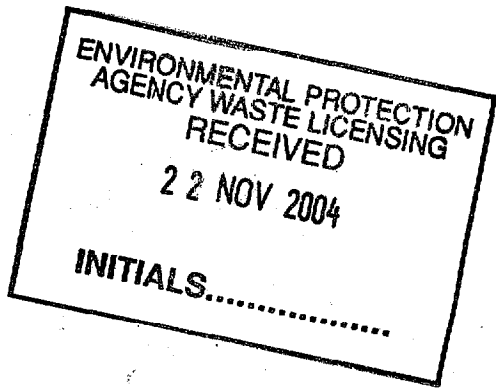


Date 22nd November 2004

Ms Eve O'Sullivan
Waste Licensing Section
Environmental Protection Agency
PO Box 3000
Johnstown Castle Estate
County Wexford



RE: Indaver Ireland Application for a Waste Licence for the Carranstown Waste Management Facility

Objection to a Proposed Decision in accordance with Section 42(2) of the Waste Management Acts, 1996 to 2003.

EPA Reference No. 167-1

Dear Ms O'Sullivan,

Indaver Ireland received a Proposed Decision, dated 26th October 2004, of the application for a waste licence for the Carranstown Waste Management Facility.

We wish to seek clarification on a number of the conditions attached to the Proposed Decision by way of an objection.

Please find enclosed an original and two copies of our objection.

Yours faithfully for
Indaver Ireland

Jackie Keaney

Jackie Keaney
Project Manager

Encl

Consent of copyright owner required for any other use.



Reply To: 4 Haddington Terrace
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e-mail info@indaver.ie web www.indaver.ie

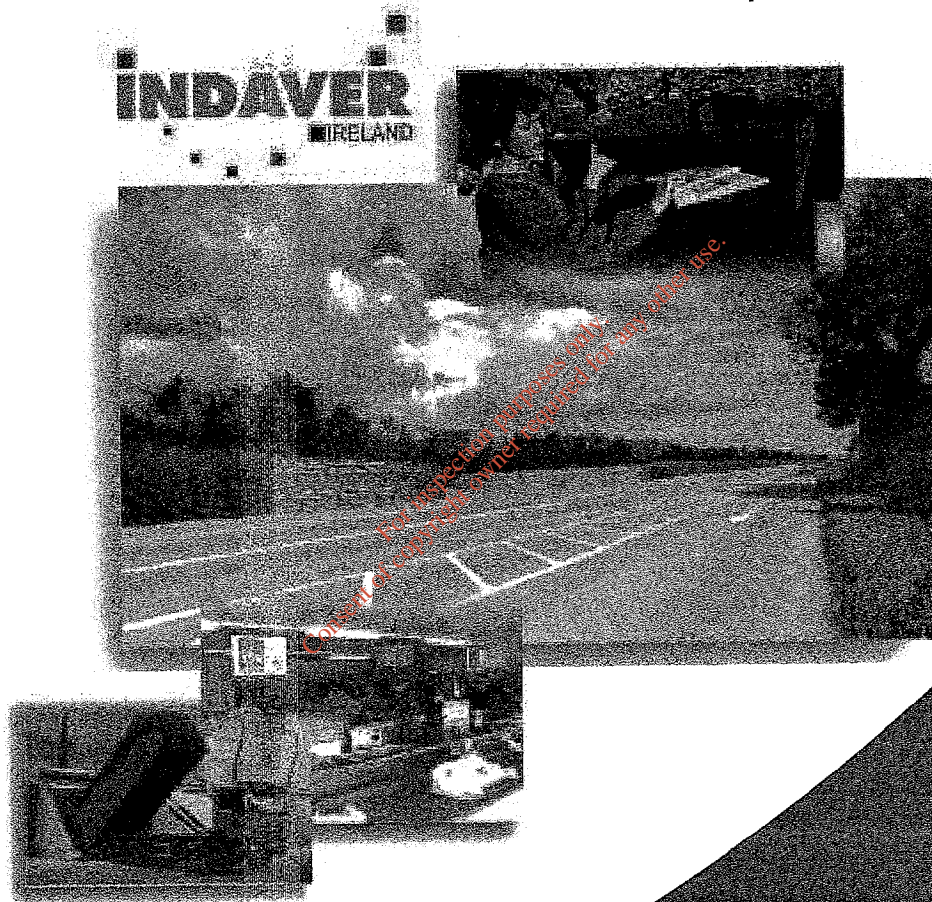
ENVIRONMENTAL PROTECTION
AGENCY WASTE LICENSING
RECEIVED

22 NOV 2004

INITIALS.....

Carranstown Waste Management Facility Waste Licence Application 167-1

Objection to a Proposed Decision in accordance
with Section 42(2) of the Waste Management
Acts, 1996 to 2003



Objection to a Proposed Decision For A Waste Management Facility Including A Non-Hazardous Waste Incinerator

Licence Register No. 167-1
Indaver Ireland (Branch of Indaver NV), Carranstown, Duleek, County Meath

Table of Contents

1	Introduction.....	2
2	Part III: Glossary of Terms	2
3	Condition 1. Scope.....	2
4	Condition 3. Infrastructure And Operation.....	2
4.1	Condition 3.8: Residuals Storage Capacity	2
4.2	Condition 3.13: Surface Water Management.....	2
4.3	Condition 3.14: Drainage System	4
4.3.1	Condition 3.14.2.....	4
4.3.2	Condition 3.14.3.....	4
4.4	Condition 3.15: Existing Gas Main.....	4
4.5	Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation	4
4.6	Condition 3.18: Materials Recycling Facility – Operational Controls	5
4.7	Condition 3.19: Incineration Plant.....	5
5	Condition 5. Emissions.....	5
6	Condition 7. Resource Use and Energy Efficiency	6
6.1	Condition 7.1: Energy Audit	6
7	Condition 8. Materials Handling	6
8	Condition 10. Remediation, Decommissioning, Restoration and Aftercare	6
9	Condition 11. Notifications, Records and Reports	6
10	Condition 12. Financial Charges and Provisions.....	7
11	Schedule A Limitations	7
11.1	Schedule A.1	7
11.2	Schedule A.2	7
12	Schedule B Emission Limits	7
13	Schedule C Monitoring and Control.....	10

1 Introduction

The purpose of this document is to seek clarification of a number of conditions attached to a Proposed Decision for a Waste Licence, Register No. 167-1

2 Part III: Glossary of Terms

Sludge

Indaver requests that the definition of 'sludge' be clarified as follows:

Sludge The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with greater than 2% dry matter. *This definition includes both organic and inorganic sludges.*

3 Condition 1. Scope

Condition 1.11: Duration of the Licence

Condition 1.11 limits the duration of the licence to 5 years from the date the licence is granted. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

1.11 Having regard to the nature of the works and arrangements necessary in connection with the commencement of the waste activities this licence shall have effect *for five years from the date of commencement of the licensed activities.*

4 Condition 3. Infrastructure And Operation

4.1 Condition 3.8: Residuals Storage Capacity

Condition 3.8 sets down requirements with respect to the capacity for the storage of residuals. It does not specify whether these are minimum or maximum values. A minimum capacity should be specified to provide for the safe and efficient operation of the facility. For this reason Indaver requests that the condition be clarified as follows:

3.8 The licensee shall provide the following *minimum* residual storage capacity:
(i) bottom ash: 1500m³ ;
(ii) boiler ash: 100m³ ;
(iii) fly ash /flue gas cleaning ash: 200m³ ; and
(iv) gypsum: 40m³ .

4.2 Condition 3.13: Surface Water Management

Condition 3.13.2 requires all surface water run-off from impermeable areas and buildings to be collected and used in the process.

The drainage system design proposed for the plant is summarised in Table 1 below.

Table 1 Surface Water Drainage Proposal

Rainwater Source		Potential contamination sources	Primary Use	Overflow	Environmental Protection
Incineration Plant	Roof of main building	None	As process water collected in the surface water tank	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	None required
	Roads, car park and hardstandings	Possible oil leak from car or truck	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank
Other Areas	Roofs of warehouse, administration building and pump house*	None	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank

*The rainwater from the roofs of these three buildings will be passed through an oil inceptor due to the configuration of the drainage system, not because of a perceived risk.

Indaver requests that the condition be reworded as follows:

- 3.13.2 Surface water runoff from impermeable surfaced areas and buildings in the incineration plant shall be collected and used as process water in the incineration plant *as far as practicable*.

4.3 Condition 3.14: Drainage System

4.3.1 Condition 3.14.2

Condition 3.14.2 requires all surface water discharges to pass through oil separators prior to discharge.

Indaver requests that the condition be reworded as follows:

- 3.14.2 The licensee shall install and maintain a settlement chamber and oil separators at the facility. Surface water discharges, *except from the roof of the main building*, shall pass through an oil separator prior to discharge. The oil separators shall be a Class II full retention separator and the separators shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

4.3.2 Condition 3.14.3

Condition 3.14.3 is ambiguous. One possible interpretation is that all water in the drainage system should be collected for safe disposal.

Indaver requests that the condition be clarified as follows:

- 3.14.3 *The drainage system, bunds, and oil separators shall be desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.*

4.4 Condition 3.15: Existing Gas Main

Condition 3.15 requires a 40m way leave to be maintained for the gas main which crosses the site. This width is based on the application which contained an error with regard to the way leave width. Bord Gáis has required a permanent way leave total width of 14m, that is, a width of 7m either side of gas main. During construction of the pipeline Bord Gais required a working strip total width of 18m. The gas main is 300mmm diameter. A copy of Bord Gáis maps and landowner consent form is attached in Appendix 1.

Indaver requests that condition 3.15.1 be clarified as follows:

- 3.15.1 The pathway for the existing 300 mm diameter gas main shall be clearly delineated on site. An on site way leave that provides a minimum width of 7 metres either side of the mains shall be provided by the licensee.

4.5 Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation

Condition 3.16.4 states that the materials recycling facility may be operated only between the hours of 0900 to 1900 Monday to Friday inclusive and 0900 to 1400 on Saturdays. This could be understood to mean that no activities could be conducted on the site outside these waste acceptance hours. It is our intention to continue with activities on site, such as sorting, bailing or administrative activities, outside waste acceptance hours.

The limitations on the acceptance and removal of waste, contained in condition 3.16.1, 3.16.2 and 3.16.3, will be sufficient.

For this reason Indaver requests that condition 3.16.4 be deleted.

4.6 Condition 3.18: Materials Recycling Facility – Operational Controls

Condition 3.18.3 specifies that leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant. It is expected that there will be very little leachate. However the leachate may not always be suitable for use as process water in the incineration plant.

Indaver requests that the condition be reworded as follows.

3.18.3 Leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant, *or be put in the bunker, or disposed of off-site to a licensed facility, as appropriate.*

4.7 Condition 3.19: Incineration Plant

Condition 3.19.1(i) specifies that the stack elevation of the incineration plant shall, at a minimum, be 95.3m OD.

Indaver Ireland has noted the requirement of the draft licence to increase the stack height from 40 metres to 65 metres. We have no objection to this condition and we note that the planning authority has been consulted by you in respect of visual impact. We have also furnished photo montages to both the Local Authority and the EPA. We also note that measures have been adopted to assess the visual impact, including the floating of a balloon to 65 metres. We also understand that the Local Authority and UNESCO agree that there will be no adverse visual impact.

5 Condition 5. Emissions

Condition 5.6 specifies that all vehicles delivering waste to and removing waste from the facility be appropriately covered.

Indaver will ensure that all vehicles, from which waste is accepted at the facility, and all vehicles removing waste from the facility be appropriately covered. However if an uncovered vehicle arrives at the facility, Indaver believes that, to minimise litter nuisance, it is better that the vehicle be accepted at the facility rather than be turned away to pose a litter risk as it departs. Indaver can put in place procedures and an auditing system to ensure that vehicles delivering waste regularly are appropriately covered. In addition, Local Authority Waste Collection Permits will require waste collectors cover trucks appropriately.

Indaver suggests that the condition be reworded as follows.

5.6 The licensee shall ensure that all vehicles removing waste *and materials from the facility are appropriately covered and implement procedures and an auditing system to ensure that vehicles delivering waste regularly to the facility are appropriately covered.*

6 Condition 7. Resource Use and Energy Efficiency

6.1 Condition 7.1: Energy Audit

Condition 7.1 requires an energy audit to be undertaken within one year of the grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site *within one year of the commencement of licensed activities*. The licensee shall consult with the Agency on the nature and extent of the audit and shall develop an audit programme to the satisfaction of the Agency. The audit programme shall be submitted to the Agency in writing at least one month before the audit is to be carried out. The energy efficiency audit report shall include:

7 Condition 8. Materials Handling

Condition 8.2.3(b) Waste Profiling

Condition 8.2.3 specifies waste profiling procedures. Condition 8.2.3(b) refers to waste characterisation and states that regard shall be had to EU decision (2003/33/EC) on establishing the criteria and procedures for the acceptance of waste at landfills. These criteria are not directly relevant to the activities to be carried out in the Carranstown facility as they apply to acceptance criteria for landfills.

Indaver requests that the condition be clarified, with the reference to the EU decision (2003/33/EC) omitted.

8 Condition 10. Remediation, Decommissioning, Restoration and Aftercare

Condition 10.1: Decommissioning and Aftercare Plan

Condition 10.1 requires the licensee to submit a Decommissioning and Aftercare plan within 12 months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 10.1 The licensee shall within twelve months of the *commencement of licensed activities* submit to the Agency for its agreement a Decommissioning and Aftercare plan for the facility. This plan shall be updated when required by the Agency.

9 Condition 11. Notifications, Records and Reports

Condition 11.5.1: Data Management System

Condition 11.5.1 requires the establishment of a data management system within six months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

Indaver requests that this table be presented in a similar format to that contained in the Directive 2000/76/EC, otherwise it could be interpreted to mean something other than was intended in the Directive. Specifically, Indaver requests that, in relation to carbon monoxide, Schedule B.1 be clarified to replicate the wording in the Directive 2000/76/EC, as follows:

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- 11.5.1 The licensee shall, within six months of *the commencement of licensed activities*, develop and establish a Data Management System for collation, archiving, assessing and geographically presenting the environmental monitoring data generated as a result of this licence.

10 Condition 12. Financial Charges and Provisions

Condition 12.1 charges

Condition 12.1 sets out charges to be paid to the agency to finance monitoring and measures to protect the environment. The charges come into effect from the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

12.1.1 The licensee shall pay to the Agency an annual contribution of €63,513, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2003. The first payment shall be a pro-rata amount for the period from *the commencement of the licensed activities*, to the 31st day of December of *that year*, and shall be paid to the Agency within one month of the date upon which demanded by the Agency. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

11 Schedule A Limitations

11.1 Schedule A.1

Schedule A.1 specifies the types of waste to be accepted at the materials recycling centre.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.1.

11.2 Schedule A.2

Schedule A.2 specifies the types of waste to be accepted at the incineration plant.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.2.

12 Schedule B Emission Limits

Schedule B.1 and B.2 sets out the maximum emission rate per hour for the listed parameters for the moving grate line respectively.

B.1 Emission limits to Air.

Emission Point Reference No.: A1-1 (Stack Emission)

Location: Flue gas treatment building

Volume to be emitted: Maximum rate per hour: 151,000 m³

Minimum Discharge height: 65 m above ground

Parameters	Units	Half Hour Average		Daily Average	Periodic
		A	B		
Total dust	mg/m ³	30 ^{Note 1}	10 ^{Note 1}	10	-
Gaseous and vaporous organic substances, expressed as total organic carbon	mg/m ³	20 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen chloride (HCl)	mg/m ³	60 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen fluoride (HF)	mg/m ³	4 ^{Note 1}	2 ^{Note 1}	1	-
Sulphur dioxide (SO ₂)	mg/m ³	200 ^{Note 1}	50 ^{Note 1}	50	-
Oxides of Nitrogen (NO and NO ₂ , expressed as NO ₂)	mg/m ³	400 ^{Note 1}	200 ^{Note 1}	200	-
The sum of Cadmium (as Cd) and thallium (as Tl), and their compounds Note 2	mg/m ³			-	0.05
Mercury (as Hg) and its compounds Note 2	mg/m ³			-	0.05
The sum of antimony (as Sb), arsenic (as As), lead (as Pb), chromium (as Cr), cobalt (as Co), copper (as Cu), manganese (as Mn), nickel (as Ni), and vanadium (as V) Note 2	mg/m ³			-	0.5
Arsenic and its compounds ^{Note 2}	mg/m ³			-	0.2
Dioxins/furans (TEQ) ^{Note 3}	ng/m ³			-	0.1
Carbon monoxide (CO) ^{Note 4}					

Note 1: None of the half-hourly average values shall exceed any of the emission limit values set out in column A, or, 97 % of the half-hourly average values over the year shall not exceed any of the emission limit values set out in column B;

Note 2: All average values over the period of a minimum of 30 minutes and a maximum of 8 hours. Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or total as specified).

Note 3: Average values shall be measured over a sample period of a minimum of 6 hours and a maximum of 8 hours. The emission limit value refers to the total concentration of dioxins and furans calculated using the concept of toxic equivalency in accordance with Annex I of Directive 2000/76/EC.

Note 4: The following emission limit values of carbon monoxide (CO) concentrations shall not be exceeded in the combustion gases (excluding the start-up and shut-down phase)

- 50 mg/m³ of combustion gas determined as a daily average

- 150 mg/m³ of combustion gas of at least 95 % of all measurements determined as 10-minute average values or 100 mg/m³ of combustion gas of all measurements determined as half-hourly values taken in any 24-hour period.

13 Schedule C Monitoring and Control

Schedule C.1.1 sets out the monitoring required of process parameters. Column 3 in the schedule specifies monitoring equipment or methodology. To allow for future improvements in monitoring techniques and equipment, Indaver requests the agency to add a note to column 3 of the schedule, similar to note 1 in schedule C.1.2, as follows:

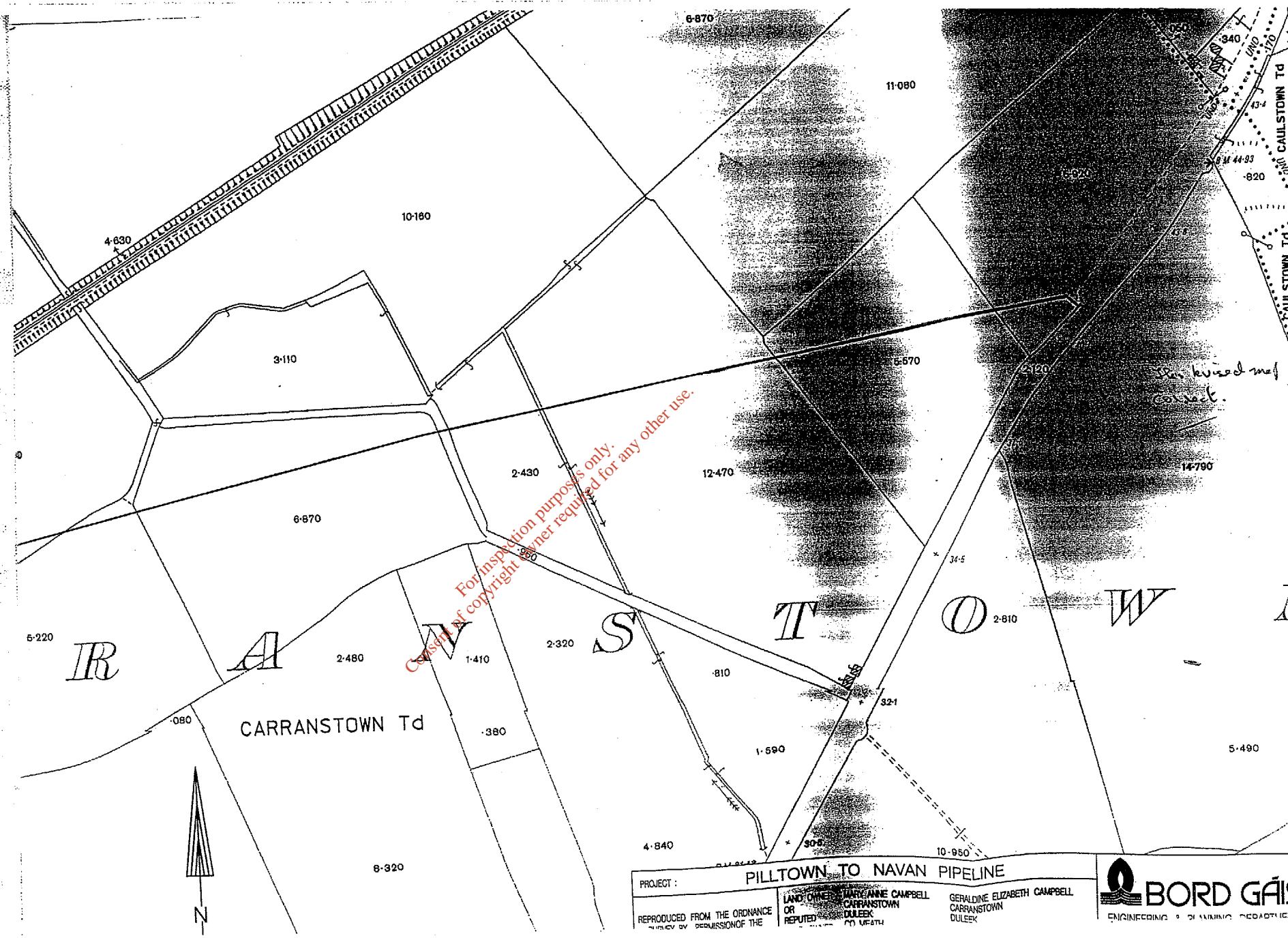
Note 4: Or other equipment or methods agreed in advance by the Agency.

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APPENDIX 1

- Bord Gais map indicating gas main
- Bord Gais map indicating wayleave
- Bord Gais Consent Form indicating appropriate permanent wayleave & working strip (including wayleave)

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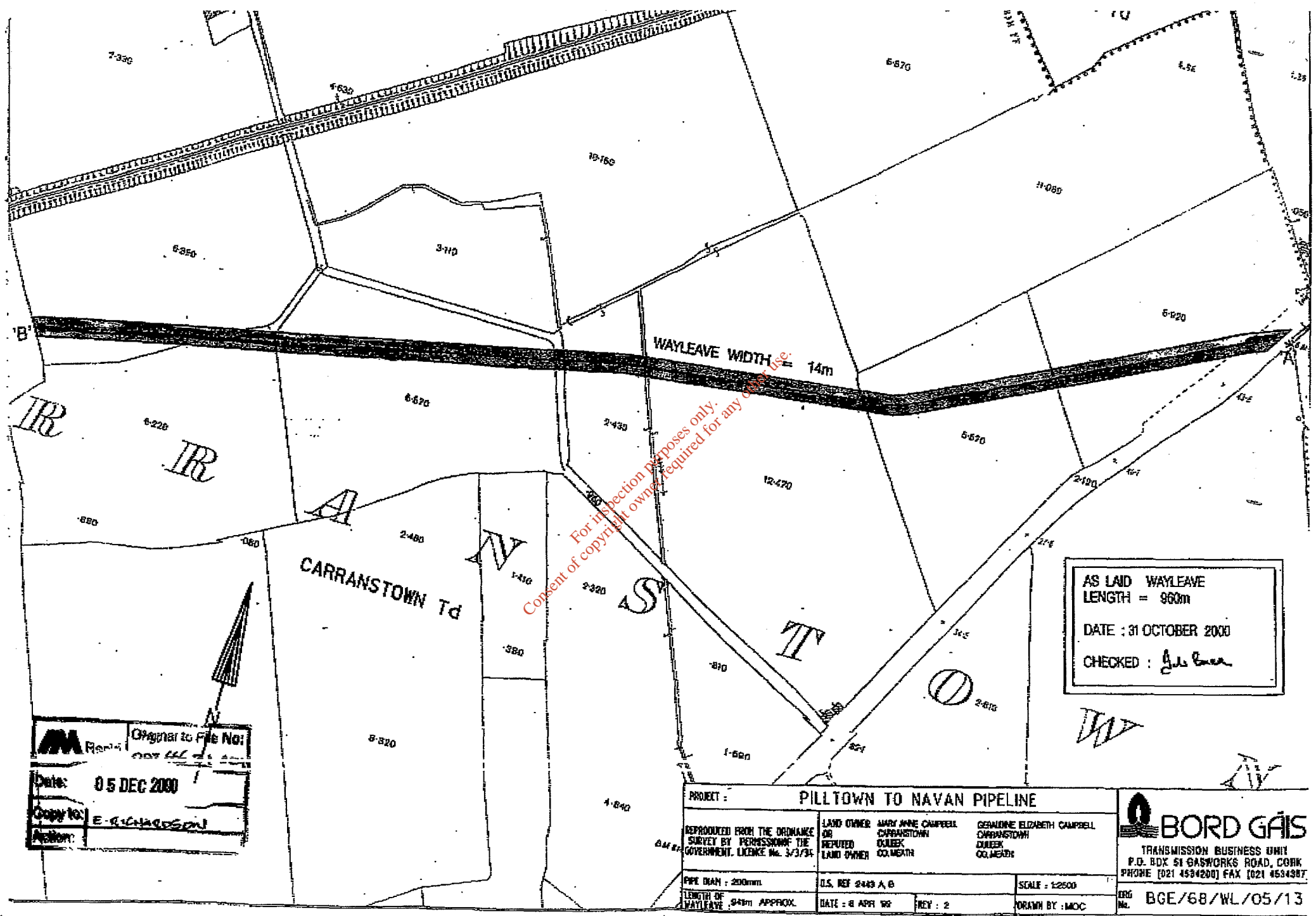


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*See revised map
correct.*

PROJECT : PILLTOWN TO NAVAN PIPELINE
 REPRODUCED FROM THE ORDNANCE MAP BY PERMISSION OF THE LAND CHIEF OFFICER
 LAND CHIEF OFFICER : MARIANNE CAMPBELL
 CARRANSTOWN DULEEK
 REPUTED TO BE THE PROPERTY OF THE STATE
 GERALDINE ELIZABETH CAMPBELL
 CARRANSTOWN DULEEK





AS LAID WAYLEAVE
 LENGTH = 900m
 DATE : 31 OCTOBER 2000
 CHECKED : *Gus Owen*

	Original to File No:
Date:	05 DEC 2000
Copy to:	E. RICHARDSON
As shown:	

PROJECT : PILLTOWN TO NAVAN PIPELINE		
REPRODUCED FROM THE ORDINANCE SURVEY BY PERMISSION OF THE GOVERNMENT. LICENSE No. 3/3/34	LAND OWNER MARY ANNE CAMPBELL CARRANSTOWN DULEEK LAND OWNER COLM LEATH	GERALDINE ELIZABETH CAMPBELL CARRANSTOWN DULEEK GERALDINE COLM LEATH
PIPE DIAM : 200mm	D.S. REF 2443 A, B	SCALE : 1:2500
LENGTH OF WAYLEAVE .94th APPROX.	DATE : 8 APR 99	KEY : 2
		DRAWN BY : MOC

BORD GÁS
 TRANSMISSION BUSINESS UNIT
 P.O. BOX 51 GASWORKS ROAD, CORK
 PHONE (021 4534200) FAX (021 4534387)

DRG No. **BGE/68/WL/05/13**

BORD GAIS EIREANN

PILLTOWN TO NAVAN

CONSENT TO LAYING OF GAS PIPELINE(S)
- CONSENT FORM

MARY ANNE & GERALDINE ELIZABETH CAMPBELL
CARRANSTOWN
DULEEK
CO. MEATH.

Drawing No. BGE/68/WL/05/13

MARY ANNE CAMPBELL QUINN of CARRANSTOWN, DULEEK, Co. Meath Married woman and
GERALDINE ELIZABETH O'BRIEN (NEE CAMPBELL) of 34 DUNSHANLE COURT, DULEEK, Co. Meath
are sole owners(s) / joint owners(s) / Leaseholder(s) /

~~occupying tenant(s)~~ of the land shown on the plan reference BGE 68 WL received from
Bord Gais Eireann (BGE) 05/13 dated 12/11/13

The land is used for the following purposes ** CORAZING LIVESTOCK

In consideration of the payment to me/us of the sum referred to below and in further consideration of the undertakings to be entered into by BGE in the Deed of Easement (as per form attached) for the protection of the said land, I/We agree to (join in the) grant to BGE a wayleave (in the form of the Deed of Easement) to lay, operate and maintain a pipeline(s) and apparatus as defined in Clause A(iv) in the Deed of Easement connected therewith in a working strip of land, which may be subject to minor re-routing to meet particular construction and engineering requirements for the over-all pipeline of the width specified below and as indicated on the enclosed plan.

Width of Permanent Wayleave	-	14 metres
Width of Working Strip (including permanent wayleave).	-	18 metres

The working width may be varied to meet the particular requirements along the route.

I/We hereby acknowledge that I/We have received the form of Deed of Easement herein referred to, and I/We agree to execute the Deed of Easement in that form on completion of the project.

In consideration of the advance payment (as hereinafter specified) to be made to me/us under the terms aforesaid, I/We forthwith irrevocably authorise BGE, its servants, agents, consultants and contractors:-

- (a) to enter upon the proposed wayleave strip, and
- (b) to enter upon the adjoining working width.

the purposes of laying, operating and maintaining the requisite pipeline(s) and ancillary apparatus as defined in Clause A(iv) in the Deed of Easement in connection therewith.

We note that the formal Deed of Easement will be prepared by BGE at their own expense and that BGE will pay me/us £5,950.00 (subject to verification of length of wayleave on final measurement) for permanent wayleave granted. I/We note that on the signing of this Consent Form BGE will make an advance payment (deposit) to me/us of £4,462.50, in respect of the permanent wayleave.

The consideration for the permanent wayleave is based on payment of £7.00 per linear metre. The advance payment (deposit) will be made subject to the establishment by me/us of prima evidence of title to the reasonable satisfaction of BGE. The total consideration payable will be adjusted on final measurement of the wayleave and the balance of the wayleave consideration will be paid subsequent to final measurement subject to the Deed of Easement being signed by me/us.

In addition to the foregoing, I/We also note that BGE will (under the terms of the Code of Practice) recompense me/us for damage/injury or losses incurred as a result of the carrying out of the proposed works and for any loss of agricultural earnings reasonably and necessarily incurred by me/us as a result thereof. The amount of such payment of payments shall be agreed, or failing agreement will be subject to arbitration in accordance with the provision of 1 (b) (ii) of the Code of Practice.

Signed: *Patrick C. Markey & Son* Signed: *Mr. James Campbell*

Date: 15 JANUARY 1999 Date: 15 January 1999

WITNESS: *P. C. Markey & Son, Solicitors, South Quay, Drogheda*

Solicitor's Name: PATRICK C. MARKEY & SON Address: SOUTH QUAY, DROGHEDA, CO. DUBLIN

Please return this form when completed to: PATRICK C. MARKEY & SON SOLICITORS SOUTH QUAY DROGHEDA CO. LOUTH PH. 041-36471
The Secretary, Bord Gais Eireann, P.O. Box 51, Inchera, Little Island, Co. Cork.

so as to reach him not later than 20th January 1999.

Note: ~~If there is a leaseholder or occupying tenant, joint owners, joint leaseholders or joint tenants, please complete as appropriate or inform BGE.~~

(** Please complete) We are owners as tenants in common in Great Abney, on Title 5107 Co. Wick. The lands had been let on one half to 11/2/73 so 11 months grazing but have not yet been let.

ENVIRONMENTAL PROTECTION
AGENCY WASTE LICENSING
RECEIVED

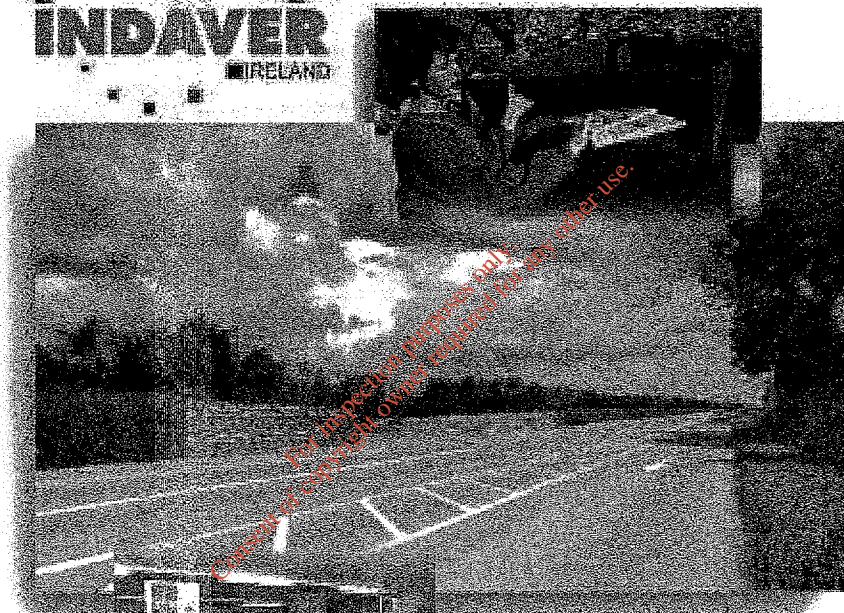
22 NOV 2004

INITIALS.....

Carranstown Waste Management Facility Waste Licence Application 167-1

Objection to a Proposed Decision in accordance
with Section 42(2) of the Waste Management
Acts, 1996 to 2003

INDAVER
IRELAND



Objection to a Proposed Decision For A Waste Management Facility Including A Non-Hazardous Waste Incinerator

Licence Register No. 167-1
Indaver Ireland (Branch of Indaver NV), Carranstown, Duleek, County Meath

Table of Contents

1	Introduction.....	2
2	Part III: Glossary of Terms	2
3	Condition 1. Scope	2
4	Condition 3. Infrastructure And Operation.....	2
4.1	Condition 3.8: Residuals Storage Capacity	2
4.2	Condition 3.13: Surface Water Management.....	2
4.3	Condition 3.14: Drainage System	4
4.3.1	Condition 3.14.2.....	4
4.3.2	Condition 3.14.3.....	4
4.4	Condition 3.15: Existing Gas Main.....	4
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4.6	Condition 3.18: Materials Recycling Facility – Operational Controls	5
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7	Condition 8. Materials Handling	6
8	Condition 10. Remediation, Decommissioning, Restoration and Aftercare	6
9	Condition 11. Notifications, Records and Reports	6
10	Condition 12. Financial Charges and Provisions.....	7
11	Schedule A Limitations	7
11.1	Schedule A.1	7
11.2	Schedule A.2	7
12	Schedule B Emission Limits	7
13	Schedule C Monitoring and Control.....	10

1 Introduction

The purpose of this document is to seek clarification of a number of conditions attached to a Proposed Decision for a Waste Licence, Register No. 167-1

2 Part III: Glossary of Terms

Sludge

Indaver requests that the definition of 'sludge' be clarified as follows:

Sludge The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with greater than 2% dry matter. *This definition includes both organic and inorganic sludges.*

3 Condition 1. Scope

Condition 1.11: Duration of the Licence

Condition 1.11 limits the duration of the licence to 5 years from the date the licence is granted. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

1.11 Having regard to the nature of the works and arrangements necessary in connection with the commencement of the waste activities this licence shall have effect *for five years from the date of commencement of the licensed activities.*

4 Condition 3. Infrastructure And Operation

4.1 Condition 3.8: Residuals Storage Capacity

Condition 3.8 sets down requirements with respect to the capacity for the storage of residuals. It does not specify whether these are minimum or maximum values. A minimum capacity should be specified to provide for the safe and efficient operation of the facility. For this reason Indaver requests that the condition be clarified as follows:

3.8 The licensee shall provide the following *minimum* residual storage capacity:
(i) bottom ash: 1500m³ ;
(ii) boiler ash: 100m³ ;
(iii) fly ash /flue gas cleaning ash: 200m³ ; and
(iv) gypsum: 40m³ .

4.2 Condition 3.13: Surface Water Management

Condition 3.13.2 requires all surface water run-off from impermeable areas and buildings to be collected and used in the process.

The drainage system design proposed for the plant is summarised in Table 1 below.

Table 1 Surface Water Drainage Proposal

Rainwater Source		Potential contamination sources	Primary Use	Overflow	Environmental Protection
Incineration Plant	Roof of main building	None	As process water collected in the surface water tank	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	None required
	Roads, car park and hardstandings	Possible oil leak from car or truck	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank
Other Areas	Roofs of warehouse, administration building and pump house*	None	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank

*The rainwater from the roofs of these three buildings will be passed through an oil inceptor due to the configuration of the drainage system, not because of a perceived risk.

Indaver requests that the condition be reworded as follows:

- 3.13.2 Surface water runoff from impermeable surfaced areas and buildings in the incineration plant shall be collected and used as process water in the incineration plant *as far as practicable*.

4.3 Condition 3.14: Drainage System

4.3.1 Condition 3.14.2

Condition 3.14.2 requires all surface water discharges to pass through oil separators prior to discharge.

Indaver requests that the condition be reworded as follows:

- 3.14.2 The licensee shall install and maintain a settlement chamber and oil separators at the facility. Surface water discharges, *except from the roof of the main building*, shall pass through an oil separator prior to discharge. The oil separators shall be a Class II full retention separator and the separators shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

4.3.2 Condition 3.14.3

Condition 3.14.3 is ambiguous. One possible interpretation is that all water in the drainage system should be collected for safe disposal.

Indaver requests that the condition be clarified as follows:

- 3.14.3 *The drainage system, bunds, and oil separators shall be desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.*

4.4 Condition 3.15: Existing Gas Main

Condition 3.15 requires a 40m way leave to be maintained for the gas main which crosses the site. This width is based on the application which contained an error with regard to the way leave width. Bord Gáis has required a permanent way leave total width of 14m, that is, a width of 7m either side of gas main. During construction of the pipeline Bord Gais required a working strip total width of 18m. The gas main is 300mmm diameter. A copy of Bord Gáis maps and landowner consent form is attached in Appendix 1.

Indaver requests that condition 3.15.1 be clarified as follows:

- 3.15.1 The pathway for the existing 300 mm diameter gas main shall be clearly delineated on site. An on site way leave that provides a minimum width of 7 metres either side of the mains shall be provided by the licensee.

4.5 Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation

Condition 3.16.4 states that the materials recycling facility may be operated only between the hours of 0900 to 1900 Monday to Friday inclusive and 0900 to 1400 on Saturdays. This could be understood to mean that no activities could be conducted on the site outside these waste acceptance hours. It is our intention to continue with activities on site, such as sorting, bailing or administrative activities, outside waste acceptance hours.

The limitations on the acceptance and removal of waste, contained in condition 3.16.1, 3.16.2 and 3.16.3, will be sufficient.

For this reason Indaver requests that condition 3.16.4 be deleted.

4.6 Condition 3.18: Materials Recycling Facility – Operational Controls

Condition 3.18.3 specifies that leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant. It is expected that there will be very little leachate. However the leachate may not always be suitable for use as process water in the incineration plant.

Indaver requests that the condition be reworded as follows.

3.18.3 Leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant, *or be put in the bunker, or disposed of off-site to a licensed facility, as appropriate.*

4.7 Condition 3.19: Incineration Plant

Condition 3.19.1(i) specifies that the stack elevation of the incineration plant shall, at a minimum, be 95.3m OD.

Indaver Ireland has noted the requirement of the draft licence to increase the stack height from 40 metres to 65 metres. We have no objection to this condition and we note that the planning authority has been consulted by you in respect of visual impact. We have also furnished photo montages to both the Local Authority and the EPA. We also note that measures have been adopted to assess the visual impact, including the floating of a balloon to 65 metres. We also understand that the Local Authority and UNESCO agree that there will be no adverse visual impact.

5 Condition 5. Emissions

Condition 5.6 specifies that all vehicles delivering waste to and removing waste from the facility be appropriately covered.

Indaver will ensure that all vehicles, from which waste is accepted at the facility, and all vehicles removing waste from the facility be appropriately covered. However if an uncovered vehicle arrives at the facility, Indaver believes that, to minimise litter nuisance, it is better that the vehicle be accepted at the facility rather than be turned away to pose a litter risk as it departs. Indaver can put in place procedures and an auditing system to ensure that vehicles delivering waste regularly are appropriately covered. In addition, Local Authority Waste Collection Permits will require waste collectors cover trucks appropriately.

Indaver suggests that the condition be reworded as follows.

5.6 The licensee shall ensure that all vehicles removing waste *and materials from the facility are appropriately covered and implement procedures and an auditing system to ensure that vehicles delivering waste regularly to the facility are appropriately covered.*

6 Condition 7. Resource Use and Energy Efficiency

6.1 Condition 7.1: Energy Audit

Condition 7.1 requires an energy audit to be undertaken within one year of the grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site *within one year of the commencement of licensed activities*. The licensee shall consult with the Agency on the nature and extent of the audit and shall develop an audit programme to the satisfaction of the Agency. The audit programme shall be submitted to the Agency in writing at least one month before the audit is to be carried out. The energy efficiency audit report shall include:

7 Condition 8. Materials Handling

Condition 8.2.3(b) Waste Profiling

Condition 8.2.3 specifies waste profiling procedures. Condition 8.2.3(b) refers to waste characterisation and states that regard shall be had to EU decision (2003/33/EC) on establishing the criteria and procedures for the acceptance of waste at landfills. These criteria are not directly relevant to the activities to be carried out in the Carranstown facility as they apply to acceptance criteria for landfills.

Indaver requests that the condition be clarified with the reference to the EU decision (2003/33/EC) omitted.

8 Condition 10. Remediation, Decommissioning, Restoration and Aftercare

Condition 10.1: Decommissioning and Aftercare Plan

Condition 10.1 requires the licensee to submit a Decommissioning and Aftercare plan within 12 months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 10.1 The licensee shall within twelve months of the *commencement of licensed activities* submit to the Agency for its agreement a Decommissioning and Aftercare plan for the facility. This plan shall be updated when required by the Agency.

9 Condition 11. Notifications, Records and Reports

Condition 11.5.1: Data Management System

Condition 11.5.1 requires the establishment of a data management system within six months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

Indaver requests that this table be presented in a similar format to that contained in the Directive 2000/76/EC, otherwise it could be interpreted to mean something other than was intended in the Directive. Specifically, Indaver requests that, in relation to carbon monoxide, Schedule B.1 be clarified to replicate the wording in the Directive 2000/76/EC, as follows:

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Consent of copyright owner required for any other use.*

- 11.5.1 The licensee shall, within six months of *the commencement of licensed activities*, develop and establish a Data Management System for collation, archiving, assessing and geographically presenting the environmental monitoring data generated as a result of this licence.

10 Condition 12. Financial Charges and Provisions

Condition 12.1 charges

Condition 12.1 sets out charges to be paid to the agency to finance monitoring and measures to protect the environment. The charges come into effect from the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

12.1.1 The licensee shall pay to the Agency an annual contribution of €63,513, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2003. The first payment shall be a pro-rata amount for the period from *the commencement of the licensed activities*, to the 31st day of December of *that year*, and shall be paid to the Agency within one month of the date upon which demanded by the Agency. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

11 Schedule A Limitations

11.1 Schedule A.1

Schedule A.1 specifies the types of waste to be accepted at the materials recycling centre.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.1.

11.2 Schedule A.2

Schedule A.2 specifies the types of waste to be accepted at the incineration plant.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.2.

12 Schedule B Emission Limits

Schedule B.1 and B.2 sets out the maximum emission rate per hour for the listed parameters for the moving grate line respectively.

13 Schedule C Monitoring and Control

Schedule C.1.1 sets out the monitoring required of process parameters. Column 3 in the schedule specifies monitoring equipment or methodology. To allow for future improvements in monitoring techniques and equipment, Indaver requests the agency to add a note to column 3 of the schedule, similar to note 1 in schedule C.1.2, as follows:

Note 4: Or other equipment or methods agreed in advance by the Agency.

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B.1 Emission limits to Air.

Emission Point Reference No.: A1-1 (Stack Emission)

Location: Flue gas treatment building

Volume to be emitted: Maximum rate per hour: 151,000 m³

Minimum Discharge height: 65 m above ground

Parameters	Units	Half Hour Average		Daily Average	Periodic
		A	B		
Total dust	mg/m ³	30 ^{Note 1}	10 ^{Note 1}	10	-
Gaseous and vaporous organic substances, expressed as total organic carbon	mg/m ³	20 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen chloride (HCl)	mg/m ³	60 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen fluoride (HF)	mg/m ³	4 ^{Note 1}	2 ^{Note 1}	1	-
Sulphur dioxide (SO ₂)	mg/m ³	200 ^{Note 1}	50 ^{Note 1}	50	-
Oxides of Nitrogen (NO and NO ₂ , expressed as NO ₂)	mg/m ³	400 ^{Note 1}	200 ^{Note 1}	200	-
The sum of Cadmium (as Cd) and thallium (as Tl), and their compounds ^{Note 2}	mg/m ³	-	-	-	0.05
Mercury (as Hg) and its compounds ^{Note 2}	mg/m ³	-	-	-	0.05
The sum of antimony (as Sb), arsenic (as As), lead (as Pb), chromium (as Cr), cobalt (as Co), copper (as Cu), manganese (as Mn), nickel (as Ni), and vanadium (as V) ^{Note 2}	mg/m ³	-	-	-	0.5
Arsenic and its compounds ^{Note 2}	mg/m ³	-	-	-	0.2
Dioxins/furans (TEQ) ^{Note 3}	ng/m ³	-	-	-	0.1
Carbon monoxide (CO) ^{Note 4}					

Note 1: None of the half-hourly average values shall exceed any of the emission limit values set out in column A, or, 97 % of the half-hourly average values over the year shall not exceed any of the emission limit values set out in column B;

Note 2: All average values over the period of a minimum of 30 minutes and a maximum of 8 hours. Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or total as specified).

Note 3: Average values shall be measured over a sample period of a minimum of 6 hours and a maximum of 8 hours. The emission limit value refers to the total concentration of dioxins and furans calculated using the concept of toxic equivalence in accordance with Annex I of Directive 2000/76/EC.

Note 4: The following emission limit values of carbon monoxide (CO) concentrations shall not be exceeded in the combustion gases (excluding the start-up and shut-down phase)

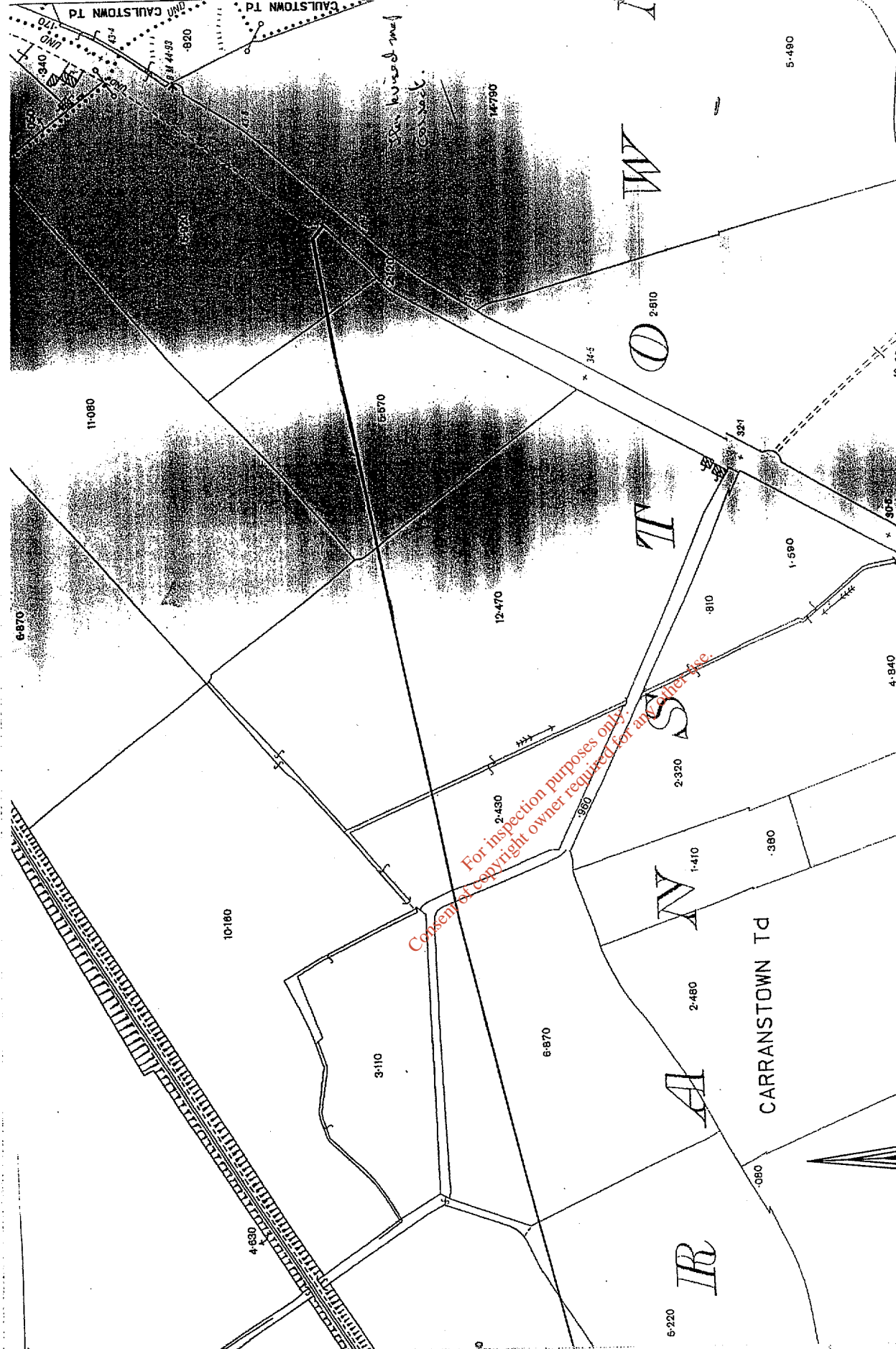
- 50 mg/m³ of combustion gas determined as a daily average

- 150 mg/m³ of combustion gas of at least 95 % of all measurements determined as 10-minute average values or 100 mg/m³ of combustion gas of all measurements determined as half-hourly values taken in any 24-hour period.

APPENDIX 1

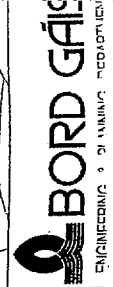
- Bord Gais map indicating gas main
- Bord Gais map indicating wayleave
- Bord Gais Consent Form indicating appropriate permanent wayleave & working strip (including wayleave)

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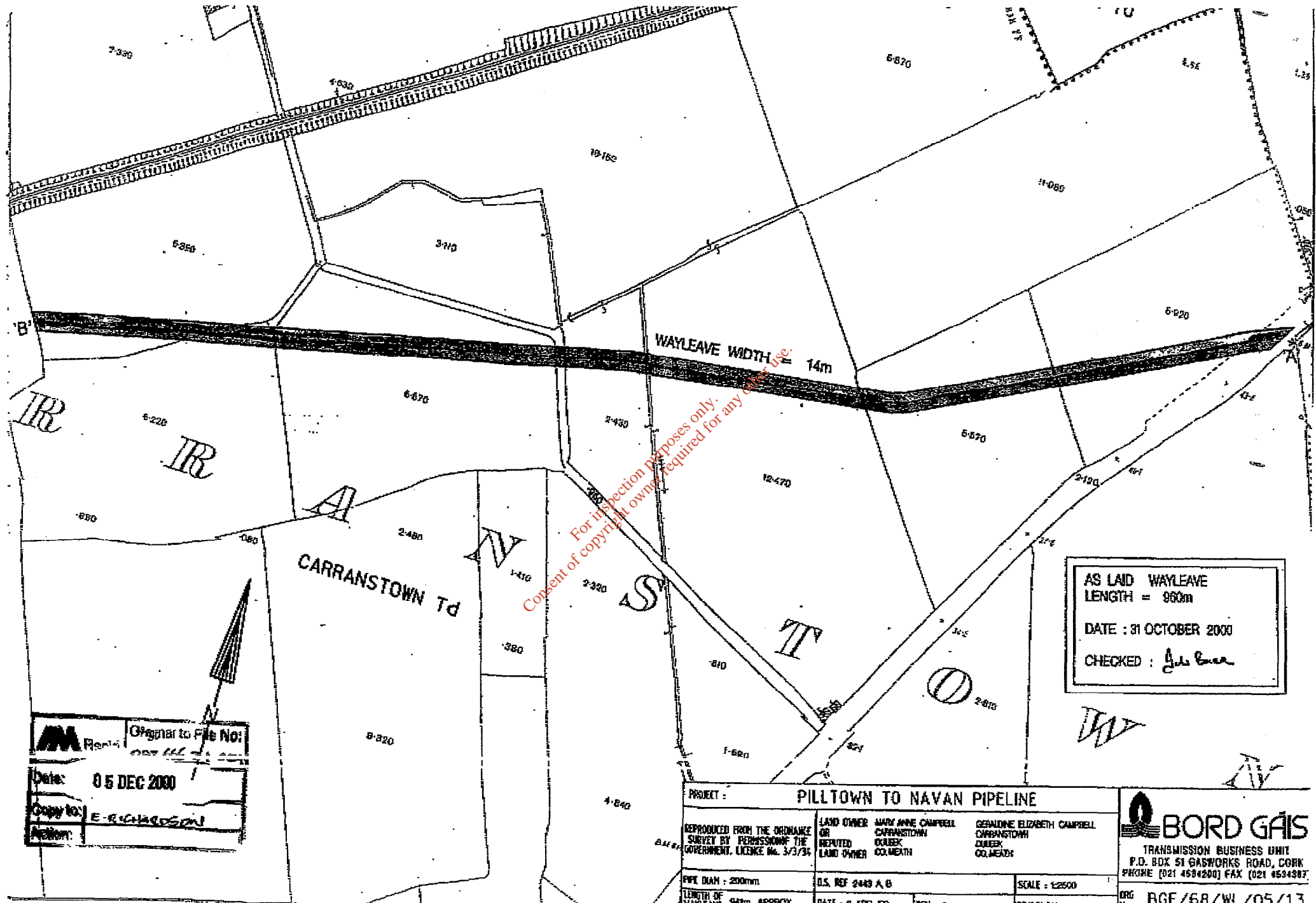
*See buried map
connected.*

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 Consent copyright owner required for any other use.



PROJECT: **PILTOWN TO NAVAN PIPELINE**
 LANDOWNER: **ELIZABETH CAMPBELL**
 CARRANSTOWN
 REPUTED: **GERALDINE ELIZABETH CAMPBELL**
 CARRANSTOWN
 DULEEK
 REPUTED: **GERALDINE ELIZABETH CAMPBELL**
 CARRANSTOWN
 DULEEK





For inspection purposes only.
Consent of copyright owner required for any other use.

AS LAID WAYLEAVE
LENGTH = 960m
DATE : 31 OCTOBER 2000
CHECKED : *John Baker*

M Plans
Original to File No:
Date: 05 DEC 2000
Copy to: E. RICHARDSON
Action:

PROJECT : PILLTOWN TO NAVAN PIPELINE		BORD GAIS TRANSMISSION BUSINESS UNIT P.O. BOX 51 GASWORKS ROAD, CORK PHONE (021 4534200) FAX (021 4534307)
REPRODUCED FROM THE ORDINANCE SURVEY BY PERMISSION OF THE GOVERNMENT. LICENCE No. 3/3/94	LAND OWNER: MARY ANNE CAMPBELL, CARRANSTOWN, CO. DUBLIN OR: GERALDINE ELIZABETH CAMPBELL, CARRANSTOWN, CO. DUBLIN LAND OWNER: CO. MEATH	
PIPE DIAM : 250mm	D.S. REF 2443 A, B	SCALE : 1:2500
LENGTH OF WAYLEAVE : 941m APPROX.	DATE : 8 APR 99	REV : 2
		DRAWN BY : MOC
		DEC No. BGE/68/WL/05/13

BORD GAIS EIREANN

PILLTOWN TO NAVAN

CONSENT TO LAYING OF GAS PIPELINE(S)
- CONSENT FORM

MARY ANNE & GERALDINE ELIZABETH CAMPBELL
GARRANSTOWN
DULEEK
CO MEATH.

Drawing No. BGE/68/WL/05/13
MARY ANNE & GERALDINE ELIZABETH CAMPBELL of GARRANSTOWN, DULEEK Co. Meath Married Women and
GERALDINE ELIZABETH O'BRIEN (NEE CAMPBELL) of 3 DUNSHANLEIGH CO. DUBLIN 12
are sole owners(s) / joint owners(s) / Leaseholder(s) /
occupying tenant(s) of the land shown on the plan reference BGE 68 WL received from
Bord Gais Eireann (BGE) 05/15. Dated 12/11/13

The land is used for the following purposes ** PORAZINE LIVESTOCK
In consideration of the payment to me/us of the sum referred to below and in further
consideration of the undertakings to be entered into by BGE in the Deed of Easement (as per
form attached) for the protection of the said land, I/We agree to (join in the) grant to BGE a
wayleave (in the form of the Deed of Easement) to lay, operate and maintain a pipeline(s)
and apparatus as defined in Clause A(i) in the Deed of Easement connected therewith in a
working strip of land, which may be subject to minor re-routing to meet particular
construction and engineering requirements for the over-all pipeline of the width specified
below and as indicated on the enclosed plan.

Width of Permanent Wayleave	-	14 metres
Width of Working Strip (including permanent wayleave).	-	18 metres

The working width may be varied to meet the particular requirements along the route.

I/We hereby acknowledge that I/We have received the form of Deed of Easement herein referred to, and I/We agree to execute the Deed of Easement in that form on completion of the project.

In consideration of the advance payment (as hereinafter specified) to be made to me/us under the terms aforesaid, I/We forthwith irrevocably authorise BGE, its servants, agents, consultants and contractors:-

- (a) to enter upon the proposed wayleave strip, and
- (b) to enter upon the adjoining working width.

the purposes of laying, operating and maintaining the requisite pipeline(s) and ancillary apparatus as defined in Clause A(iv) in the Deed of Easement in connection therewith.

We note that the formal Deed of Easement will be prepared by BGE at their own expense and that BGE will pay me/us £5,950.00 (subject to verification of length of wayleave on final measurement) for permanent wayleave granted. I/We note that on the signing of this Consent Form BGE will make an advance payment (deposit) to me/us of £4,462.50 in respect of the permanent wayleave.

The consideration for the permanent wayleave is based on payment of £7.00 per linear metre. The advance payment (deposit) will be made subject to the establishment by me/us of prima evidence of title to the reasonable satisfaction of BGE. The total consideration payable will be adjusted on final measurement of the wayleave and the balance of the wayleave consideration will be paid subsequent to final measurement subject to the Deed of Easement being signed by me/us.

In addition to the foregoing, I/We also note that BGE will (under the terms of the Code of Practice) recompense me/us for damage/injury or losses incurred as a result of the carrying out of the proposed works and for any loss of agricultural earnings reasonably and necessarily incurred by me/us as a result thereof. The amount of such payment of payments shall be agreed, or failing agreement will be subject to arbitration in accordance with the provision of 1 (b) (ii) of the Code of Practice.

Signed: *Jessie Elizabeth Emmell* Signed: *Mr. James Campbell*

Date: *15 JANUARY 1999* Date: *15 January 1999*

WITNESS: *Patrick C. Markey & Son, Solicitors, Drogheda*

Solicitor's Name: *PATRICK C. MARKEY & SON* Address: *South Quay, Drogheda, Co. Louth*

Please return this form when completed to: **PATRICK C. MARKEY & SON**
SOLICITORS
SOUTH QUAY DROGHEDA
CO. LOUTH PH. 011-38471

The Secretary,
Bord Gais Eireann,
P.O. Box 51,
Inchera,
Little Island,
Co. Cork.

so as to reach him not later than 20th January 1999.

Note: ~~If there is a leaseholder or occupying tenant, joint owners, joint leaseholders or joint tenants, please complete as appropriate or inform BGE.~~

(** Please complete) *We are owners as tenants in common in Equal Shares on Title 5107 Co. Wick. The lands had been let on our behalf to 1/12/93 for 11 months grazing but have not yet been let.*

ENVIRONMENTAL PROTECTION
AGENCY WASTE LICENSING
RECEIVED

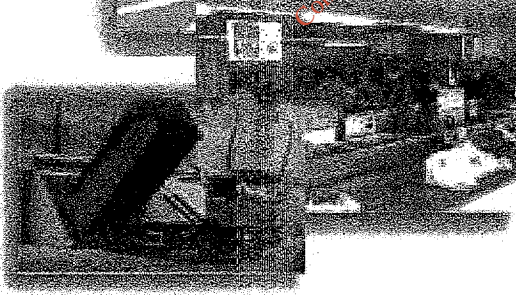
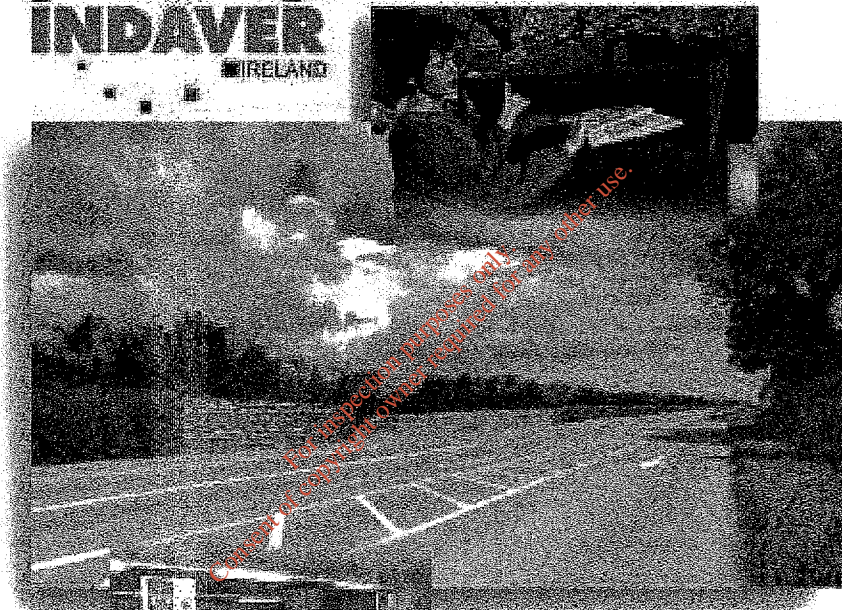
22 NOV 2004

INITIALS.....

Carranstown Waste Management Facility Waste Licence Application 167-1

Objection to a Proposed Decision in accordance
with Section 42(2) of the Waste Management
Acts, 1996 to 2003

INDAVER
IRELAND



Objection to a Proposed Decision For A Waste Management Facility Including A Non-Hazardous Waste Incinerator

Licence Register No. 167-1
Indaver Ireland (Branch of Indaver NV), Carranstown, Duleek, County Meath

Table of Contents

1	Introduction.....	2
2	Part III: Glossary of Terms	2
3	Condition 1. Scope.....	2
4	Condition 3. Infrastructure And Operation.....	2
4.1	Condition 3.8: Residuals Storage Capacity	2
4.2	Condition 3.13: Surface Water Management.....	2
4.3	Condition 3.14: Drainage System	4
4.3.1	Condition 3.14.2.....	4
4.3.2	Condition 3.14.3.....	4
4.4	Condition 3.15: Existing Gas Main.....	4
4.5	Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation	4
4.6	Condition 3.18: Materials Recycling Facility – Operational Controls	5
4.7	Condition 3.19: Incineration Plant.....	5
5	Condition 5. Emissions.....	5
6	Condition 7. Resource Use and Energy Efficiency	6
6.1	Condition 7.1: Energy Audit	6
7	Condition 8. Materials Handling	6
8	Condition 10. Remediation, Decommissioning, Restoration and Aftercare	6
9	Condition 11. Notifications, Records and Reports	6
10	Condition 12. Financial Charges and Provisions.....	7
11	Schedule A Limitations	7
11.1	Schedule A.1	7
11.2	Schedule A.2	7
12	Schedule B Emission Limits	7
13	Schedule C Monitoring and Control.....	10

1 Introduction

The purpose of this document is to seek clarification of a number of conditions attached to a Proposed Decision for a Waste Licence, Register No. 167-1

2 Part III: Glossary of Terms

Sludge

Indaver requests that the definition of 'sludge' be clarified as follows:

Sludge The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with greater than 2% dry matter. *This definition includes both organic and inorganic sludges.*

3 Condition 1. Scope

Condition 1.11: Duration of the Licence

Condition 1.11 limits the duration of the licence to 5 years from the date the licence is granted. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

1.11 Having regard to the nature of the works and arrangements necessary in connection with the commencement of the waste activities this licence shall have effect *for five years from the date of commencement of the licensed activities.*

4 Condition 3. Infrastructure And Operation

4.1 Condition 3.8: Residuals Storage Capacity

Condition 3.8 sets down requirements with respect to the capacity for the storage of residuals. It does not specify whether these are minimum or maximum values. A minimum capacity should be specified to provide for the safe and efficient operation of the facility. For this reason Indaver requests that the condition be clarified as follows:

3.8 The licensee shall provide the following *minimum* residual storage capacity:
(i) bottom ash: 1500m³ ;
(ii) boiler ash: 100m³ ;
(iii) fly ash /flue gas cleaning ash: 200m³ ; and
(iv) gypsum: 40m³ .

4.2 Condition 3.13: Surface Water Management

Condition 3.13.2 requires all surface water run-off from impermeable areas and buildings to be collected and used in the process.

The drainage system design proposed for the plant is summarised in Table 1 below.

Table 1 Surface Water Drainage Proposal

Rainwater Source		Potential contamination sources	Primary Use	Overflow	Environmental Protection
Incineration Plant	Roof of main building	None	As process water collected in the surface water tank	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	None required
	Roads, car park and hardstandings	Possible oil leak from car or truck	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank
Other Areas	Roofs of warehouse, administration building and pump house*	None	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank

*The rainwater from the roofs of these three buildings will be passed through an oil inceptor due to the configuration of the drainage system, not because of a perceived risk.

Indaver requests that the condition be reworded as follows:

- 3.13.2 Surface water runoff from impermeable surfaced areas and buildings in the incineration plant shall be collected and used as process water in the incineration plant *as far as practicable*.

4.3 Condition 3.14: Drainage System

4.3.1 Condition 3.14.2

Condition 3.14.2 requires all surface water discharges to pass through oil separators prior to discharge.

Indaver requests that the condition be reworded as follows:

- 3.14.2 The licensee shall install and maintain a settlement chamber and oil separators at the facility. Surface water discharges, *except from the roof of the main building*, shall pass through an oil separator prior to discharge. The oil separators shall be a Class II full retention separator and the separators shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

4.3.2 Condition 3.14.3

Condition 3.14.3 is ambiguous. One possible interpretation is that all water in the drainage system should be collected for safe disposal.

Indaver requests that the condition be clarified as follows:

- 3.14.3 *The drainage system, bunds, and oil separators shall be desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.*

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Condition 3.15 requires a 40m way leave to be maintained for the gas main which crosses the site. This width is based on the application which contained an error with regard to the way leave width. Bord Gáis has required a permanent way leave total width of 14m, that is, a width of 7m either side of gas main. During construction of the pipeline Bord Gais required a working strip total width of 18m. The gas main is 300mm diameter. A copy of Bord Gáis maps and landowner consent form is attached in Appendix 1.

Indaver requests that condition 3.15.1 be clarified as follows:

- 3.15.1 The pathway for the existing 300 mm diameter gas main shall be clearly delineated on site. An on site way leave that provides a minimum width of 7 metres either side of the mains shall be provided by the licensee.

4.5 Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation

Condition 3.16.4 states that the materials recycling facility may be operated only between the hours of 0900 to 1900 Monday to Friday inclusive and 0900 to 1400 on Saturdays. This could be understood to mean that no activities could be conducted on the site outside these waste acceptance hours. It is our intention to continue with activities on site, such as sorting, bailing or administrative activities, outside waste acceptance hours.

The limitations on the acceptance and removal of waste, contained in condition 3.16.1, 3.16.2 and 3.16.3, will be sufficient.

For this reason Indaver requests that condition 3.16.4 be deleted.

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Condition 3.18.3 specifies that leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant. It is expected that there will be very little leachate. However the leachate may not always be suitable for use as process water in the incineration plant.

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3.18.3 Leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant, *or be put in the bunker, or disposed of off-site to a licensed facility, as appropriate.*

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Condition 3.19.1(i) specifies that the stack elevation of the incineration plant shall, at a minimum, be 95.3m OD.

Indaver Ireland has noted the requirement of the draft licence to increase the stack height from 40 metres to 65 metres. We have no objection to this condition and we note that the planning authority has been consulted by you in respect of visual impact. We have also furnished photo montages to both the Local Authority and the EPA. We also note that measures have been adopted to assess the visual impact, including the floating of a balloon to 65 metres. We also understand that the Local Authority and UNESCO agree that there will be no adverse visual impact.

5 Condition 5. Emissions

Condition 5.6 specifies that all vehicles delivering waste to and removing waste from the facility be appropriately covered.

Indaver will ensure that all vehicles, from which waste is accepted at the facility, and all vehicles removing waste from the facility be appropriately covered. However if an uncovered vehicle arrives at the facility, Indaver believes that, to minimise litter nuisance, it is better that the vehicle be accepted at the facility rather than be turned away to pose a litter risk as it departs. Indaver can put in place procedures and an auditing system to ensure that vehicles delivering waste regularly are appropriately covered. In addition, Local Authority Waste Collection Permits will require waste collectors cover trucks appropriately.

Indaver suggests that the condition be reworded as follows.

5.6 The licensee shall ensure that all vehicles removing waste *and materials from the facility are appropriately covered and implement procedures and an auditing system to ensure that vehicles delivering waste regularly to the facility are appropriately covered.*

6 Condition 7. Resource Use and Energy Efficiency

6.1 Condition 7.1: Energy Audit

Condition 7.1 requires an energy audit to be undertaken within one year of the grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site *within one year of the commencement of licensed activities*. The licensee shall consult with the Agency on the nature and extent of the audit and shall develop an audit programme to the satisfaction of the Agency. The audit programme shall be submitted to the Agency in writing at least one month before the audit is to be carried out. The energy efficiency audit report shall include:

7 Condition 8. Materials Handling

Condition 8.2.3(b) Waste Profiling

Condition 8.2.3 specifies waste profiling procedures. Condition 8.2.3(b) refers to waste characterisation and states that regard shall be had to EU decision (2003/33/EC) on establishing the criteria and procedures for the acceptance of waste at landfills. These criteria are not directly relevant to the activities to be carried out in the Carranstown facility as they apply to acceptance criteria for landfills.

Indaver requests that the condition be clarified, with the reference to the EU decision (2003/33/EC) omitted.

8 Condition 10. Remediation, Decommissioning, Restoration and Aftercare

Condition 10.1: Decommissioning and Aftercare Plan

Condition 10.1 requires the licensee to submit a Decommissioning and Aftercare plan within 12 months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 10.1 The licensee shall within twelve months of the *commencement of licensed activities* submit to the Agency for its agreement a Decommissioning and Aftercare plan for the facility. This plan shall be updated when required by the Agency.

9 Condition 11. Notifications, Records and Reports

Condition 11.5.1: Data Management System

Condition 11.5.1 requires the establishment of a data management system within six months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 11.5.1 The licensee shall, within six months of *the commencement of licensed activities*, develop and establish a Data Management System for collation, archiving, assessing and geographically presenting the environmental monitoring data generated as a result of this licence.

10 Condition 12. Financial Charges and Provisions

Condition 12.1 charges

Condition 12.1 sets out charges to be paid to the agency to finance monitoring and measures to protect the environment. The charges come into effect from the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

12.1.1 The licensee shall pay to the Agency an annual contribution of €63,513, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2003. The first payment shall be a pro-rata amount for the period from *the commencement of the licensed activities*, to the 31st day of December of *that year*, and shall be paid to the Agency within one month of the date upon which demanded by the Agency. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

11 Schedule A Limitations

11.1 Schedule A.1

Schedule A.1 specifies the types of waste to be accepted at the materials recycling centre.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.1.

11.2 Schedule A.2

Schedule A.2 specifies the types of waste to be accepted at the incineration plant.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.2.

12 Schedule B Emission Limits

Schedule B.1 and B.2 sets out the maximum emission rate per hour for the listed parameters for the moving grate line respectively.

Indaver requests that this table be presented in a similar format to that contained in the Directive 2000/76/EC, otherwise it could be interpreted to mean something other than was intended in the Directive. Specifically, Indaver requests that, in relation to carbon monoxide, Schedule B.1 be clarified to replicate the wording in the Directive 2000/76/EC, as follows:

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B.1 Emission limits to Air.

Emission Point Reference No.: A1-1 (Stack Emission)

Location: Flue gas treatment building

Volume to be emitted: Maximum rate per hour: 151,000 m³

Minimum Discharge height: 65 m above ground

Parameters	Units	Half Hour Average		Daily Average	Periodic
		A	B		
Total dust	mg/m ³	30 ^{Note 1}	10 ^{Note 1}	10	-
Gaseous and vaporous organic substances, expressed as total organic carbon	mg/m ³	20 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen chloride (HCl)	mg/m ³	60 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen fluoride (HF)	mg/m ³	4 ^{Note 1}	2 ^{Note 1}	1	-
Sulphur dioxide (SO ₂)	mg/m ³	200 ^{Note 1}	50 ^{Note 1}	50	-
Oxides of Nitrogen (NO and NO ₂ , expressed as NO ₂)	mg/m ³	400 ^{Note 1}	200 ^{Note 1}	200	-
The sum of Cadmium (as Cd) and thallium (as Tl), and their compounds Note 2	mg/m ³	-	-	-	0.05
Mercury (as Hg) and its compounds Note 2	mg/m ³	-	-	-	0.05
The sum of antimony (as Sb), arsenic (as As), lead (as Pb), chromium (as Cr), cobalt (as Co), copper (as Cu), manganese (as Mn), nickel (as Ni), and vanadium (as V) Note 2	mg/m ³	-	-	-	0.5
Arsenic and its compounds Note 2	mg/m ³	-	-	-	0.2
Dioxins/furans (TEQ) Note 3	ng/m ³	-	-	-	0.1
Carbon monoxide (CO) Note 4					

Note 1: None of the half-hourly average values shall exceed any of the emission limit values set out in column A, or, 97 % of the half-hourly average values over the year shall not exceed any of the emission limit values set out in column B;

Note 2: All average values over the period of a minimum of 30 minutes and a maximum of 8 hours. Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or total as specified).

Note 3: Average values shall be measured over a sample period of a minimum of 6 hours and a maximum of 8 hours. The emission limit value refers to the total concentration of dioxins and furans calculated using the concept of toxic equivalency in accordance with Annex I of Directive 2000/76/EC.

Note 4: The following emission limit values of carbon monoxide (CO) concentrations shall not be exceeded in the combustion gases (excluding the start-up and shut-down phase)

- 50 mg/m³ of combustion gas determined as a daily average

- 150 mg/m³ of combustion gas of at least 95 % of all measurements determined as 10-minute average values or 100 mg/m³ of combustion gas of all measurements determined as half-hourly values taken in any 24-hour period.

13 Schedule C Monitoring and Control

Schedule C.1.1 sets out the monitoring required of process parameters. Column 3 in the schedule specifies monitoring equipment or methodology. To allow for future improvements in monitoring techniques and equipment, Indaver requests the agency to add a note to column 3 of the schedule, similar to note 1 in schedule C.1.2, as follows:

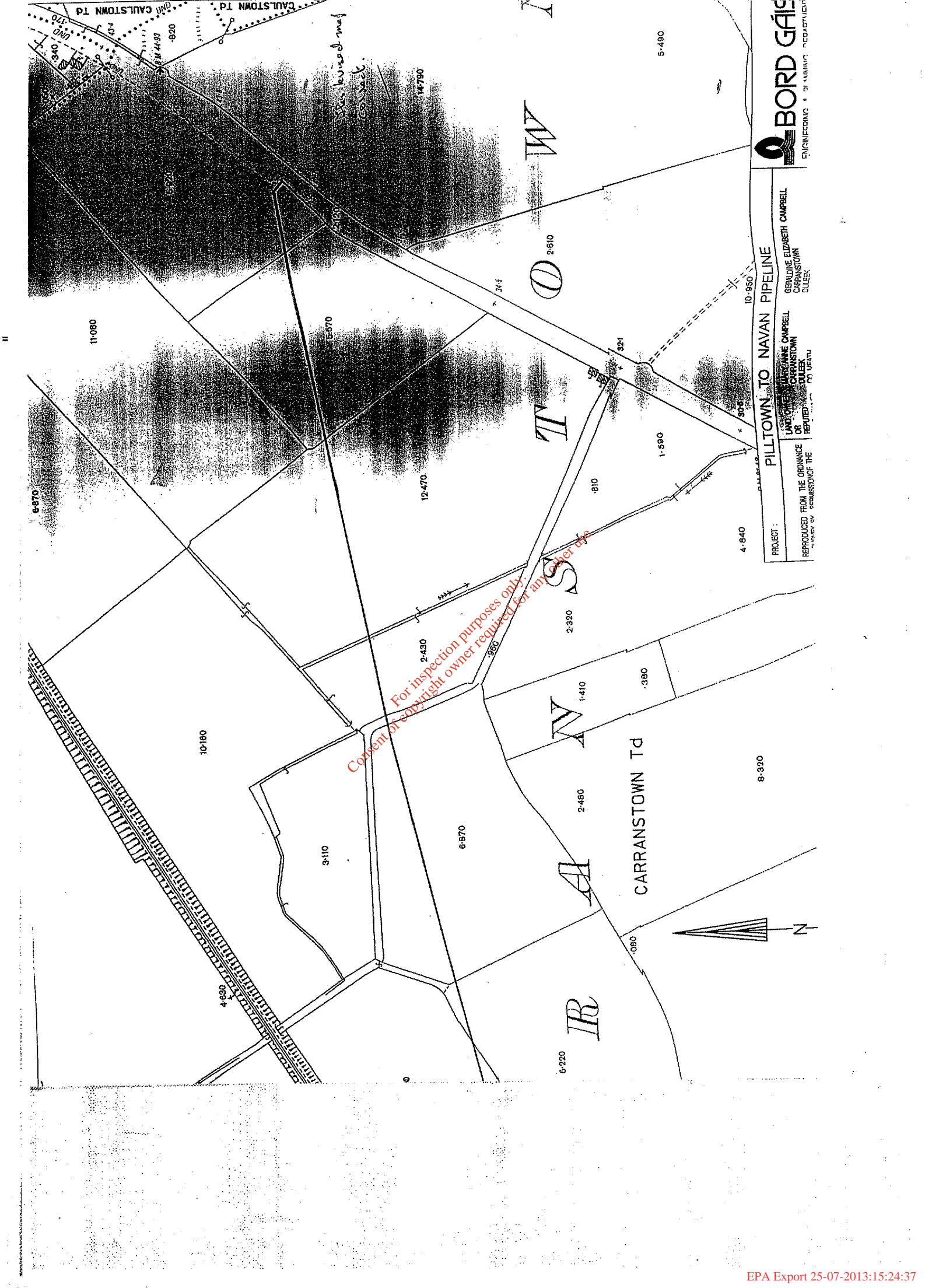
Note 4: Or other equipment or methods agreed in advance by the Agency.

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APPENDIX 1

- Bord Gais map indicating gas main
- Bord Gais map indicating wayleave
- Bord Gais Consent Form indicating appropriate permanent wayleave & working strip (including wayleave)

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See revised map
connect.



PROJECT: PILLTOWN TO NAVAN PIPELINE
 LAND OWNERS: LARAGH CAMPBELL, GERALDINE ELIZABETH CAMPBELL, CARRANSTOWN DULEES
 REPRODUCED FROM THE ORDINANCE SURVEY MAPS BY PERMISSION OF THE DIRECTOR GENERAL OF THE LAND REGISTRY

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BORD GAIS EIREANN

PILLTOWN TO NAVAN

CONSENT TO LAYING OF GAS PIPELINE(S)
- CONSENT FORM

MARY ANNE & GERALDINE ELIZABETH CAMPBELL
CARRANSTOWN
DULEEK
CO. MEATH.

Drawing No. BGE/68/WL/05/13

MARY ANNE CAMPBELL QUINN of CARRANSTOWN, DULEEK, Co. Meath Married Woman and
GERALDINE ELIZABETH O'BRIEN (NEE CAMPBELL) of SPONSANDLE, Co. Wick. Aged Woman
We ~~are~~ ~~sole~~ ~~owners~~(s) / ~~joint~~ ~~owner~~(s) / Leaseholder(s) /
~~occupying~~ ~~tenant~~(s) of the land shown on the plan reference BGE 68 WL received from
Bord Gais Eireann (BGE) 05/13. Dated 12/11/13

The land is used for the following purposes ** GRAZING LIVESTOCK

In consideration of the payment to me/us of the sum referred to below and in further consideration of the undertakings to be entered into by BGE in the Deed of Easement (as per form attached) for the protection of the said land, I/We agree to (join in the) grant to BGE a wayleave (in the form of the Deed of Easement) to lay, operate and maintain a pipeline(s) and apparatus as defined in Clause A(iv) in the Deed of Easement connected therewith in a working strip of land, which may be subject to minor re-routing to meet particular construction and engineering requirements for the over-all pipeline of the width specified below and as indicated on the enclosed plan.

Width of Permanent Wayleave	-	14 metres
Width of Working Strip (including permanent wayleave).	-	18 metres

The working width may be varied to meet the particular requirements along the route.

I/We hereby acknowledge that I/We have received the form of Deed of Easement herein referred to, and I/We agree to execute the Deed of Easement in that form on completion of the project.

In consideration of the advance payment (as hereinafter specified) to be made to me/us under the terms aforesaid, I/We forthwith irrevocably authorise BGE, its servants, agents, consultants and contractors:-

- (a) to enter upon the proposed wayleave strip, and
- (b) to enter upon the adjoining working width.

the purposes of laying, operating and maintaining the requisite pipeline(s) and ancillary apparatus as defined in Clause A(iv) in the Deed of Easement in connection therewith.

We note that the formal Deed of Easement will be prepared by BGE at their own expense and that BGE will pay me/us £5,950.00 (subject to verification of length of wayleave on final measurement) for permanent wayleave granted. I/We note that on the signing of this Consent Form BGE will make an advance payment (deposit) to me/us of £4,462.50 in respect of the permanent wayleave.

The consideration for the permanent wayleave is based on payment of £7.00 per linear metre. The advance payment (deposit) will be made subject to the establishment by me/us of prima evidence of title to the reasonable satisfaction of BGE. The total consideration payable will be adjusted on final measurement of the wayleave and the balance of the wayleave consideration will be paid subsequent to final measurement subject to the Deed of Easement being signed by me/us.

In addition to the foregoing, I/We also note that BGE will (under the terms of the Code of Practice) recompense me/us for damage/injury or losses incurred as a result of the carrying out of the proposed works and for any loss of agricultural earnings reasonably and necessarily incurred by me/us as a result thereof. The amount of such payment of payments shall be agreed, or failing agreement will be subject to arbitration in accordance with the provision of 1 (b) (ii) of the Code of Practice.

Signed: *J. Eddie Elizabeth Smyth* Signed: *Wm. James Campbell*

Date: *15 JANUARY 1999* Date: *15 January 1999*

WITNESS: *Wm. James Campbell, Solicitor, South Quay, Drogheda*

Solicitor's Name: *PATRICK C. MARNEY & SON* Address: *SOUTH QUAY, DROGHEDA, CO. LOUTH*

Please return this form when completed to:

PATRICK C. MARNEY & SON
SOLICITORS
SOUTH QUAY DROGHEDA
CO. LOUTH PH. 041-38471

The Secretary,
Bord Gais Eireann,
P.O. Box 51,
Inchera,
Little Island,
Co. Cork.

so as to reach him not later than 20th January 1999.

Note: ~~If there is a leaseholder or occupying tenant, joint owners, joint leaseholders or joint tenants, please complete as appropriate or inform BGE.~~

(** Please complete) *We are owners as tenants in common in Equal Shares on Title 5107 Co. Wick. The lands had been let on our behalf to 1/12/98 for 11 months grazing but have not yet been let.*