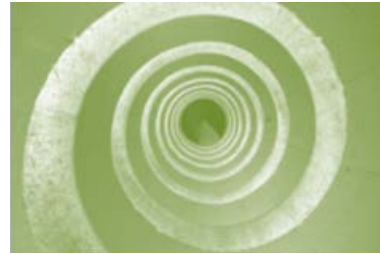


Ms Ewa Babiarczyk,
Inspector,
Environmental Licensing Programme,
Office of Environmental Sustainability,
Environmental Protection Agency,
Headquarters,
PO Box 3000
Johnstown Castle Estate
Co. Wexford
Y35 W821



JSPE

J Sheils Planning & Environmental Ltd

31 Athlumney Castle, Navan, Co Meath

Phone/Fax: Ireland +353 46 9073997

Mobile: John Sheils +353 87 2730087

Email: johnsheils@jspe.ie

Date: 14th April 2017

Our Ref: JSPE 236_L11

Your Ref: W0292-01

Re: Waste Licence Application by N&C ENTERPRISES LTD for the operation of a waste recovery facility on lands at The Pit, Kilmeage, Naas, Co. Kildare (National Grid Reference N 7766 2319).

Dear Ms. Babiarczyk,

Please find enclosed our response on behalf of N&C Enterprises Ltd, The Pit, Kilmeage, Naas, Co. Kildare in relation to your request under Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations to supply information in Compliance with Article 12. i.e.

1. In the context of waste previously deposited at the facility, please identify to the extent possible the sources of the elevated levels of ammonia, boron, chloride, electrical conductivity, potassium, sodium, sulphate, nitrate and faecal and total coliforms as detected in December 2015 and March 2016.

This matter has been addressed by the appointed Hydrogeological Consultants, Hydro-Environmental Services (HES). A copy of their submission is attached (Refer to Attachment A).

2. Submit a copy of a Waste Facility Permit reference number 126/2003.

Following on from your request we subsequently contacted the Environmental Section of Kildare County Council. They were unable to locate the file relating to Waste Permit 126/2003 from storage. However, they forwarded a copy of the Waste Facility Permit issued in 2004 which they assume to be Waste Permit 126/2003 along with the Managers Order (Refer to Attachment B).

In accordance with Condition 4.1 of the above Waste Permit:

*“Only **inert subsoil, topsoil, sand, gravel, clay, marls, and stone**, shall be used to reclaim / raise the site unless otherwise agreed in writing with Kildare County Council. All material shall be deposited inside the site boundary.*

*The permit holder shall ensure adequate steps are taken to prevent acceptance of any other waste types. **Quantities of waste brick, block and concrete** may be accepted at the site to provide for haul roads or hardstanding areas or for storage prior to crushing for secondary aggregates”.*

3. Submit a copy of all Annual Environmental Reports associated with the above Waste Facility Permit.

Our client has examined their files and confirmed that they do not have records dating back this long. We subsequently contacted the Environmental Section of Kildare County Council. They were able to provide AER's in relation to the above facility for the years 2006, 2007 & 2009. They were unable to locate the AER for 2005; however handwritten records stated it was submitted and on a zip disc. They could not locate the disc. Copies of the AER's provided by Kildare County Council are included in Attachment C. It should be noted that the AER's showed no waste was removed from site during the period, as such we have only included the Waste Accepted form with the AER's.

It is considered that the responses to the above Notice were not of a significance to require revision to the non-technical summary (Application Form and EIS) and/or drawings already submitted with the waste licence application.

The information is provided in the form of one (1) original plus one (1) copy in hardcopy format. In addition, two (2) copies of the requested information are provided to the Agency in electronic searchable PDF format on CD-ROM.

We declare that the content of the electronic files on the accompanying CD-ROM is a true copy of the original copy.

Please do not hesitate to contact us if you wish to discuss any aspect of this submission.

Yours Sincerely,

For J Sheils Planning & Environmental Ltd,



John Sheils MSCSI MRICS

ATTACHMENT A

Hydro-Environmental Services (HES)
Response to Item 1

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Date: 31st March, 2017
Our Ref: P1314-1_0004

Environmental Protection Agency

Headquarters, P.O. 3000,
Johnstown Castle Estate,
Co. Wexford.

F.A.O. Inspector Ewa Babiarczyk

Dear Ms. Babiarczyk,

Re: Waste Licence application at The Pit, Kilmeage, Naas, Co. Kildare
App. Reg No: W0292-01

1. INTRODUCTION

Hydro-Environmental Services (HES) was requested by J. Sheils Planning & Environmental Ltd, acting on behalf of N&C Enterprises Limited, to respond to Item 1 of an EPA notice dated 23rd February 2017, relating to the above-mentioned waste licence application.

In responding to Item 1 below, we will firstly outline the request item in italics and provide our response thereafter.

2. STATEMENT OF EXPERIENCE

Hydro-Environmental Services (HES) are a specialist hydrological, hydrogeological and environmental practice which delivers a range of water and environmental management consultancy services to the private and public sectors across Ireland and Northern Ireland. HES was established in 2005, and our office is located in Dungarvan, County Waterford.

Our core area of expertise and experience is hydrology (surface water) and hydrogeology (groundwater). We routinely work on site investigations, drilling investigations and groundwater sampling and groundwater quality interpretation.

3. NOTICE ITEM 1

Notice Item 1 reads as follows:

- In the context of waste previously deposited at the facility, please identify to the extent possible the sources of the elevated levels of ammonia, boron, chloride, electrical conductivity, potassium, sodium, sulphate, nitrate and faecal and total coliforms as detected in December 2015 and March 2016.*

4. HES RESPONSE TO ITEM 1

The original hydrological and hydrogeological assessment carried out by HES in June 2016¹ identified elevated levels of a number of groundwater quality parameters. These specific parameters and the elevated results are reproduced in **Table A** below.

¹ Geological and Hydrogeological Assessment at Kilmeage Sand & Gravel Pit, Co. Kildare for Proposed Waste Licence Application, 01st June 2016 (HES Report Ref: P1314-0)

Table A: Summary of Groundwater quality data

Parameter	Units	Monitoring Location					Groundwater Criteria Assessment (see notes)
		16/12/15	08/03/16	16/12/15	16/12/15	16/12/15	
		MW15-01	MW15-01	MW15-02	PW1	GW1	
Ammonia	mg/L as N	2.20	0.065	0.072	0.022	0.025	0.3 ⁽¹⁾
Boron	µg/L	370.50	121.90	20.35	16.46	35.36	1,000 ⁽¹⁾
Chloride	mg/L	69.57	39.97	47.91	20.59	27.67	24 - 187.5 ^(2,3)
Coliforms (Faecal)	cfu/100 ml	0	0	4	0	3	0 per 100ml ⁽¹⁾
Coliforms (Total)	cfu/100 ml	<10	10	50	5	10	0 per 100ml ⁽¹⁾
Electrical Conductivity	µS/cm (@ 25°C)	1770	1084	613	627	752	1000 ⁽¹⁾
Nitrate	mg/L as NO ₃	10.89	<2.21	16.73	22.18	28.07	25 ⁽¹⁾
Potassium	mg/L	17.64	7.815	3.135	1.854	1.493	5 ⁽¹⁾
Sodium	mg/L	471.80	1719	634	436.50	692	150 ⁽²⁾
Sulphate	mg/L	722.51	197.20	49.17	29.50	33.73	187.5 ⁽²⁾

(1) EPA (2003) Interim Report - Towards Setting Guideline Values for the Protection of Groundwater in Ireland

(2) SI 9 of 2010 European Communities Environmental Objectives (Groundwater Regulations, 2010, as amended 2012 (SI 149 of 2012)

(3) Assessment of the presence of saline or other intrusions - 24mg/L, Assessment for the impact of groundwater intended for drinking water by pollutants - 187.5mg/L

Section 2.3 and 4.1.5 of the geological and hydrogeological assessment, submitted as part of the waste management licence application, highlighted that there has been previous backfilling at the site along the southern side (PA Reg. No. 03/1773 & 12/373). The backfill material comprises C&D waste based on the permitted activity, and this was proven by previous trial pitting completed on 26th November 2015. As such it is difficult to quantify the significance of this backfilled material with respect to the water quality parameter exceedances shown in **Table A**.

Nevertheless, an assessment of potential sources of each of the water quality parameters from **Table A** is presented below. This assessment is based on the environmental attributes of the Kilmeague Quarry, surrounding land uses and the extent to which individual parameters have exceeded their limits.

Ammonia: Elevated ammonia levels are usually indicative of a nearby source of organic pollution such as farmyard runoff or septic tank effluent. It may also be related to the application of nitrogen fertilizer nearby. There may also be some decaying organic material in the backfilled material that is contributing to the Dec 2015 exceedance, but there is an absence of an exceedance in the March 2016 results, which suggest no significant persistence of ammonia in groundwater locally.

Boron: The groundwater criteria assessment for Boron, expressed in the guidelines as 1mg/L, should have stated 1000µg/L. As such the concentrations of boron detected in December 2015 and March 2016 are in fact within the EPA limit set out in Interim Report - Towards Setting Guideline Values for the Protection of Groundwater in Ireland (EPA 2003). This is corrected in **Table A** above.

Chloride: Elevated chloride concentrations can be related to food scraps and pet waste in a landfill context. However the backfill material deposited on sand and gravel site is more likely to be construction and demolition waste which would not be expected to produce elevated levels of chloride. In addition, elevated concentrations of chloride can occur naturally in areas where sandstone dominates such as the Kilmeague Quarry site.

Another possibility is that when the chloride results are considered with the bacteriological results, *i.e.* coliform results, from the samples, it is possible that these are as a result of organic pollution such as farmyard runoff or sewage effluent. There are several single house

wastewater systems discharging to ground in back gardens outside of the southern boundary of the application site.

Another potential source of chloride is agricultural fertilizers containing potassium chloride. But given the depth of soil and subsoil cover in the area this source is highly unlikely.

Overall chloride concentrations at the site are relatively low, and while there is some variability, this does not suggest any significant source of leachate contamination resulting from the previously deposited backfill material within the quarry site.

Coliforms (Faecal), Coliforms (Total): Common sources of faecal coliforms that are likely to contaminate groundwater include effluent from tanks and agricultural organic wastes. The Kilmeague quarry site is adjacent to both agricultural land and a number of residential properties that have on-site wastewater systems. The recorded counts of microbial pathogens are all relatively low, and varied, and do not suggest a significant issue at the site.

Conductivity: Electrical conductivity (EC) estimates the amount of total dissolved ions in the water and as such can be considered a gross contaminant indicator. Elevated ion concentrations, in this context sodium, sulphate and chloride, will result in a higher EC level in the water samples. EC recorded in groundwater below the site are all below the drinking water standard of 2,500 $\mu\text{S}/\text{cm}$.

Nitrate: Elevated levels of nitrate are usually an indicator of anthropogenic impacts on the groundwater quality. These sources include agricultural sources such as slurry spreading or synthetic fertilizer or residential sources such as effluent from septic tanks. The elevated concentration of nitrate occurs in one sample, and at 28.07mg/L NO_3 it is below the drinking water standard of 50 mg/L NO_3 .

Potassium: A possible source of potassium is agricultural runoff such as fertilizer application and land spreading. Potassium is an essential constituent of many artificial fertiliser formulations. However, potassium is strongly held by clay and organic matter particles and as such it does not leach to groundwater to any large extent. A potassium sodium ratio of greater than 0.4 can give an indication that the source of contamination is agricultural effluent. However the ratio for this site, 0.04, is much less and thus no such conclusion can be drawn with certainty. While there is no current drinking water standard for potassium, previous standards² were 12 mg/L. Therefore only the one sample exceeded this old limit. In addition concentrations of potassium are relatively low, and are not a major concern.

Sodium: Sodium is always present in natural waters. It is also an essential dietary requirement and the normal intake is as common salt (sodium chloride) in food; daily consumption may amount to 5 grams or more. Elevated concentrations of sodium can occur naturally in areas, such as the Kilmeague Quarry site, where sandstone is present. Sewage effluent and infiltration of leachate from backfill material can also be sources of elevated sodium in groundwater. Sodium concentrations in groundwater below the site are all above the drinking water standard of 200 mg/L.

Sulphate: Sulphates exist in nearly all natural waters, the concentrations varying according to the nature of the terrain through which they flow. They are often derived from the sulphides of heavy metals (iron, nickel, copper and lead). An important source of sulphate in groundwater is the oxidation of pyrite (ferrous sulphide) which is widely distributed in sedimentary rocks. Sulphuric acid is a product of the reaction and this reacts with any carbonate present to form calcium and magnesium sulphates. The reaction may be promoted by sulphur-oxidising bacteria. Sulphates can also be present due to land spreading of agricultural wastes, and discharges from industrial processes. It may also be present due to deposition of certain C&D materials within the permitted backfill at the quarry

² Irish Drinking Water Regulations, 2000 (S.I. No. 439 of 2000).

site. Sulphate concentration at MW15-01 is high in the December 2015 sample, but is just marginally above the threshold value for the March 2016 sample result in the same well.

Overall sulphate concentrations at the site are relatively low, and while there is some variability, this does not suggest any significant source of leachate contamination resulting from the previously deposited backfill material within the quarry site.

5. CONCLUSIONS

The following conclusions can be drawn from the above discussion:

1. It is likely that some of the elevated groundwater parameters are naturally occurring.
2. It is also possible that some of the elevated parameters occur due to the presence of the backfill material, and are also possibly related to other local sources of contamination such as local land spreading and local off site single house wastewater systems.

While it is not possible with the existing dataset to be fully conclusive, the level of contamination recorded is relatively low. We therefore consider that the appropriate action is to continue to monitor groundwater quality seasonally to determine long term trends and allow further interpretation as the dataset increases. We expect that such [seasonal] groundwater monitoring would be a requirement of any positive proposed determination of the submitted waste licence application.

6. CLOSURE

I trust the above meets your current requirements. Please contact the undersigned if any further information is required.

Yours sincerely,



Michael Gill
B.A., B.A.I., M.Sc., Dip Geol, MIEI, MCIWEM

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www.hydroenvironmental.ie

ATTACHMENT B

Waste Facility Permit reference number 126/2003.

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N&C Waste Permit

Ciara Corrigan <Ccorrigan@kildarecoco.ie>

Thu 13/04/2017 13:14

To: John Sheils <jsheils@jspe.ie>;

📎 2 attachments (100 KB)

N & C- per1.doc; N & C EnterprisesORD.doc;

Hello John,

Unfortunately we could not locate the Waste Permit 126/2003 in storage. However I have attached the Waste Facility Permit issued in 2004 which I assume to be WP126/2003 along with the Managers Order.

Kind Regards,

Ciara Corrigan

Tá an ríomhphost seo príobháideach agus ní ceadmhach úsáid an ríomhphoist seo d'éinne ach don té ar seoladh chuige é. D'fhéadfadh go mbeadh eolas ann atá faoi phribhléid agus rúnda de réir an dlí. Munar duit an ríomhphost seo, déan teagmháil leis an seoltóir chomh luath agus is féidir. D'fhéadfadh nach iad tuairimí Chomhairle Contae Chill Dara na tuairimí atá curtha in iúl sa ríomhphost seo.

Déanann Comhairle Contae Chill Dara iarracht ríomhphoist a chosaint ó víris. Mar sin féin, moltar duit gach ríomhphost a scanadh, mar ní ghlacann an Chomhairle aon dliteanas i leith damáiste do do chórais.

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ENV

ENVIRONMENT

The Waste Management (Act) 1996
and the Waste Management (Permit) Regulations 1998 -
Permit to carry on waste activity at The Pit, Kilmeague,
Co. Kildare – N & C Enterprises Ltd.

SUBMITTED: Application dated 9th April 2004 from N & C Enterprises Ltd. to carry on the waste activity listed below at The Pit, Kilmeague, Co. Kildare.

ALSO SUBMITTED: Recommendation dated 22nd June 2004 from Ms. B. Rea, Senior Executive Engineer, endorsed by Mr. J. Boland, Director of Services that permit be issued subject to schedule of 9 conditions as set out.

ORDER: Issue permit in accordance with above Regulations to N & C Enterprises Ltd. for the recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the waste held at the facility exceeds 1000 cubic metres at any time), subject to the 9 conditions set out in the permit; said permit is to be valid from date of issue for a period not exceeding 36 months.

June

04

Director of Services

WASTE PERMIT

ISSUED UNDER

THE WASTE MANAGEMENT ACT 1996

And

THE WASTE MANAGEMENT (PERMIT) REGULATIONS 1998

Waste Permit Register Number: _____

Applicant:

Mr Clement Gavin,
Blackhill,
Kill,
Co Kildare

Location of Facility:

The Pit,
Kilmeague
Co Kildare

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<u>CONTENTS:</u>		Pg
ACTIVITIES PERMITTED		3
CONDITION 1	SCOPE	4
CONDITION 2	MANAGEMENT OF THE ACTIVITY	5
CONDITION 3	NOTIFICATION AND RECORD KEEPING	6
CONDITION 4	WASTE ACCEPTANCE AND HANDLING	7
CONDITION 5	ENVIRONMENTAL NUISANCES, EMISSIONS AND ENVIRONMENTAL IMPACTS	8
CONDITION 6	ENVIRONMENTAL MONITORING	9
CONDITION 7	RESTORATION AND AFTERCARE	9
CONDITION 8	CONTINGENCY ARRANGEMENTS	10
CONDITION 9	CHARGES AND FINANCIAL PROVISIONS	10

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ACTIVITIES PERMITTED

In pursuance of the powers conferred on it by the Waste Management Act 1996 and the Waste Management (Permit) Regulations 1998, Kildare County Council grants this waste permit under article 5(1) of the said regulations to Mr Clement Gavin, Blackhill, Kill, Co Kildare to carry on at The Pit, Kilmeague, Co Kildare, the waste activity listed below, subject to nine conditions, with the reasons therefor set out in the permit.

Permitted Waste Activity, in accordance with Part 1 of the First Schedule of the Waste Management (Permit) Regulations, 1998

- Activity 5 The recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the waste held at the facility exceeds 1000 cubic metres at any time).

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NOTE

THE GRANTING OF THIS PERMIT, AND ANY CONDITION IMPOSED BY IT, DOES NOT EXEMPT THE HOLDER OF THE PERMIT FROM COMPLYING WITH THE STATUTORY OBLIGATIONS OF ANY RELEVANT LEGISLATION, INCLUDING WATER POLLUTION, AIR POLLUTION, WASTE, LITTER AND PLANNING LEGISLATION.

Condition 1: SCOPE:

- 1.1 This Waste Permit is issued under the Waste Management (Permit) Regulations 1998 to Mr. Clement Gavin, Blackhill, Kill, Co Kildare for lands at The Pit, Kilmeague, Co. Kildare. This permit is strictly non-transferable.
- 1.2 This permit is granted for a period not exceeding 36 months from the date of issue. This permit may be reviewed at any time by Kildare County Council.
- 1.3 For the purpose of these conditions the site is defined as the area outlined on drawing number 01, rev D submitted with the permit application and shall take place only as specified in the application as modified and/or controlled by the terms of this permit.
- 1.4 The finished contours shall be set to a maximum of 120.00m unless otherwise agreed with Kildare County Council. Prior to final contouring a final restoration plan including levels, surface water drainage proposals and landscaping shall be submitted to Kildare County Council for its agreement.
- 1.5 Should environmental pollution occur at the site, this permit may be reviewed by Kildare County Council.
- 1.6 The permit holder shall be responsible for ensuring that the waste activities shall be controlled, operated and maintained in strict accordance with the terms of the application as modified and/or controlled by the conditions attached to the permit. The permit holder shall establish procedures to ensure that corrective action is taken should any condition of this permit not be complied with. Kildare County Council shall be notified of any such breach by telephone/fax, and full details shall be forwarded in writing on the next working day.
- 1.7 Where Kildare County Council considers that a non-compliance with the conditions of this permit has occurred, it may serve a notice on the permit holder specifying;
 - (a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date specified in the notice; and
 - (b) that the permit holder shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within any time-scale contained in the notice.

When the notice has been complied with, the permit holder shall provide written confirmation to the local authority that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Council that the notice is withdrawn.

- 1.8 Should the permit holder wish to “dispose” of waste materials at the site then a waste licence from the Environment Protection Agency (EPA) is required and the permit shall be revoked. **This permit is solely for the recovery of soil based materials to restore the lands.** This permit does not constitute a disposal activity.

REASON: To clarify the scope of this permit.

Condition 2: MANAGEMENT OF THE ACTIVITY

- 2.1 The permit holder shall acquaint all staff, employees, lessees and agents, including replacement personnel, of the provisions and conditions of this permit.
- 2.2 A copy of the permit must be kept on site at all times.
- 2.3 The site shall be adequately manned and supervised at all times. It shall be maintained to the satisfaction of the Council, and adequate precautions shall be taken to prevent unauthorised access to the site.
- 2.4 Waste soils shall only be accepted at the site between the hours of 8 am and 6 pm, Monday to Friday inclusive (excluding Bank and National Holidays), and between the hours of 8am and 2pm on Saturday, unless otherwise agreed by Kildare County Council.

REASON: To make provision for the proper management of the activity

Condition 3: NOTIFICATION AND RECORD KEEPING:

- 3.1 All communication with Kildare County Council shall be addressed to Senior Executive Officer, Environment Section, St Mary's, Naas, Co Kildare.

Telephone (045) 873838, Fax: (045) 873848
- 3.2 The operator shall maintain a written record for each load of waste arriving at the site. The operator shall record and make available on site the following details:-
 - a) Origin of the load;
 - b) Description of the material in each load;
 - c) The quantity of the materials, estimated in tonnes and recorded in loads;
 - d) Where loads are removed or rejected, details of the date and time of occurrence, the type of material, and the place to which they were removed;
 - e) The names of the carriers and the vehicle registration numbers.
- 3.3 The operator shall maintain a written record of all complaints of an environmental nature related to the site. Each such record shall give details of the following:-
 - a) Date and time of complaint;
 - b) Name of complainant;
 - c) Details of the nature of the complaint;
 - d) Action taken on foot of the complaint;
 - e) Response to each complainant.
- 3.4 The permit holder shall submit a report to Kildare County Council which shall include the information compiled in 3.2 and 3.3 above. In addition, the permit holder shall

include in the report a written summary of compliance with all of the conditions attached to the permit. This report shall be submitted for the preceding calendar year by no later than 28 February of each year and within one month of waste activities ceasing on the site. **The report shall be called The Annual Environmental Report (AER).**

- 3.5 The permit holder shall immediately notify Kildare County Council by telephone of any incident which occurs as a result of the activity on the site, and which:
- Has the potential for environmental contamination of surface water or ground water, or
 - Poses an environmental threat to air or land, or
 - Requires an emergency response by the Council.

Full details shall be forwarded in writing on the next working day.

- 3.6 The permit holder shall make all records maintained on site available to Kildare County Council staff at all reasonable times, and shall provide any relevant information when so requested by an authorised person of Kildare County Council.

REASON: To provide for the notification of incidents, to update information on the activity and to provide for the keeping of proper records

Condition 4: MATERIALS ACCEPTANCE AND HANDLING:
--

- 4.1 Only inert subsoil, topsoil, sand, gravel, clay, marls, and stone, shall be used to reclaim / raise the site unless otherwise agreed in writing with Kildare County Council. All material shall be deposited inside the site boundary. The permit holder shall ensure adequate steps are taken to prevent acceptance of any other waste types. Quantities of waste brick, block and concrete may be accepted at the site to provide for haul roads or hardstanding areas or for storage prior to crushing for secondary aggregates.**
- 4.2 Any materials not complying with condition 4.1 shall be removed from the site and disposed of / recovered at an alternative approved facility.
- 4.3 The sources of all wastes shall be notified to, and approved by Kildare County Council prior to their acceptance at the site. A soil analysis shall be carried out on a representative sample of material from each brownfield source excavation, and Kildare County Council may require that further analysis of the material from certain sources be carried out.**
- 4.4 The site shall be adequately secured so as to avoid “flytipping”. Any such “flytipped” loads of waste shall be removed immediately by the owner of the site to an appropriate facility.
- 4.5 The permit holder shall not allow any over-spill of waste outside the site perimeter or

into surface water drains, as outlined on the site plan submitted with the permit application.

- 4.6 No skips, open containers, compactors or dumptrucks shall deposit waste on the site. A maximum of 50 trucks a day shall enter and deposit material on the site unless otherwise agreed in advance with Kildare County Council and records of these shall be kept in strict accordance with condition 3.2. Kildare County Council may at any time instruct the permit holder to reduce the number of trucks depositing waste on the site in the event that proper road haulage procedures are not put in place.
- 4.7 **All hauliers importing waste to the facility shall hold a valid waste collection permit in accordance with the Waste Management (Collection Permit) Regulations 2001 from the relevant authority where the waste was collected.**

REASON: To provide for the acceptance and management of wastes authorised under this permit

Condition 5: NUISANCES, EMISSIONS AND ENVIRONMENTAL IMPACTS:

- 5.1 The permit holder shall take adequate precautions to prevent undue noise, fumes, dust, grit, untidiness, and other nuisances during the course of the works which would result in a significant impairment of or a significant interference with amenities or the environment beyond the site boundary.
- 5.2 Before the acceptance of material commences, the floor of the pit shall be levelled and a 1m thick barrier of compacted silt/clay shall be installed. Another 1m layer of compacted silt / clay shall be placed over the surface of the restoration prior to topsoiling of the restored area. The restoration and design of the capping layer shall be based on the EPA landfill restoration manual.
- 5.3 The road network in the vicinity of the site shall be kept free of any debris caused by vehicles entering or leaving the facility. Any such debris shall be removed without delay. Wheel washing shall be provided to prevent materials being carried out onto the road. The permit holder shall take adequate steps to ensure that no material of any sort can fall or be blown from vehicles delivering waste to the site.
- 5.4 Vehicles shall not be allowed to queue or park on the public road. Provision shall be made within the confines of the site for turning of vehicles. Car parking space shall be provided for all staff and visitors to the site, on a durable surface within the curtilage of the site. Adequate turning area is to be provided within the site which is capable of accommodating the tipper trucks using the site.
- 5.5 The permit holder shall ensure that waste activities on the site shall be carried out in

such a manner so as not to have an adverse effect on the drainage of adjacent lands, on watercourses, on field drains or any other drainage system including the public roadway.

- 5.6 All loose litter accumulated within the site and its environs shall be removed and appropriately disposed of at an appropriate facility on a daily basis.
- 5.7 In dry weather appropriate measures shall be taken to reduce / eliminate airborne dust nuisance.
- 5.8 The operator shall ensure that the activities at the site shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the site boundary.
- 5.9 The noise level attributable to all on-site operations between the hours of 08:00-18:00 Monday to Friday inclusive (excluding bank holidays) and 08:00-14:00 Saturdays, from the development shall not exceed 55 dBA Leq_(15min), at any point along the boundary of the development site.
- 5.10 The total dust emission arising from the on-site operations associated with the proposed development shall not exceed 130 milligrams per square meter per day, averaged over a continuous period of 30 days, when measured as deposition of insoluble particulate matter at any position along the boundary of the site. No stripping of topsoil or overburden shall be carried out in periods of dry weather.

REASON: To provide for the control of nuisances and emissions from the facility, and to provide for the protection of the environment
--

Condition 6: ENVIRONMENTAL MONITORING
--

- 6.1 Authorised staff of Kildare County Council shall have access to the site at all reasonable times, for the purpose of their functions under the Waste Management Act 1996, including such inspections, monitoring and investigations as are deemed necessary by the Council
- 6.2 If so requested by Kildare County Council, the permit holder shall at his own expense make available a suitable excavator for the purposes of excavating trial holes in the waste material deposited on site, and shall arrange for the excavator to carry out whatever works are required by the Council on the site.
- 6.3 If so requested by Kildare County Council, the permit holder shall, at his own expense, carry out such further investigations and monitoring of the facility as required by the Council. The scope, detail, and programme, including report structure and reporting schedule, for any such investigations and monitoring shall be in accordance with any written instructions issued by the Council. In the event of pollution of waters in the vicinity of the site, or of leachate discharge onto adjoining

lands, input of waste onto the site shall cease, and remedial measures shall be carried out immediately as directed by the Council.

REASON: To ensure compliance with the requirements of the conditions of this licence

Condition 7: RESTORATION AND AFTERCARE

- 7.1 As soon as is practicable following completion of the waste activities, the site shall be seeded with grass and used for agricultural purposes.
- 7.2 Prior to seeding, topsoil shall be spread evenly over the site to a minimum depth, after firming, of 150 – 200 mm. The topsoil shall be good quality, and shall comply with BS 3882 : 1991. The topsoil shall not be spread in wet conditions. The topsoil shall be adequately prepared for seeding by raking or harrowing and by rolling. Seed shall be spread at a minimum rate of 30 grams per square metre.
- 7.3 The applicant remains responsible for the proper nuisance free operation of all drainage systems on site, and for ensuring that no pollution of groundwaters shall occur at any time as a result of the proposed filling / waste recovery operation.

REASON: To provide for the restoration and aftercare of the facility

Condition 8: CONTINGENCY ARRANGEMENTS:

- 8.1 In the event that any monitoring, sampling or observations indicate that contamination has, or may have, taken place, the operator shall immediately:
- a) identify the date time and place of contamination,
 - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission,
 - c) isolate the source of the emission,
 - d) evaluate the environmental pollution, if any,
 - e) identify and execute measures to minimise the emissions and effects thereof,
 - f) identify and put in place measures to avoid reoccurrence,
 - g) identify and put in place any other appropriate remedial action, and
 - h) maintain a written record of the above.

REASON: To provide for immediate action in the event of contamination taking place.

Condition 9: FINANCIAL PROVISIONS:

- 9.1 The permit holder shall pay an annual contribution of EUR1000 to Kildare County Council towards the cost of inspecting, monitoring or otherwise performing any functions in relation to the permit activity. The Permit Holder shall pay to Kildare County Council this amount within 30 days of receipt of this permit and thereafter on an annual basis. In the event that the frequency or extent of monitoring or other functions carried out by Kildare County Council needs to be increased for whatever reason the permit holder shall contribute such sums as are determined by the LA to defray costs.

REASON: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

Signed: _____
T. Maddock, Senior Executive Officer,
Kildare County Council.

Date: 25/6/04

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ATTACHMENT C

Annual Environmental Reports (AER's)

*For inspection purposes only.
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N&C Enterprises Ltd

Ciara Corrigan <Ccorrigan@kildarecoco.ie>

Thu 06/04/2017 11:00

To: John Sheils <jsheils@jspe.ie>;

📎 3 attachments (2 MB)

N&C Enterprises 2006.xlsx; N&C Enterprises 2007.xls; N&C Enterprises 2009.xls;

Hi John,

I have ordered in Waste Permit 126/2003 from storage and will PDF it and send it to you when it comes in.

I looked through all files relating to historical annual returns. I was unable to locate AR 2005 however handwritten records stated it was submitted and on a zip disc. I couldn't locate the disc.

Please find attached AR for 2006, 2007 and 2009

I also left a message with Colette Crowe saying you will be in touch with her tomorrow re Waste Permit 126/2003.

Kind Regards,

Ciara Corrigan

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Tá an ríomhphost seo príobháideach agus ní ceadmhach úsáid an ríomhphoist seo d'éinne ach don té ar seoladh chuige é. D'fhéadfadh go mbeadh eolas ann atá faoi phribhléid agus rúnda de réir an dlí. Munar duit an ríomhphost seo, déan teagmháil leis an seoltóir chomh luath agus is féidir. D'fhéadfadh nach iad tuairimí Chomhairle Contae Chill Dara na tuairimí atá curtha in iúl sa ríomhphost seo.

Déanann Comhairle Contae Chill Dara iarracht ríomhphoist a chosaint ó víris. Mar sin féin, moltar duit gach ríomhphost a scanadh, mar ní ghlacann an Chomhairle aon dliteanas i leith damáiste do do chórais.

This message is intended only for the use of the person(s) to whom it is addressed. It may contain information which is privileged and confidential within the meaning of applicable law. If you are not the

intended recipient, please contact the sender as soon as possible. The views expressed in this communication may not necessarily be the views held by Kildare County Council.

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Annual Environmental Reporting Form for Waste Permitted Facilities

Please read the guidance document provided. Contact your local authority inspector in the event of queries.

This report is for the calendar year:

Waste Permit Number (from permit)

Facility name (from permit)

Company or organisation name

Public or privately owned facility (select from list)

Contact name (in case of queries)

Telephone of contact

E-mail of contact

Summary of statistics provided on this survey

Weighbridge recorded intake:

Waste intake (summary):

Waste removed (summary):

Please offer any comments or suggestions to improve this reporting form

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Waste accepted at: 126/2003 in: 2006	N&C Enterprises Ltd	Please note that the information provided on this sheet may be subject to verification by audit. All underlying data should be kept and all assumptions and calculations documented.
---	---------------------	--

SUMMARY RECORD - this form should summarise the weighbridge incoming record, and is subject to audit.

Please enter information into white cells only.

Source of waste (Select from list)	EWC code (Type in or select from list)	Hazardous waste (Y/N) (Type in or select from list)	Description of waste (Type in - please be exact and concise)	Hazwaste tag (required only if hazardous waste and only if treated) (Type in or select from list)	Quantity (tonnes) (Type in - don't use kg or any other units)	D/R code of activity (according to Waste Management Act) (Type in or select from list)
Household waste	20 03 01	No	Mixed residual waste		20,000.00	D1-Landfill (deposit on, in or under land)
Non-household municipal waste	20 01 01	No	Paper from commercial premises		5,000.00	R4-Recycling or reclamation of other inorganic materials
Waste from other waste facilities	19 12 12	No	Organic fines from trommeling of household residual waste		2,500.00	R2-Recycling or reclamation of organic substances which are not used
Industrial process waste	07 05 04*	Yes	Solvents from industry		100.00	R13-Storage of waste intended for an R-code activity
Construction/demolition waste	17 01 07	No	Mixed bricks and concrete waste		5,000.00	R4-Recycling or reclamation of other inorganic materials

Waste from other waste facilities	17 05 04	No	Soil & Stone		61,452.00	
Construction/demolition waste	17 05 04	No	Soil & Stone		53,138.00	

This report is for the calendar year:

Waste Permit Number (from permit)

Facility name (from permit)

Company or organisation name

Public or privately owned facility (select from list)

Contact name (in case of queries)

Telephone of contact

E-mail of contact

Summary of statistics provided on this survey

Weighbridge recorded intake:

Waste intake (summary):

Waste removed (summary):

Please offer any comments or suggestions to improve this reporting form

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Waste accepted at: 126/2003 in: 2007	N&C Enterprises Ltd	Please note that the information provided on this sheet may be subject to verification by audit. All underlying data should be kept and all assumptions and calculations documented.
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SUMMARY RECORD - this form should summarise the weighbridge incoming record, and is subject to audit.

Please enter information into white cells only.

Source of waste (Select from list)	EWC code (Type in or select from list)	Hazardous waste (Y/N) (Type in or select from list)	Description of waste (Type in - please be exact and concise)	Hazwaste tag (required only if hazardous waste and only if treated) (Type in or select from list)	Quantity (tonnes) (Type in - don't use kg or any other units)	D/R code of activity (according to Waste Management Act) (Type in or select from list)
Household waste	20 03 01	No	Mixed residual waste		20,000.00	D1-Landfill (deposit on, in or under land)
Non-household municipal waste	20 01 01	No	Paper from commercial premises		5,000.00	R4-Recycling or reclamation of other inorganic materials
Waste from other waste facilities	19 12 12	No	Organic fines from trommeling of household residual waste		2,500.00	R2-Recycling or reclamation of organic substances which are not used
Industrial process waste	07 05 04*	Yes	Solvents from industry		100.00	R13-Storage of waste intended for an R-code activity
Construction/demolition waste	17 01 07	No	Mixed bricks and concrete waste		5,000.00	R4-Recycling or reclamation of other inorganic materials

Waste from other waste facilities	17 05 04	No	Soil & Stone		29,340.00	
Construction/demolition waste	17 05 04	No	Soil & Stone		65,916.00	

Annual Environmental Reporting Form for Waste Permitted Facilities

Please read the guidance document provided. Contact your local authority inspector in the event of queries.

This report is for the calendar year:

Waste Permit Number (from permit)

Facility name (from permit)

Company or organisation name

Public or privately owned facility (select from list)

Contact name (in case of queries)

Telephone of contact

E-mail of contact

Summary of statistics provided on this survey

Weighbridge recorded intake:

Waste intake (summary):

Waste removed (summary):

Please offer any comments or suggestions to improve this reporting form

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Waste accepted at: 285/2007 in: 2009	N&C Enterprises Ltd	Please note that the information provided on this sheet may be subject to verification by audit. All underlying data should be kept and all assumptions and calculations documented.
---	---------------------	--

SUMMARY RECORD - this form should summarise the weighbridge incoming record, and is subject to audit.

Please enter information into white cells only.

Source of waste (Select from list)	EWC code (Type in or select from list)	Hazardous waste (Y/N) (Type in or select from list)	Description of waste (Type in - please be exact and concise)	Hazwaste tag (required only if hazardous waste and only if treated) (Type in or select from list)	Quantity (tonnes) (Type in - don't use kg or any other units)	D/R code of activity (according to Waste Management Act) (Type in or select from list)
Household waste	20 03 01	No	Mixed residual waste		20,000.00	D1-Landfill (deposit on, in or under land)
Non-household municipal waste	20 01 01	No	Paper from commercial premises		5,000.00	R4-Recycling or reclamation of other inorganic materials
Waste from other waste facilities	19 12 12	No	Organic fines from trommeling of household residual waste		2,500.00	R2-Recycling or reclamation of organic substances which are not used
Industrial process waste	07 05 04*	Yes	Solvents from industry		100.00	R13-Storage of waste intended for an R-code activity
Construction/demolition waste	17 01 07	No	Mixed bricks and concrete waste		5,000.00	R4-Recycling or reclamation of other inorganic materials
Construction/demolition waste	17 05 04	No	Soil, Stone, Mixed Bricks And Concrete		13,176.00	R4-Recycling or reclamation of other

Sample entries - in case of queries, please contact your local authority inspector

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