

The LEMA Project:

AN ENVIRONMENTAL LICENCING, ENFORCEMENT AND MONITORING APPLICATION DEVELOPED BY THE EPA.

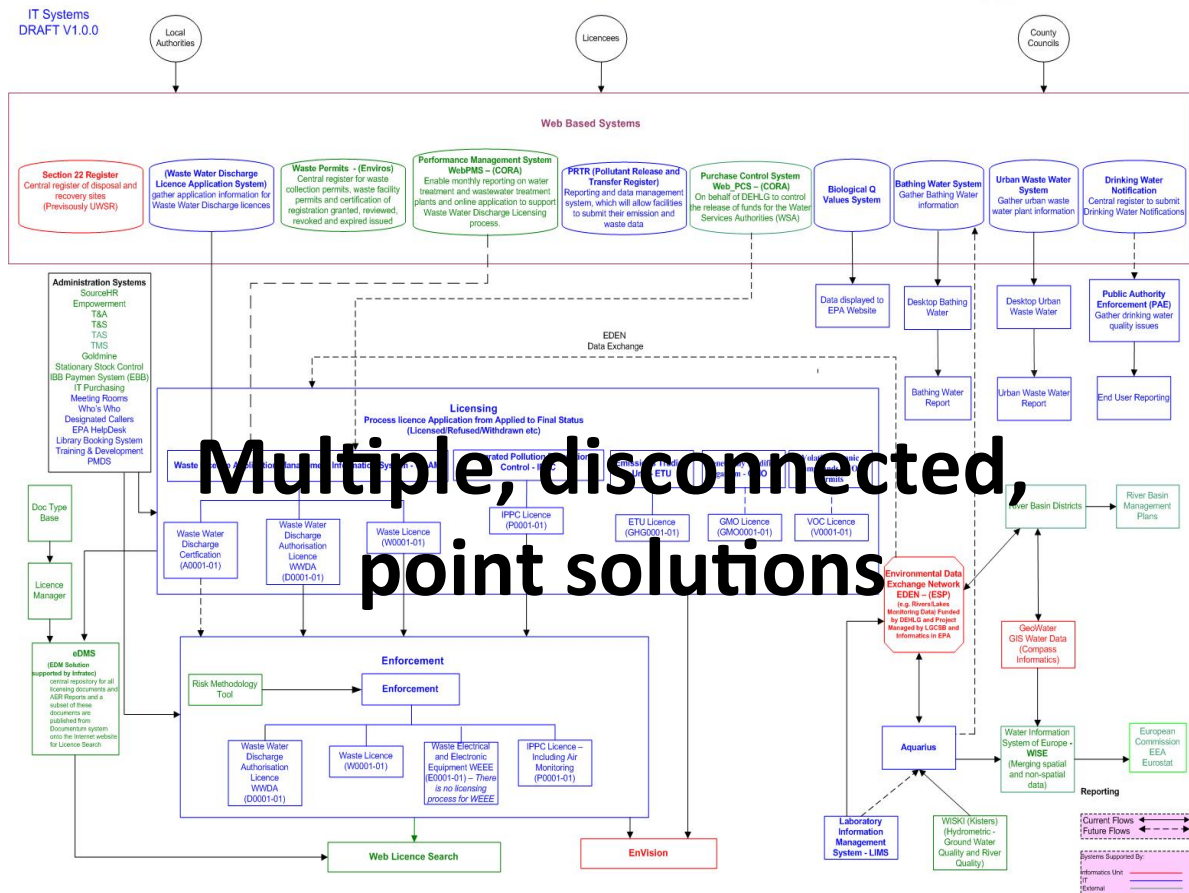
Valerie Doyle and Owen Pullen

LEMA - Scope

- To develop a new, end-to-end licensing, enforcement, monitoring and reporting application (LEMA).
- To employ contemporary ICT and GIS technologies to enhance the work procedures of Agency staff through the elimination of duplication, reduction of reliance on manual procedures and promotion of strategic practices.

Developing Solutions

The “as was”



New core technologies

- EDEN portal – licensee registration and access
- Web applications – licensee facing interaction
- Dynamics CRM – EPA staff interaction
- ArcGIS – spatial data
- Sharepoint – document repository
- www.epa.ie – interaction with members of the public

One data set, three perspectives



Members of the public



Environmental Protection Agency
Making an Environmental Complaint to the EPA

Suspected Cause (Step 1 of 4)
Please help us to identify who you believe to be the cause of the pollution.
Is the cause of the pollution a site licensed by the EPA?

Please identify the licensee*

Local Authority**
Town**


Licensee**
Limerick City Council
Limerick

[Back](#) [Next](#)

EPA.IE



Licensees

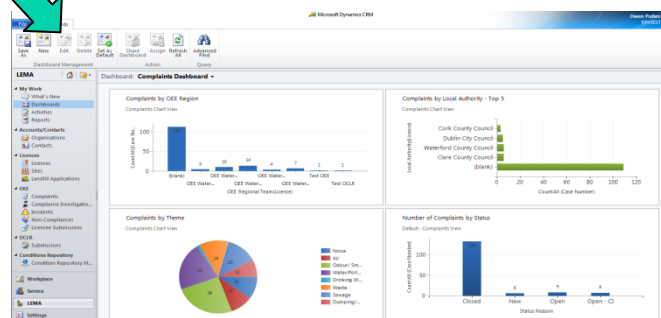


My Notifications for Wexford County Council

The list below summarizes the notifications you have received.

License Name	Type	Subject	Date	Status
Ballymore	Licensing Action	Reg 18(2)(b) Notice Sent		Closed
Ballymore	Licensing Action	Reg 18(2)(b) Notice Sent		Closed
Ballymore	Licensing Action	Reg 18(2)(b) Notice Sent		Closed
Buncilly	CI Action	Action arising following meeting of 21-01-12	17/06/2012	Closed
Buncilly	CI Action	Breach of Order 91 2012-10 and 2012-06	18/06/2012	Closed
Buncilly	CI Instruction	Investigation of Road report and request to monitor plant performance	13/06/2012	Closed
Buncilly	CI Action	Request for monitoring reports for August, September and October	14/06/2012	Open
Buncilly	CI Action	Dissemination of discharge at Buncilly	06/06/2012	Closed

EDEN /
ALDER
Portal



LEMA
Platform

EPA Staff



Demonstration

Licensee view



File

Licence

Add

Customize



Save



Save & Close

Save & New

Deactivate

Delete

Save



Assign

Sharing

Copy a Link

Follow

Collaborate

Unfollow



Run Report

Data



Upload Document

Documents



Show Map

Map

Information

Record Wall

General Licence Details

Contacts



Licence

Galway

Licences



Incidents All Incidents

Search for records



Incident No. ▼	Created On	Approximate Start of...	Licence	Incident Status	Category	Incident Nature	Likely Cause	Compliance In
INCI000796	12/02/2013 10:03	06/02/2013 14:00	Galway	Closed	2. Limited	Spillage	Blocked Sewer	
INCI000774	08/02/2013 09:42	28/01/2013 11:00	Galway	Closed	1. Minor	Spillage	Adverse Weather	
INCI000505	16/10/2012 12:40	08/10/2012 12:45	Galway	Closed	2. Limited	Uncontrolled Release	Plant or equipment b...	Galway City: Disc
INCI000419	27/08/2012 15:37	19/08/2012 17:25	Galway	Closed	2. Limited	Uncontrolled Release	SWO exceptional rain...	Galway City: Disc
INCI000135	19/04/2012 11:31	18/04/2012 12:45	Galway	Closed	1. Minor	Uncontrolled Release	Plant or equipment m...	
INCI000048	01/03/2012 11:54	25/02/2012 03:45	Galway	Closed	1. Minor	Uncontrolled Release	Emergency overflow...	

Enforcement Summary

Compliance Investigations

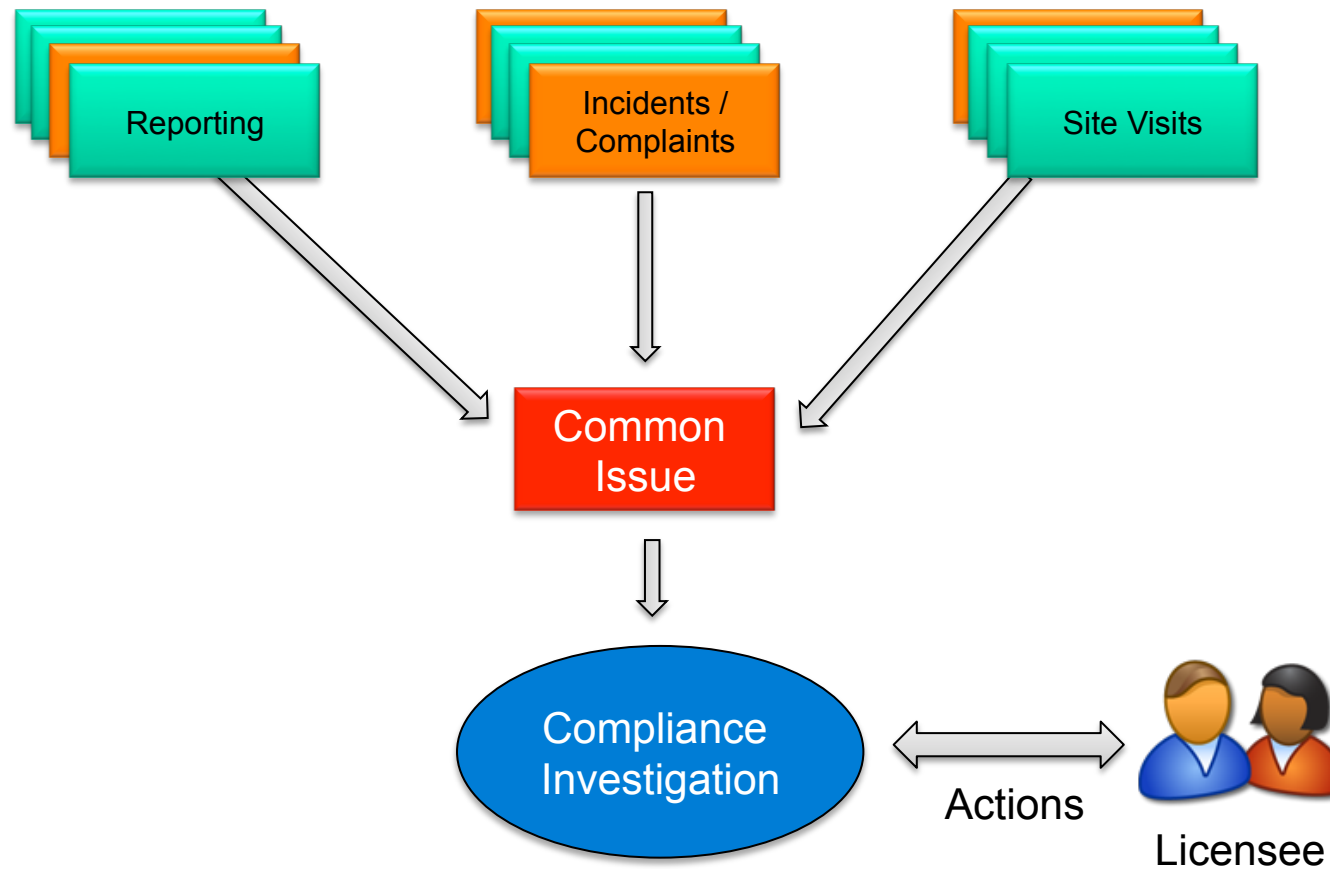
Case Number ▼	Status Reason	Title/Name	Origin	Response Level	Next Action Date ▼	
CI000081	Closed	Galway City: Discharge fro...	Incident Notifica...	Low		

Environmental Risk

PIP/Priority Site	<input checked="" type="radio"/> No <input type="radio"/> Yes	Date Added to PIP List	<input type="text"/>	Date Removed from PIP List	<input type="text"/>
Causing Serious Pollution (OEA)	<input checked="" type="radio"/> No <input type="radio"/> Yes	Causing Moderate or Slight Pollution (OEA)	<input checked="" type="radio"/> No <input type="radio"/> Yes	Bathing Water Failure (Mandatory)	<input checked="" type="radio"/> No <input type="radio"/> Yes
Pearl Mussel Pressure	<input checked="" type="radio"/> No <input type="radio"/> Yes	Shellfish Water Pressure	<input checked="" type="radio"/> No <input type="radio"/> Yes	DREAM Drinking Water Abstraction Risk	<input checked="" type="radio"/> No <input type="radio"/> Yes
DREAM Possible Impact	SAC Salmonid NHA SPA		DREAM Observed Impact	Bathing Water	Environmental Risk Comment
No Treatment or Preliminary Only	<input checked="" type="radio"/> No <input type="radio"/> Yes	Secondary Treatment Overdue	<input checked="" type="radio"/> No <input type="radio"/> Yes	Nutrient Reduction Treatment Overdue by	<input checked="" type="radio"/> No <input type="radio"/> Yes



Compliance Investigations





Case Number CI000081

Licence



Response Level

Low

Status Open

Created On

03/12/2012 13:15

Licensee Galway City Council

Reg No

D0050-01

OEE Team

OEE Water Castlebar



Task

New

Tasks ▼ ↑

Task

Task *

CI Action ▼

Action Number

Title *

Schedule for Plant Upgrade Work

Due *

31/07/2013



Action Status

Open ▼

Not progressing due
to lack of funds

Action Type

Internal

Preventative/Corrective Action

Request for Information

Sanction

Action Type
Subcategory

Engage Expertise

Infrastructure

Operational / Procedural

Training

Recipient *

Licensee ▼

Description *

The EPA requires that you set out a schedule for agreement for the upgrade of the Waste Water Treatment Plant to minimise the operation of stormwater overflow SWO2.

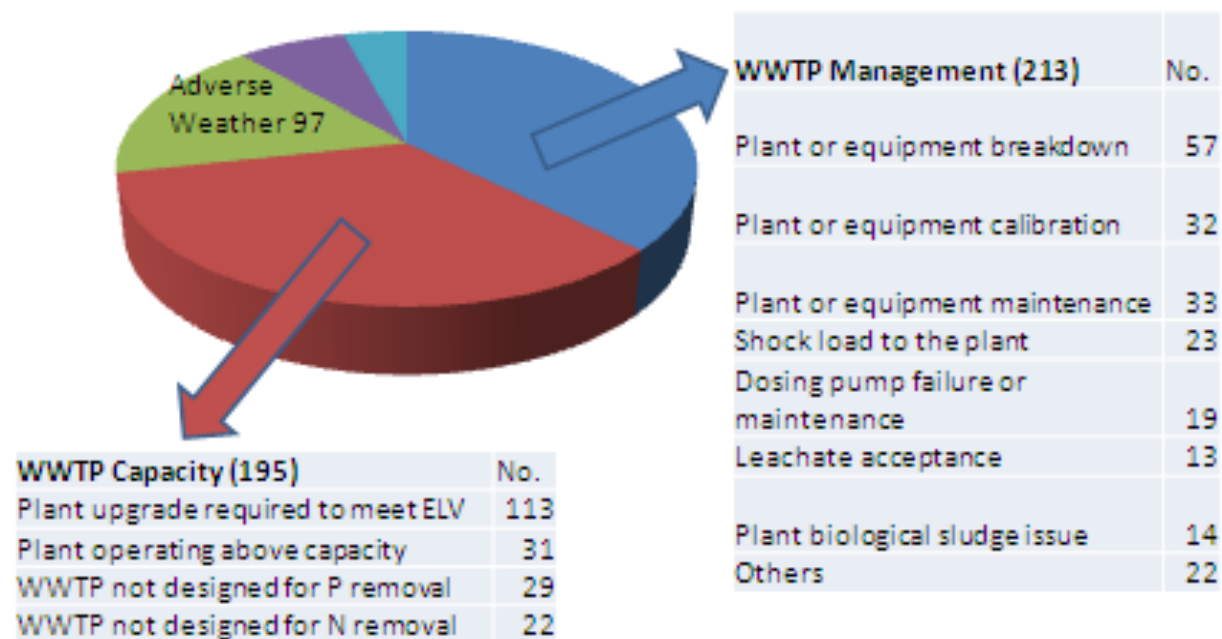
Licensee view



Benefits

Management Information

Root causes of WWDA incidents 2012



LEMA – Key Benefits

- Receipt of all incoming information as electronic data via webforms.
- Automated notification of site incidents from the licensee directly to Enforcement Inspectors.
- Automated notification of Licence non-compliance directly to Enforcement Inspectors.
- Standardisation of Licences and licence conditions.
- Develop a greater understanding of the outcomes of Agency work.
- Automated reporting (Internal & EU).

Thank You