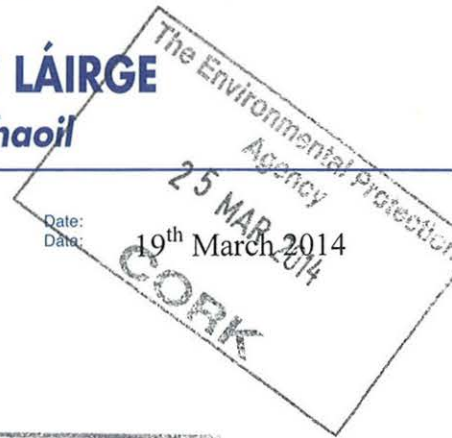




WATERFORD COUNTY COUNCIL
Director of Planning & Environment

COMHAIRLE CONTAE PHORT LÁIRGE
Stiúrthóir Pleanála & Comhshaoil



My Reference:
Mo Thag: GH/MS

Your Reference:
Do Thag: W0032-03

Date:
Data: 19th March 2014

Administration,
Licensing Unit,
Office of Climate, Licensing
And Resource Use,
Environmental Protection Agency,
Headquarters,
PO Box 3000,
Johnstown Castle Estate,
Co. Wexford



Dear Sir,

Re: Reg No. W0032-03 – Notice in Accordance with Article 14 (2) b (ii) of the Waste Management (Licensing) Regulations


I refer to the above reference application for a waste licence relating to a facility at Dungarvan Waste Disposal Site, Ballinamuck Middle, Dungarvan, Co. Waterford.

I attach herewith a response to the queries raised by the Environmental Protection Agency in accordance with Article 14(2)(b)(ii) of the Waste Management (Licencing) Regulations 2004 as amended in your correspondence of the 14th February 2014.

- a) Please find enclosed two hard copies of the information and two electronic version on CD-ROM.
- b) In relation to the balance of the fee due of €1,000, this has been approved for payment and will be paid electronically to the EPA in the coming week.
- c) A revised non technical summary is not required as this additional information does not impinge on the previously supplied non technical summary.

If you require any additional information, please contact the undersigned.

Yours faithfully,


Gabriel Hynes,
Senior Engineer,
Environment

Encs.



Civic Offices, Dungarvan, Co. Waterford.
Oifigí Cathartha, Dún Garbhán, Co. Phort Láirge.

Tel: 058.22000 Fax: 058.45606

F:\Groups\Environ\MatsRecovery\Facility\Letters 2013





Waste Licensing Waste Disposal Activities (Landfill Sites)

Application by Waterford County Council for Waste Licence Application
W0032-03 for Dungarvan Landfill, County Waterford

EPA Ref. N ^o :	W0032-03
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Replies to Request for further information in
accordance with Article 14(2)(b)(ii) of the Waste
Management Regulations

March 2013



Dungarvan Landfill Waste Licence Application Article 14 Response

DOCUMENT CONTROL SHEET

Client	Waterford County Council					
Project Title	Dungarvan Landfill Remediation Works					
Document Title	Waste Licence Application W0032-03 Article 14 Response					
Document No.	MDR0450Rp1034					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	1	3	-	-	3

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
A01	Final	M. Spillane J.Bennett	John Bennett	John Bennett	West Pier	March 2014

Table of Contents

1	INTRODUCTION.....	1
2	ARTICLE 12 COMPLIANCE REQUIREMENTS	2
2.1	REQUEST FOR INFORMATION NUMBER 1	2
2.1.1	Response to Request for Information Number 1	2
2.2	REQUEST FOR INFORMATION NUMBER 2	2
2.2.1	Response to Request for Information Number 2	2
2.3	REQUEST FOR INFORMATION NUMBER 3	2
2.3.1	Response to Request for Information Number 3	2
2.4	REQUEST FOR INFORMATION NUMBER 4	2
2.4.1	Response to Request for Information Number 4	2
2.5	REQUEST FOR INFORMATION NUMBER 5	3
2.5.1	Response to Request for Information Number 5	3
APPENDIX 1	CORRESPONDENCE FROM EPA	
APPENDIX 2	DRAWINGS	

1 INTRODUCTION

This report has been compiled to supply additional information in response to a Notice in accordance with Article 14(2) (b) (ii) of the Waste Management (Licensing) Regulations 2004 as amended from the Environmental Protection Agency (EPA) dated February 14th 2014.

The revised drawings and the revision numbers have been outlined below and are included in Appendix 2.

Current Drawing No.	Revision No.	Previous Drawing No.	Title
MDR0350DG0505	R04	DG0505 Revision R03	Monitoring Locations
MDR0350DG0706	R03	DG0706 Revision R02	Leachate Abstraction and Treatment System

2 ARTICLE 12 COMPLIANCE REQUIREMENTS

2.1 REQUEST FOR INFORMATION NUMBER 1

Explain why the lagoon march and marsh area were built.

2.1.1 Response to Request for Information Number 1

The 'Marsh Area' and the 'Lagoon' Marsh' were in place before the commencement of the remediation works; they were not constructed as part of these works.

2.2 REQUEST FOR INFORMATION NUMBER 2

The licence application states that the lagoon marsh and marsh are are hydraulically connected to the Colligan River. Explain in detail the nature of the hydraulic connection and how liquid moves via this connection from the lagoon marsh area to the river. Please include details of the relative permeability of the earthen mund and the gravel bed described in your correspondence dated 20 December 2013.

2.2.1 Response to Request for Information Number 2

The proposed location of the discharge point from the Integrated Constructed Wetland system has been altered. It is now proposed to discharge directly fom the last sampling manhole to the Colligan River; therefore it is presumed that this information is no longer required.

2.3 REQUEST FOR INFORMATION NUMBER 3

State whether the discharge of the treated leachate is in fact a discharge to groundwater and, if Yes, whether it should be regarded as a direct or indirect discharge to groundwater.

2.3.1 Response to Request for Information Number 3

Waterford County Council do not deem the discharge of the treated leachate as a discharge to groundwater. However as it is now proposed to discharge directly to the River Colligan this eliminates this issue.

2.4 REQUEST FOR INFORMATION NUMBER 4

If the discharge of the treated leachate is a discharge to groundwater, carry out a technical asesment of this discharge in accordance with the Guidance on the Authorisation of Discharges to Groundwater, published by the Agency. Describe any actions required to demonstrate and ensure compliance with the European Communities Environmental Objective (Groundwater) Regulations 2010, as amended..

2.4.1 Response to Request for Information Number 4

As outlined in the response outlined in 2.3 above; Waterford County Council do not deem the discharge of the treated effluent as a discharge to groundwater. However, as stated previously, it is now proposed to discharge directly from the last sampling manhole to the Colligan River; therefore it is presumed that this information is no longer required.

2.5 REQUEST FOR INFORMATION NUMBER 5

State why, instead of the current arrangement, the discharge from SWE6 is not piped directly to the river from SWE6.

2.5.1 Response to Request for Information Number 5

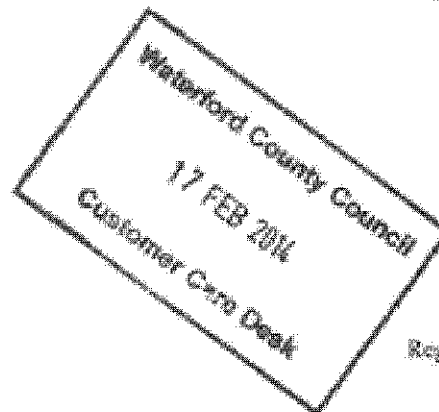
It is now proposed to alter the existing discharge arrangement and to discharge directly from the last sampling manhole to the Colligan River as outlined in the revised drawing MDR0350DG0706R03 which is included in Appendix 3.

APPENDIX 1

CORRESPONDENCE FROM EPA



Mr. Gabriel Hynes
Senior Engineer
Waterford County Council
Environment Section
Civic Offices
Dungarvan
Co. Waterford



Head Office, PO Box 3000
Johnston's Castle Court
Cork City, Ireland

Correspondence, Room 2079
Leeds City Council, Waste Centre
Leeds LS10 1JH, UK

T +353 23 918650
F +353 23 918650
E info@epa.ie
W www.epa.ie
Local 1890333333

14 February 2014

Reg. No. W0032-03

re: Notice in accordance with Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations

Dear Mr. Hynes,

I am to refer to the above referenced application for a waste licence relating to a facility at Dungarvan Waste Disposal Site, Ballynamuck Middle, Dungarvan, Co. Waterford.

Having examined the documentation submitted, I am to advise that the nature of the discharge from the wetlands and the manner by which it reaches the Colligan River remains unclear and you are therefore requested, in accordance with Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations, to take the steps and supply the information detailed below:

1. Explain why the lagoon marsh and marsh area were built.
2. The licence application states that the lagoon marsh and marsh area are hydraulically connected to the Colligan River. Explain in detail the nature of the hydraulic connection and how liquid moves via this connection from the lagoon marsh and marsh area to the river. Please include details of the relative permeability of the earthen mound and the gravel bed described in your correspondence dated 20 December 2013.
3. State whether the discharge of the treated leachate is in fact a discharge to groundwater and, if yes, whether it should be regarded as a direct or indirect discharge to groundwater.
4. If the discharge of the treated leachate is a discharge to groundwater, carry out a technical assessment of this discharge in accordance with the *Guidance on the Authorisation of Discharges to Groundwater*, published by the Agency. Describe any actions required to demonstrate and ensure compliance with the European Communities Environmental Objective (Groundwater) Regulations 2010, as amended.
5. State why, instead of the current arrangement, the discharge from SWE6 is not piped directly to the river from SWE6.

Also, it is noted that Waterford County Council's correspondence of 6 August 2010 stated that the fee for recovery of waste for a licence review is €5000. It is actually €6000. Please forward the balance due at your convenience.

Your reply to this notice should include a revised non-technical summary which reflects the information you supply in compliance with the notice, insofar as that information impinges on the non-technical summary.

In the case where any drawings already submitted are subject to revision consequent on this request, a revised drawing should be prepared in each case. It is not sufficient to annotate the original drawing with a textual correction. Where such revised drawings are submitted, provide a list of drawing titles, drawing numbers and revision status, which correlates the revised drawings with the superseded versions.

Please supply the information in the form of a one original plus one copy in hardcopy format within *four weeks* of the date of this notice. In addition please submit two copies of the requested information in electronic searchable PDF format on a CD-ROM to the Agency. Please note that all maps/drawings should not exceed A3 in size.

Please note that the application's register number is W0032-03. Please direct all correspondence in relation to this matter to Administration, Licensing Unit, Office of Climate, Licensing & Resource Use, Environmental Protection Agency, Headquarters, PO Box 3000, Johnstonstown Castle Estate, County Wicklow quoting the register number.

Yours sincerely,



.....
Ewa Babiarczyk
Inspector
Office of Climate, Licensing & Resource Use

APPENDIX 2

REVISED DRAWINGS

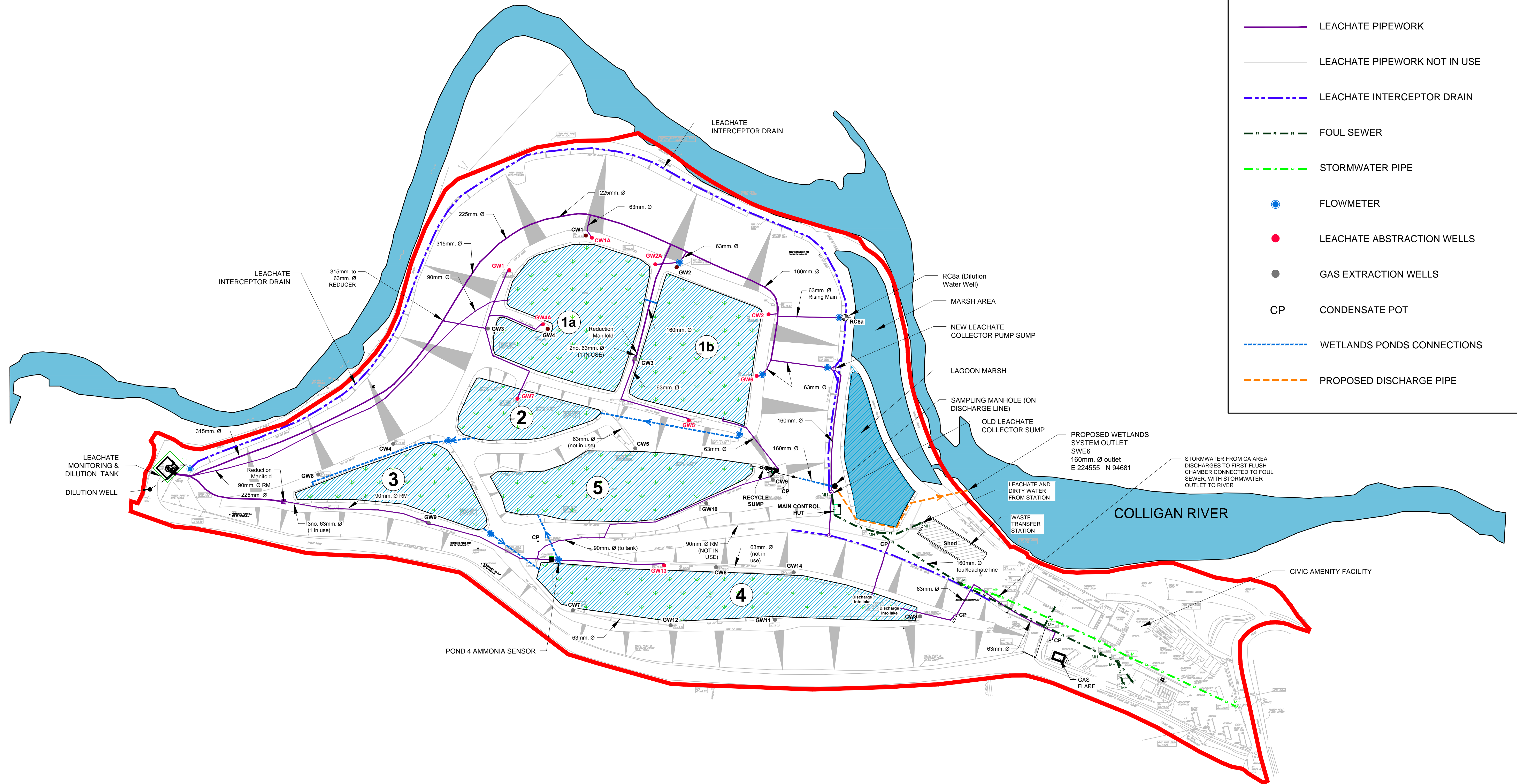
List of Drawings Associated with this Reponse

Current Drawing No.	Revision No.	Previous Drawing No.	Title
MDR0350DG0505	R04	DG0505 Revision R03	Monitoring Locations
MDR0350DG0706	R03	DG0706 Revision R02	Leachate Abstraction and Treatment System



LEGEND

- EXTENT OF SITE
- CONSTRUCTED WETLANDS
- WATER
- LEACHATE PIPEWORK
- LEACHATE PIPEWORK NOT IN USE
- LEACHATE INTERCEPTOR DRAIN
- FOUL SEWER
- STORMWATER PIPE
- FLOWMETER
- LEACHATE ABSTRACTION WELLS
- GAS EXTRACTION WELLS
- CP CONDENSATE POT
- WETLANDS PONDS CONNECTIONS
- PROPOSED DISCHARGE PIPE



NOTES

1. This drawing is the property of RPS, it is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. All Levels refer to Ordnance Survey Datum, Malin Head.
3. DO NOT SCALE, use figured dimensions only, if in doubt ask.

R03	Mar. '14	Rev	As Built Issue		
No.	Date	Drn. Chk.	Amendment / Issue	App	

Client

WATERFORD COUNTY COUNCIL
 Comhairle Chontae Phort Láirge
 Civic Offices, Dungarvan, Co. Waterford
 Phone: 058 22000 Fax: 058 42911

Drawn By: RH
 Checked By: JB
 Approved By: JB
 Date: June 2011

RPS West Pier Business Campus, Dun Laoghaire, Co. Dublin

Tel: +353 1 4882900
 Fax: +353 1 2835676
 Web: www.rpsgroup.com/ireland
 Email: ireland@rpsgroup.com

Project: **DUNGARVAN LANDFILL REMEDIATION**

Drawing Status: As Built
 Scale / Sheet Size: 1:1000 @ A1, 1:2000 @ A3

Drawing Number: **MDR0350/DG0706**

Rev: **R03**

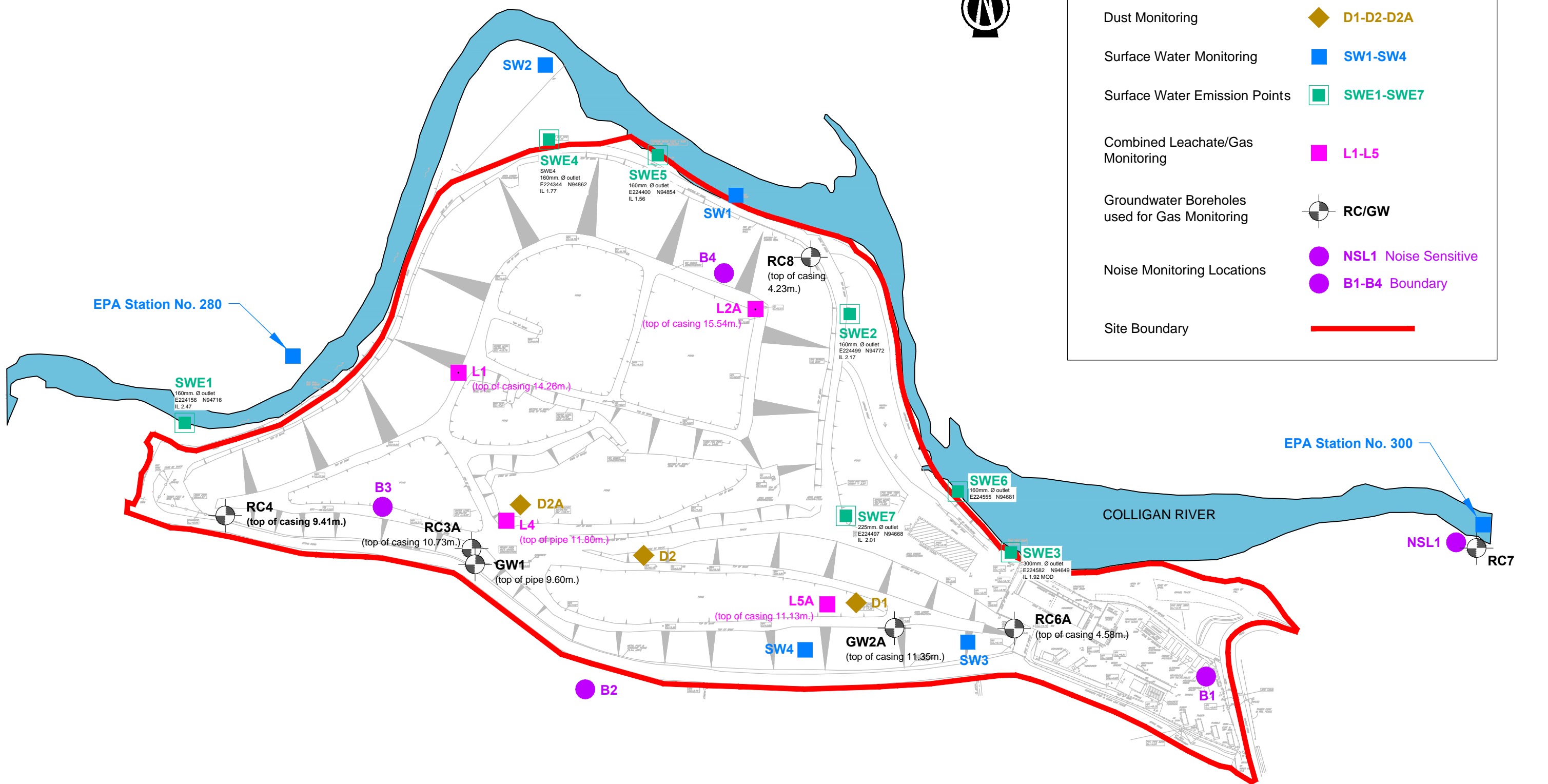
Title: **LEACHATE ABSTRACTION AND TREATMENT SYSTEM**

R:\MDR0350\03\AS-BUILT\DRGS - DEC 2012\March 2014 Update\mrd350\03\0706R03 - LEACHATE LAYOUT.dwg



LEGEND

- Dust Monitoring ◆ D1-D2-D2A
- Surface Water Monitoring ■ SW1-SW4
- Surface Water Emission Points ■ SWE1-SWE7
- Combined Leachate/Gas Monitoring ■ L1-L5
- Groundwater Boreholes used for Gas Monitoring ⊗ RC/GW
- Noise Monitoring Locations ● NSL1 Noise Sensitive
● B1-B4 Boundary
- Site Boundary —



NOTES

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- All Levels refer to Ordnance Survey Datum, Malin Head.
- DO NOT SCALE, use figured dimensions only, if in doubt ask.

No.	Date	By	App	Amendment / Issue
R04	Mar. '14	RH	M/S	As Built Issue
R03	Dec. '13	RH	M/S	Draft Issue

Client			
 WATERFORD COUNTY COUNCIL Comhairle Chontae Phort Láirge Civic Offices, Dungarvan, Co. Waterford Phone: 058 22000 Fax: 058 42911			
Drawn By	Checked By	Approved By	Date
RH	BOK	MS	April 2008

Project	
 DUNGARVAN LANDFILL	
Drawing Status	Scale / Sheet Size
As Built	1:1000 @ A1 1:2000 @ A3

Drawing Number	Rev
MDR0350/DG0505	R04
Title	
MONITORING LOCATIONS	

R:\MDR0350\DG0505-BUILT DRGS - DEC 2012\March 2014 Update\mdr0350DG0505R04 - MONITORING.dwg