Chairman and seconded by Commissioner Biggins.

s Business:

Approval was sought for 31% increase in remuneration for the Town Clerk and the Rent Collector. This was proposed by the Chairman and seconded by Commissioner Biggins.

The Board agreed that the Law Agent and the Solicitor for the Theatre Guild have discussions and then the question of rent be discussed.

am Park:

The Acting Assistant County Manager stated that the cost of correcting the sewerage problem was estimated at between £7,000 and £8,000 but there were no funds available. This was a private estate and the Builder had not complied with planning permission. The Council would persue the Builder. The members pointed out that the problem was getting worse and called on the County Council to solve the problem urgently.

A vote of Sympathy was passed with Mrs. E. Biggins on the death of Bridie Melvin.

ndence:

Letters were received from the following:

 Gleeson & Kean, re 14 Newtownmorris, It was proposed by Commissioner Burke and seconded by Commissioner O'Mara that Marie Larkin's name be included in the title to the property.

## Minutes of Meeting held on Tuesday 2nd February, 1988

Chairman: P. M. Stapleton

Commissioners: F. Biggins, J. O'Mara, J. Burke, M. O'Grady G. Browne, J. Flaherty, N. Halion

Mr. E. Gleeson, Acting Assistant County Manager

Mr. J. Gibbons, Area Engineer

The Prayer was rectied.

A Long discussion took place re: the County Council's policy on housing, Tenancy Agreements, transfers etc. in Tuam.

Commissioner Kelly was wished a speedy recovery to health

Replying to the members the Acting Assistant County Manager said he couldn't give a committment to have the traffic lights erected before the next meeting.

> A letter was read from the County Manager. Commissioner Burke pointed out that the Board were not looking for Urban District Status at this time because of the implications, but it is vital that the Boundary be extended. The Acting Assistant County Manager stated that certain studies had to be carried out and ultimately it is a matter for the Minister. The County Manager wishes to report to the Town Commissioners and the County Council and is interested in finalising the report.

> Commissioner Browne said the Sugar Company owe a massive debt to Tuam. The promise made in 1981, a replacement Industry before closure, was not honoured. Commissioner Burke stated that the Sugar Company gave a site and factory worth £22m but now this appears to be gone. All members spoke in aggrement and it was proposed to invite Mr. T. Hyland, I.D.A., to the April meeting of the Board.

The adoption of the Minutes of the January meeting were proposed by the Chairman and seconded by Commissioner Biggins.

Business: Approval was sought for 32 increase in remuneration for the Town Clerk and the Rent Collector. This was proposed by the Chairman and seconded by Commissioner Biggins.

The Board agreed that the Law Agent and the Solicitor for the Theatre Guild have discussions and then the question of rent be discussed.

The Acting Assistant County Manager stated that the cost of correcting the sewerage problem was estimated at between £7,000 and £8,000 but there were no funds available. This was a private estate and the Builder had not complied with planning permission. The Council would persue the Builder. The members pointed out that the problem was getting worse and called on the County Council to solve the problem urgently.

A vote of Sympathy was passed with Mrs. E. Biggins on the death of Bridie Melvin.

Letters were received from the following:

1. Gleeson & Kean, re 14 Newtownmorris, It was proposed by Commissioner Burke and seconded by Commissioner O'Mara that Marie Larkin's name be included in the title to the property.

Junctions

mdary:

am Park:

ndence:

- Monaghan Urban District Council There was unanimous support for the following resolution: "That this Council renew support for Energy Minister, Mr. Ray Burke, demanding the closure of Sellafield Nuclear Processing Plant and that we request other Councils to support the Minister on his campaign."
- 3. Ennis Urban District Council re: Health services -
- 4. Galway County Council re: Service charges read.
- 5. Ennis Urban District Council re: Health services read.
- United Towns Organisation read.

of Vesting The Vesting of the following houses was approved:

No. 36 Tubberjarlath to Mr. & Mrs. P Gilmore

No. 64 Tubberjarlath to Warde Family

No. 9 St. Enda's Ave to Mr. & Mrs. M. Douglas

It was proposed by Commissioner Burke and unanimously supported that a letter of support for the Government's stand on the Stalker Sampson issue be sent to the Taoiseach.

A vote of sympathy was passed with Mrs. E. Biggins on the death of Conly Bridie Melvin.

This concluded the meeting.

lian.

SIGNED:

CHAIRMAN

TUAM TOWN COMMISSIONERS

Tel.: 24246

To each Town Commissioner.

A CHARA,

The Monthly Meeting of the Tuam Town Commissioners will be held

Tuesday, 2nd February, 1988. at 8.00 p.m.

You are hereby summoned to attend.

Mise le meas,

Baile Cleireach.

A G E N D A

Manager's Business
Correspondence
Sewerage at Millstream Park
Approval of Vesting Orders:

36 Tubberjarlath
64 Tubberjarlath
9 St. Enda's Ave

houses:

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which had aternational luam which the £14½m are making the

He mentioned a number of industries which had expanded. In the past year Tuam was the most progressive town after Galway.

Replying to the members the Manager stated that some houses had been allocated and the remainder need repairs.

teat This item to be included on the adgenda for the February meeting.

The Engineer stated that this had been referred to the Design Engineer and he read the report issued. Reply to Commissioner Burke he said the County Engineer had given a committment to have traffic lights erected early in 1988.

of Motion: There was unanimous support for the motion re: The Town Boundary. It was decided to invite the County Manager to the February meeting.

It was decided to write to Telecom Eireann regarding the absence of the O93 dialing area from the Internation Dialing booklet.

Minutes of Meeting held on Tuesday, 19th January, 1988

Chairman: P. M. Stapleton

Commissioners: J. O'Mara, F. Biggins, M. Kelly, G. Browne,

J. Burke, N. Halion

Mr. John Howlett, Assistant County Manager

Mr. Jack Gibbons, Area Engineer

Mr. Tom Hyland, I.D.A. resent: Mr. Ray O'Connor, L.D.A.

road

tion:

Mr. Charles Lynch, County Development

Deputy Michael Kitt,

Commissioners O'Grady and Flaherty

Deputy P. Connaughton

The Chairman welcomed the invited guests to the meeting and thanked them for making themselves available. He referred to the loss of the Sugar Factory, the high level of unemployment in the town and the rate of immigration over the past year. He also referred to the Sugar factory site and the delay in the provision of a replacement Industry and the prospects of employment for the future.

Mr. Charles Lynch, County Development, said over the past twelve months

seventeen individual companies had been helped,

Deputy Kitt said he was well aware of the unemployment situation in Tuam also immigration. He welcomed the Goodman Internation facility, there was some confusion re the role of C.S.E.T. but he hoped to get some answers. Discussions were on hand with the I.D.A. who are negotiating with Pulse Engineering re: expansion. Decentralisation could also be looked at. Small Industries provided a lot of hope.

Mr. Tom Hyland, I.D.A., said unemployment in Tuam has increased by 200, 130 fewer jobs in manufacturing, over the past five years, which had seen the worst ever recession. He confirmed that Goodman International were proceeding with the proposed meat processing plant at Tuam which would mean 140 full time jobs. The I.D.A. were supporting the £14½m investment by Goodman International and the Sugar Company were making the site available.

Mr. Ray O'Connor, I.D.A., said he looked after small Industries in Tuam. He mentioned a number of industries which had expanded. In the past year

Tuam was the most progressive town after Galway.

Replying to the members the Manager stated that some houses had been t houses: allocated and the remainder need repairs.

This item to be included on the adgenda for the February meeting. stream Park:

The Engineer stated that this had been referred to the Design Engineer and he read the report issued. Reply to Commissioner Burke he said the County Engineer had given a committment to have traffic lights erected early in 1988.

of Motion: There was unanimous support for the motion re: The Town Boundary. was decided to invite the County Manager to the February meeting.

> It was decided to write to Telecom Eireann regarding the absence of the 093 dialing area from the Internation Dialing booklet.

Commissioner Burke proposed and Commissioner Kelly seconded the adoption of the minutes of the December meeting.

ondence:

Letters were received from the following:

- 1. Office of the Taoiseach read
- 2. Lydon & Co,-60 Gilmartin road assignment to Marian Mullins. Consent to the assignment was proposed by Commissioner Burke and seconded by Commissioner O'Mara.
- 3. Higgins, Chambers & Co. 95 Athenry road, Consent to the sale was proposed by Commissioner O'Mara and seconded by Commissioner Stapleton.
- 4. James M. Hession 13 Athenry road, Consent to the sale was proposed by Commissioner Burke and seconded by Commissioner O'Mara.
- 5. Ennis Urban District Council. This to be discussed at the February Meeting.

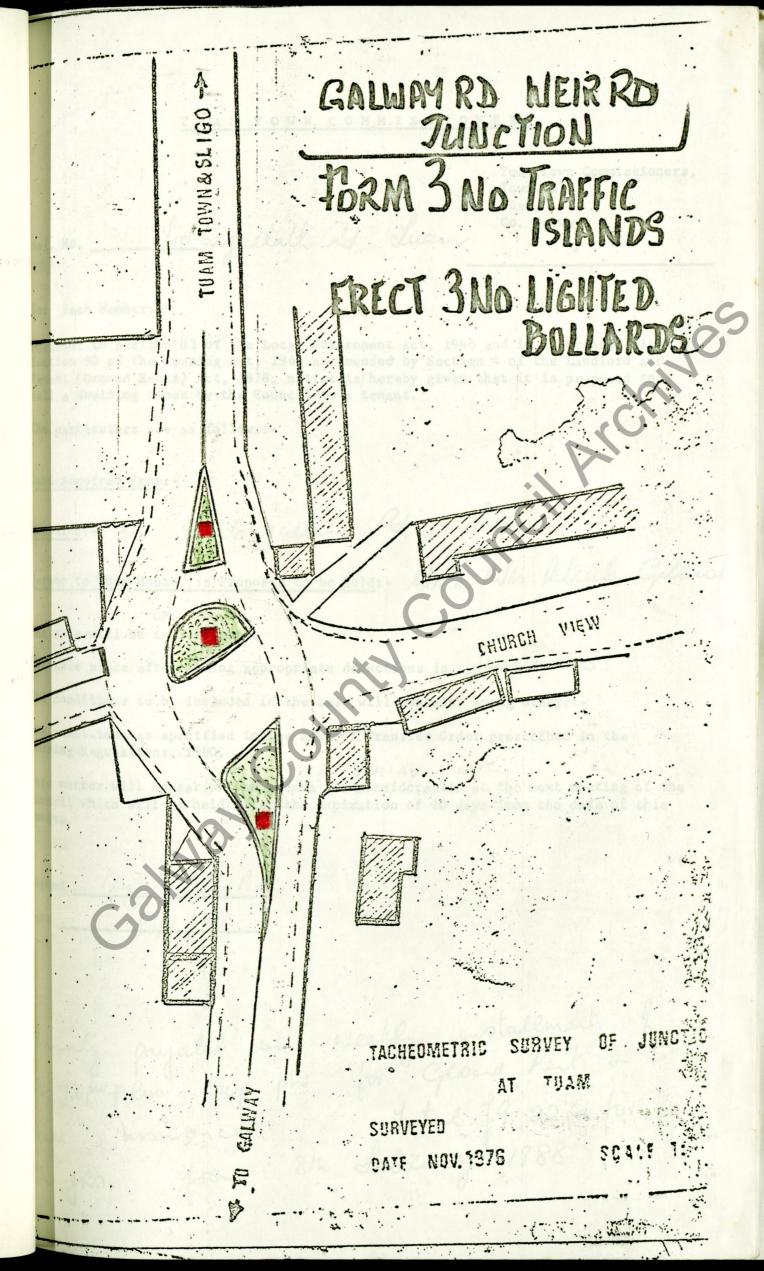
A vote of Sympathy was passed with the Francis Family, Mubberjarlath, Mannion Family, Tubberjarlath, and the Tighe Family, St. Bridgets Terr.

d by: Holian, erk.

Galmay Collinity

TUAM TOWN COMMISSIONERS TOWN CLERK'S OFFICE, Tel.: 24246 TOWN HALL, TUAM. 8th January, 1988 To each Town Commissioner. The Monthly Meeting of the Tuam Town Commissioners will be held on .. Tuesday, .. 19th. January, .. 1988... at 8.00 p.m. You are hereby summoned to attend. G. Browne Mise le meas, Holean Baile Cleireach. AGENDA Special meeting with: Mr. T. Hyland, I.D.A. Mr. C. Lynch, County Development Deputies Kitt, Treacy and Connaughton tation Minutes r Road Weir road em such as Manager's Business road. Notice of Motion: J. Burke They I propose that Tuam Town Commissioners invite the County the shed on Manager, Mr. Seamus Keating to attend the next Commissioners The meeting to discuss the extension of the Town Boundary as ied by the proposed with Galway County Council last September. e this in-Notice of Motion: J. Burke I will propose that Tuam Town Commissioners contact Telecom Eireann regarding the absence of the 093 dialing ss the area from the International Dialing booklet. County be incorrtnightly. e complimented . necessary to views have een included in the Estimate for 1988. rinity Commissioner Browne requested that the barriers at the Car park be removed k: on Mart days as parking on the road is causing congestion. This was welcomed but it was proposed that a person be appointed to ensure that no unauthorised vehicles enter the car park. The Manager was asked to investigate the possibility of having a person available untill 12 midnight vestigate the Commissioner Browne undertook to discuss the matter with Mart personnel. Guild: It was decided to write to the Theatre Guild people and request the return of the draft Aggreement. It was decided to write again to Officials of An Post re: the Garda Barrack. Concern was expressed that the ceiling of the post office, which is being investigated, might be asbestos. The proposed link road from Dublin road to Galway road was discussed. The Manager siad negotations were going on re: this road. There was a recommendation that the road be brought to Vicar street and no further.

Commissioner Flaherty proposed and Commissioner Burke seconded the minutes of the November meeting. Commissioner Burke proposed and Commissioner O'Grady seconded the minutes of the Estimates meeting. spondence: Letters were received from the following: 1. Appointments Secretary, Office of the Taoiseach - It was decided to invite Mr. T. Hyland, IDA, Mr. C. Lynch, County Development and Deputies Kitt, Treacy and Connaughton to a meeting as soon as a suitable date can be arranged. 2. Lydon & Co. - sale of 3 Athenry Road, Tuam. Consent to the sale and mortgaging of the property was proposed by Commissioner Burke and seconded by Commissioner Biggins. 3. Lydon & Co. - sale of 66 Gilmartin road, Tuam. Consent to the sale was proposed by Commissioner Burke and seconded by Commissioner O'Grady. 4. Birr Urban District Council - re: Government cutbacks. There was unanimous support for the Motion. hy: A vote of Sympathy was passed with the families of the victims of Enniskillen. The Chairman asked that a letter of thanks be sent to Sr. Sebastion, for her work on the scroll which was presented to Archbishop Cassidy. This concluded the meeting. ed by: Holian, lerk Calma



Tuam Town Commissioners, Town Hall, Tuam, Co. Galway. Hegerlatt Rd. Luam Each Member: -Pursuant to Section 83 of the Local Government Act, 1946 and in accordance with Section 90 of the Housing Act, 1966 as amended by Section 4 of the Landlord and Tenant (Ground Rents) Act, 1978, notice is hereby given that it is proposed to sell a dwelling owned by the Council to a tenant. The particulars are as follows: -Land Acquired From: -Ludobejarlett Rd. Lugar Person to Whom House is Proposed to be Sold: - Miles Wills Patrick Gilmon The sale will be in fee simple The sale price after making appropriate deductions is 14036.85 The conditions to be included in the sale will contain, among others:the conditions as specified in the Form of Transfer Order prescribed in the Housing Regulations, 1980. This matter will appear on the Agenda for consideration at the next meeting of the Council which will be held after the expiration of 10 days from the date of this Notice. payable in weekly installments 50p pw for ground Rent + Jotal 19. 22 pm for from 8th February 1988

Tuam Town Commissioners,

Town Hall,

Tuam, Co. Galway. gallall Rd Luams To: Each Member: -Pursuant to Section 83 of the Local Government Act, 1946 and in accordance with Section 90 of the Housing Act, 1966 as amended by Section 4 of the Landlord and Tenant (Ground Rents) Act, 1978, notice is hereby given that it is proposed to sell a dwelling owned by the Council to a tenant. he particulars are as follows:and Acquired From: ocation: - 64 Lubberjaclall Rd, Luams erson to Whom House is Proposed to be Sold:he sale will be in fee simple he sale price after making appropriate deductions is £4036.85 he conditions to be included in the sale will contain, among others:e conditions as specified in the Form of Transfer Order prescribed in the busing Regulations, 1980. is matter will appear on the Agenda for consideration at the next meeting of the uncil which will be held after the expiration of 10 days from the date of this uty payable in weekly installments of 18.72 pw plus 50p pw for groud Rout of Fin Insurance. Fotal \$9.22 pm for yrs from 8th February 1988

Ref. No. 9 & Engles ave, Luam

Tuam Town Commissioners, Town Hall, Tuam, Co. Galway.

To: Each Member: -

Pursuant to Section 83 of the Local Government Act, 1946 and in accordance with Section 90 of the Housing Act, 1966 as amended by Section 4 of the Landlord and Tenant (Ground Rents) Act, 1978, notice is hereby given that it is proposed to sell a dwelling owned by the Council to a tenant.

The particulars are as follows:-

land Acquired From: -

ocation: 9 St Enders Que, Lean

'erson to Whom House is Proposed to be Sold: - What Ales Martin Douglas

OF:

he sale will be in fee simple

he sale price after making appropriate deductions is £9431.91

he conditions to be included in the sale will contain, among others:-

he conditions as specified in the Form of Transfer Order prescribed in the ousing Regulations, 1980.

his matter will appear on the Agenda for consideration at the next meeting of the ouncil which will be held after the expiration of 10 days from the date of this otice.

igned Ruse A. Deckia.

hundy payable in weekly installments of 10.39 pm plus 50p pm ground Rent of the Insurance. Fotal for 89 for oyrs from 81th February 19.88

TUAM TOWN COMMISSIONERS TOWN CLERK'S OFFICE, Tel.: 24246 TOWN HALL, TUAM. 25th October, 1987 To each Town Commissioner. The Monthly Meeting of the Tuam Town Commissioners will be held on Tuesday, 1st December, 1987.... at 8.00 p.m. You are hereby summoned to attend. Mise le meas, Augela Holean Baile Cleireach. Minutes Manager's Business Correspondence Sewerage at Millstream Park reconsider ater charges. hat a the members survey on ded to write extremely t regularly. ven to a that action ests for discussed before a said the missioner ner Biggins rised by ager stated time. They collection will be taken up again with the Rent collector. He said the Council were willing to act where there is gross missconduct, and there is a case where a tenant is being evicted for abusing property. The Chairman thanked the Engineer for having a tree removed at a house in Gilmartin road. He asked that the trees at the Glebe be pruned. He also asked that a house at Tirboy be investigated and if it is vacent that it be relet as soon as possible. inity Car Commissioner O'Grady asked if the toilets were refurbished and called on the County Council to settle the problem at the Car park and have the rubbish cleared away. The Engineer replied that the toilets were refurbished and if he was instructed an abandoned car and trailer would be removed. igade: Commissioner Biggins reminded the members that the seminar on fire safety would be held on Wednesday, 4th November, '87 at 8pm. 8 on Weir Commissioner O'Grady stated that on enquiry the County Secretary had informed him that negotations with a buyer were proceeding.

Minutes of meeting held on Tuesday, 3rd November, 1987

Chairman: P. M. Stapleton

Commissioners: M. O'Grady, F. Biggins, J. Flaherty, J. Burke N. Halion, G. Browne

Mr. John Howlett, Assistant County Manager Mr. Jack Gibbons, Area Engineer

Commissioners Kelly, O'Mara

The Prayer was recited.

houses:

inity Car

igade:

on Weir

It was decided to present an address of Welcome to His Grace, Dr. Joseph Cassidy, on the occasion of his installation as Archbishop of Tuam.

Commissioner Browne again appealed to the County Council to reconsider the present actions in their efforts to collect outstanding water charges. He asked that the water mains be scoured out regularly and that a filtering system be installed. Commissioner Burke informed the members that the County Manager is currently carring out an indepth survey on the quality of the water. This was welcomed and it was decided to write to the County Manager and ask that the survey be carried out extremely urgently. The Engineer stated that the mains are scoured out regularly. Filteration is a help but serious consideration should be given to a treatment plant at the Ballymote source. The Manager stated that action was being taken against people who had ignored repeated requests for the water charges.

The deplorable condition of some houses recently vacated was discussed and it was suggested that houses being vacated, be inspected before a tenant gets a transfer to another house. Commissioner Browne said the rent collector should report on the condition of houses. Commissioner Burke condemned the irregular collection of rents. Commissioner Biggins said he was aware of a situation were some tenants were terrorised by another tenant and asked the Council to investigate. The Manager stated that instructions were issued to Rent collectors from time to time. They are not in a position to Police houses. The matter of irregular collection will be taken up again with the Rent collector. He said the Council were willing to act where there is gross missconduct, and there is a case where a tenant is being evicted for abusing property.

The Chairman thanked the Engineer for having a tree removed at a house in GAlmartin road. He asked that the trees at the Glebe be pruned. He also asked that a house at Tirboy be investigated and if it is vacent that it be relet as soon as possible.

Commissioner O'Grady asked if the toilets were refurbished and called on the County Council to settle the problem at the Car park and have the rubbish cleared away. The Engineer replied that the toilets were refurbished and if he was instructed an abandoned car and trailer would be removed.

Commissioner Biggins reminded the members that the seminar on fire safety would be held on Wednesday, 4th November, '87 at 8pm.

Commissioner O'Grady stated that on enquiry the County Secretary had informed him that negotations with a buyer were proceeding.

at Millstream

The Engineer stated that the survey was carried out by the Planning Department, Galway County Council. No report has been received yet. The Manager was asked to instruct the Sanitary Department to include this item in the Estimate for 1988.

seach

It was decided to write again to the Taoiseach and ask him to meet a deputation from the Board in Dublin.

d Junction:

A letter was read from the residents of the area objecting to the proposed traffic lights. The members asked that the Planning Department, Galway County Council re-investigate the provision of a roundabout in the future but considered it essential that traffic lights be urgently provided in view of constant minor traffic accidents at the junction. The Engineer stated that the problem was no sight distance from the Weir road onto the Galway road. The only logical thing as of now was traffic lights. Traffic lights would be installed in 1988.

Commissioner Biggins proposed and Commissioner Flaherty seconded the adoption of the minutes of the October meeting.

s Business: Guild: A Draft aggreement had been sent to the Theatre Guild. This had been discussed informally at the last meeting when there seemed to be a change of attitude re: rent. This would need to be considered.

Commissioner Burke informed the members that there was a change of Policy in Galway County Council regarding the proposed road from Dublin road to Abbey trinity.

ndary:

This item is still on the adjenda for Galway County Council.

idence:

Letters were received from the following:

- Catherine J Hughes, Solicitor sale of 76 Gilmartin road, Tuam. Consent to the sale was proposed by Commissioner Burke and seconded by Commissioner O'Grady.
- 2. Concanon and Meagher 11 St Enda's Ave, Tuam. Consent to the mortgaging of the property to Galway County Council was proposed by Commissioner O'Grady and seconded by Commissioner Biggins.
- 3. An Post The Engineer was thanked for his support when a deputation from the Board met with officials of An Post. The clerk was instructed to write again to An Post re: the current position, also to arrange another deputation from the Board to An. Post.
- 4. Minister of State, Depart of Finance read.

A vote of Sympathy was passed with the following families:

Martin McDonagh on the death of John Rita O'Brien on the death of Eillen Gerry Kelly, Turloughmore, on the death of John

This concluded the meeting.

by: lian,

CHAIRMAN

Minutes of special meeting to consider the Estimate of Expenses for 1988, held on Wednesday 21st October, 1987

Chairman: P. M. Stapleton

Commissioners: M. O'Grady, J. O'Mara, F. Biggins, M. Kelly N. Halion.

Commissioner Browne

Mr. J. Howlett, Assistant County Manager Mr. J. Gibbons, Area Engineer

The Prayer was recited.

A vote of Sympathy was expressed with the families of the follow

Mr. & Mrs. Jack Callanan, Tubberjarlath

Mrs. J. Flaherty, Abbert

Mr. Paddy Moggan, Galway Road

The Manager introduced the Estimate of Expenses for 1988 which had been circulated to each member and advertised. He said the Estimate shows variations from last year under a number of headings, and it has been necessary to curtail expenditure as far as possible because of a decline in receipts from housing annuities and from income from investments. During the current year the gross rate obtainable from investments was 13%, but the most optimistic estimate for reinvestment in the coming year yould put the role of the said the Estimate shows a far as possible because of a decline in receipts from housing annuities and from investments. in the coming year would put the rate between 9% and 92%. After deduction of DIRT Tax the higher rate would produce a net 6.175%. In the circumstances the Commissioners are still in a difficult financial situation which allows for the very minimum of expenditure. The cumulative effect of various adjustments produces a rate of 74.96p in the £ as compared with 68.83p in the £ for the current year. During the discussion which followed the amount allocated for house maintainance was criticised and it was suggested that the County Council be asked to take over the houses. The Engineer stated that £12,000 would employ two men for six months. The Manager pointed out that there was no hope of the Council taking over the houses and if more funds were allocated to house maintainance it would mean raising the rate. Commissioner Kelly asked that a calculation of the cost of vesting be done on each house and the tenant be notified of same. It was then proposed that the Library Rent be increased to £2,500, the £500 to be added to House maintainance allocation, bringing same to £12,500. The Manager warned that this increase may not be realised. It was then proposed by the Chairman and seconded by Commissioner O'Grady and resolved to adopt the estimate as amended and that in accordance with the said estimate the Demand of £13,900 be made on Calway County Council.

During the course of further discussion some members expressed the view that a rent should be charged to the Theatre Guild. The Manager stated that he personnely would be in favour of a nominal rent being charged.

Replying to a query on the Clock, the Engineer stated that a lot of work had been done on the Clock. Mr. Leufer had repaired the mechanics. However the hands are stuck and he was considering the hiring of a hoist from the ESB to get up to have the hands repaired. The Chairman asked that a fence be erected between House Nos 18 and 19 Gilmartin road, that the Tenant in No. 47 Gilmartin road be changed to No. 50 and a tenant at No. 6 Tirboy be allocated No. 1 Gilmartin road.

This concluded, the meeting

lian,

9th October, 1987.

#### TO THE CHAIRMAN AND MEMBERS OF TUAM TOWN COMMISSIONERS.

RE: ESTIMATE OF EXPENSES, 1988.

Dear Chairman and Members,

I attach herewith Estimate of Expenses which will be considered at Estimate Meeting to be held in the Town Hall, Tuam at 8.00 p.m. on 21st October, 1987.

The Estimate shows variations from last year under a number of headings, and it has been necessary to curtail expenditure as far as possible because of a decline in receipts from housing annuities and from income from investments.

During the current year the gross rate obtainable from investments was 13%, but the most optimistic estimate for reinvestment in the coming year would put the rate between 9% and  $9\frac{1}{2}$ %. After deduction of DIRT Tax the higher rate would produce a net 6.175%.

In the circumstances the Commissioners are still in a difficult financial situation which allows for the very minimum of expenditure.

The comulative effect of various adjustments produces a rate of 74.96p in the £ as compared with 68.83p in the £ for the current year.

Yours faithfully

ACTING ASSISTANT COUNTY MANAGER.

# ESTIMATE OF EXPENSES FOR THE YEAR TO 31/12/1988.

	ESTIMATE	ESTIMATE	
	YEAR ENDED. 31/12/1987	YEAR ENDING 31/12/1988.	S
081762			
HOUSING:-	£	£	
1. Repairs.	13,000	12,000 12500	
2. Legal Expenses.	200	200	
3. Insurance.	3,500	4,000	
4. Town Clerk's Salary (50%)	1,900	1,900	?
5. Town Engineer's Salary (80%)	1,760	1,835	
6. Town Steward's Pension (80%)	880	900	
7. Other Pensions.	2,000	1,750	
8. Printing, Postage, Stationery and Advertising.	250	250	
9. Collectors Commission.	2,800	2,200.	
TOTAL:-	26,290.	25,035	
Transfer tran Bankrysa			
GENERAL:-	6,300		
1. Rents, Rates, Taxes and Insurance.	2,000	2,000	
2. Office Expenses.	1,000	900	
3. Solicitor's Costs	60	60	
4. Town Clerk's Salary (50%)	1,900	1,900.	
5. Town Engineer's Salary (20%)	440	460.	
6. Town Steward'a Pension (20%)	220	250.	
7. Audit Fee	600	650.	
8. Printing, Postage etc.	500	400.	
9. Town Hall Repairs.	1,000	900.	
10. Town Hall Cleaner.	120	120.	
11. Clock Maintenance.	150	150.	
12. Municipal Authorities	1,000	800.	
13. Town Lighting.	300	300.	
TOTAL:	9,290	8,890	
GRAND TOTAL - EXPENDITURE:	35,580	33,925.	<b>受</b> 無形態

## RECEIPTS

Miles to show.				
200002	ESTIMATE YEAR ENDED 31/12/1987	ESTIMATE YEAR ENDING 31/12/1988		Co
HOUS ING: -	£	£	16	3
index state and the state are			Control of the	
1. Rent.	7,000	7,000		
2. Annuities.	9,000	8,000		
3. Ground Rents	50	25		
TOTAL:-	16,050	15,025.		
		20		
OTHER INCOME:-		<b>)</b>		
	~ U			
1. Town Hall	2,500	2,000		
2. Licences	-	=		
3. Interest.	4,000	3,000		
4. Transfer from Reserves.		<u>-</u>		
TOTAL:-	6,500	5,000		
GRAND TOTAL:-	22,550	20,025.		
(7)				
The same of the sa	a for beautiful times	w-Copiesto J. F.		
ESTIMATED EXPENDITURE FOR YEAR.	35,580	33,925		
ESTIMATED RECEIPTS FOR YEAR.	22,550			
RECEIPTS FOR ILAK.	22,550	20,025.		
A less toner Biggins grate	13,030	13,900.		
Author on fire struty was	Below refer of	ad the world by his		
A REAL PROPERTY AND THE PROPERTY OF THE PROPERTY	At the total and the same of t			

TUAM TOWN COMMISSIONERS TOWN CLERK'S OFFICE. Tel.: 24246 TOWN HALL, TUAM. 28th October, 1987 To each Town Commissioner. The Monthly Meeting of the Tuam Town Commissioners will be held Tuesday, 3rd November, 1987... at 8.00 p.m. You are hereby summoned to attend. Mise le meas, a Nolean Baile Cleireach. AGENDA Minutes mmissioner st October Manager's Business Correspondence further the inferor ted that JINITY COUNT for County Council ents can be dangerous where people aid the theme for a The water mey due. varnings. be cut iested that ing granted that the two the car park and Cloonthue be moved. Replying to the Chairman Mr. Gleeson said the request is still there to oundary: have the item on the agenda for Galway County Council. Commissioner Browne asked if there was any progress in the request to of Motion: bring the Taoiseach to Tuam. The Clerk was instructed to write to the Taoiseach. rigade Commissioner Biggins stated that Fire Safety week ran from the 5th to the 12th October. A letter from the Chief Fire Officer was read. A

ing on Weir

seminar on fire safety was being arranged, and he would bring a date for the seminar to the next meeting of the Board.

Commissioner Kelly asked the Acting Assistant County Manager to have

a building on the Weir road, which has been idle for some time, to be investigated.

Commissioner Biggins proposed and Commissioner O'Mara seconded the

adoption of the minutes of the September meeting.

Commissioner O'Grady proposed and Commissioner O'Mara seconded the adoption of the minutes of the meeting held on the 10th August.

Minutes of meeting held on Tuesday 6th October, 1987

Chairman: P. M. Stapleton

Commissioners: M. O'Grady, G. Browne, J. O'Mara F. Biggins, J. Flaherty, N. Halion, M. Kelly

Mr. Edmund Gleeson, Acting Assistant County Manager

The Prayer was recited.

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Houses:

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ittee:

of Motion:

It was proposed by Commissioner O'Grady and seconded by Commissioner Biggins that the Estimates meeting be held on Wednesday 21st October, 1987.

Reply to Commissioner O'Grady, Mr. Gleeson said there was no further developments as regards the sererage problem at Millstream Park, but he agreed to persue the matter.

This item was discussed at length. All present condemned the inferor water being supplied to the Town. Commissioner Browne stated that the Irish Government could be summonsed, under E.R.C. Iaw, for supplying inferior type water. The members called on the County Council to have the water filtered and to investigate how improvements can be made untill a new supply can be brought to the Town.

The members also appealed to the County Council to stop the dangerous practice of pouring quick setting concrete on to stopcocks where people are not paying the water charges. Mr. Gleeson replying said the County Council have been advancing plans for a new water scheme for a number of years. Legal procedure had to be gone through. The water is constantly being checked by an analysist and is fit for human consumption. There is a county wide compaign to collect money due. People who had their water supply cut off had ignored all warnings.

The Chairman requested that a tree at No. 1 Gilmartin road be cut down and that trees at "The Glebe" be pruned. He also requested that in future Tenants be asked to remove refuse, etc, before being granted the Tenancy of another house. Commissioner O'Grady asked that the two families at the car park be housed and that all caravans at the car park and Cloonthue be moved.

Replying to the Chairman Mr. Gleeson said the request is still there to have the item on the agenda for Galway County Council.

Commissioner Browne asked if there was any progress in the request to bring the Taoiseach to Tuam. The Clerk was instructed to write to the Taoiseach.

Commissioner Biggins stated that Fire Safety week ran from the 5th to the 12th October. A letter from the Chief Fire Officer was read. A seminar on fire safety was being arranged, and he would bring a date for the seminar to the next meeting of the Board.

Commissioner Kelly asked the Acting Assistant County Manager to have a building on the Weir road, which has been idle for some time, to be investigated.

Commissioner Biggins proposed and Commissioner O'Mara seconded the adoption of the minutes of the September meeting.

Commissioner O'Grady proposed and Commissioner O'Mara seconded the adoption of the minutes of the meeting held on the 10th August.

Commissioner O'Mara proposed and Commissioner Biggins seconded the adoption of the minutes of the meeting held on the 12th August.

Commissioner Kelly proposed and Commissioner 0  $^{\circ}$  Mara seconded the adoption of the minutes of the meeting held on the 18th August.

of vacancy: Commissioner O'Grady withdrew his Notice of Motion and proposed that Commissioner Burke be appointed to fill the vacancy caused by his resignation. Commissioner Biggins seconded the proposal.

ondence: Letters were received from the following:

T. A. O'Donoghue & Son requesting consent to the sale of No. 80 Athenry road, Tuam. It was proposed by Commissioner Kelly and seconded by Commissioner Flaherty.

Marian Choral Society - read

Mr. Tom Gilmore - read

A Civic Reception to be held on Friday night 10th October, for the All-Ireland Galway Hurling Team.

Monaghan Urban District Council, requesting support for the following Notices of Motion:

1. That this Council protest to An Bord Telecom at the abolition of a fixed charge for local telephone calls and the introduction of a metered charging system for same.

2. That this Council request the present Government to review and postpone the Extradition Legislation which it proposes to adopt in December, 1987.
There was unanimous support for this Motion.

ad Junction: Commissioner Kelly queried when the Traffic lights would be installed at the Weir road.

A vote of Sympathy was passed with the following families:

Walsh Family on the death of May Grogan
Noel O'Donoghue on the death of Mrs Jenny O'Donoghue
Philip Joyce on the death of Mrs. Mary Joyce
Mrs. B. Moggan on the death of Paddy
Falty Family on the death of Michael Murphy
Warde Family on the death of Martin
Ms Deirdre Fitzsimons on the death of Fr. Fitzsimons
Geraghty Family on the death of Edward

This concluded the meeting

d by: Holian,

CHATRMAN

#### Minutes of Meeting held on Tuesday 1st September,

Chairman: P. M. Stapleton

Commissioners: J. Flaherty, J. O'Mara, G. Browne, M. O'Grady,

N. Halion, F. Biggins, M. Kelly

Mr. John Howlett, Assistant County Manager

The Prayer was recited.

The Clerk read aletter of resignation from Commissioner Burke. letter was delivered by hand at 6 o'clock that evening. All present expressed shock at Commissioner Burke's resignation and paid tribute to his hard work for Tuam over the years. Commissioner Browne proposed and Commissioner O'Grady seconded that the letter of resignation not be accepted by the Board. It was proposed by Commissioner Biggins and seconded by Commissioner Kelly that Commissioner Burke be

asked to reconsider his resignation. The Assistant County Manager, when asked to comment on the matter, stated that Mr. Burke had followed the correct procedure in regard to his resignation by notifying the Town Clerk. If the Town Commissioners wished him to stay on and if he consents to do so, they could co-opt him back to the Board. The Clerk was instructed to write to Commissioner Burke and convey the wishes of the Board to him.

Replying to Commissioner Browne the Chairman said he had withdrawn from the Palace grounds Committee.

Replying to the Chairman the Manager siad it is normal procedure for the Chairman to convene a meeting or any five members may convene a meeting.

Replying to Commissioner O'Grady re: Millsteeam Park, Mr. Howlett said he had conveyed the views of the Board to the County Manager and

the Planning Department. The matter is still being considered. The Chairman said it was not a major job to correct. The facilities are in the next field and the Council should proceed.

The Chairman also called on the County Council to rectify the problem at Athenry road where after recent heavy rain water flowed through several houses.

The Manager read a report by the County Engineer on the water. Commissioner Kelly presented a sample of water in which there were foreign bodies. He said the water should be filtered. Commissioner Browne said that carcases of animals were being dumped 300 yards from the pumphouse. These animals had died and were probably injected before death. He said the reservoir needs a good scouring out. He called on the County Manager to waive the water rates in Tuam. the new water scheme the Manager said an abstraction order was being drawn up. He refuted recent statements that the water is unfit for Human consumption. There was no prospect of the water rates being waived. The dumping of carcases would be investigated.

Commissioner Biggins asked that a sewerate problem at Barrack Street be investigated.

The bad condition of houses which were let recently was discussed. It was decided to write to the Minister of State re: remedial grants. The Manager pointed out that in the past, under remedial grants, money was only allocated where houses were structurally unsound. Commissioner

ignation:

icials:

ce grounds mittee:

> tes: rage:

COMPA 211- CRONTINE WA GAILLINGE

Kelly proposed and Commissioner O'Mara seconded that a report be prepared on the condition of the houses.

The Chairman paid tribute to the Fire brigade on the manner in which a fire on a bus at Galway road was dealt with.

Brigade mittee:

Commissioner Biggins stated that Fire Safety Week was coming up shortly and a siminer for business people might be arranged. The Manager agreed to persue the matter.

Boundary:

Mr. Howlett said the County Manager needed time to consider the Draft Plan. The Central Statistics Office has been contacted.

The Adoption of the minutes of the August meeting was proposed by Commissioner Biggins and seconded by Commissioner O'Grady.

espondence: Letters were received from the following:

An Post - read Several members said they had received complaints from people in the past few days re: the shortage of staff at the Post Office. It was decided to write to the Postmaster.

County Sound Radio - read Chamber of Commerce - read

on of Motion:

Commissioner Browne spoke on his Notice of Motion re: Replacement Industries for the Sugar factory, the Water scheme and the Sewerage scheme.

He said it was essential to get the Taolseach to Tuam. Tuam is a most disadvantaged area and several Industries are needed to compensate for the loss of the Sugar Factory. There was unanimous support for the motion.

athy:

A tribute was passed to the late Mary Dwyer. Mrs Dwyer worked as Town Clerk many years ago as did her sister and brother.

A vote of sympathy was also passed with the Wilson family on the sudden and tragic death of Pauline. A vote of sympathy was also passed with the following:

Forry family on the death of Martin Harrington family on the death of Maura Kelly family on the death of Richard Hession family on the death of Mrs Brown

concluded the meeting

bv: Holian Clerk

## COMHAIRLE CHONTAE NA GAILLIMHE

Re: Tuam Water Supply

Do Thes Mo Thes County Engineer

RK/MH

Following the cloud burst and thundery rains of the evening of Wednesday the 19th August, complaints were received about the quality of water provided in that part of Tuam town served by the Tobernanny Spring in Ballymoat. This was a recurrence of previous experiences of adverse taste, colour and odour problems which had arisen before, when heavy rainfall occurred after a dry period.

One section of the springs is susceptible to the flushing action of such heavy rains and can be isolated in these circumstances to avoid contamination of the remaining springs. In normal circumstances, abstraction is made from all of the contributing springs in order to satisfy demand.

However on Wednesday the 19th of August, thundery rain fell in the Tuam area late in the evening, abruptly and with great intensity, before preventative measures could be put into effect. All remedial measures have since been taken to restore supply to normal. All the time, the water was chlorinated and analyses of samples indicated that a chlorine residual was maintained as required.

Bacteriological analyses by the Public Analyst of samples collected by the Health Inspectorate in Millstream Park and Vicar Street on Wednesday the 26th of August indicate conclusively that the water quality is good and very satisfactory.

County Engineer

1 [diversity very low]

Bad

Unsatisfactory

No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of

187

as regards the likelihood of interference with existing or potential beneficial uses

The scheme relates mainly to the effects of biodegradable organic wastes but where a toxic effect is suspected the suffix 0 is added to the biotic index, e.g. 3/0 or 1/0. It should also be

noted that the tables below show intermediate biotic index values (e.g. 3-4 or 1-2); these are indicative of lesser changes in quality than would be implied by a unit change in index.

#### **PREFACE**

This second volume of the two-part report: Water Quality in Ireland — The Current Position, contains the collated data from both physico-chemical and biological surveys on which the river water quality assessments and discussion in the first part are based. Apart from this introductory section, the pages below are devoid of text and hence this volume is essentially a reference work. For ease in its use, therefore, all the rivers covered by the report are presented below in one alphabetical list.

As explained under the heading "Acknowledgments and Personnel" above, the bulk of the physico—chemical data has been provided by monitoring programmes operated by local authorities themselves or on their behalf of by An Foras Forbartha. The remainder of these data, along with all the biological data, have been generated by A.F.F. survey programmes.

#### Presentation of the Data

In the tables below it has been considered most convenient to set out the biological and physico-chemical data in successive tables, irrespective of origin, in a uniform format. For each river there appears first a table of sampling stations for which biological and/or physicochemical results are presented. Details of each station (which have been set out with specific reference to the One-Inch O.S. Maps) are preceded by the reference number of such station as contained in the national register of river water quality sampling stations compiled by A.F.F. The numbering system has been designed to incorporate local authority, A.F.F. and any other monitoring stations which may be set up, and it is capable of virtually indefinite expansion.

This initial table also contains biological water quality data presented on a cumulative basis, in many cases from 1971 onwards. It is important to note that all biological measurements reported below were made in summertime surveys when river flows are normally at a minimum. The system of biological assessment is explained concisely below.

Where (as in most cases) physico-chemical data are available a second, three-part, table appears in which are set out on a station-by-station basis collated data for a comprehensive range of parameters. For each determinand the minimum, median and maximum values recorded over the three-year period 1983-85 are given. The absence of this table or of data under a particular parameter heading indicates that no measurements were made in the period under review.

#### The Biological Data

The biological assessment method relies on the characteristic changes exhibited in the presence of pollution by the communities of invertebrate organisms ("macroinvertebrates") inhabiting the stony substratum of the faster flowing reaches of rivers and streams. These changes are due to the varying sensitivity to pollution displayed by the different types of organisms and the overall effect is a reduction of diversity as pollution increases. Thus it is possible to recognise a number of community types, each characteristic of a general level of pollution. These are used in a scheme of biotic indices of water quality, as follows:

Biotic Index ['Q' Value]	Water Quality	Condition*
5 [diverse community]	Good	Satisfactory
4 [diversity slightly reduced]	Fair	Satisfactory
3 diversity significantly reduced	Doubtful	Unsatisfactory
2 Idiversity lowl	Poor	Unsatisfactory
1 [diversity very low]	Bad	Unsatisfactory

as regards the likelihood of interference with existing or potential beneficial uses

The scheme relates mainly to the effects of biodegradable organic wastes but where a toxic effect is suspected the suffix 0 is added to the biotic index, e.g. 3/0 or 1/0. It should also be

noted that the tables below show intermediate biotic index values (e.g. 3-4 or 1-2); these are indicative of lesser changes in quality than would be implied by a unit change in index.

## Results of Physico-Chemical Analysis

The physico-chemical data are, as mentioned, presented as minimum, median and maximum values in terms of the units listed below; the latter are those conventionally used in water quality assessment laboratories. As stated, the contents of this volume essentially comprise analytical data — the assessments of water quality both for individual rivers and for regions or catchments are given in detail in Part One, to which reference should be made.

The following are the units used for the physico-chemical parameters reported throughout the tables below:

Parameter	Unit of Results
Conductivity	μS/cm
pH	pH units
Colour	Hazen units
Alkalinity	mg CaCO <sub>3</sub> /litre
Hardness	mg CaCO <sub>3</sub> /litre
Dissolved Oxygen	% saturation O <sub>2</sub>
B.O.D.	mg O <sub>2</sub> /litre
Ammonia (total)	mg N/litre
Chloride	mg Cl/litre
Ortho-Phosphate	mg P/litre
Oxidised Nitrogen	mg N/litre
Temperature	deg C
of the secretary want was	and the collins are by

The assessment of the significance of the various levels found for the different parameters is a relatively complex matter as it is necessary to take account of the quality standards and guidelines for waters used for different purposes laid down by such bodies as the E.E.C. Council or the World Health Organisation. However, the following general observations may be of use in the interpretation of the data presented. As in the table above, the physico-chemical parameters are presented in the order in which they appear in the data tables below.

## 1. Conductivity

This reflects the total dissolved solids present in the water (mainly alkalinity/hardness constituents) and hence levels in rivers may be quite high – in the  $400-700~\mu\text{S/cm}$  range.

#### 2. pH

The pH scale ranges from 0 [very acid] to 14 units [very alkaline]. Values found in unpolluted surface waters are generally in the range from 6.5 to 8.5, most Irish waters being slightly alkaline in pH. [The "neutral" pH value is 7.0].

#### 3. Colour

The natural colour of a water (yellowish-brown) varies with the amount of dissolved vegetable (humic) matter present. Peaty waters will be very highly coloured; ground waters virtually colour-free. A feature of this parameter in rivers is that in times of flood the normal (i.e. non-flood) maximum levels may be multiplied by a factor of three or more — an important consideration where the river is a source for domestic or industrial use.

#### 4. Alkalinity

Related to hardness, this parameter will range from negligible levels up to around 350 mg/l CaCO<sub>3</sub>. For various reasons it does not follow that a water with a high alkalinity will be strongly alkaline in terms of pH.

## 5. Hardness

The principal influence on the hardness of a river is the geology of the terrain over and through which its waters flow. In limestone areas rivers will be very hard (up to 400 mg/l CaCO<sub>3</sub>), while in granitic areas there may be virtually no hardness.

## 6. Dissolved Oxygen [D.O.]

This is one of the most important of all parameters in a river water in that its level will determine whether or not fish life is affected in any way. For game (salmonid) fishery waters minimum levels should not fall below 50% saturation O2, and median levels should be in the 90-100% range. Levels of "supersaturation" can also occur - in the most extreme cases up to 200% saturation - and these are indicative of plant growth arising excessive eutrophication (over-enrichment of the waters with nutrients). The danger to fish here is that the abnormally high daytime levels may be mirrored by correspondingly low values at night, the latter posing a risk of fish-kills.

7. Biochemical Oxygen Demand [B.O.D.]

Depletion of oxygen in waters may be attributable to such causes as algal respiration, oxygen uptake by contaminated muds, and the exertion of B.O.D. The last is a measure of biodegradable organic matter present in a water. This matter is digested by the resident bacterial population of the water with an accompanying consumption of oxygen. The B.O.D. value is therefore an indication of the extent to which the D.O. of the water may be depleted by this bacterial action. The qualification is made because in many instances the actual D.O. depletion is less than expected as a result of reaeration as the water passes over rapids or weirs, or as a consequence of the production of oxygen by photosynthesis. River waters with a B.O.D. in the range 0-4 mg/l O₂ are considered unpolluted; values of 5 and above indicate increasing levels of pollution.

#### 8. Ammonia

Elevated (i.e. above 0.1–0.2 mg/l N) values for total ammonia indicate pollution, very often from sewage discharges. When the values exceed the range 0.4–0.5 mg/l N, especially on a continuing basis, there is a toxicity danger to fish

#### 9. Chloride

Values for this parameter much above 25–30 mg/l Cl indicate, first, the possible presence of waste matter and, second, (if values are in the hundreds or thousands of mg/l) that the water is tidal. In the tables below the maximum value shown [999 mg/l Cl] is not a true value, rather it is an indication of significant tidal effects.

## 10. Ortho-Phosphate

Eutrophication, mentioned above, is the term given to enrichment by plant nutrients such as

ortho-phosphate (considered to be the most readily "available" form of the element phosphorus) and nitrate. Both are constituents of natural and artificial manures, and of sewage effluents (especially when highly treated), and in a watercourse they have a fertilising effect, promoting the growth of green algae and rooted plants (macrophytes). It is the ortho-phosphate which is the major enrichment factor. Levels of ortho-phosphate in rivers are normally below. 0.05 mg/l P and values above this - especially when accompanied by supersaturated D.O. levels - may indicate more or less serious eutrophication. It should be noted that the critical limit values for ortho-phosphate in lake waters is considerably lower.

#### 11. Oxidised Nitrogen

As determined, this parameter is the sum of the nitrate and nitrite concentrations, expressed as mg/l N. But as the latter is normally less than 1% of the former, the results given below may be as nitrate values. River nitrate concentrations vary considerably and it is not easy to draw firm conclusions from individual or grouped sets of results. Instead, it is an examination of the *trends* in nitrate levels which is most significant [cf. Part One of this Report]. The most commonly quoted limit for nitrate in water is 11 mg/l N, which is that for drinking waters consumed by infants up to 6 months in age. This value, however, is extremely high in environmental terms. In fact, where river water levels are greater than 3-4 mg/l N artificial enrichment is likely to have occurred.

#### 12. Temperature

Except where there are thermal discharges (as of cooling waters from power stations, for example), temperature is a function of climatic conditions. The maximum river temperature in a warm Irish summer is around 25 deg C.

what's wrong with the present Committee. Major improvements had been carried out by the Palace Grounds Committee and he supported them in their work.

at	Orth	o-Phos	ohate	Ox.	Nitro	gen		Ter	nperat	ure
).	Min	Med	Max	Min	Med	Max			Med	
00	0.030	0.115	0.140	0.46	0.58	3.84			14.5	
00	0.020	0.065	0.160	0.45	0.52	4.79			15.0	
00	0.020	0.045	0.160	0.41	0.45	5.12			16.0	
00	0.030	0.090	0.200	0.48	0.56	4.25			15.5	
00	0.020	0.065	0.110	0.59	0.77	4.47		15.0		19.0

# RIVER: NANNY (Galway)

## Sampling Stations and their Biological Quality Ratings

AM	PLING STATIONS	BIOLOGICAL QUALITY RATINGS (Q VALUES								
lo.	Location	1973	1975	1977	1979	1981	1983	1985		
							7	-		
	Bridge N.E. of Stripe	ns and their	9-010g	CH CIL	- 180	4	5	-		
060	Br. S. of Bermingham Ho.		-	-	_	-	<u> </u>	4		
100	1.5 km u/s Tuam	_	(T) I O	OTT DE	CELATI	5	5	4		
200	Tuam: C'morris/Galway Rd	_	1278	-	-	4	3-4	4		
300	Weir Br., u/s Clare R.	1-2	1	1	1	1	1	1-2		

#### Results of Physico-Chemical Analysis: 1983-1985

	at		nducti	•		pH Val			Colour			Ikalinit		Т.	Hardne	ess
0		Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max
-	00		518		7.0			20					372			
	00	350	570	660	7.0	7.8	8.1	15					340			340
3	00	285	600	728	7.0	7.5	7.9	15	30	100	150	292	340	240		
t	at		D.O.	(%satn		В.	.O.D. V	alue		Tota	l Amr	nonia			Chlorid	е

D.O. (%sa		_	.D. Va			Tota	Amm	nonia		Chlorid	e	
Iviin Med	Max	Min	Med	Max	Mi	n	Med	Max	Min	Med	Max	
64 87	114	0.3	1.4	2.7	0.00	5 (	0.020	0.260	15	20	27	
65 82	118	0.4	1.6	15.8	0.00	5 (	0.040	1.700	15	21	28	
8 59	94	1.7	4.5	30.0	0.01	0 (	0.390	7.000	16	23	29	
Orth	o-Pho	sphate			Ox.	Nitro	gen		Ter	nperat	ure	
Min	Med	Max			Min	Med	Max		Min	Med	Max	
0.005	0.005	0.160	1		0.02	0.69	2.97		4.0	10.0	21.5	
. 0.005	0.020	0.409	1		0.07	0.89	3 20		40	100	21.0	

1.07

3.59

22.5

10.0

# RIVER: NANNY (Meath)

0.040

## Sampling Stations and their Biological Quality Ratings

MPLING STATIONS	BIOLO	OGICAL	QUAL	ITY RA	TINGS	(Q VALUES)
Location	1971				1982	
0 Bridge at Kentstown	ico - Chami	aal Ans	dysis :	3	2	3
Al Balrath Cross Roads	-	-	_	3-4	2-3	3
of Deenes S S W of Dulock	5	4-5	3-4	3	1-2	2
Duleek Bridge	4-5	3-4	4 .	3-4	4	3-4
Bridge near Bellewstown House	3	1-2	3	3	3-4	3-4
Beaumont Bridge		- 70	778	3-4	3	3-4

#### RIVER: CLADY (Donegal)

#### Sampling Stations and their Biological Quality Ratings

THE STATIONS	DIOLOGICAL OL	IALITY DATING	C (O VALUEC)
SAMPLING STATIONS	BIOLOGICAL QU		
No. Location	1973 19	77 198	0 1985
0150 Bryan's Bridge, Gweedore	70 175 196	4	4
0175 Ford S. of Lough Clogher	5+ 5+	- 5	5
0200 Bridge u/s Bunbeg	4-5 4-	-5 5	4-5

+ Sampling location 1 km d/s in 1973/77

## RIVER: CLADY (Meath)

## Sampling Stations and their Biological Quality Ratings

SAMPLING STATIONS	BIOLOGIC	CAL QUALITY RATINGS (Q	VALUES)
No. Location	1978	1981 1983	1985
0100 Dunderry Bridge	0.010 0.06	_ 2	2
0200 At Ballybrigh House	3-4	3 2	2-3
0300 Bridge u/s Boyne R. confluence	0.025 0.03	3-4 3-4	3

# RIVER: CLARE (Galway)

# Sampling Stations and their Biological Quality Ratings

AMPLING STATIONS	BIOLO	GICAL	QUAL	ITY RA	TINGS	(Q VAL	UES)
o. Location	1973	1975	1977	1979	1980	1982	1985
100 Br. 1.5 km u/s Milltown	4	6 2.2	4	_	4	70 1	3-4
200 Liskeevy Bridge	5	3 2.0	4	_	4	_	4
300 Fartamore Bridge	1.0	- 20	_	_	5	-	4
400 Kilcreevanty Bridge	- 100 m	0-00	_	_	5	-	4
500 Ballygaddy Bridge	5	4	4	4	4-5	-	4
600 • Weir Br. [d/s Nanny R.]	0.10-1.1	0-38	-	-	-	(E)	
650 100 m d/s 0600 [L.H.S.]	3	3-4	4	4	3-4	3	3
700 Killeelaun Bridge	3	3-4	4	4	4	4	3
800 Corofin Bridge	4	4	4	4	4	3-4	4
900 Br. W. of Dawros House	_	-	-	-	4	3-4	3-4
000 Br. S.W. of Turloughmore	-	-	_	_	_	-	-
100 Cregmore Bridge	_	-	_	-	4	-	3-4
200 Claregalway Bridge	-	-	5	_	4	- ,	3-4
300 Curraghmore Bridge	PLAREN	-	-	-	4	-	4

## Results of Physico-Chemical Analysis: 1983-1985

Stat	Conductivity		pH Value		Colour		Alkalinity			T. Hardness					
No.	Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max
0100	380	527	600	7.1	7.7	8.1	-30	60	150	156	232	272	200	264	304
0200	400	530	590	7.5	7.9	8.1	30	70	150	172	244	284	220	276	332
0300	420	525	610	7.5	7.9	8.1	30	70	175	172	248	272	208	268	304

Col	nductiv	vity		pH Val	ue	(	Colour		Al	kalinit	*		Hardne		
Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max	Min	Med	Max	
410	532	610	7.5	7.9	8.1	30	70	175	176	244	276	216	274	312	
410	525	610	7.5	8.0	8.3	30	70	175	178	252	280	216	280	308	
420	537	650	7.5	8.0	8.1	30	70	175	180	250	288	212	272	292	
420	542	625	7.5	7.9	8.1	30	65	175	180	251	296	212	276	320	
430	549	650	7.5	8.0	8.5	30	70	150	180	244	288	204	278	370	
420	541	652	7.6	8.0	8.5	30	70	175	186	252	288	224	272	344	
423	530	640	7.6	8.0	8.3	30	70	150	190	240	284	216	276	312	
417	540	630	7.5	8.1	8.6	40	70	150	188	240	284	212	268	304	
372	534	640	7.5	8.0	8.5	30	70	150	196	248	280	212	268	308	
430	530	650	7.5	8.0	8.3	30	70	150	204	244	304	220	272	340	
	D.O.	(%satr	1)	В.	O.D. V		d		al Amn				Chlorid		
1		-	Max	Min	Med	Max	( 1	<b>Min</b>	Med	Ma		Min	Med	Max	
	57	79	100	0.6	1.3	4.9	0.0	005	0.052	0.14		16	20	25	Þ
	65	82	126	0.4	1.4	2.9		005	0.045	0.1		16	20		
	60	84	130	0.3	1.3			005	0.030	0.1		16	20	25	
	69	84	116	0.3		2.9		005	0.040	0.1		16	20	25	•
	68	84	108	0.4				005	0.030	0.1		16	20	27	
	44	84	104	0.1				005	0.040	1.0		16	20	27	
in class	44	79	94	0.8				005	0.060	0.6		15	20		
	46	82	120	0.6				010	0.060	0.4		16	20	24	
	46	84	144	0.5				010	0.035	0.4		15	20	24	
	61	87	128	0.6				005	0.035	0.3		15	20	23	
	63	90	124	0.5				005	0.030	0.3		15	20	23	
	62	90	138	0.6				005	0.030	0.2		16	20	23	
	58	87	112	0.6	1.5	3.:	2 0.	005	0.030	0.1	50	15	21	33	
		Ortho	o-Pho	sphate			0	x. Nit	rogen	80.00			mpera		
	BIG	Min	Med	Ma	x		Mi		d Ma			Min	Med	Max	
	0.	005	0.020	0.20	00		0.4					3.5	7.5	18.0	
	0.	005	0.020	0.0	39		0.5	A				4.0	7.5	19.0	
	Ó.	005	0.020	0.0	70		0.5					4.0	7.0	18.0	
	0.	005	0.020	0.1	00		0.5					3.5		18.0	
	0.	.005	0.020	0.0	80		0.5	_				4.0			
	0.	.005	0.020	0.1	00	I SIN	0.5		1 1 1 1 1 1 1 1 1 1 1	16 July 10 1		4.0			
	0.	.005	0.020	0.0	80	100	0.5					4.0			
		.010	0.025	0.0		10	0.2					4.0			
		.005	0.020		20	stl b	0.2					4.5			
		.005	0.030				0.1					1.0			
		.005	0.020		50	e sin	0.1					4.5			
	0	.005	0.020		50		0.1				The state of the s	4.5			
		.005	0.015	0.0	40		0.0	7 1.0	08 1.8	19		4.5	9.5	21.0	

#### **RIVER: CLAREEN**

Sampling Stations and their Biological Quality Ratings

AMPLING STATIONS  0. Location	BIOLOGICAL QUALITY RATINGS (Q VALUES)					
300 U/s Nenagh River confluence	orin this policied retingent to an abatement of se					

Level 1981

the lower reaches of the Graney and Hind Rivers. In these cases the observed deteriorations may be associated with towns and/or industries. In the upper Ballyfinboy, the Cloonlyon, the Groody and the upper Dead Rivers the recent deteriorations appear to be related to agricultural sources of wastes. Most of the increase in Class B channel is due to increases in slight as distinct from moderate pollution.

#### Western Region (Table 2.12)

2.56 A total of 81 rivers and streams have been surveyed in the region in the 1982–86 period; channel length involved is 900 kilometres (Table 2.1). Twenty eight of these rivers and streams had not been previously surveyed. Of the length recently surveyed 82 per cent (739 km) is classed as satisfactory, 16 per cent as slightly (9 per cent, 85 km) or moderately (7 per cent, 66 km) polluted and just 1 per cent (10 km) as seriously polluted. This classification does not take account of the bacterial slime infestations which have occurred in the Clare River below Tuam during the winter and early spring months due to sugar—beet processing.

2.57 The great majority (57) of the surveyed river reaches are free of pollution. Waters of a particularly high standard are to be found in the remoter areas of the region e.g. the Bealanabrack, Dawros, Erriff and Owenduff (Blacksod) Rivers, to mention a few (Table 2.12).

2.58 Eighteen rivers and streams stretches, totalling 85 kilometres, which are currently subject to slight pollution. In most (74 km) of these stretches the observed slight pollution is not associated with a more pronounced level of pollution immediately upstream; in four rivers - the Castlebar, Clarinbridge, Dalgan and Tubbercurry - this is the case. Again, most (55 km) of the slight pollution currently recorded was not apparent in the previous period. Rivers having stretches which are currently slightly polluted but which were previously satisfactory include the Clare (21 km), the Dalgan (14 km), the Robe (8 km) and the Manulla (8 km) Rivers.

2.59 Moderately polluted stretches, totalling 66 kilometres, are currently to be found in 14 rivers in the region. In two cases — the Dalgan and the Swinford Rivers — this pollution is associated with a more serious level of pollution upstream; in the majority of cases it is not. Approximately half (29 km) the channel length currently assessed as moderately polluted was also in this condition in the previous period; most of the remainder was previously either satisfactory (4 km) or slightly polluted (22 km) and a smaller proportion (7 km) had been previously seriously

polluted. Rivers in which moderate pollution was previously and is currently recorded include the Castlebar (9 km), the Clarinbridge (12 km), the Clare (5 km), the Kilcolgan (6 km), the Robe (1 km) and the Swinford (1 km) Rivers. The moderately polluted stretches in the Black Clare at Killeelaun and (Shrule). downstream of the Swinford River confluence were previously satisfactory. Deteriorations from a slight degree of pollution have recently taken place in the Dalgan below Ballyhaunis (14 km), the Lough Naminoo Stream below Balla and in the lower reaches (0.5 km) of the Headford River; in contrast, in the Corroy (2 km), Terryland (2 km) and Tubbercurry (3 km) Rivers, improvements from a former serious degree of pollution are currently recorded.

2.60 By national standards the incidence of serious pollution in the region is relatively low; just three rivers, the Dalgan (5 km), Nanny (2 km) and Swinford (3 km) Rivers are seriously and continuously polluted. In the winter months, however, the Clare River has become seriously polluted for approximately 10 kilometres by effluents discharged from the sugar beet factory at Tuam. All of this pollution was also recorded in the previous (1977–81) period.

2.61 The suspected sources of currently observed pollution in the region are set out in Table 2.13 which indicates that all of the observed serious and moderate pollution and approximately half (53 per cent) of observed slight pollution can be associated with wastes from towns and/or industries. Most of the remaining (29 per cent) slight pollution observed seems to be related to agricultural activities; the balance (18 per cent) is attributed to unknown sources.

2.62 A comparison of overall quality in the rivers and streams surveyed in the region in the periods 1977–81 and 1982–86 is set out below.

	a proveduc	A	В	C	Total
1977-81	km	715	69	22	806
	(%)	(89)	(9)	(3)	
1982-86			146	10	802
mar I was a section			(18)		

The figures show a substantial reduction in the extent of seriously polluted channel (Class C) and an equally marked increase in the channel length classified as slightly and/or moderately polluted (Class B). The net reduction by 12 kilometres in the length classified as seriously polluted is due to an abatement of serious pollution in the Castlebar (5.6 km), the Tubbercurry (4.5 km), the Clarinbridge (2.4 km), the Corroy (2 km), the Terryland (1.3 km) and the Moy (0.5 km) Rivers. The total improved channel

ingth involved in these cases is 16.3 kilometres ut set against these improvements are eteriorations in the Dalgan and Swinford Rivers nwhich the length of seriously polluted channel as recently (1982-86) increased by 1.5 and 2.8 ilometres, respectively. Much of the increase in lass B channel length is due to a more videspread occurrence of slight pollution particularly in the lower Clare and Manulla ivers but also in the Dalgan, Abbert, Ballindine, ellawaddy and Black (Shrule) Rivers. Moderate ollution has also become more widespread ecently, largely as a result of the extensive eterioration in the Dalgan River but due also to partial abatement of serious pollution in the astlebar, Tubbercurry, Clarinbridge, Corroy, erryland and Moy Rivers (see above).

North Western Region (Cavan—Monaghan Area) (Table 2.14)

2.63 Twenty one rivers and streams have been surveyed in the Cavan- Monaghan area of the egion in the period 1982-1986; total surveyed channel length is 353 kilometres of which 57 per cent (202 km) is classed as satisfactory (Class A), some 41 per cent is subject to slight (21 per cent, 73 km) or moderate (20 per cent, 70 km) pollution (Class B) and 2 per cent (8 km) is being seriously polluted (Class C) (Table 2.1). With the exceptions of the Blackwater (Newtowngore), the Bunnoe, the Kilnaleck Stream and the Rag River all of the rivers and streams had been previously surveyed. The extent of serious pollution in the area is on a par with the national average of 2 per cent but the extent of slight and moderate pollution is significantly above the respective national averages.

2.64 Table 2.14 shows that only five rivers in the area are free of observed pollution; they are the Blackwater (Newtowngore), Laragh, Swanlinbar, Woodford and Yellow Rivers. Quality in the remote Swanlinbar River is of a particularly high standard. The currently (1986) satisfactory status of the Laragh River represents a significant improvement on its former (1978) condition when it was moderately polluted in the vicinity of Laragh village.

2.65 Approximately half (11) of the surveyed rivers and streams have stretches classed as slightly polluted. The level of pollution is most extensive in the Erne River where approximately 20 kilometres are currently in this condition. It is also relatively extensive in the Blackwater (Monaghan) (14 km), the Dromore (9 km), the Annalee (7 km), the Cullies (7 km) and the Finn (Monaghan) (5 km) Rivers. The bulk (61 km) of the observed slight pollution is not associated with a more pronounced level of pollution

upstream but in the Bunnow, Dromore and Rag Rivers it is. Most of the stretches currently affected by this level of pollution were also similarly affected in the previous period but the slightly polluted reaches of the upper Blackwater (Monaghan) (14 km) and the Knappagh (4 km) were previously assessed as satisfactory.

2.66 Two thirds of the rivers (i.e. 14) surveyed have stretches which are subject to moderate pollution; the total length of channel currently in this condition is 70 kilometres. This level of pollution is quite extensive in the lower Blackwater (Monaghan) (10 km), the Madabawn Stream (9 km), the Bunnoe (8 km), the lower Mountainwater (8 km), the Dromore (6 km), the Rag (6 km), the Cavan (5 km) and in the lower Finn (5 km) Rivers. In general this pollution occurs independently of more serious upstream pollution but in the Bunnoe, Cavan, Kilnaleck, Madabawn and Magherarney Rivers the observed pollution (26 km) is associated with such upstream pollution. Most (i.e. 40 km) of the currently observed moderate pollution was also recorded in the previous (1977-81) period. Recent deteriorations from a formerly satisfactory condition are currently recorded in the Dromore (5 km), the Annalee at Lisclogher (3 km), the upper Cavan (2 km) and the lower Mountainwater (1 km) Rivers. Rivers and streams not surveyed in the 1977–81 period but currently having moderately polluted stretches are the Bunnoe (8 km), the Rag (6 km) and the Kilnaleck Stream (2 km).

2.67 Five rivers in the Cavan-Monaghan area have stretches, totalling 8 kilometres, which are currently assessed as seriously polluted. These are the lower Cavan (3 km), the Magherarney at Smithborough (2.5 km), the upper Bunnoe (2 km), the Kilnaleck Stream (1 km) and the Madabawn Stream (0.5 km). Since 1980 the seriously polluted reach in the Cavan River has shortened (i.e. from 7.5 to 3 km) indicating a considerable improvement in this river. The pollution of the Magherarney at Smithborough has, in contrast, worsened considerably in recent years.

2.68 The suspected sources of the pollution observed are set out in Table 2.15 which shows that most (73 per cent) of the serious pollution in the area can be associated with towns and/or industries; the remainder is apparently due to agricultural sources. Approximately half (57 per cent) of the observed moderate pollution may be associated with towns and industries; most of the remainder (28 per cent) appears to be of agricultural origin but a fair proportion (14 per cent) can be associated with upstream eutrophic lakes. Lakes also appear to be associated with a

2. The report also summarises the results of neasurements made in 1986 of a number of netals and pesticides in 12 rivers flowing into he Irish Sea. With the exception of metal levels not he River Avoca, the degree of contamination with these potential pollutants was low and the nedian concentrations recorded were well lelow limits set for fishery waters and those sed for public supply. In contrast, the River woca showed elevated levels of a number of netals, particularly copper and zinc, a result of he former mining activities at Avoca.

#### AKES

#### General Comments

- 3. The report presents water quality nformation for 90 lakes. This is only a small proportion of the total number of lakes in the country, which has recently been estimated to be of the order of 4,000, and reflects the greater difficulty of sampling such waters compared to ivers and streams. However, the surveyed lakes not not not the larger and more important vater bodies. The bulk of the information presented arises from surveys carried out by A.F.F. and the Central Fisheries Board.
- 4. The main effect of pollution on lakes is autrophication or the over—supply of plant utrients, particularly phosphorus. This leads to excessive growth of green plants. In lakes, the prowth stimulation is characteristically shown by the planktonic or free—floating microscopic algae in the water column. When present in abundance these make the lake water very urbid and they may form surface or shoreline cours. They may also deoxygenate the water, particularly when dying—off, and can liberate substances which impart unpleasant tastes and odours. These effects have adverse implications or water abstraction, fisheries and recreational and amenity uses of lake waters.
- In view of the fact that the increase of algal rowth is the main effect of eutrophication, the vater quality of lakes is best assessed on the Dasis of algal abundance. This is usually done by neasuring the amount of chlorophyll a in the ake water; chlorophyll a is the main green igment in algae and its concentration in the ater is, therefore, a useful estimate of the quantity of algae present. The report classifies he 90 lakes on the basis of the maximum chlorophyll a concentrations recorded in summer and autumn months. Since algal lowth often reaches its peak in these months, leasurements at this time give an estimate of annual chlorophyll maximum oncentration. The latter is one of five Parameters used in a recent classification

scheme devised by an O.E.C.D. working party on lakes. However, because of the lack of suitable data for many of the 90 lakes, classifications have had to be based solely on the estimates of the annual maximum concentrations of chlorophyll a.

16. The modified scheme is shown in Table 4. The first three categories shown (meaning, respectively, poorly, moderately and well supplied with nutrients) were first used to describe natural differences between lakes but in recent decades have been adopted for the purpose of water quality classification. To this end an additional category, hypereutrophic or hypertrophic, has been used to describe those lakes subject to serious pollution and severe over—enrichment. However, as the table indicates, the probability of some pollution is significant even in lakes classified as moderately eutrophic although this category may also include some naturally productive lakes.

TABLE 4

Modified version of O.E.C.D. classification scheme based on values for annual maximum concentratrions of chlorophyll a. Indicators related to water quality are also shown.

Lake Category	- 0	Ann. Maximum Chlorophyll <i>a</i> mg/m <sup>3</sup>	Algal Growth	Probability of Pollution	
Oligotrophic		<8	Low	Very Low	
Mesotrophic	In Wa	8 – 25	Moderate	Low	
	Moderately	26 - 35	Substantial	Significant	
Eutrophic	Strongly	36 - 55	High	Strong	
	Highly	56 - 75	High	High	
Hypereutrophic		>75	Very High	Very High	

# Recent Assessments of the Water Quality of Irish Lakes

17. Using the classification scheme discussed above, the water quality status of the 90 lakes for which recent data are available may be summarised as follows:

Category	Number of Lakes in Category				
Oligotrophic	15*				
Mesotrophic	29*				
Moderately Eutrophic	18				
Strongly Eutrophic	10				
Highly Eutrophic	8				
Hypereutrophic (	11				

\*Upper (oligotrophic) and Lower (mesotrophic) Lough Corrib treated separately.

This breakdown is not likely to be reflective of the national situation because of the relatively small number of lakes surveyed and the lack of data for several areas of the country having large numbers of such waters.

18. Of the group of 90 lakes the 29 classified as strongly or highly eutrophic or hypereutrophic maybe regarded as polluted to a greater or lesser extent. Most of these lakes (Table 5) in which pollution is indicated are small water bodies situated in Co. Cavan. However, this group also includes a number of larger lakes, viz. Loughs Ramor, Oughter, Muckno, Sillan and Sheelin. Point sources of waste affect Lough Muckno and Lough Sillan but non-point sources, particularly agricultural activities, are likely to be responsible for the eutrophication of the other three of this group and of that in most of the smaller lakes affected. The other large lakes in the group of 90, which account for most of such waters in the country, have generally low or moderate levels of algal growth and seem unaffected or only slightly affected by eutrophication. Particularly notable in this group are Loughs Allen, Carra, Corrib (Upper), Gill, Mask and Owel and Blessington (Pollaphouca) chlorophyll Maximum Reservoir. concentrations in these lakes indicate an oligotrophic or lower mesotrophic status.

19. Improvements have been noted in recent years in the conditions of Loughs Ennell, Leane and Sheelin, following the implementation of remedial measures to counteract eutrophication. In the case of Lough Sheelin this has had a beneficial effect on two downstream lakes, Loughs Kinale and Derrravaragh. In contrast, the condition of Lough Derg, the largest Shannon lake, appears to have deteriorated in recent years, the level of algal growth recorded in the period 1982–1986 being substantially greater than that observed in a survey carried out in the 1976–1978 period. The reason for this change is not yet clear.

## Other Aspects

20. The report draws attention to the possibility of using remote sensing, either by satellite or aircraft, to monitor lake water quality, particularly algal growth. This approach would

be particularly useful in Ireland where available resources are unlikely to be sufficient to survey directly more than a small proportion of the approximately 4,000 lakes in the country. A short account is given of a pilot study of the use of data from the LANDSAT series of satellites to measure chlorophyll a and water transparency in Irish lakes which was carried out jointly by A.F.F. and U.C.D. The study results showed a correlation between measurements made directly on lakes and satellite—acquired data which could form the basis of a system to predict conditions in many other lakes without direct measurement.

21. Recent studies by A.F.F. of naturally acidic lakes in Counties Galway and Wicklow are described. These studies, which were partfunded by the E.E.C. Environmental Research Programme, were undertaken to establish baseline conditions for Irish lakes of this type. Such lakes have little capacity to neutralise acid and are thus very sensitive to artificially acidified precipitation ('acid rain'). In parts of Scandinavia and the north-east of N. America, many lakes of this type have lost or suffered damage to their fish stocks because of the effects of 'acid rain'. The results of the A.F.F. study indicate that the Galway lakes are unaffected by 'acid rain' thus offering a good baseline against which future trends may be assessed. The biological characteristics, especially, of Glendalough Lake Upper in Wicklow suggest that this lake is subject to a moderate degree of artificial acidification. This conclusion is supported by other A.F.F. studies which show above normal levels of acidity in precipitation on the east coast when winds are from the east or north-east.

## ESTUARINE AND COASTAL WATERS

#### **General Comments**

22. It has been estimated recently that over 80 per cent of the total amount of waste discharged systems and from sewerage manufacturing industry directly enters estuarine or coastal waters. This input seems to have had less effect on such waters than the much smaller discharge in inland areas has had on freshwaters, mainly reflecting the much greater dilution which is usually available in estuaries and coastal marine waters. However, localised problems of water pollution occur in tidal waters, particularly in urban areas, due to poor dispersal of discharged waste.

what's wrong with the present Committee. Major improvements had been carried out by the Palace Grounds Committee and he supported them in their work.

#### Minutes of a Special Meeting held on 18th August 1987

Present:

Chairman: P.M. Stapleton

Commissioners: J. Flaherty, J. Burke, F. Biggins, M. Kelly,

N. Halion

Deputation:

Mr. Simon Mc Grath, Chairman Tuam Community Council Mr. Michael Mc Grath, Vice-Chairman Tuam Community Council Mr. Eamonn Geraghty, Chairman Palace Grounds Committee Miss Carmel Steward, Former Chairwoman Tuam Community Council Miss D.D. Forde, Secretary Tuam Community Council

The Prayer was recited

The Chairman welcomed all present. He said the usual procedure was that a deputation made their case and then left. Commissioner Biggins proposed and all agreed that the Community Council members remain that an open discussion take place.

Mr Michael Mc Grath said the Community Council were disappointed at the lack of support of Tuam Town Commissioners for the Community Council. He said the Palace Grounds Activity was taken over by the Community He said the Palace Grounds Activity was taken over by the Community Council about four years ago. The grounds were then in an undeveloped

The Palace Grounds Committee enjoyed excellent relations with the County Council, the County Manager and Town Engineer. They had great Community Spirit untila year ago when a particular County Councillor began to question the role and work of the Park Committee which was a sub-committee of the Committee Council which was appointed to run the Palace Grounds.

Mrs Carmel Steward said that she was shocked and disappointed that the Chairman of Tuam Town Commissioners was appointed to represent the Board on a new committee to run the Park/Palace grounds.

Mr Eamonn Geraghty said that a new scheme employing seven people was to start shortly with a £20,000 grant. Now that the Community Council

were not in charge of the work.

A Board Failte report in 1986 noted the way in which the Park was maintained. He was upset that Tuam Town Commissioners were represented on the new Committee.

Mr Simon Mc Grath supported the other speakers and said that he was disappointed at the setting up of the new Committee. Since becoming Community Council Chairman he has tried to be fair. He never allowed politics to interfere in any of the organisations in which he is involved. He asked the Tuam Town Commissioners to give their full backing to the Community Council.

Commissioner Kelly said that the members of the Board of Tuam Town Commissioners never wished to bring politics into discussion. Mr Burke, Mr Mc Grath and the Park Committee had done an excellent job. The Board fully supported the Community Council. If the Board saw fit to tell the Chairman that he should not be on this new Committee he would support such a proposal. He then apologised for having to leave the meeting early.

Commissioner Flaherty said he fully supported the Community Council. It was disgraceful that a new Committee was set up to run the Park.

Commissioner Biggins asked why the Tuam Town Commissioners did not support the Community Council. He said there was no County Council Committee set up when the Palace Grounds was underdeveloped. He asked what's wrong with the present Committee. Major improvements had been carried out by the Palace Grounds Committee and he supported them in

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Commissioner Browne said he was shocked at what was said at a meeting of the Community Council in April when the question of a running track was raised.

Commissioner Browne said he was shocked at what was said at a meeting of the Community Council in April when the question of a running track was raised. He had a nomination at the April meeting of the Board requesting that the running track be sited in another area. All the members supported this motion and paid tribute to the people who worked so hard over the years on the Park. As a Tuam man he said that he did not agree that the Commissioners should be represented by the Chairman on the new Committee.

Commissioner O'Mara said the Tuam Town Commissioners had always worked with and received co-operation of the Community Council. The Palace grounds Committee had done a tremendous job. It would be a pity if anything were to happen to disrupt the work and he appealed to everyone to get a solution and continue the good work.

Commissioner Burke welcomed the open discussion. He said he had never seen a stronger deputation. He was strongly opposed to the establishment of the new Committee. The Community Council were doing an excellent job. He seconded Commissioner Browne's proposal that the Chairman withdraw from the Committee.

The Chairman stated that he had received a letter from Galway County Council to attend a meeting. He had gone to that meeting with an open mind. The new Committee consisted of the seven councillors from the Tuam Area plus a representative from Tuam Town Commissioners, Chamber of Commerce and the Community Council. He said that he had proposed that all the members of the new Committee meet at the Palace grounds. He was of the opinion that the Palace Grounds Committee had resigned some time previously. He felt that Tuam Town Commissioners should be represented on the Committee.

The Chairman said he was as proud of the park as any other Tuam Member and he would consider the proposal made at this meeting.

The meeting then concluded.

Recorded by Angela Holian: Town Clerk

HAIRMAN //

# Special Meeting held on 10th August 1987 regarding Tuam Post-Office

Present: Chairman: P.M. Stapleton

Commissioners: G. Browne, J. Burke, N. Halion, M. Kelly,

Officials: Mr. Joe O'Neill - Head of Buildings

Mr. Joe O'Shea - Head of Counter Services, An Post Mr. Niall O'Dea - Post Master, Tuam Mr. Jack Gibbons- Area Engineer

The Prayer was recited

The purpose of the meeting was to discuss with the officials of An Post the inadequate conditions at Tuam Post Office, the lack of facilities for the disabled, the lack of car-parking facilities and the availability of the Old Garda Barrack.

The Chairman welcomed the Officials of An Post and spoke of the need for a much improved service. He said that the Old Garda Barrack site which will be available in the near future presents an ideal opportunity for an Post to be situated on a main street and to provide the facilities lacking at the moment.

Mr. Joe O'Neill stated that Tuam was coming to the top of a priority list for refurbishing. The telephone exchange will be phased out shortly and this space will revert to the Post Office. He said that they will then be in a position to refurbish and substantially increase the amount of space devoted to counter service. It is hoped this plan will be put into action in mid 1988. As regards the Garda Barrack, they would be willing to explore this but it would need to be a very attractive proposition to put before their Board. Financial resources have to used prudently.

Mr Joe O'Shea said the Tuam staff have not got the facilities to which they are entitled. The office needs refurbishing.

Commissioner Burke said the Old Garda Barrack presents a golden opportunity to resolve the problems of the Post Office. He said it is impossible for a person in a wheelchair to get into the Post Office and the phone facility is too small. He said the Tuam Catchment Area has a population of 29,000.

Commissioner Browne said there was no complaint with Officials and staff who were working under bad conditions. The Post Office is packed on ocassions with people queueing out on the road. The Garda Barrack is adjacent to the Post Office. He said the true population of Tuam is 8,000 with 35,000 in the catchment area.

Commissioner Halion said that Parking facilities are badly needed.

Commissioner Kelly said he was delighted that plans were afoot for improvements. He asked the officials to look at the Garda Barrack site. He said "invest now - get a carpark, there will not be another opportunity to acquire a suitable premises".

Mr O'Neill in concluding said he appreciated the points made and the forcefulness of the Board's presentation. He said he tried to explain the constraints upon An Post. He would present the argument to Higher Management.

The Chairman thanked the Officials for coming. He said the Board's interest is in promoting and providing first class facilities for the town. He said he hoped the decision would be to acquire the Garda Barrack.

corded by gela Holian: Clerk

Minutes of Meeting held on Tuesday 4th August, 1987

# TUAM TOWN COMMISSIONERS

 $\begin{array}{cccc} \textit{TOWN} & \textit{CLERK'S OFFICE}, \\ & \textit{TOWN HALL}, & \textit{TUAM}. \end{array}$ 

Tel.: 24246

26th August, 1987

A CHARA,

The Monthly Meeting of the Tuam Town Commissioners will be held

Tuesday, 1st September, 1987 at 8.00 p.m.

You are hereby summoned to attend.

Mise le meas,

a Mola Baile Cleireach.

AGENDA

Minutes

To each Town Commissioner.

Manager's Business

Correspondence

Notice of Motion:

1. J. Burke: I will ask Tuam Town Commissioners to urgently investigate the cause of pollution in the Tuam region as reported in the recent Water Pollution Report issue by An Foras Forbartha.

2. G. Browne: That Tuam Town Commissioners invite the
Taoiseach, Mr. Haughey to Tuam, re the
following (a) Replacement Industries for
Sugar Factory (b) Proper Water Scheme
(c) Sewerage scheme.

M. Kelly

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discharging into the old shores. This might be the case at Vicar street.

Commissioner Browne asked the Chairman to urgently seek a deputation to the Minister.

The Manager said that the plans for a new sererage system were with the Department. Land will have to be acquired by C.P.O. Tuam is on a three year priority list.

Replying to Commissioner Burke the Engineer said that 25 houses were involved at Airglooney. Sewerage tanks are pumped out a few times a year. Soakage is bad and the land is higher than the road so a certain amount of seepage is getting on to the road.

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# Minutes of Meeting held on Tuesday 4th August, 1987

Chairman: P. M. Stapleton

Commissioners: J. Burke, F. Biggins, G. Browne, M. Kelly

N. Halion

icials:

Mr. John Howlett, Assistant County Manager

Mr. Jack Gibbons, Area Engineer

Commissioners O'Grady, O'Mara, Flaherty

The prayer was recited.

The Manager read and translated a letter of greeting from

the Mayor of Waldkraiburg, Germany.

A vote of Sympathy was passed with the following families:

McKenna Family, Tuam Feeney Family, Weir Road Holy Rosary Sisters, Mountbellew

Callaghan Family, Naas

Tierney Family, Lavally Kelly Family, Moniva

ratulations:

Congratulations were extended to Commissioner O'Mara on his recent marriage, also Stephen Roache on his winning of the

Tour de France.

The Galway Teams were wished "Good luck" in the coming weeks.

stream Park:

Commissioner Kelly urged to County Council to expedite their investigations into the sewerage problem at Millstream Park.
The members agreed that legal proceedings against the builder would be a waste of time and the Chairman insisted that the cost of legal proceedings would probably correct the problem.
The Manager replied that the Planning Department were dealing

with it and he undertook to persue the matter.

Road:

A letter was read from Miss W. Cole who stated that raw sewerage was coming up in her kitchen. The Engineer stated that this was a common problem a few years ago. Steps were taken which alleviated the problem - now it is a once or twice a year occurance in a very dimished way. Further improvements can't be effected other than a new sewerage system. Commissioner Burke suggested that the problem might be alleviated if the drains were cleaned on a regular basis.

Replying to the Chairman, re an odour in a room in a house at Vicar street, the Engineer said that this problem would be further investigated after the holidays. Replying to Commissioner Kelly he said that Tuam was historically drained by old shores. A new system was installed and householders should have connected to this. A few cases have been found where houses were still discharging into the old shores. This might be the case at Vicar street.

Commissioner Browne asked the Chairman to urgently seek a deputation to the Minister.

The Manager saad that the plans for a new sererage system were with the Department. Land will have to be acquired by C.P.O.

Tuam is on a three year priority list.

Replying to Commissioner Burke the Engineer said that 25 houses were involved at Airglooney. Sewerage tanks are pumped out a few times a year. Soakage is bad and the land is higher than the road so a certain amount of seepage is getting on to the road. It is probably coming from kitchen waste soak pits. 2 or 3 houses are not making enough effort to dispose of kitchen waste and they are to be aksed to improve their disposing system. The Engineer was asked to consult with C.S.E.T.

Reply to Commissioner Biggins the Engineer said the water is chlorinated to eliminate any bacteria. It is at all times bacteriologically safe for human consumption. It will be closely monitered and if organisms are found flushing of the mains will take place and clouding will result. There is no filteration system in Tuam.

Commissioner Browne spoke on the bad publicity the Town received re the toilets and asked that this be resolved. The Engineer stated that the 'Public Toilets' sign has now been removed at Abbey trinity but that funds are available to have the toilets refurbished. Commissioner Kelly proposed and Commissioner Biggins seconded that the toilets be refurbished immediately. Commissioner Burke asked that the Shambles toilets be tiled.

The Chairman proposed that house no. 6 Gilmartin road be allocated to Mr. L. Ainsworth. There was unanimous support for the proposal.

ndering Animals: Commissioner Burke complimented the County Council on their efforts to clear the town of wandering animals.

Replying to Commissioner Biggins the Manager said he had written to the Fire Chief and was awaiting a reply.

r Road junction: The Engineer stated that Traffic lights would be installed by the end of this year or early next year.

Commissioner Kelly proposed and Commissioner Biggins seconded the adoption of the Minutes of the July meeting.

It was decided to hold the special meeting to discuss the proposed extension of the Town Boundary on Wednesday 12th August.

Letters were received from the following:

An Post - Mr. Joe O'Neill and Mr. Joe O'Shea to meet with a deputation from the Commissioners on Monday 10th August, 1987 at the Town Hall.

Mr. Mark Killilea, M.E.P., - read

Gleeson & Kean - Commissioner Burke proposed and Commissioner Kelly seconded that consent be given to the transfer of No. 11 Gilmartin Road, Tuam to Mr. Michael Moggan.

Commissioner Burke spoke on his N. O. M re: the erection of a plaque at St. Joseph's Park. He asked that a plaque, like the one erected at Parkmore, be erected at St. Joseph's Park. There was unanimous support for the N.O.M.

This concluded the meeting

orded by: ela Holian, n Clerk

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Boundary:

respondence:

CHAIRMAN 1 9/198

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