

TIER 2

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX G

TIER 1 RISK ASSESSMENT



TIER 1 RISK ASSESSMENT

FOR

FORMER KINGSCOURT HISTORIC LANDFILL

AT

DUNAREE

KINGSCOURT

CO. CAVAN

Prepared By:

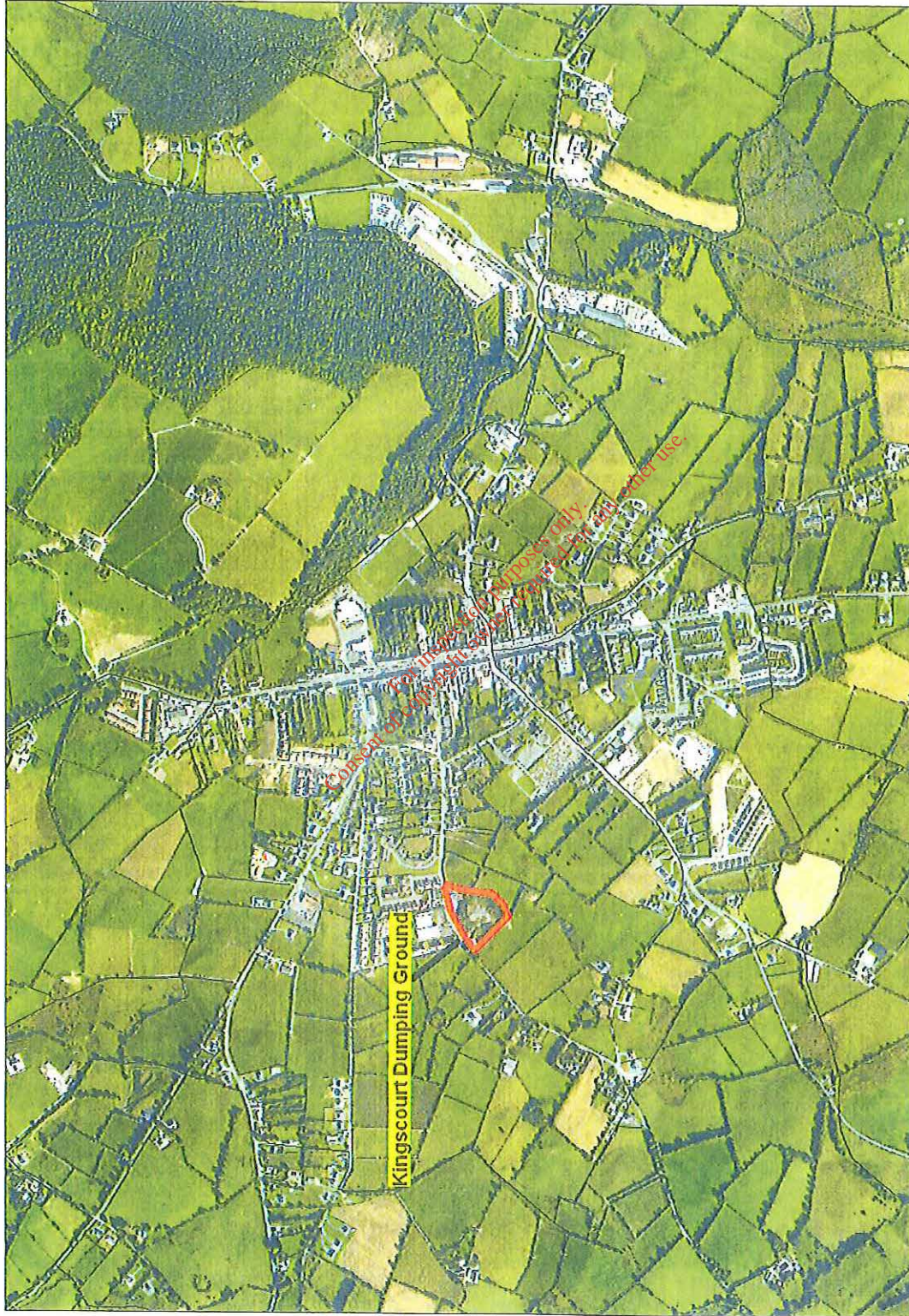
**Waste Management Section
Cavan County Council
Farnham Street
Cavan
Co. Cavan**



Historic Unlicensed Sites – Site Registration

ID Number	Council No. 266 EPA No. S22-02575
Site name	Kingscourt Dumping Ground
Waste category	Local Authority
Townland	Dunaree
Waste activity	Disposal
Principal waste type	Municipal
Additional waste type	Municipal
Estimated waste quantity	
Verification Method	Interviews with overseers
Date opened	01/01/1970 (Approximate opening date)
Date closed	28/03/1991
Owner of waste	Cavan County Council
Map	Available on file (Note: Noel & Vera Hanratty have land that encroaches on Council dumping ground)
Information Sources	Council file No. 266 / 266 A Land registry Sandra Smith – Interviews with overseers
Date Checked	15/06/2009





Walkover Survey Checklist – Kingscourt Dumping Ground

Walkover Survey Checklist		
Information	Checked	Comment (including distance from site boundary)
1. What is the current land use?	√	Council storage yard.
2. What are the neighbouring land uses?	√	Northern boundary – Local roadway, commercial buildings & housing estate. Southern boundary – Housing estate. Eastern boundary – Undeveloped site. Western boundary – Housing estate.
3. What is the size of the site?	√	3 acres (1.2 hectares)
4. What is the topography?	√	The area surrounding the site slopes moderately (north east) towards Kingscourt.
5. Are there potential receptors (if yes, give details)?	√	Commercial premises and housing estate on the northern aspect approx. 30 m from the site boundary (R1). Housing estate on the south western aspect immediate to the site boundary (R2). Housing estate on the western aspect approx. 30 m from the site boundary (R3). Housing estate on the north eastern aspect immediate to the site boundary (R4).
Houses	√	As above.
Surface water features (if yes, distance and direction of flow)	√	None evident in the vicinity of the site.
Any wetland or protected Areas	√	Wetlands – not observed within 250 meters. SPA & SPC – not observed on National Parks and Wildlife Services GIS website.
Public Water Supplies	√	Kingscourt Public Water Supply (PWS)
Private Wells	√	6" inch map details a spring on the eastern aspect approx. 300 m downslope from the site boundary.

Services	√	Water, sewerage and electrical services.
Other buildings	√	Old galvanized and concrete sheds on the site used for storage (possible accumulation of gas).
Other	√	N/A
6. Are there any potential sources of contamination (if yes, give details)?	√	None evident during inspection.
Surface waste (if yes, what type?)	√	None evident.
Surface ponding of leachate	√	None evident.
Landfill gas odours	√	None detected downwind of site (south westerly breeze blowing during time of inspection).
7. Are there any outfalls to surface water? (If yes, are there discharges and what is the nature of the discharge?)	√	None evident.
8. Are there any signs of impact on the environment? (If yes, take photographic evidence)	√	None evident. The site is heavily overgrown in some areas and has assimilated into the surrounding environs.
Vegetation die off, bare ground	√	None evident.
Leachate seepages	√	None evident.
Odours	√	None detected.
Litter	√	Observed throughout the upper section of the site (refer to photo No. 1).
Gas bubbling through water	√	None evident.
Signs of settlement,	√	None evident.
subsidence, water logged areas	√	None evident.
Drainage or hydraulic issues	√	None evident (firm under foot).
Downstream water quality appears poorer than upstream water quality	√	No watercourses or drainage ditches in the vicinity of the site.

9. Are there any indications of remedial measures? (Provide details)	√	Mesh wire fencing on the northern perimeter with access gates. Wooden fencing on the eastern perimeter. The said fencing has collapsed and requires replacement (refer to photo No. 2).
Capping	√	Possible capping with clay as no waste was observed protruding from the waste body.
Landfill gas collection	√	None evident.
Leachate collection	√	None evident.
10. Describe fences and security features (if any)	√	As above (section 9).
Any other relevant information?	√	N/A
Health & Safety	√	Replacement of fencing on the eastern perimeter. Lands adjacent to the said location have been recently excavated leaving exposed rock faces. Risk of fall from a height by members of the public (refer to photo No. 3).
Remediation	√	Replacement of fencing on the eastern perimeter. Removal of litter from the upper section of the site. Ensure all access points to the site are secured to prevent public access.
General Comments The site was an old quarry and (possibly) deeply infilled with waste. There were no watercourses or drainage ditches in the vicinity of the site thus groundwater would be a potential receptor. The rock is predominately shale (as observed from the undeveloped site on the south eastern perimeter). The area surrounding the site has been heavily developed over the past five years with housing estates enveloping the site. The dump site is located in a densely populated area and therefore public access to the site should be restricted by adequate fencing and warning signage.		

Inspection date _____

Signed _____



Photo No. 1 – Litter on the upper section of the site.

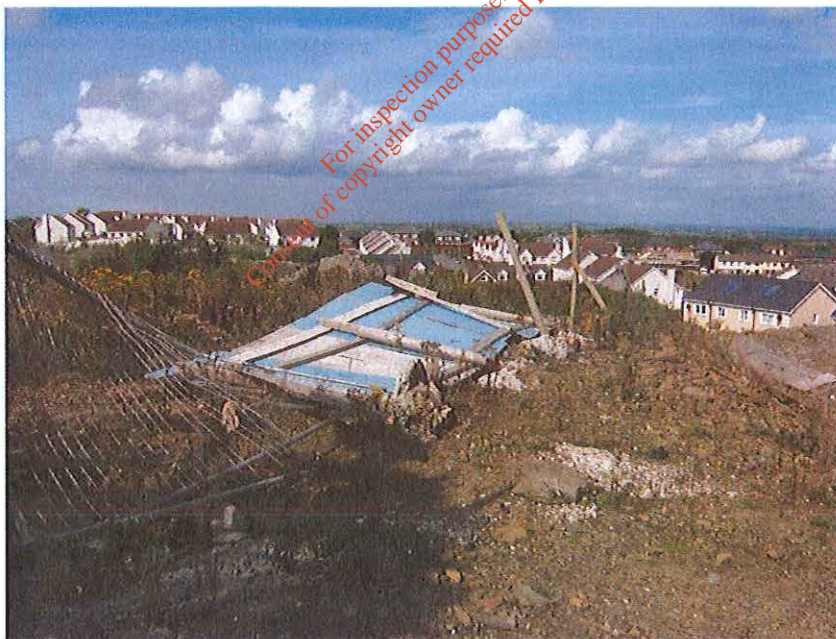


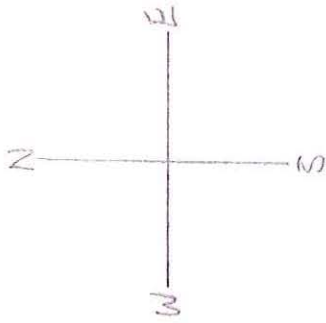
Photo No. 2 – Collapsed fencing on eastern perimeter.



Photo No. 3 – Exposed rock faces on the eastern perimeter.

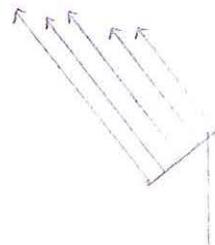
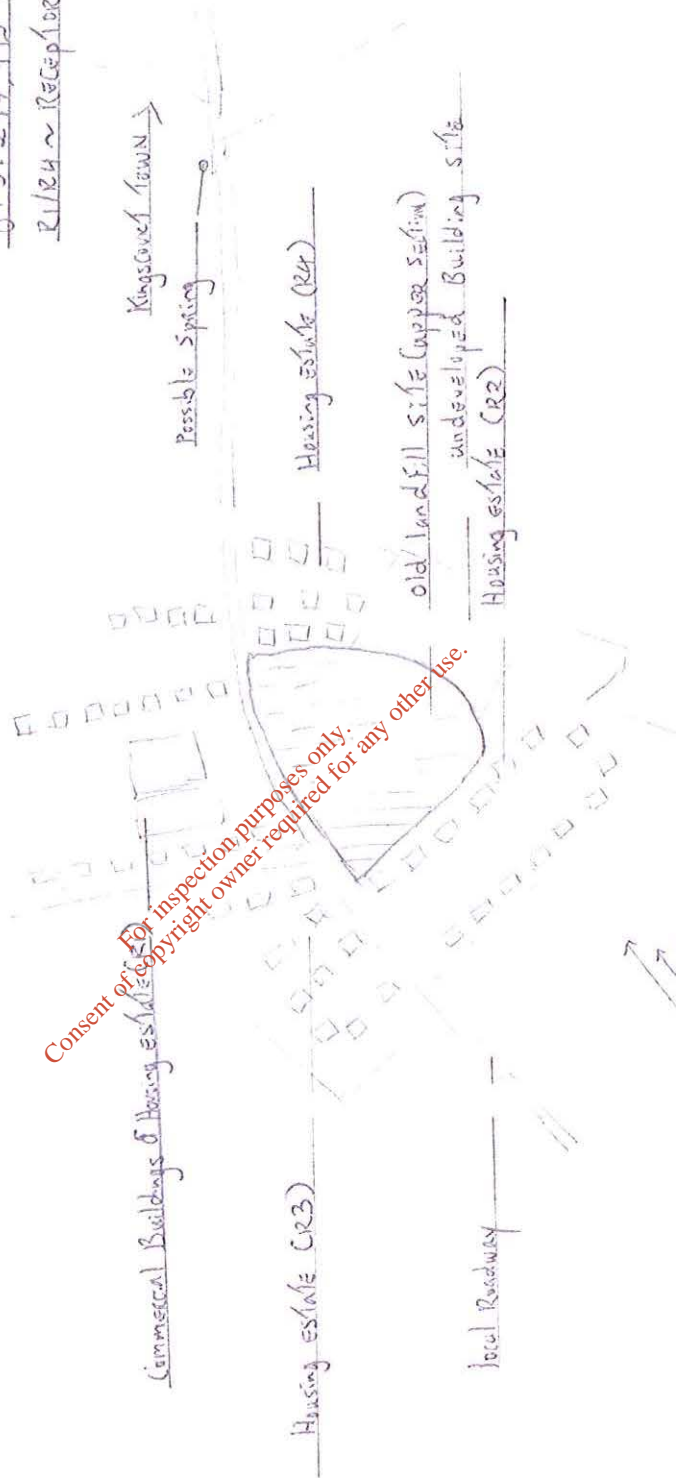
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Site Plan.



GPS: 277,993 295,740

R1/R4 ~ Receptors



Slope (Groundwater Flow)

Risk ranking report for Kingscourt dumping ground - Cavan County Council (S22-02575)

Date: 09/09/2009

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Legend

- Unregulated Landfill
- Local Authorities

Towns by Size

- Small
- NI
- Medium
- Large

Rivers by Order

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Water Bodies

- Lakes
- Trans-boundary
- Coastal

Grid reference of the centre of the site: 277963E, 295755N

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Risk ranking report for Kingscourt dumping ground - Cavan
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Table	Points available	Rationale	SPRLinkage	Linkage Score	Norm Score
1a	7.00	EITHER (Type: Industrial, Area > 1 <= 5 Ha) OR (Type: Municipal, Area > 1 <= 5 Ha)	SPR1	28.00	9.33
1b	7.00	EITHER (Type: Industrial, Area > 5 Ha) OR (Type: Municipal, Area > 1 <= 5 Ha)	SPR2	0.00	0.00
2a	3.00	Extreme Vulnerability	SPR3	84.00	35.00
2b	1.00	Poorly Productive Bedrock Groundwater Bodies (LI, PI, PU)	SPR4	0.00	0.00
2c	0.00	No direct connection	SPR5	28.00	7.00
2d	3.00	Sand and gravel, made ground, urban, karst	SPR6	0.00	0.00
2e	3.00	Bedrock	SPR7	28.00	11.67
3a	3.00	On or within 50m of the waste body	SPR8	0.00	0.00
3b	0.00	Greater than 1km of the waste body / Undesignated site greater than 250m of the waste body	SPR9	0.00	0.00
3c	1.00	Poor aquifers (PI, PU)	SPR10	105.00	70.00
3d	0.00	Greater than 1km (No Karst Aquifer)	SPR11	105.00	42.00
3e	1.00	Greater than 250m but less than 1km			
3f	5.00	On Site or within 50m of site boundary			

Risk Classification: A: Highest Risk

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Site Summary

Facility Description

The site encompasses an area of approximately 1.2 hectares in the Townland of Dunaree within the confines of Kingscourt town. The site is surrounded by housing estates on the Northern, Western and Southern boundaries.

Receiving Environments

No watercourses or drainage ditches were observed in the vicinity of the site. The site was once a quarry and groundwater would be a potential receptor.

Known Impacts

There are currently no known impacts on the surrounding environments. Further investigations are required to validate same.

Emissions Observed

No emissions were evident during the site inspection. Further investigations are required to validate same.

Remediation Measures

Replacement of fencing on the eastern perimeter and the removal of litter from the upper sections of the site. Further works may be required depending on site investigations.

Technical Requirements

The site is unlined with no leachate or gas collection system.

Treatment Methods

No treatment of leachate or gas on site (if arising from the site). Further investigations are required to establish if there are leachate or gas discharges.

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