



Richard Deeney

Senior Environmental Scientist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Richard is Senior Environmental Scientist at Fehily Timoney. Richard holds a B.Sc. First Class Honours degree in Environmental Management from Dublin Institute of Technology. Richard works in the Waste and Environment team at Fehily Timoney and is experienced in project managing and coordination of Planning Applications, Environmental Impact Assessment Reports and Environmental Assessment, the development of Environmental Management Plans and Systems, Environmental Auditing and Environmental/Permit/License Compliance.

Richard has excellent experience in the production of high-quality planning applications and associated documentation for various types of development including waste facilities, quarries, renewable energy development, metal processing facilities and tourism development. Richard has provided environmental assessment services to clients from various sectors such as manufacturing, pharmaceuticals, construction, waste management, quarrying, chemicals, the food and drink industry and the petroleum industry.

Key Skills

- Project Management
- Planning Applications
- Environmental Impact Assessment Reports
- Environmental Assessment
- Environmental Management Plans/Systems
- Environmental Auditing
- Environmental/Permit/License Compliance.

Previous Experience Essentials for this Project

- **Claremorris Historic Landfill, 2022**
Richard was responsible for completing a concurrent Section 177AE application and CPO confirmation application for the Claremorris Historic Landfill Remediation project. Richard was responsible for coordinating the completion of various supporting planning and environmental assessment documentation and for planning submission logistics. Richard was responsible for completing all CPO Documentation and Notices under this project. The Board is due to make a decision on the applications in November 2022.
- **Oxygen Environmental, Material Recovery Facility, 2021 (Ongoing)**
FT were appointed by Oxygen Environmental to prepare a Planning Application, EIAR and NIS for a proposed Material Recovery Facility based in Derryrarkin, Co. Offaly. Richard has been assigned lead planning application/EIAR coordinator on this project. Richard is responsible for coordinating the design of the proposed facility and for completing the planning application and the EIAR for the proposed development, including the carrying out of various EIAR Chapters. Richard is also responsible for coordinating internal and external specialist in carrying out other specialist EIAR Chapters, managing stakeholder consultation and coordinating baseline environmental monitoring and ecological surveys under the project.

Key Information

Qualifications

Advanced Diploma in Planning and Environmental Law,
Kings Inns, Ireland 2017

B.Sc. First Class Honours Degree,
Environmental Management,
Dublin Institute of Technology, 2012

Professional Memberships

Chartered Environmentalist,
The Society for the Environment

Member, Institution of Environmental
Sciences (IES)

Member, Institute of Environmental
Management and Assessment (IEMA)

Associated Member,
Institute of Air Quality Management
(IAQM)

Employment History

2021 – Present

Fehily Timoney & Company
Senior Environmental Scientist

2017 - 2021

Environmental Efficiency
Consultants Ltd.
Senior Environmental Consultant

2014 - 2017

Environmental Efficiency
Consultants Ltd.
Environmental Consultant

2012-2014

Environmental Efficiency
Consultants Ltd.
Intern /
Junior Environmental Consultant



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- **Thorntons Recycling, Material Recovery Facility 2021 - 2022**

Richard is responsible for coordinating the completion of an SID Application, EIAR and NIS for a Material Recovery Facility with a capacity to accept 300,000 tonnes per annum of waste to be based at Cappogue, Co. Offaly. Richard coordinated the completion of baseline environmental monitoring and assessment, and a robust design for the proposed development and is in the process of completing/coordinating the completion of EIAR chapters and an NIS for the proposed development. Planned planning application submission date is Mid-August 2022. Richard was responsible for negotiating the SID pre-application process with the Board, and coordinating the carrying out of stakeholder consultation, including Virtual Public Consultation. Richard also coordinated the carrying out of Geotechnical and Environmental Site Investigation for the project and was involved in coordinating gaining consent for the advance re-routing of electricity supply lines with the ESB under the project.

- **Mr Anthony O' Donoghue, 2021 – 2022**

Richard was responsible for completing a carefully developed and robust planning/retention planning application for a Mr Anthony O' Donoghue. This was a complex case. Unauthorized development in the form of infilling, buildings and timber processing activities were present on-site. It was necessary to regularize the situation and concurrently upgrade the site design to improve traffic safety at the site entrance, surface water and wastewater management on-site, and visual amenity in the vicinity of the site. Richard, as Project Manager, coordinated the preparation of a robust design for the proposed development. This project was made more complicated by the fact the site was situated on a Flood Risk Zone and was hydrologically connected to a Natura 2000. These matters had to be negotiated carefully during the planning process. A favourable RFI was issued in relation to the proposal in May 2022.

- **Quality Recycling Limited, Civic Amenity Facility, 2021 - 2022**

Richard was responsible for coordinating completing a Planning Application, Planning and Environmental Report, AA Screening and EIA Screening for a proposed Civic Amenity Facility based in Carrick On Suir, Co. Tipperary. Richard coordinated the completion of site entrance and traffic management designs which are considered to be critical to the success of the application given site constraints. Planning Decision due in early July 2022.

- **Tipperary Town Historic Landfill, 2022**

Richard was responsible for completing a concurrent Section 177AE application and a complex CPO confirmation application for the Tipperary Town Historic Landfill Remediation project. Richard was responsible for coordinating the completion of various supporting planning and environmental assessment documentation. Richard was responsible for completing all CPO Documentation and Notices under this project. Planning submission is currently hold pending management by Tipperary County Council themselves.

- **Edenderry Power Plant, 2021**

FT were appointed by Edenderry Power Limited to prepare and submit a Planning Application, an EIAR and an NIS for the continued operation of Edenderry Power Plant from the beginning of 2024 to the end of 2030 exclusively using sustainable biomass fuel. Richard was responsible for completing various technical chapters of the EIAR, coordinating the completion of the EIAR, completing the planning application and completing the statutory notices for the proposed development. Richard was also responsible for compiling, collating and submitting the planning application to Offaly County Council. This Planning Application is currently under consideration.

- **Clonbullogue Ash Repository, 2021**

FT were appointed by Bord na Móna Energy Ltd to prepare and submit a Planning Application, an EIAR and an NIS for the continued operation of Clonbullogue Ash Repository based in Cloncreen, Clonbullogue, Co. Offaly from the beginning of 2024 until the end of 2031. Ash from Edenderry Power Plant is deposited within this ash facility. Richard was responsible for completing various technical chapters of the EIAR, coordinating the completion of the EIAR, completing the planning application and completing the statutory notices for the proposed development. Richard was also responsible for compiling, collating and submitting the planning application to Offaly County Council. This Planning Application is currently under consideration.



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Senior Environmental Scientist



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- **Health Beacon Ltd, Healthcare Waste Management Facility, 2020:**

Richard was responsible Completion of a Planning Application for a Healthcare Waste Management Facility based in Bluebell, Dublin 12. Richard coordinated the completion of a supporting planning and environmental assessment report and an AA Screening and EIA Screening report for the proposed facility. Permission for the proposed development was secured. Richard assisted with the development of the proposed design of the facility and provided advice on mitigation and control measures to be implemented at the facility to prevent the release of polluting discharges from the facility. Richard was also responsible for the completion of an IE licence application for the proposed facility.

- **Sancom Ltd., Soil/C&D Material Recovery Facility, Capital Value, 2018 - 2020:** Richard was responsible for the completion and coordination of a Planning Application, an EIAR and other supporting design and environmental assessment work for a large scale inert MRF based in Graney West, Castledermot, Co. Kildare. Richard was responsible for scoping potential environmental impacts, managing stakeholder consultation, completing various EIAR Chapters including Population and Human Health, Air and Climate, and Material Assets, coordinating internal and external specialists responsible for completing EIAR Chapters, and collating, compiling and submitting the planning application pack. Planning permission was ultimately secured. Richard was also responsible for completion of a Waste Licence Application for the proposed facility.

- **DJ Hanley, Waste Material Recovery Facility, 2020:** Richard was responsible for the completion of a Planning Application, as well as supporting environmental assessment and an AA and EIA Screening Report, for a Waste Transfer Station based in the outskirts of Wicklow Town, Co. Wicklow. Richard assisted extensively with the development of the proposed design of the facility and provide key advice in the areas of noise management, dust management, management of aqueous discharges, waste acceptance procedure and waste intake record keeping. Richard was also responsible for the completion of a Waste Facility permit Application for the proposed facility. Permission for the proposed development was secured.

- **Ecoplex, WEEE Storage and Transfer Facility, 2020:** Richard was responsible for the completion of a Planning Application and supporting environmental and planning assessment for WEEE Storage and Transfer Facility based in Redleaf Business park, Donabate, Co. Dublin.

Offaly County Council, Planning Department, Draft Only





Bernie Guinan

Director



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Bernie is Director with FT responsible for Waste & Resource Management and Environmental Science. She has 20 years' experience in delivering and managing projects in environmental sector. Bernie has extensive experience in the preparation of Planning Applications, Environmental Impact Assessment Reports, Appropriate Assessments for a wide range of infrastructure developments for Local Authorities, Public Authorities, Semi-State Bodies and private developers. She has experience delivering expert testimony at Oral Hearings and Court Cases.

Previous Experience Essentials For This Project

- Oxigen Environmental Ltd. - Materials Recovery Facility, €8-10M, 2020 – Ongoing.**
 Project Director for the development of the facility design and the preparation of planning application, EIAR and NIS for a 90,000 tpa facility that will accept household, commercial, food and construction and demolition waste.
- Bord an Móna Energy Ltd. - Clonbullogue Ash Repository, 2019-2020- Planning Decision Pending.**
 Project Manager for the preparation of a Planning Application, EIAR and NIS for the continuation of Clonbullogue Ash Repository from 2024 to 2031 for the acceptance of ash from Edenderry Power Station.
- Bord an Móna Energy Ltd. - Clonbullogue Ash Repository, 2020- Planning Decision Granted by Offaly Co. Co. in 2021.**
 Project Manager for the preparation of a Planning Application, EIAR and NIS for the continuation of Clonbullogue Ash Repository from 2022 to 2023 for the acceptance of ash from Edenderry Power Station.
- Edenderry Power Ltd. – Continued use of Edenderry Power Plant exclusively using Biomass, 2020-2021**
 Project Manager to prepare and submit a Planning Application, an EIAR and a NIS for the continued operation of Edenderry Power Plant from the beginning of 2024 to the end of 2030 exclusively using sustainable biomass fuel. This Planning Application is currently under consideration by Offaly Co. Co.
- Bord na Móna Energy Ltd. - Retention Planning Application for a Biomass Facility at Drumman, Co. Offaly – 2020-2021**
 Project Director for the preparation of a Planning Application for the retention and continuation of Drumman Biomass Facility, Co. Offaly. The application process involved conducting pre-planning consultations and preparing the planning application and planning support statement. Permission was granted by Offaly Co.Co. in 2021.
- Bord na Móna Energy Ltd. - Retention Planning Application for a Croghan Biomass Facility at Croghan, Co. Offaly – 2020-2021**
 Project Director for the preparation of a Planning Application for the retention and continuation of Croghan Biomass Facility, Co. Offaly. The application process involved conducting pre-planning consultations and preparing the planning application and planning support statement. Permission was granted by Offaly Co.Co. in 2021.
- Bord na Móna Energy Ltd. - Retention Planning Application for a Toar Biomass Facility, Co. Westmeath – 2020-2021**
 Project Director for the preparation of a Planning Application for the retention and continuation of Toar Biomass Facility, Co. Westmeath. The application process involved conducting pre-planning consultations and preparing the planning application and planning support statement. Permission was granted by Westmeath Co.Co. in 2020. This grant was subject to a third party appeal to An Bord Pleanála (ABP) but granted planning in 2021.

Key Information

Qualifications

- MSc, BSc. (Envi. Sci & Tech),
- Dip. Pollution Assessment Control
- Dip. Business Development

Professional Memberships

- Chartered Institution of Wastes Management (CIWM)

Employment History

2006- Present

- Fehily Timoney & Company, Dublin
Position

2000 – 2006

- Fehily Timoney & Company, Cork
Position

1999 – 2000

- Entec UK Ltd., Dublin
Position

1997 – 1999

- A.T. Cross Ltd., Galway
Position





Bernie Guinan

Director



CONSULTANTS IN ENGINEERING,
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- **Powergen Ltd. - Bord na Móna – Development of a Renewable Gas Project 2018 – 2019. Planning was granted by Laois Co. Co. in January 2020**
Project Manager for the preparation of an EIAR, Planning Application and AA Screening for a 80,000 tpa anaerobic digestion facility, biomethane cleaning plant and gas to grid entry unit, junction upgrade on the R445 and an 1.5KM extension of the GNI local grid network. This planning is subject to a third party appeal to An Bord Pleanála.
- **Quirk's Quarries – Preparation of Planning Application and EIAR 2017-2019. Planning was granted by Kerry Co. Co. 2020**
Project Director for the preparation of an EIAR and Planning Application for the continuation of use of an existing quarry and the development of an 12 ha extension in Killarney, Co. Kerry. This planning is subject to a third party appeal to An Bord Pleanála.
- **Knockarley Landfill Ltd.- Intensification of Waste Acceptance and the Development of Incineration Bottom Ash Storage, Biowaste Treatment and Leachate treatment Facilities 2016 – 2019. Planning was granted by An Bord Pleanála in 2021.**
Project Director for the preliminary design and preparation of the EIAR, Strategic Infrastructure Development (SID) Planning Application, NIS, Liaison with the Client and review and approval of the application. The proposed development is for the acceptance of 440,000 tpa of waste. This development is one of the largest waste related SID application in the history of the state at the time of writing.
- **Kerry County Council – South Kerry Greenway – Planning Application and EIS 2015 – 2019. Planning was granted by An Bord Pleanála in 2020.**
Project Director for the preparation of an EIAR and Planning Application under the Roads Acts for the development of 32 KM for Greenway from Glenbeigh to Rennard. The planning application was lodged to An Bord Pleanála in August 2018 and granted in 2020.
- **Thorntons Recycling Ltd – Construction and Demolition Waste – Retention Planning Application and AA Screening 2019. Planning was successfully grant by Fingal Co.Co .**
Project Director for the preparation of a Retention Planning Application for a Construction and Demolition facility. The development comprised of a waste processing building, welfare and office accommodation and ancillary infrastructure including surface and foul drainage.
- **Thorntons Recycling Ltd – Intensification of a Construction and Demolition Waste Facility 2020 – Planning Application, EIAR and AA Screening. Planning was successfully grant by Fingal Co.Co .**
Project Director for the preparation of a Planning Application., EIAR and AA Screening for the intensification of a Construction and Demolition facility to 49,000 tpa. The development comprised of a waste processing building, welfare and office accommodation and ancillary infrastructure including surface and foul drainage.
- **Thorntons Recycling Ltd. - Millennium Park Material Recovery Facility – EIAR, Strategic Infrastructure Development (SID) Planning Application, AA Screening and IE Application 2016-2017. Planning was successfully grant by ABP.**
Project Director for the preparation of an EIAR, SID Planning Application and IE Licence Application for a Materials Recovery Facility (MRF) and waste transfer station to process up of 170,000 tpa MSW, brown bin and C&D wastes. The development comprised of a waste processing building, a baled storage building, welfare and office accommodation and ancillary infrastructure including surface and foul drainage.
- **EIS for Aviation Fuel Pipeline Dublin Port to Dublin Airport, Ireland, €18.6m 2011 - 2016**
Project Director for the preparation of planning application, EIS, NIS and flood risk assessment for a 14km pipeline route through Dublin City. A dual application to both Dublin City Council and Fingal County Council requiring over three years consultation with various sections of the local authorities on route selection and EIS scoping.
- **Cork Dockyard Scrap Metal Recycling Facility, Co. Cork Ireland €1.5m 2011 –2013**
Project Director for the development of a scrap metal recycling facility (45,000 tpa) an RDF storage facility (45,000 tpa) including pre-application consultations, preliminary design, EIS, Stage 1 AA screening report, flood risk assessment and planning application. Permission was refused by Cork County Council but was successfully appealed by FTC to An Bord Pleanála in 2013.
- **Powerstown Landfill Extension of Time Application, Co. Carlow, Ireland €Confidential, 2012**
Project Director for the preparation of the strategic infrastructure application and EIS for the extension of the life of Powerstown Landfill, Co. Carlow. This site had a complex planning history and required significant liaison with the local authorities' senior counsel on the most appropriate way forward.
- **Railway Procurement Agency, Light Rail Schemes, Dublin, Ireland - 2007 – 2011**
Project Director for the preparation of the soils, geology, water quality and waste section of the EISs for the Metro North Depot, Metro West and BXD light rail schemes. Role included participation on scoping workshops and preparing expert witness testimony for the metro west and BXD projects.



Bernie Guinan

Director



CONSULTANTS IN ENGINEERING,
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- **Peer reviewer of EIS for Silvermines Rehabilitation Project, Co. Tipperary, Ireland, € Confidential, Complete 2009**
Responsible for the independent review of the EIS for the rehabilitation of Silvermines to determine compliance with planning and environmental legislation.
- **Tegral Holdings Ltd, Athy, Co. Kildare, Ireland €100m - Complete 2009**
Project Director for the planning application and EIS for the re-location of the Tegral production facilities from Athy town to a greenfield site (46,000 m2 of building development). Preparation of response to third party appeal to An Bord Pleanála. Permission granted by the Board in 2009.
- **Ballywalter Farms Ltd. Bioenergy Facility, Co. Wexford, Ireland €50m, Complete 2009**
Project Director for the preparation of the planning application, preliminary design EIS and NIS for a 99,000 tpa bioenergy facility. This project proposed the technology anaerobic digestion and substantial on-site wastewater treatment and bio-gas management.
- **Derryclure Landfill, Co. Offaly, Ireland €5m – 2009**
Project Director for the preparation of the EIS and waste licence review application for the intensification of waste acceptance activities at Derryclure landfill from 40,000 tpa to 100,000 tpa.
- **Curraleigh West to Midleton Gas Pipeline, Co. Cork, Ireland €50m - Complete 2008**
Project co-ordinator of the strategic infrastructure application for 47 km Bord Gais pipeline.
- **Biological Treatment Facility, Portlaoise, Co. Laois, Ireland €20m - Complete 2008**
Project Manager for the preparation of the EIS and waste licence application for a 99,000tpa biological treatment facility for a Private Client.
- **Private Client, Co. Wexford, €50M, Complete**
Project Director for the preparation of planning application, EIS and waste licence application for a 100,000 tpa bioenergy facility.
- **Knockharley IWMF - 2010**
Project Director for statutory process for the provision of anaerobic digestion (90,000 tpa), composting and ancillary recycling as part of the upgrade of the Knockharley facility.

Comhairle Chontae Uíbhíne
Offaly County Council
PLANNING

PL2 / 22 / 490
21 / 09 / 2022



Eoin O'Connor

Project Environmental Scientist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Eoin is a Project Environmental Scientist with Fehily Timoney & Company with 7 years' experience in environmental consultancy. Eoin holds an MSc in Environmental Technology from University College Dublin (2014) and a BSc (Hons) in Environmental Science and Health from Dublin City University (2012). Eoin is an Associate Member of the Chartered Institute of Wastes Management and a Graduate Member of the Institute of Environmental Management and Assessment.

Eoin has a broad skill set and experience gathered whilst working as an Environmental Consultant and working closely with a wide variety of small to large scale clients across a multitude of different industries and sectors. Eoin's key areas of work include environmental impact assessment and risk assessment, contaminated land and unregulated landfill investigation, contaminated land remediation, licensing (IED/IPC/Waste), environmental compliance and environmental monitoring.

Key Skills

- Environmental risk and impact assessment
- Environmental and operational management of waste processing facilities
- Contaminated land investigation, modelling and remediation
- Environmental monitoring
- Licence compliance

Previous Experience

- **Thorntons Recycling Ltd – Construction and Demolition Waste – Retention Planning Application and AA Screening 2019. Planning was successfully grant by Fingal Co.Co .**
Eoin assisted with the preparation of a Retention Planning Application for a Construction and Demolition facility. The development comprised of a waste processing building, welfare and office accommodation and ancillary infrastructure including surface and foul drainage.
- **Thorntons Recycling Ltd – Intensification of a Construction and Demolition Waste Facility 2020 – Planning Application, EIAR and AA Screening. Planning was successfully grant by Fingal Co.Co .**
Eoin assisted the preparation of a Planning Application., EIAR and AA Screening for the intensification of a Construction and Demolition facility to 49,000 tpa. The development comprised of a waste processing building, welfare and office accommodation and ancillary infrastructure including surface and foul drainage.
- **Powergen Ltd. - Bord na Móna – Development of a Renewable Gas Project 2018 – 2019. Planning was granted by Laois Co. Co. in January 2021**
Eoin assisted with the preparation of an EIAR, Planning Application and AA Screening for a 80,000 tpa anaerobic digestion facility, biomethane cleaning plant and gas to grid entry unit, junction upgrade on the R445 and an 1.5KM extension of the GNI local grid network. This planning is subject to a third party appeal to An Bord Pleanála.

Key Information

Qualifications

MSc. Environmental Technology,
University College Dublin, 2014

B.Sc. (Hons) Environmental Science
and Health,
Dublin City University, 2012

Professional Memberships

Associate Member of the Chartered
Institute of Wastes Management

Graduate Member of the Institute of
Environmental Management and
Assessment

Employment History

Jan 2019- Present

Fehily Timoney & Company, Dublin
Project Environmental Scientist

Nov 2016 – Dec 2018

OES Consulting
Environmental Consultant

May 2015 – Nov 2016

AWN Consulting
Environmental Consulting





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Project Environmental Scientist



CONSULTANTS IN ENGINEERING,
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- **Kerry Group – EIAR (IED Licence Application)**

Project manager and co-ordinator for the preparation of an EIAR to accompany an Industrial Emissions Licence review application associated with the upgrade to the onsite waste water treatment plant, effluent pipeline construction and evaporator building. Also contributed specialist input and chapters to the EIAR (Hydrology, Hydrogeology and Geology) as well as general sections of the EIAR and preparation of the IED Licence review application.

- **Pfizer Ireland/Jacobs – EIS (Planning)**

Technical input and direct preparation of specialist chapters of EIS to accompany planning application to South Dublin County Council seeking permission for the construction of a new 5-storey manufacturing building, warehouse car park and other associated ancillary aspects of the development. Specialist input included the preparation of Soils, Geology & Hydrogeology chapter, Water (Hydrology) chapter and preparation of accompanying Stage 1 Flood Risk Assessment.

- **Brandon Products Ltd – EIS (Planning)**

Co-ordinator for the preparation of an EIS submitted to Kerry County Council seeking permission for the expansion of an existing manufacturing facility. Work included the co-ordination of internal and external experts to prepare specialist chapters of EIS and direct preparation of hydrology and geology, hydrogeology chapters.

- **Wastewater Monitoring and Reporting**

Eoin has both managed and provided support in conducting comprehensive reviews on wastewater monitoring programmes, review of wastewater treatment and management systems and impact and compliance assessment for IE/IPC licensed sites. This work has included assimilative capacity and dispersion assessment and modelling on receiving water bodies for the purpose of examining potential existing impact, for the determination of appropriate emission limits values and determining compliance with specified licence emission limits or environmental water quality standards. These assessments required extensive review of wastewater monitoring data, compilation of data and preparation of detailed reports.

- **Materials Treating and Coating Facility**

Eoin was the project manager and primary client contact in carrying out a comprehensive investigation into potential environmental odour and water quality impacts. This work comprised the preparation of the correspondence to the Local Authority on behalf of the client in response to legal requests, site walkover and survey, review of existing emissions management systems and practices, management and supervision of the implementation of an air quality and water quality assessment.

- **Kerry Group (multiple sites)**

Project management and direct technical input to the preparation of multiple licence review applications for large scale dairy processing facilities from initial scoping to submission. Work included project management and oversight on project team, direct preparation and compilation of licence review application and all necessary accompanying documentation and reports.

Client contact for all matters relating to the application and liaison with the Agency. Provided further client support on all matters relating to licence compliance following grant of reviewed licence.

- **Multiple Sites**

Provision of ad-hoc support on licence compliance (new and existing licences) including, review and update of environmental management systems, preparation of environmental monitoring reports, preparation of responses to the Agency and Compliance Investigations.

- **Amazon, Cruiserath**

Environmental due diligence assessment for a proposed development. Responsibilities included supervision of site investigation including the excavation of trial pits throughout the site, soil sampling, analysis, interpretation of soil analysis results and reporting.

- **Dublin Airport North Runway Development - Environmental Assessment**

Project involved the investigation of areas of potential contamination and unregulated waste disposal within the development boundary at the Dublin Airport North Runway project. Responsible for review of site investigation data and development of additional soil/waste sampling programme. Data was analysed and informed appropriate disposal route for material. A comprehensive review/audit of waste transport records was also conducted to confirm the utilisation of appropriate waste handlers and waste handling facilities.





Eoin O'Connor

Project Environmental Scientist



CONSULTANTS IN ENGINEERING,
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- **IE Licence Applications and Reviews**

Eoin has both managed and provided support on the preparation of applications for new IE/IPC licences and licence reviews for multiple clients. The preparation of the licence applications requires an in-depth and comprehensive examination of how a facility operates and the how environmental impacts and emissions are best managed. IE/IPC licensed facilities by their nature are large-scale operations and can have a wide variety of operational and environmental sensitivities e.g. storage of hazardous chemicals and fuel, environmental pollution and public health risks and robust regulatory requirements. An integral aspect of the licence applications was to ensure that sufficient environmental protection is in place.

- **Kerry Group (multiple sites)**

Project management and direct technical input to the preparation of multiple licence review applications for large scale dairy processing facilities from initial scoping to submission. Work included; project management and oversight on project team, data gathering and management, direct preparation and compilation of licence review application and all necessary accompanying documentation and reports including environmental impact assessment, BAT/BREF compliance review, materials and resource consumption, nutrient management plans etc. Client contact for all matters relating to the application and liaison with the Agency. Provided further client support on all matters relating to licence compliance following grant of reviewed licence.

Offaly County Council, Planning Dept. - Inspection Purpose Only





James O'Neill

Principal Engineer



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

James is a Chartered Principal Engineer with Fehily Timoney & Company with **12 years post qualification experience** working on landfill and waste related projects. James holds an MSc in Civil Engineering from Trinity College Dublin (2009) and a BEng (Hons) in Civil Engineering from University College Dublin (2008). James is a Chartered Member of the Institute of Engineers Ireland and a Chartered Waste Manager with the Chartered Institute of Wastes Management.

James' primary experience relates to the waste management sector, in particular **landfill remediation and aftercare works, specified engineering works**, investigation and remediation of contaminated lands, **leachate and landfill gas management**, civic amenity site design, operation and construction and environmental & operational management of waste processing facilities.

His areas of expertise include **procurement and site supervision**, project management, contract and tender management. James has a detailed knowledge of the GCCC forms of contracts having been involved in the procurement design, tendering, tender assessment and contract administration of a variety of contracts in the range of €20,000 - €1,500,000.

Key Skills

- Project Management, contracts and tender management
- Contract Administration under Public Works
- Civil Infrastructure Development
- Contaminated land remediation
- Environmental and operational management of waste processing facilities
- Investigation and remediation of contaminated lands, landfill sites and civic amenity site design.

Previous Experience Essentials For This Project

- **Senior Engineer: Renewable Gas Facility, Bord Na Mona**
Responsible for the providing engineering support for the EIAR for a proposed Renewable Gas Facility. The proposed facility will treat 80,000 or organic waste by anaerobic digestion to produce an organic biogas. The biogas will be cleaned and upgrade for injection into the national gas grid network.
- **Senior Engineer: Knockharley Landfill SID**
Responsible for the providing engineering support for the Strategic Infrastructure Development application to An Bord Pleanala. The proposed development is for the intensification of waste acceptance to 440,000 tonnes per annum, development of an incinerator bottom ash facility, leachate treatment facility, biological treatment facility and ancillary infrastructure. The application is currently with ABP.

Key Information

Qualifications

MSc. In Civil Engineering,
Trinity College, Dublin, 2009

BEng. (Hons) Civil Engineering,
University College Dublin, 2008

Professional Memberships

Chartered Member Institute of
Engineers Ireland

Corporate Member of the
Chartered Institution of Wastes
Management

Member of the Society of
Environmentalists

Engineers Ireland: Register of
Approved Chartered Engineers
Historic Landfills

Employment History

2013- Present

Fehily Timoney & Company, Dublin
Principal Engineer

2009 – 2012

Oxigen Environmental
Position

2007 – 2007

Malone O'Regan Consulting
Engineers
Position



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James O'Neill
Principal Engineer



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- **Senior Engineer: HWRC Provision Review, Monmouthshire County Council, Monmouthshire County Council supported by WRAP CCP, Wales 2018- March 2020** Senior Engineer responsible for the Project management of upgrade works to an existing Materials Transfer and recovery Facility in Monmouthshire Wales. Works to include preparation of contract documentation (NEC Form of Contract Option B) design and measure of a detailed CESSM3 Bill of Quantities. Responsibility for management of tender process under a restricted procedure, chairing of pretender contractor meetings, assessment of tenders and contract administration during the construction period and part time supervision of works.
- **Project Engineer: Materials Recovery Facility supported by WRAP CCP, 2015-2016, Newport Wales** Responsible for the Project management of the £500,000 upgrade works to an existing Materials Transfer and recovery Facility in Newport Wales. Works included **preparation of contract documentation (NEC Form of Contract Option B)** design and measure of a **detailed CESSM3 Bill of Quantities**. Responsibility for management of tender process under a restricted procedure, chairing of pretender contractor meetings, assessment of tenders and **contract administration** during the construction period and part time supervision of works
- **Senior Project Engineer: Jubail Waste Transfer Station and MRF, Kingdom of Saudi Arabia – 2017 – Ongoing** International Waste Management expert to local architectural lead designer (Al-Naim Consulting Engineers) on the development of a new waste transfer and materials recovery facility for Jubail Industrial City Royal Commission. Role includes the design of the waste storage and transfer area and rainbow bagged (mixed dry recyclables) materials recovery facility. The facility is the first of its type in the region and will accept up to 300,000 tonnes per annum of mixed residual and segregated (rainbow bag) waste.
- **Senior Project Engineer: Talkus Waste Transfer Station and MRF, Gozo, Malta – 2014-2017** International expert on FIDIC form of contract for a €15 M design build integrated waste management facility in Malta (Gozo; Tal-Kus). Role included the inspection and certification of the operations and management of a WTS in accordance with the Guaranteed Operational Parameters of the Materials Recovery Facility, containerised residual waste transfer system and bulky waste shredding and transfer.
- **Senior Project Engineer: HWRC Provision Review, Carmarthenshire, WRAP CCP, Wales 2017** Senior Engineer responsible for producing a detailed cost estimation for the construction of a HWRC in Carmarthenshire, Wales. Project was undertaken as part of a larger options assessment report. Works included a comparative cost assessment of greenfield and brownfield developments. Included a calculation of facility construction costs, facility infrastructure costs and operational costs.
- **Senior Project Engineer: HWRC Provision Review, Monmouthshire, WRAP CCP, Wales 2017** Senior Engineer responsible for producing a detailed cost estimation for the construction of a HWRC in Monmouthshire, Wales. Project was undertaken as part of a larger options assessment report. Works included inspection of all operational sites, the analysis of site layout and infrastructure, a comparative cost assessment of development options, including facility upgrades and construction on possible contaminated land. Included a calculation of facility construction costs, facility infrastructure costs and operational costs.
- **Project Engineer, Review of HWRC and WTS, Blaenau Gwent, WRAP CCP, Wales 2017** Project Engineer responsible for site assessment of existing HWRC sites in terms of existing infrastructure and service provision by site walkover, assessment of site development potential e.g., reconfigurations, upgrade works, extensions into adjoining lands etc. Works also included development of conceptual site sketches, preparations of detailed civil cost estimates for identified upgrade works and preparation of detailed civil cost estimates for proposed new build site location.
- **Project Engineer: Due Diligence Performance Assessment, Dry Mixed Recyclable Processing Line, Glasgow City Council, Location: Scotland, 2013** Due diligence performance assessment of an existing comingled recyclables processing line on behalf of Glasgow City Council The assessment a full desk top review of the existing plant, mechanical and electrical condition survey, plant valuation and the conduction of a full scale testing programme processing materials for a two week period. The full scale trial included waste input and output compositional analysis.
- **Project Engineer: Options Assessment Materials Recovery Facility, Glasgow City Council, Location: Scotland, 2013** Options assessment of an existing dirty materials recovery facility and processing line on behalf of Glasgow City Council The assessment included a site visit and the preparation of a detailed report outlining possible materials processing options for the existing facility. Report includes a detailed equipment inventory and specification development, equipment valuation, potential plant capacity and operational issues associated with the processing of different materials streams.



Jason Guile

Senior Project Ecologist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Jason is a Senior Project Ecologist here at Fehily Timoney & Company. Jason has **10 years' experience** in the ecological sector. During this time he has gained a wealth of knowledge and experience providing ecological input into a range of projects from urban planning applications to commercial regeneration sites to large infrastructure schemes, including writing and reviewing technical reports, biodiversity chapters on Environmental Impact Assessment Reports and Appropriate Assessment/ Natura Impact Statement reports.

He is an experienced field surveyor with Natural England licenses for bat (Class level 2), great crested newt, and barn owl surveying (Class level 1), along with surveying, photography and handling licenses for bats with the Department of Culture, Heritage and the Gaeltacht (R.O.I); and a certified Surveyor of Japanese Knotweed with the Property Care Association. In addition, Jason has experience of Noise Monitoring, Soak Away surveys and Phase 1 Contaminated Land Assessments.

Key Skills

- Ecological Clerk of Works having worked on a range of construction sites and has also carried out BREEM compliance surveys
- Survey planning and coordination
- Project management, report writing and data analysis
- Protected species and habitat surveys Ecological appraisal and assessment Appropriate Assessment
- Project logistics and coordination Health and Safety

Registrations

- NE Bat License (Level 2)
- NE Great Crested Newt License (Level 1)
- NE Barn Owl License (Level 1)
- R.O.I survey, photography and handling licenses for bats
- Certified surveyor for Japanese Knotweed Eligible for Full Membership for CIEEM

Previous Experience Essentials for this Project

- **Wind Farm, Co. Cork, - Ongoing**
Jason is a Lead author of the Stage One AA Screening Report and Stage Two Natura Impact Statement for all aspects of the wind farm application including prescribing and implementing mitigation measures.
- **Waste Transfer Facility, Co. Offaly, - Ongoing**
Jason is a Lead ecologist, survey coordinator and author of the EIAR Biodiversity Chapter along with the Stage One AA Screening Report and Stage Two Natura Impact Statement.

Key Information

Qualifications

CPD Certificate Geographical Information Systems, Dublin Institute of Technology

BSc Marine Biology/Oceanography, University of Wales, Bangor

HND Coastal Conservation with Marine Biology, Blackpool and Fylde College

Employment History

2020 – Present

Fehily Timoney & Company
Senior Project Ecologist

2017– 2020

Consultant Ecologist, Environmental Resources Management,

02/2016 – 11/2016

Ecological Consultant, Arbtech Consulting Ltd

2011 - 2017

Freelance Ecologist,
Various Projects

2010 – 2012

Freelance Junior Ecologist
Various Projects

2010 – 2016

Freelance Noise Technician
Various Projects

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Jason Guile

Senior Project Ecologist



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- **Galway County Council Historic Landfill Sites (3 No. sites)**
Jason is a Lead ecologist for these projects, coordinating ecological surveys and managing the preparation of both the Stage One AA Screening Reports and Stage Two Natura Impact Statements for these sites.
- **Strategic Housing Development, Dublin Docklands, Nov 2019 – Oct 2020**
Jason is a Lead ecologist to produce the Appropriate Assessment report and biodiversity chapter within the Environmental Impact Assessment Report. Duties also involve design management including prescribing and implementing mitigation measures and stakeholder engagement.
- **Site Redevelopment and expansion of large business campus, Kildare, Aug 2019 – Oct 2020**
Jason is a Lead ecologist to produce the biodiversity chapter within the Environmental Impact Assessment Report and Appropriate Assessment report, including lead surveyor for onsite surveys of the c.80ha site. Duties also include discussion with multiple discipline leads particularly landscape and engineering of partner companies and liaising with the client on a weekly basis.
- **HS2 Phase 2b, Garforth and Church Fenton, August 2017 – Oct 2020**
Ecology Area Lead for Garforth and Church Fenton. Duties involve leading ecological technical work of EIA activities, approving EIA assessments and reports and leading stakeholder engagement for ecology. Duties also involve managing teams of experts, design management including prescribing and implementing mitigation measures and discussion with multiple discipline leads particularly landscape and engineering, survey coordination and report writing.
- **HS2 Phase 2b, Midland Mainline Electrification, August 2018 – May 2019**
Ecology Area Lead for the Midland Mainline Electrification scheme. Duties involve leading the planning and management of the delivery of EIA activities Writing and reviewing text for the ecology chapter of the EIA assessment and reports and leading the provision of outputs to address stakeholder concerns with regards to ecology. Duties also involve managing teams of ecologists, design management, discussion with multiple discipline leads and survey.
- **SSE, Lincolnshire, August 2018 – June 2020.**
Jason is part of the team for the project for a Combined-Cycle Power Plant. His role as Assistant project manager/ ecologist involves providing ad-hoc advice as well as undertaking the preliminary surveys and authoring reports for any amendments and/or planning requirements outside the scope of the existing planning consent.
- **Project Lannister, Midlands, 2017-2018**
Confidential project for onshore gas extraction in the Midlands. One of the lead ecologists providing Ecological Clerk of Works assistance to a fast-paced project that required immediate responses to numerous decisions daily.
- **Ainsdale Railway Station, Redevelopment – 2016**
As Lead survey ecologist conducting the initial Preliminary Ecological Appraisal and Preliminary Roost Assessments surveys on all buildings and grounds within the site boundary as well as preparing reports and advising on future surveys for input into the tender.
- **National Rail, Culvert Renovation – 2016**
As Lead survey ecologist conducting the initial Preliminary Ecological Appraisal survey and liaising with the client to produce the most suitable approach to the project, as well as producing the reports.
- **United Utilities, Solar Farms – 2016**
Lead ecologist conducted the initial Preliminary Ecological Appraisal surveys as well as produced the reports and liaised with the client, for proposed solar farms within clean water reservoir sites.





Jon Kearney

Principal Ecologist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Jon is a specialist planner and ecologist with over 15 years' experience in both the UK and Ireland. His skills include an extensive knowledge of planning environmental law and planning requirements for ecology and biodiversity. Jon's experience spans ecology survey techniques and methodology, ornithological surveys, mitigation design, water quality assessment, Appropriate Assessment and Ecological Impact Assessment. Jon has completed ecological assessments, ECIAs, Environmental Impact Assessment Reports (EIAR) and Appropriate Assessments for a wide variety of projects in Ireland and the UK. He has considerable experience of EIS/EIAR and ecological constraints work, which often includes extensive reference to, and interpretation of, Article 6 of 'The Habitats Directive', and to other EU, UK and Irish conservation legislation.

Key Skills

Jon has experience in the following:

- Preparing successful tender submissions for a wide range of projects and establishing a network of new clients for ecological services,
- Planning environmental law and planning requirements for ecology and biodiversity,
- Project management and management of ecology team.
- Expert witness for Ecology / AA.
- Ecology survey techniques and methodology,
- Expert review of Ecological report and Appropriate Assessments,
- Ornithological surveys,
- Mitigation design and implementation,
- Water quality assessment,
- Appropriate Assessment,
- Ecological Impact Assessment,
- Ecological Clerk of Works,
- Ecological supervision, collaboration with other disciplines at both planning and construction stages

Previous Experience Essential for this Project

- **Kerry Historic Landfills**
Kerry are proposing a series of remediation works to eight historic Landfill sites. Jon is the lead ecologist for these projects, coordinating ecological surveys and managing the preparation of both the Stage One Appropriate Assessment Screening Reports and Stage Two Natura Impact Statements for these sites.
- **Millennium Park materials processing and transfer facility, Dublin City**
The proposed development was for a materials processing and transfer facility at the Millennium Business Park site for the acceptance of up to 170,000 tonnes per annum of municipal solid waste (MSW) from commercial and domestic sources. Jon prepared the Flora and Fauna chapter of the EIS and the Appropriate Assessment Screening Report. He also prepared an invasive species management plan for the proposed development.

Key Information

Qualifications

M.Sc. Ecological Management and Biological Conservation, Queens University Belfast, 2005

BSc. Applied Ecology University College Cork 2004

Professional Memberships

MCIEEM Full member of the Institute of Ecology and Environmental Management

Employment History

July 2015 - Present

Fehily Timoney & Company
Principal Environmental Scientist

2010 – 2015

Malachy Walsh and Partners

2009 – 2010

Renewable Energy Systems Ltd.

2007 – 2009

RPS Consulting Engineers

2007

Mott McDonald

2006 – 2007

Mouchel

2005 – 2006

Freelance Ecologist

Expert Witness

Expert Witness at the following oral hearings:
Pairc Uí Chaoimh
Doolin Pier

Publications

Jon Kearney (2010). Kerry slug (*Geomalacus maculosus*) recorded at Lettercraffroe, Co. Galway. Irish naturalists Journal **31** No. 1 p68 - 69



Jon Kearney

Principal Ecologist



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- **Knockharley Landfill, Co. Meath**
The proposed development was for an existing landfill facility where waste disposal and recovery activities are undertaken. Jon both conducted and coordinated ecological surveys (habitats, bats, mammal, birds and water quality), and prepared the Biodiversity chapter of the EIAR and reviewed the Natura Impact Statement.
- **Pairc Ui Chaoimh redevelopment, Cork City**
Project ecologist for the redevelopment of Pairc Ui Chaoimh. Jon prepared the Flora and Fauna chapter of the EIS and the Natura Impact Statement. Jon was the expert witness for ecology representing the GAA at the subsequent An Bord Pleanála oral hearing following which the project received full planning.
- **Development of Beamish and Crawford Site, Cork City**
Heineken Ireland Ltd. and BAM applied successfully for planning permission to build a multi-purpose development on the site of the old Beamish and Crawford Brewery on South Main Street, Cork City centre. Jon was the project ecologist for the project. He carried out habitat surveys and bat surveys within this urban site and the greater surroundings. He prepared the Ecological Impact Assessment and Appropriate Assessment. Jon was also involved in the consultation process with NPWS and designed a habitat enhancement plan including the installation of green roof as part of the design of the development.
- **Doolin pier development Co Clare**
A new harbour development comprising of a 103 metre pier new pier structure, revetment, bed rock dredging, access road and associated works at Doolin, Co Clare. The new facility offered improved access to the Aran Island from the mainland. Jon was the project ecologist for the EIA. Coordinating and undertaking: Ecological survey (fauna, flora and habitats). Production of an NIS and terrestrial ecology chapter of the EIS. Expert witness at oral hearing for project which received planning.
- **Dairygold Redevelopment, Mallow, Co. Cork (2014)**
Jon coordinated the Natura Impact Statement and Biodiversity chapter along with ecological surveys at the site for this brownfield site. Surveys undertaken included those for habitats, mammals, bats and water quality (Q sampling/physiochemical). The project subsequently received full planning.
- **Dunkettle Interchange, Co. Cork**
Jon is the lead ecologist, overseeing a team of ecologists on this scheme. Responsibility for compliance with ecological planning conditions and ecology EIA and NIS commitments for the reconfiguration of the Dunkettle Interchange to a free flow interchange including:
 - A series of direct road links between the N8, the N25 and the N40 and links to the R623 regional Road in Little Island and Burys Bridge in Dunkettle;
 - 1 grade separated junction arrangement, 4 roundabouts, 51 major structures of various forms;
 - Intertidal area with numerous lagoons within and adjacent to the works areas.
 - Extensive pre-construction surveys
 - Responsible for translocation of moth plants, water beetle and rare plants.
 - Supervision of site clearance.
 - ECoW early works contract.
- **Upperchurch Wind Farm, Co Tipperary**
Jon was the project ecologist for Upperchurch Wind Farm in Tipperary. He both coordinated and conducted bat, mammal, habitat and ornithological surveys within the study area of the 22 turbine Wind Farm. He prepared the Ecological Impact Assessment, Appropriate Assessment and Ecological Management and Habitat Restoration Plan. Jon was also involved in the consultation process with NPWS.
- **'O Grianna Case' Derragh Wind Farm, Co. Cork**
Jon was the project ecologist for Derragh Wind Farm for the most recent application in 2015. The planning for the previous application had been over turned in the high court in the 'O' Grianna Case' due to lack of consideration for the Grid Route. Jon prepared the Natura Impact Statement and Flora and Fauna Chapter of the EIS for the most recent revised application which received planning from An Bord Pleanála.
- **Cork Area Strategic Plan-Strategic Environmental Assessment (SEA).**
The Cork Area Strategic Plan (CASP), adopted in 2001, provides a framework for the full integration of land use, transportation, social and economic elements for the Cork area up to 2020. Prepared ecology chapter of the SEA.
- **Strategic Area Plans Cork County**
Prepared the biodiversity, flora and fauna chapter for the Strategic Environmental Assessment for the following towns:
 - Macroom
 - Clonakilty
 - Kinsale
 - Skibbereen
 - Fermoy
 - Mallow





Jon Kearney

Principal Ecologist



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- **Southeast Clare habitat mapping**

Carried out phase I habitat survey for Clare County Council of all habitat types within a total study area of 400km². Habitats were classified to level 3 according to a guide to habitats in Ireland (Fossitt, 2000). The information gathered was used to produce a comprehensive habitat map of the region. Among the EU Annex I habitats recorded during the survey was 'depressions on peat substrates of the rhynchosporion (7150)'.

This habitat was previously unrecorded within the region and maybe designated as a site of international importance following further investigation.

Other AA Screening Reports and Natura Impact Statements prepared by Jon

- Client: Louis Keating / Clare County Council - Kilrush Marina redevelopment and dredging, Co. Clare (2012)
- Client: GSK - Various projects including a coastal revetment, and several new buildings within the plant, Co. Cork (2010-2015)
- Client: Fenit Harbour Board - Fenit Marina and Harbour Extension Preliminary Ecological Studies & EIA Screening, Co. Kerry (2011)
- Client: The Department of Arts, Heritage and the Gaeltacht - Clifden and Inishbofin Airport Terminals (2011)
- Ardcooney Integrated Tourism Masterplan, Co. Clare
- Client: Scartaglen Wind Farm Ltd - Scartaglen Wind Farm Phases I and II, Co. Kerry (2012 - 2015)
- Client: Castlegregory golf club - Castlegregory golf course club house (2013)
- Client: Ecopower - Glencarbry Wind Farm, Co. Tipperary
- Client: Ecopower - Boolabrien Wind Farm, Co. Waterford
- Client: Ecopower - Knocknamona Wind Farm, Co. Waterford
- Client: Ecopower - Derrynadivva Wind Farm, Co. Mayo
- Client: Ecopower - Killavoy Wind Farm, Co. Cork
- Client: Met Eireann - Valentia Met Eireann Air monitoring Facility
- Client: Western Power - Knockranny Wind Farm, Co. Galway
- Client: Solar Sense - Cahir Solar Farm, Co. Tipperary
- Client: Solar Sense - Ballyhale Solar Farm, Co. Kilkenny
- Client: Solar Sense - Glenamoy House Solar Farm, Co. Meath
- Client: Kerry County Council - N70 Kilderry road, Co. Kerry

Key skills and experience

- Have applied for, conducted surveys and supervised construction work under the terms of and completed final reports for several derogation licences for bats, badger, otter, pygmy shrew, electrofishing, reptiles, water vole, dormouse and Kerry slug.
- Expert Witness (Project Ecologist): at three An Bord Pleanála Oral Hearings, Cluddaun Wind Farm (Mayo), Pairc Ui Chaoimh (Cork) and Doolin Pier (Clare)
- Phase I habitat surveys, Fossitt (2000), vantage point survey (birds), transect surveys (birds), point count (birds), AnaBat (Bats), Q sampling (kick samples), White clawed crayfish surveys, electrofishing, mammal surveys (Longworth traps, field surveys, dormouse tubes, motion detection cameras).

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Declan Morrissey

Senior Project Scientist/Hydrogeologist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Declan is Senior Project Scientist/Hydrogeologist with Fehily Timoney with ten years postgraduate experience. Declan holds a Bachelor of Science in Environmental Management (2009) from Technological University Dublin and a Master of Science in Environmental Sciences (2010) from University of Dublin, Trinity College.

Declan worked in Alberta, Canada for seven years as an environmental scientist and project manager of a hydrogeology group prior to returning to Ireland in 2019. Declan specialises in hydrogeological assessment, water supply, surface water and dewatering management, groundwater monitoring design and execution and environmental site assessments (baseline and contaminated land). Declan also has experience in project management, desk-based research, data analysis, modelling and input into environmental impact assessment reports. Since joining Fehily Timoney in 2020, Declan has been involved in a range of contaminated land projects, Tier 1, 2 and 3 Environmental Risk Assessments and environmental impact assessments.

Key Skills

- Hydrogeology
- Project Management
- Environmental Monitoring
- Data Analysis, and Interpretation
- Environmental Reporting
- Environmental Site Assessment/Site Investigation
- Conceptual Site Modelling
- Stakeholder Engagement

Previous Experience Essentials for This Project

- **Edenderry Power Plant, 2021**
FT were appointed by Edenderry Power Limited to prepare and submit a Planning Application, an EIAR and an NIS for the continued operation of Edenderry Power Plant from the beginning of 2024 to the end of 2030 exclusively using sustainable biomass fuel. Declan was responsible for completing the Soils and Geology and Scoping and Consultation chapters of the EIAR and coordinating the completion of the EIAR. This Planning Application is currently under consideration.
- **Clonbullogue Ash Repository, 2021**
FT were appointed by Bord na Móna Energy Ltd to prepare and submit a Planning Application, an EIAR and an NIS for the continued operation of Clonbullogue Ash Repository based in Cloncreen, Clonbullogue, Co. Offaly from the beginning of 2024 until the end of 2031. Ash from Edenderry Power Plant is deposited within this ash facility. Declan was responsible for completing the Soils and Geology and Scoping and Consultation chapters of the EIAR and coordinating the completion of the EIAR. This Planning Application is currently under consideration.

Key Information

Qualifications

Bachelor of Science, Technological University Dublin, 2009

Master of Science, Environmental Sciences, University of Dublin, Trinity College, 2010

Professional Memberships

Member, International Association of Hydrogeologists

Employment History

2020 – Present

Fehily Timoney & Company
Senior Project Scientist/Hydrogeologist

2019 – 2020

TOBIN Consulting Engineers
Project Manager/Hydrogeologist

2012 – 2019

Millennium EMS Solutions Ltd.,
Canada
Environmental Scientist/Project Manager

2011 - 2012

TMS Environment
Environmental Scientist



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Declan Morrissey

Senior Project Scientist/Hydrogeologist



CONSULTANTS IN ENGINEERING,
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- **Unregulated Historical Landfills, Tier 1 Environmental Risk Assessment, Leitrim County Council, 2021**
Declan was responsible for the preparation of Tier 1 environmental risk assessment reports for 6 no. unregulated historic landfills located in Leitrim (Ballinamore, Drumshanbo, Drumkeeran, Kiltyclogher, Whitakers Bridge, Cornastalk). Work included an initial site walkover and inspection of site conditions and characteristics, comprehensive desk study review of landfill site and surrounding environment, development of a Conceptual Site Model and preparation of a Tier 1 Environmental Risk Assessment report in accordance with the EPA Code of Practice on Environmental Risk Assessment for Unregulated Waste Management.
- **Annagh Wind Farm, 2021**
Declan provided the hydrogeological input of the Land, Soils and Geology EIAR chapter for the proposed Annagh Wind Farm, Co. Cork.
- **Unregulated Historical Landfills, Certificates of Authorisation, Longford County Council, 2021**
Declan was responsible for the preparation of the Certificate of Authorisation applications for 2 no. unregulated historic landfills (Cartron Big and Ballymulvey). The applications included the completion of the application form and procurement of supporting documentation (Tier 1, 2 and 3 Risk Assessments, Appropriate Assessment Screening Reports, Qualified Persons documents, ownership details).
- **Former Halting Site at Dublin Airport North Runway Project, 2021**
Declan was responsible for undertaking an intrusive site investigation to define and delineate the extent of any potential contamination at a former halting site within the Dublin Airport North Runway Project boundary. Declan supervised the excavation of 10 no. trial pits, recorded ground conditions encountered, noted any olfactory evidence of potential contamination and collected soil samples for chemical analysis. Results were compared to waste acceptance criteria to determine suitable facilities for disposal. The management of materials at the site and disposal at suitable facilities were recorded.
- **Unregulated Historical Landfills, Certificates of Authorisation, Kerry County Council [ongoing]**
Declan was responsible for the preparation of the Certificate of Authorisation applications for 6 no. unregulated historic landfills (Lenamore, Ahascra, Listowel, Ardfert, Tralee, Dingle). The applications included the completion of the application form and procurement of supporting documentation (Tier 1, 2 and 3 Risk Assessments, Appropriate Assessment Screening Reports, Qualified Persons documents, ownership details).
Declan has also engaged with the EPA for 4 no. unregulated historic landfills (Coolcalagh, Milltown, Kenmare, Cahersiveen) co-located with licensed sites to determine the best approach for the Certificate of Authorisation application. The preparation of Technical Amendment applications to amend the site boundaries is ongoing.
Declan is currently managing biodiversity surveys to support the preparation of Natura Impact Statements for 3 no. sites (Sneem, Tralee and Rockfield). Surveys are being completed for habitats, invasive species, otters, birds, bats and aquatics. These sites will be subject to planning applications to An Bord Pleanála. Declan will prepare the EIAR screenings, Construction and Environmental Management Plans and planning applications.
- **Historic Landfill Assessment & Registration, Carlow County Council [ongoing]**
Declan is engaged in an assessment of a historical landfill on behalf of Carlow County Council at an unregulated landfill site located at Haroldstown, Co. Carlow. A Tier 2 Risk Assessment which included recommended remediation options was completed for the site in 2015. Declan has been required to review groundwater monitoring results in the period post risk assessment and to amend the remediation design. Declan is also preparing a preliminary cost estimate for remediation works and carrying out the EPA registration process for the historic landfill site.
- **Bord na Móna Contaminated Land Site Assessments [ongoing]**
Responsible for the preparation of Tier 1 Assessments for 3 no. sites in Cork, Limerick and Sligo, sites investigation design for completion of additional detailed site investigations to fully delineate the extent of potential waste deposition, preliminary safety and health plans, procurement documentation for tender site investigation contractors. Project is currently awaiting approval for Tier 2 works.



Declan Morrissey

Senior Project Scientist/Hydrogeologist



CONSULTANTS IN ENGINEERING,
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- **Scotch Corner Landfill, 2020-2021**

Declan was responsible for the preparation of a report which assessed the impact of additional leachate removal wells on groundwater and surface water quality at Scotch Corner Landfill, Co. Monaghan. The report required an assessment of leachate, ground and surface water quality (including trend assessments). Responsibilities included procuring and management of site investigation contractor for additional groundwater monitoring wells and preparing preliminary safety and health plan.

- **Unregulated Historical Landfills, Tier 3 Environmental Risk Assessment, Kilkenny County Council, 2020**

Declan was engaged in the preparation of 2 no. Tier 3 quantitative risk assessments on behalf of Kilkenny County Council for unregulated landfill sites located at Skehana and Sevenhouses, Co. Kilkenny. Declan's work involved the review of previous site investigation and monitoring, analysis and interpretation of additional surface water monitoring data, confirmation of potential risks associated with the site and the preparation of an appropriate remediation plan and cost estimates.

- **Unregulated Historical Landfills, Tier 2 Environmental Risk Assessment Site Investigation, Kilkenny County Council, 2020**

Responsible for the preparation of Tier 2 site investigation design for 2 no. unregulated historic landfills at Talbotsinch and Dungarvan, Co. Kilkenny. Responsibilities included preparing preliminary safety and health plan, procuring and management of site investigation contractor, geophysical survey and topographic survey contractors, management of environmental soil and groundwater sample collection and gas monitoring, coordination of third-party laboratory services.

- **Clonbullogue Ash Repository, 2020**

FT were appointed by Bord na Móna Energy Ltd to prepare and submit a Planning Application for the continued operation of Clonbullogue Ash Repository based in Cloncreen, Clonbullogue, Co. Offaly for 2023. Declan was responsible for the compilation of the Planning Support Statement, completing the planning application and completing the statutory notices for the proposed development. Declan was also responsible for compiling, collating and submitting the planning application to Offaly County Council. Planning permission was ultimately secured.

- **Ummeras Wind Farm, 2020**

Prior to joining Fehily Timoney, Declan was project manager and involved in the identification of constraints, scoping, site investigation, preparation of the Lands, Soils and Geology and Hydrology and Hydrogeology chapters for a proposed wind farm. Declan was involved in the completion of surface water sampling at the site and the write-up of the Surface Water Management Plan.

- **Derryadd Wind Farm, 2019**

Declan acted as expert witness in relation to the oral hearing as part the Bord na Móna Derryadd Wind Farm in Co. Longford. The role involved review of existing hydrological and hydrogeological information, production of a précis of evidence and acting as expert witness for the arbitration hearing.

- **Trascan Solar Farm, 2019**

Declan assisted as Project Manager for the Trascan Solar Farm Project Planning Application. Key responsibilities included managing the TOBIN team and sub-consultants, directly liaising with the client and landowner, consulting with the Planning Department and the Development Applications Unit (DAU), writing sections of and reviewing the Planning and Environmental Considerations Reports, reviewing GIS mapping and Planning Application drawings, completing the Planning Application forms, fee calculations, and newspaper and site notices, and submitting the final application to the County Council.

- **Water Supply, 2019**

Task lead for groundwater supply projects at Thomastown, Co. Kilkenny and Ballylooby, Co. Tipperary involving desk-based research, pumping well design, site supervision, data analysis, licence application and liaising with statutory consultees.

- **Grassy Mountain Coal Project, 2017**

Declan provided hydrological, geological and hydrogeological technical input while undertaking an assessment at the Grassy Mountain Coal Project in Southern Alberta, Canada.



Declan Morrissey

Senior Project Scientist/Hydrogeologist



CONSULTANTS IN ENGINEERING,
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- **West Edmonton Landfill Expansion Application, Alberta, Canada, 2015 - 2017**

Responsible for managing the environmental assessment for the expansion of the landfill, including site investigation design, preparing preliminary safety and health plan, procuring and management of site investigation contractor, geophysical survey and topographic survey contractors, management of environmental soil and groundwater sample collection, coordination of third party laboratory services, interpretation of results, and preparation of report in support of the application required under the Environmental Protection and Enhancement Act (EPEA).

- **Wainwright Landfill Expansion Application, Alberta, Canada, 2014 - 2016**

Responsible for managing the environmental assessment for the expansion of the landfill, including site investigation design, preparing preliminary safety and health plan, procuring and management of site investigation contractor, geophysical survey and topographic survey contractors, management of environmental soil and groundwater sample collection, coordination of third party laboratory services, interpretation of results, and preparation of report in support of the application required under EPEA.

- **Thorhild Landfill Expansion Application, Alberta, Canada 2014 - 2015**

Responsible for managing the environmental assessment for the expansion of the landfill, including site investigation design, preparing preliminary safety and health plan, procuring and management of site investigation contractor, geophysical survey and topographic survey contractors, management of environmental soil and groundwater sample collection, coordination of third party laboratory services, interpretation of results, and preparation of report in support of the application required under EPEA.

- **Surface Water Management at Mining Facilities, 2013-2017**

Declan was responsible for the management of surface water dewatering operations at the Coal Valley Coal Mine and Total Joslyn oil sands project in northern Alberta, Canada. The projects involved the management of dewatering activities to ensure that surface water released off-site to watercourses were within regulatory and licence limits. Declan also assisted in providing technical input, liaising with clients, regular surface water monitoring and weekly, monthly and annual reporting.

- **Groundwater and Surface Water Monitoring Programme Design, 2012 - 2019**

Declan was responsible for the establishment of surface water and groundwater monitoring programmes at a number of Stream Assisted Gravity Drainage (SAGD) facilities prior to their construction in Northern Alberta, Canada. The work included a review of the proposed facility layout to identify sources and contaminants of potential concern, the completion of a site investigation to identify potential pathways and a site walkover to establish potential receptors. The draft programme was reviewed by the project manager and client, with final submission to the regulator for approval. Once the monitoring programme was approved, this was subject to the conditions of the specific operational licence.

- **Groundwater and Surface Water Monitoring, 2011-2019**

Declan has completed an extensive number of surface water and groundwater monitoring programmes in Ireland and Canada, including in landfills, quarries, pharmaceutical facilities, mines, oil and gas facilities, applying industry approved sampling and monitoring techniques. Field preparation consisted of reviewing monitoring plans/programmes and previous monitoring reports for recommendations for alternations to monitoring plans/programmes, discussions with project managers, clients and stakeholders via various mediums (phone, video-conferencing, email) for site information and access, communication with laboratories and equipment companies for monitoring and sampling containers and equipment. Monitoring consisted of collecting biological and chemical samples in approved containers using industry accepted methods, recording of field parameters including pH, temperature and dissolved oxygen. Post-monitoring, storage of samples during transport, delivery of samples to laboratory and submitting same with Chain of Custody with required holding times. Field notes were uploaded to the project file and a summary of the works was submitted to the project manager and client, identifying any issues during the work, lessons learned and improvements for the following monitoring events. Once the laboratory results were received, the data was subject to the process of quality control and quality assurance by comparing the results of field blanks, trip blanks and duplicates. If anomalies were identified, the laboratory were contacted and if necessary, the sample was reanalysed for the parameter(s) of concern. Once the laboratory results were identified to be satisfactory, the data was inputted to the appropriate database for extraction in various formats for analysis, reporting and mapping.



Daniel Hayden

Project Scientist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Daniel is an environmental scientist with 8 years' experience in practical field work and reporting. He has gained extensive environmental knowledge through involvement in a variety of diverse and challenging projects covering key aspects of hydrology, surface water, hydrogeology, soils, geotechnical engineering and hydrogeological assessments, groundwater and greenfield/brownfield contaminated land investigations, borehole drilling, in-situ site investigation techniques and use of groundwater modelling software.

Previous Experience Essentials for This Project

- Thorntons Recycling, Hydrology and Surface Water Assessment 2022**
 In preparation of the Hydrology and Surface Water chapter, the role required a detailed desktop study of site and hydrology in the receiving environment, a hydrological site walkover, undertaking baseline surface water monitoring, and completion of a surface water impact assessment.
- Ballyogan Landfill Environmental Monitoring, Dun Laoghaire Rathdown County Council, ongoing**
 Environmental monitoring and licence compliance for an EPA licensed landfill facility. Responsible for undertaking site monitoring of noise, sampling of surface water groundwater, leachate and dust in line with EPA requirements, coordination of third-party laboratory services, interpretation of monitoring data, preparation of submissions and consultation with the licensing authority and preparation of quarterly interpretative monitoring reports, annual environmental reports.
- Dunsink Landfill Environmental Monitoring, Fingal County Council, ongoing**
 Environmental monitoring and licence compliance for an EPA licensed landfill facility. Responsible for undertaking site monitoring of noise, sampling of surface water, groundwater, leachate and dust in line with EPA requirements, coordination of third-party laboratory services, interpretation of monitoring data, preparation of submissions and consultation with the licensing authority and preparation of quarterly interpretative monitoring reports, annual environmental reports.
- Balleally Landfill Environmental Monitoring, Fingal County Council, ongoing**
 Environmental monitoring and licence compliance for an EPA licensed landfill facility. Responsible for undertaking site monitoring of noise, sampling of surface water groundwater, leachate and dust in line with EPA requirements, coordination of third-party laboratory services, interpretation of monitoring data, preparation of submissions and consultation with the licensing authority and preparation of quarterly interpretative monitoring reports, annual environmental reports.
- East Galway Landfill Environmental Monitoring, Galway County Council, ongoing**
 Environmental monitoring and licence compliance for an EPA licensed landfill facility. Responsible for undertaking site monitoring of noise, dust, air quality, sampling of groundwater, surface water and leachate in line with EPA requirements, coordination of third-party laboratory services, interpretation of monitoring data, preparation of submissions and consultation with the licensing authority and preparation of quarterly interpretative monitoring reports, annual environmental reports.

Key Information

Qualifications

- BSc. (Hons), Environmental Science, University College Dublin, 2012
- Masters of Science in Environmental Engineering, Trinity College Dublin, 2013

Professional Memberships

- Member of the International Association of Hydrogeologists Ireland
- Member of Chartered Institution of Waste and Environmental Mangers (CIWEM)

Employment History

2018- Present

Fehily Timoney BS Company, Dublin
Project Scientist

2016 – 2017

OES Consulting

2016 – 2016

AWN Consulting

2013 – 2016

RAW Group, Dublin





Daniel Hayden

Project Scientist



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

- **Knockharley Landfill Strategic Development, Land, Soils and Geology 2018**

In preparation of the Land, Soils and Geology chapter, the role required a detailed desktop study of site, compiling and interpreting findings of site investigations including exploratory hole logging information, hydrogeological assessments and soil testing data. The report included a preliminary materials management plan for the construction of the proposed project.

- **Kilbarry Solar Farm, Co. Waterford, Land, Soils & Geology 2018**

In preparation of the Land, Soils and Geology chapter, the role required a detailed desktop study of site, compiling and interpreting findings of site investigations including exploratory hole logging information, hydrogeological assessments and soil testing data. The report included a preliminary materials management plan for the construction of the proposed project.

- **Contaminated Land Ground Investigation, Dublin Airport, 2018**

Role included detailed desktop study of site, the undertaking of site investigation including supervision of exploratory hole advancements, undertaking site sampling of soils, supervision of oil tank removal including validation sampling, coordination of third-party laboratory services, interpretation of monitoring data, preparation of interpretative reports.

- **Spoil Classification & Environmental Assessment, Dublin Airport, 2018**

Role included assessment of spoil and made ground for a new runway redevelopment project. Site investigations were completed, including supervision of exploratory hole advancements, undertaking site sampling of soils, coordination of third-party laboratory services, interpretation of monitoring data, preparation of environmental assessment & material classification report.

- **Bord na Mona Littleton Peat Briquette Factory, Tipperary 2018**

Role included assessment of spoil and made ground for a new runway redevelopment project. Site investigations were completed, including supervision of exploratory hole advancements, undertaking site sampling of soils, coordination of third-party laboratory services, interpretation of monitoring data, preparation of environmental assessment & material classification report.

- **Kerry Charleville, Discharge Pipeline Extension, Land, Soils & Geology, 2017**

In preparation of the Land, Soils and Geology chapter, the role required a detailed desktop study of site, compiling and interpreting findings of site investigations including exploratory hole logging information, hydrogeological assessments and soil testing data. The report included a preliminary materials management plan for the construction of the proposed project.

- **Hazardous Waste Remediation, Kilsaran Concrete, 2017**

Project supervisor responsible for coordinating sub-contractors involved in hazardous waste remedial works at 18 contaminated sites following a natural asbestos release from a Co. Wicklow quarry.

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Dr. Avril Challoner BEng DipStat AMIEnvSc MIAQM
Senior Air Quality Consultant

EDUCATION

BE Environmental Engineering
Diploma Statistics
PhD Trinity College, Dublin

NUIG 2009
Trinity College Dublin 2010
Trinity College Dublin 2012

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

Chartered Scientist (CSci)
Member of the Institution of Environmental Sciences (IES)
Member of the Institute of Air Quality Management (IAQM)

KEY SKILLS

- Senior Air Quality Consultant at AWN Consulting.
- Over 7 years' experience in the modelling, assessment and reporting of air quality impacts associated with major industrial and infrastructural projects.
- Extensive experience in the monitoring of ambient air quality and indoor air quality.
- Detailed knowledge of the National Roads Authority Publication "*Guidelines For The Treatment Of Air Quality During The Planning and Construction Of National Road Schemes*" (2011).
- Extensive experience in the presentation of technical information in the written form.
- Experience in the use of software packages such as AAQuIRE, ADMS, TANKS, DMRB and AERMOD for the air quality assessments of major infrastructural and industrial projects.
- Detailed knowledge of air quality standards, air dispersion modelling guidance and impact assessment methods.

CAREER SUMMARY

AWN Consulting, Senior Air Quality Consultant, 2017 to date

Senior Air Quality Consultant with responsibility for Air Quality. Projects include the preparation of Air Quality, Odour and Climate chapters for EIAR and representation at oral hearing for large infrastructural projects, including major roads, MetroLink, Bus Connects and large industrial developments.

AWN Consulting, Air Quality Consultant, 2015 to 2017

Environmental Consultant with responsibility for Air Quality. EIS projects include the preparation of Air Quality and Climate chapters for EIS on large infrastructural projects. A full membership of the Institute of Air Quality Management was gained while working in this role. Specialised in the fields of air dispersion modelling.

AECOM, Graduate Air Quality Consultant, 2012 to 2014

Graduate Environmental Consultant with responsibility for Air Quality. Experienced in various air quality assessments, with a focus on road modelling, including; USA, Construction Dust, AAQuIRE, DMRB, Air Quality Neutral Assessments and WebTAG. On site experience includes the calibration of UK AURN network analysers, landfill gas monitoring and diffusion tube networks. The role also included the assessment and ratification of collected data. This work was based in London, however much of Irish guidance with respect to road Air Quality Assessments takes lead from UK based guidance and therefore is highly advantageous in the Irish market.

PROJECT EXPERIENCE

Senior air quality consultant, involving baseline surveys, development of air dispersion models, impact assessment, preparation of air quality reports and where applicable, expert witness for oral hearings, for the following sample key projects:

AWN Consulting

Drehid Waste Management Facility EIAR and Oral Hearing. Client: Tobin Consulting Engineers

As part of the planning application for a large waste management facility including a composting facility, Irelands only hazardous waste landfill and a non-hazardous waste landfill I undertook detailed air dispersion modelling of the facility. Modelling was conducted using the USEPA approved AERMOD air dispersion model in conjunction with the meteorological pre-processor AERMET PRO and the terrain pre-processor AERMAP. Five years of meteorological data from Casement Aerodrome was input into the model in addition to all on-site and off-site structures to build up a 3-D image of the facility. Modelling was carried out at for a range of scenarios for several air pollutants and odour in order to ensure compliance with the appropriate standards whilst ensuring maximum flexibility for the facility and including a cumulative model of the current and pre-consented activities. I also acted as an expert witness at the oral hearing related to this proposed development.

National Maternity Hospital EIAR and Oral Hearing. Client: Health Services Executive

An EIAR Air Quality and Climate chapter of an EIAR was prepared on behalf of the proposed new National Maternity Hospital for Ireland. Assessments of potential dust, traffic emissions, boiler emissions, ecological and climate impacts were completed. The proposed construction site will be co-located with a fully operational hospital and therefore receptors were deemed extremely sensitive. Representation as an expert witness at the oral hearing related to this proposed development.

N5 Ballaghaderreen to Scramoge EIAR and Oral Hearing. Client: Roughan & O'Donovan.

Impact assessment of a proposed road realignment including; baseline monitoring, review of previously conducted route selection, EIAR chapter and representation of the project at oral hearing.

Aughinish Alumina Air Dispersion Modelling. Client: Aughinish Alumina.

A cumulative air dispersion modelling assessment conducted for a borrow pit within the Aughinish Alumina facility in Limerick. This assessment included impacts of dust from vehicles exiting the borrow pit compound and recommendations to mitigate dust emissions at source.

Waterford Airport EIAR. *Client: Fehily Timoney.*

Air Quality dispersion model of the air quality impacts of a proposed expansion of Waterford Airport. Both road and air traffic were accounted for within this modelling assessment.

Cape Clear Whisky Distillery. *Client: Tom Philips and Associates.*

An air and odour dispersion modeling for proposed whiskey distillery on Island off Irish Coast.

EIA for Various Data Centers. *Client: Range of Confidential Clients*

Assessment of air quality impact of emergency generator sets including specification of appropriate stack heights for a range of clients. Assessments included cumulative impacts due to significant number of data centres and other industrial emission sources in the vicinity.

Sheskin Windfarm. *Client: ABO.*

Assessment of air quality and climate impacts of a proposed windfarm, including the payback period for embodied energy within the construction of the project.

North Cork Creamery EIAR. *Client: North Cork Creamery.*

Air quality dispersion model as part of EIAR and EPA licence application for the facility. Review of current emissions and solutions for potential improvements.

Water Supply Project *Client: Jacobs/Irish Water*

Assessment of air quality and climate impacts of a proposed pipeline and pumping stations related to a scheme to supply the Dublin region with a secure water supply from the Shannon in the south west of the country. This pipeline stretches 173 km.

Kilcarrig Quarry. *Client: Earthsciences Partnership*

The on-site activities of the Kilcarrig Quarry including background concentrations, extraction of sand and gravel, loading of material onto trucks, screening, conveying, stockpiling, movement along unpaved haul roads and movement along paved public roads were modelled using five years of meteorological data. The assessment was part of the overall EIAR for the quarry.

Air Quality Dispersion Model Verification *Client: Intel Ireland*

The validation study compares the NO₂ Air Quality Dispersion Modelling results with the results of a six-month monitoring survey. The survey built on the existing monitoring programme and increased the data coverage. -The data has been analysed using the approach in the EPA document *Air Dispersion Modelling from industrial installations guidance*.

TANKS Fugitive Emissions Model. *Client: Kingspan*

A quantitative fugitive emission study at its Castleblaney facility which can more accurately determine fugitive emissions from solvent and fuel storage tanks. The TANKS software is based on the emission factor calculations as detailed in section 7.1 of AP42 issued by the USEPA for standing and working losses from each tank.

PhD Summary

My PhD research aimed to improve the understanding of the Indoor/Outdoor air quality relationship at urban commercial buildings in Dublin, Ireland. In order to gain the required

understanding, I required data for Dublin sites, therefore monitoring was conducted. I collected real-time concentrations of PM_{2.5} and NO₂ at 10 commercial buildings.

I then analysed the collected data with respect to; time series plots of the indoor and outdoor concentrations for each site, indoor/outdoor air quality ratios, lag times between outdoor fluctuations and the associated indoor fluctuations, NO/NO₂ relationships and the dosage of PM_{2.5} and NO₂ to occupants of the 10 monitored buildings. I combined the use of the regression and recursive mass balance technique proved useful for predicting NO₂ concentrations indoors using building characteristics. Finally, I used forward prediction ability of trained Artificial Neural Networks using outdoor data and meteorological concentrations in order to predict indoor concentrations.

Published Papers

Challoner, A.; Pilla, F.; Gill, L. (2015) **Prediction of Indoor Air Exposure from Outdoor Air Quality Using an Artificial Neural Network Model for Inner City Commercial Buildings** Int. J. Environ. Res. Public Health

Challoner, A.; Gill, L. (2014) **Indoor/Outdoor Air Pollution Relationships in Ten Commercial Buildings: PM_{2.5} and NO₂** Building and Environment

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Maureen Marsden

Project Acoustic Engineer



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Maureen is a Project Acoustic Engineer with Fehily Timoney & Company. She has an MEng in Acoustics and Vibration from Southampton University (Institute of Sound and Vibration Research). She is a member of the Institute of Acoustics and Engineers Ireland.

Maureen has over 20 years' experience across a broad range of acoustics & vibration. She has experience of noise and vibration measurement and assessment across a variety of sectors, including building, industrial and transportation projects.

Previous Experience Essentials For This Project

- Industrial and Waste Facility Noise Assessments, 2011 - 2022**
 Predicted noise from a range of industrial and waste management sites including LNG facilities, dairy facilities, water works, waste facilities and power plants to advise on noise control measures to meet appropriate environmental legislation. Also predicted in-plant noise contours for purposes of meeting Noise at Work requirements. Sample projects include Thames Water projects, Ballyragget Glanbia site, Jazan Refinery, Saudi Arabia. Gas Networks Ireland – multiple sites, Compressed gas installation Whitegate, Kilkenny Water Projects, Thames Water Noise Impact Assessment, Bioatlantis, Kerry. Completed Noise Impact Assessment reports for various industrial and waste management sites.
- Transportation Projects 1994 - 2022**
 Predicted operational and construction noise for a range of railway transport projects including highspeed rail and tram projects. Measurement of noise levels post construction at Docklands Light Railway extension. Measured noise from operational Docklands Light Railway Extension post completion to determine compliance. Measured internal noise of Inter-city trains for the purpose of developing a specification for new rolling stock.
 Measured in-site performance of acoustic barriers on motorways in Ireland. Predicted noise from upgrade to N19 upgrade project during the route selection stage.
 Managed baseline noise survey prior to construction of Dublin Port Tunnel. Projects include Sunderland Metro, UK, East Coast Main Line Upgrade (UK), Docklands Light Railway Extension. Dublin Port Tunnel, N19 upgrade route selection stage
- Building Acoustic Projects, 2002 - 2022**
 Provided acoustic advice on a range of building acoustic projects including residential, hotel, school, commercial and entertainment developments. Advised on sound insulation requirements for meeting building regulations. Advised on external building envelope design to meet suitable internal acoustic criteria. Predicted mechanical services noise to meet Local Authority noise criteria. Provided advice on meeting internal acoustic absorption requirements for a range of projects including community halls, churches, sports halls. Sample projects include Travelodge hotels, Chelsea Academy and Hammersmith Academy Schools.

Key Information

Qualifications

MEng. Acoustics and Vibration, Southampton University (ISVR), 1994

Professional Memberships

Institute of Acoustics Engineers Ireland

Employment History

2019- Present

Fehily Timoney & Company
Project Acoustic Engineer

2017- 2018

Resonate Acoustics
Acoustic Consultant

2015- 2017

Soundsorba
Sales Engineer

2011- 2015

Kellogg Brown and Root
Acoustic Engineer

2011- 2011

Mott Mac Donald
Acoustic Consultant

2008- 2010

Applied Acoustic Design
Acoustic Consultant

2007- 2008

Hoare Lea Acoustics
Acoustic Consultant

2002- 2006

Sound Research laboratories
Acoustic Consultant

2001- 2002

RPS

Acoustic Consultant

1998- 2001

Arup Acoustics
Acoustic Engineer

1996- 1998

Hotpoint Ltd
Acoustic Engineer

1993- 1996

British Rail Research
Sponsored Student/Research Assistant





Maureen Marsden

Project Acoustic Engineer



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

- **Compliance Monitoring at EPA Licenced Facilities**

Measured and analysed boundary noise measurements at licenced waste facilities to determine compliance with noise conditions of the site licence.

Monitored noise at a variety of EPA licenced facilities including food and beverage processing facilities to determine compliance with licence.

- **Wind Farm Projects**

Baseline Noise Measurements and analysis to determine prevailing background noise. Compliance measurements to determine if operating windfarms meet planning conditions. Prediction and assessment of operational and construction noise from windfarms.

Sample projects include:, Annagh Windfarm, Ballagh Windfarm, Ballinagree Windfarm , Coom Green Energy Park, Coumnagappul Windfarm, Croaghaun Windfarm, Derncart windfarm, Drehid Windfarm, Fahy Beg Windfarm, Letteragh Windfarm.

- **Solar Farm Projects**

Predicted operational noise from proposed external equipment to determine compliance with EPA criteria, and make recommendations for mitigation, if required. Predicted construction noise from works associated with to solar farm construction.

Sample projects include: Ballyvalode Solar Farm, Dunmurray Golf Course Solar Farm , Moortown Solar farm, Kilcurly Solar Farm.

- **Channel Tunnel Rail Link Project, 1996 - 1998**

Member of noise and vibration team providing noise and vibration advice. Predicted operational noise using 3-D model, during the detailed design phase of the project, determining noise barrier and bund heights to assist the project in meeting noise commitments. Liaised with design team/landscape architects to develop design incorporating bunding/noise barriers. Modelled construction noise associated with railhead operation and railway construction for the purpose of obtaining Section 61 consent for construction work.

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EMPLOYEE PROFILE

Name Julian Keenan (Project Lead Specialist)

Qualifications Degree Civil Engineering BE (Hons) University College Galway (1990)
BTech Highways & Transportation Engineering
Diploma Quality Assurance to BS5950
MIEI, MCHIT

Position Director

Trafficwise is a firm of consulting engineers specialising in traffic and transportation planning and geometric roads design. Julian Keenan is a director of Trafficwise Limited and holds a degree in civil engineering, a Bachelor of Engineering (Hons.) obtained from University College, Galway, in 1990. He is a member of the Institution of Engineers of Ireland and a member of the Chartered Institution of Highways and Transportation. He has over 30 years engineering experience, including approximately seven years in local government in the United Kingdom and over 23 years of private engineering consultancy services in Ireland, of which 18 years are with Trafficwise Limited. He has specialised in roads design and traffic and transportation planning for approximately 25 years.

Julian Keenan's consultancy experience includes advising clients in relation to road schemes, residential, commercial, industrial and leisure developments for which the key work involves provision of professional services in the design and appraisal of schemes, including the preparation of planning applications and appeals. He has represented clients at An Bord Pleanála oral hearings for commercial development, strategic infrastructure development and represented landowners and stakeholders in relation to various road schemes and infrastructural works. He has given sworn evidence before the Property Arbitrator, including in relation to road schemes, and has provided expert witness testimony in the High Court.

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Appendix A

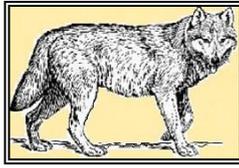
Sample Waste Industry Project Experience



PL2 / 22 / 490
21 / 09 / 2022

Project Client Status	WASTE/ENERGY INDUSTRY PROJECTS Brief Description of Commission
<p>KTK Landfill Site Kilcullen, Co Kildare Client: KTK Sand & Gravel/Celtic Waste/ Greenstar Ltd. <i>Permission Granted (Operating) Project Value €88M</i></p>	<p>Engineered Landfill Development (2002) Preparation of Transport Assessment for EIS. Preparation of Preliminary and Later Detailed Geometric Roads and Access Layouts. Weighbridge/Waste Inspection Area/Concrete Slab Design Traffic Management Advice and Adhoc Consultation re: Roads and Traffic Matters during Construction</p>
<p>Knockharley Landfill Site Nr. Kentstown, Co Meath Client: Greenstar Ltd <i>Permission Granted - An Bord Pleanála (Operating) Project Value €120M</i></p>	<p>Engineered Landfill Development (2002, 2004,2014,2019,2021) Preparation of Transport Assessment for EIS. Preparation of Geometric Roads and Access Layouts from National Primary Road. Road Safety Audit, Design of Access Road and Underpass Traffic Management Advice and Adhoc Consultation re: Roads and Traffic Matters during Construction Expert Representation at An Bord Pleanála Orla Hearing(s) Application to An Bord Pleanála for Strategic Infrastructure Development Permitted 2021</p>
<p>Waste Transfer and Recovery Facility Beauparc, Rathdrinagh, Co Meath Client: Panda Waste Limited <i>Permission Granted (Operating)</i></p>	<p>Waste Recovery Facility (2004, 2014, 2017) Preparation of Transport Assessment for EIS Design of Proposed Access Arrangements and Assessment of Internal Vehicular Operation</p>
<p>Ballynagran Residual Landfill Ballynagran, Coolbeg, Co Wicklow Client: Greenstar Ltd. <i>Permission Granted (Operating) Project Value €120M</i></p>	<p>Engineered Landfill Development (2004) Preparation of Transport Assessment for EIS Preparation of Preliminary Geometric Roads and Access Layouts. Preliminary Design of Access Road and M11 Overpass/Interchange Traffic Management Advice and Adhoc Consultation re: Roads and Traffic Matters during Construction</p>
<p>Fassaroe Waste Transfer Facility Bray, Co Wicklow Former Noble Waste Management Facility Client: Greenstar Ltd. <i>Permission Granted (Operating)</i></p>	<p>Waste Recovery Facility (2005) Preparation of Detailed Geometric Roads, Access and Facility Layouts. Layout of Compactor Access, Design of; Disposal Area, Transfer Buildings, Site Drainage, Car Park, Access Road, Weighbridge, Wheel-Wash and Civic Amenity Bring Centre (Refurbishment of Existing Site)</p>
<p>East Galway Residual Landfill Nr. Kilconnell, Co Galway Client: Greenstar Ltd. <i>Permission Granted – ABP - (Closed) Project Value €120M</i></p>	<p>Engineered Landfill Development (2002) Preparation of Transport Assessment for EIS Preparation of Preliminary Geometric Roads and Access Layouts Preparation of Detailed Roads Layout Arrangements 12km Road Improvement Expert Representation at An Bord Pleanála Orla Hearing</p>
<p>Ballycoolin Materials Recovery Facility Cappagh Road, Fingal, Co Dublin Client: Panda Waste Limited <i>Permission Granted - (Operating) Project Value €50M</i></p>	<p>Waste Recovery Facility (2007) Preparation of Transport Assessment for EIS. Preparation of Preliminary Geometric Roads and Access Layouts. Facility Layout Design</p>
<p>KTK Land Restoration Project (Inert) Ballymore Eustace, Co Kildare Client: KTK Sand & Gravel <i>Permission Granted - (Exhausted)</i></p>	<p>Land Restoration Project (2007) Preparation of Transport Assessment for EIS Preparation of Preliminary and Later Detailed Geometric Roads and Access Layouts including Safety Appraisal</p>

<p>Millennium Business Park, Ballycoolin Materials Recovery Facility Cappagh Road, Fingal, Co Dublin Client: Greenstar Limited <i>Permission Granted - (Operating)</i> <i>Project Value €50M</i></p>	<p>Waste Recovery Facility (2007) Preparation of Transport Assessment for EIS. Preparation of Preliminary Geometric Roads and Access Layouts. Facility Layout Design</p>
<p>Landfill Development Brownfield, Donard, Co Wicklow Client: ERML <i>Permission Refused</i></p>	<p>Engineered Landfill Development (2006) Preparation of Transport Assessment for EIS Preparation of Detailed Geometric Roads and Access Layouts.</p>
<p>Waste to Energy Facility, Nr Kilworth Project Vale, between Mitchellstown & Kilworth Client: Bioverda <i>Permission Refused</i></p>	<p>450,000t/a Anaerobic Digestion Plant (2006) Preparation of Transport Assessment for EIS. Preparation of Detailed Geometric Roads and Access Layouts. Facility Layout Design Representation at An Bord Pleanala Oral Hearing</p>
<p>Landfill Development Usk, Kilcullen, Co Kildare Client: Greenstar</p>	<p>Engineered Landfill Development (2007) Preparation of Detailed Geometric Roads and Access Layouts requested by An Bord Pleanala (Designs and proposals accepted by Board). Approximately 3km of road improvement works together with junction improvements. Representation at An Bord Pleanala Orla Hearing No.2</p>
<p>Calf Field Residual Landfill Ballynadrummy, Nr Longwood Client: Thornton <i>Permission Refused – An Bord Pleanála</i></p>	<p>Engineered Landfill Development (2007) <u>Did not prepare</u> Transport Assessment for EIS Preparation of Preliminary Geometric Roads and Access Layouts Preparation of Detailed Roads Layout Arrangements Representation at An Bord Pleanala Orla Hearing</p>
<p>Waste to Energy Facility Huntstown Power, Huntstown Quarry Client: Energia <i>Facility Under Construction</i> <i>Project Value €70M</i></p>	<p>Anaerobic Digestion Plant (2012) Preparation of Transport Assessment for EIS. Preparation of Detailed Geometric Roads and Access Layouts. Facility Layout Design</p>
<p>Waste to Energy Facility Little Island Cork Client: Stream BioEnergy <i>Facility Under Construction</i> <i>Project Value €50M</i></p>	<p>Anaerobic Digestion Plant (2012) Preparation of Transport Assessment for EIS. Preparation of Detailed Geometric Roads and Access Layouts. Facility Layout Design</p>
<p>Waste to Energy Facility Ballymena, Co. Antrim Client: Stream BioEnergy <i>Permission Granted - (Operating)</i> <i>Project Value €50M</i></p>	<p>Anaerobic Digestion Plant (2012) Preparation of Transport Assessment for EIS. Preparation of Detailed Geometric Roads and Access Layouts.</p>
<p>JV of Various Meat Industry Rosegreen, Nr Cashel Client: JV <i>Permission Refused at ABP</i></p>	<p>Development of Anaerobic Digestion Plant at Existing Rendering Plant adjacent to the Coolmore Stud (2006) Preparation of Transport Assessment for EIS Preparation of Preliminary and Later Detailed Geometric Roads and Access Representation at Oral Hearing</p>
<p>Oweninny Wind Farm Carrickmacross, Mayo Client: ESB & Bord Na Mona <i>Permission Granted – (Under Construction)</i> <i>Project Value €800M</i></p>	<p>Wind Farm Development Preparation of Scheme and Assessment of Development Impacts (2015) Presentation of Expert Evidence to Oral Hearing Cross-examination of Planning Authority.</p>



www.colmflynnarchaeology.ie

COLM FLYNN BA MIAI

Senior Archaeologist

Colm Flynn is a Senior Archaeologist with over 20 years' experience in cultural resource management and Licensed fieldwork. Colm has proven detailed experience in archaeological assessment, specialising in the production of cultural heritage reports for large scale infrastructural projects. He has completed more than 100 Licensed archaeological fieldwork activities and has provided consultancy services for more than 50 project development projects, including landfill sites, quarries, utilities projects, road, rail, and harbour infrastructure, industrial, commercial and residential schemes. Colm has an excellent working relationship with all of the Statutory Authorities.

Professional Qualifications/Certifications

- Licensed Archaeologist (Republic of Ireland 2006, Northern Ireland 2016)
- Galway Mayo Institute of Technology. BA (Hons.) Archaeology, 2 (I)
- Member of the Institute of Archaeologists of Ireland (MIAI)

Key Skills

- Licensed fieldwork
- Cultural Resource Management
- Archaeological, Architectural and Cultural Heritage chapters for Environmental Impact Assessment Reports
- Pre-planning consultancy

Key Project Experience

Abbey Creative Quarter Masterplan, Kilkenny City – Consultant Archaeologist

Archaeological, Architectural and Cultural Heritage Chapter for Part VIII Planning, pre-construction mitigation measures, on-site archaeological excavation and post excavation works, for the development of 8ha brownfield site in Kilkenny City. For Kilkenny County Council.

Fort Protector and Historic Portlaoise Urban Enhancement Project., Portlaoise, County Laois – Consultant Archaeologist

Archaeological, Architectural and Cultural Heritage Chapter for Part VIII Planning and on-site archaeological excavation and post excavation works for the redevelopment and enhancement of an urban site in the centre of Portlaoise beside the 16th century Fort. For Laois County Council.

Meelick Weir Refurbishment Project, Eyrecourt, County Galway– Consultant Archaeologist

Archaeological on-site works for the redevelopment of a 19th century pedestrian weir in the River Shannon. For Waterways Ireland.

Portumna Blueway Project, Portumna, County Galway – Consultant Archaeologist

Archaeological on-site works for the development of a new Blueway Park beside the River Shannon and Lough Derg. For Waterways Ireland.

Kilmainham Gaol and Museum Development, Kilmainham, Dublin City – Consultant Archaeologist

Archaeological, Architectural and Cultural Heritage for Part VIII Planning, on-site archaeological excavation, and post excavation analysis, extension to Kilmainham Gaol, and refurbishment of Kilmainham Courthouse as Museum building. For Office of Public Works and Hegarty's CE.

N56 Letterkenny Four Lane Safety Project, Letterkenny, Co. Donegal – Consultant Archaeologist

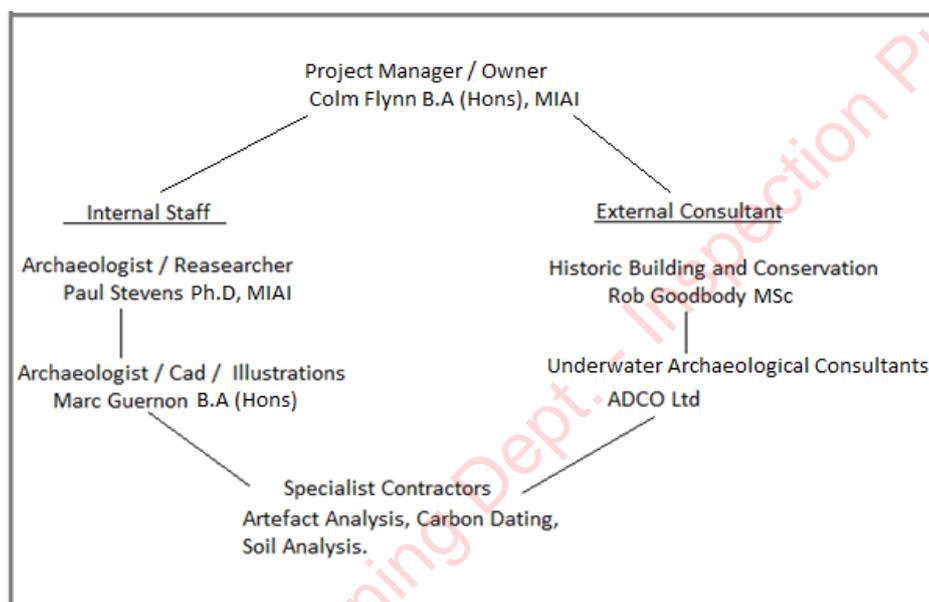
Archaeological, Architectural and Cultural Heritage for Part VIII Planning, pre-construction mitigation measures, for Donegal County Council for development of widened road scheme in Letterkenny, Co. Donegal.

Sligo Urban Enhancement Scheme, Sligo town, Co. Sligo – Consultant Archaeologist

Archaeological, Architectural and Cultural Heritage for EIAR, and construction stage mitigation measures, for urban enhancement project including new roads, bridge, footpaths and utilities, for TII / Sligo Co Co and Fox Building and Engineering Ltd.

Colm Flynn Archaeology is an archaeological consultancy providing a wide range of archaeological services to our clients in the public and private sector. From our base in County Laois we work on projects throughout the Republic of Ireland, and Northern Ireland, from large scale infrastructural projects, including public works projects and amenities, road schemes, water projects, cycleways, windfarms, residential and commercial developments. We advise our clients from pre-planning and project inception, through to EIARs, part VIII Planning, Archaeological Impact Assessments, planning applications, and on-site archaeological mitigation measures. It is our experience that through good communication and information transfer between our staff and our clients, possible issues for our clients can be identified and resolved to the satisfaction of our clients. Our focus is on providing our clients with an excellent service of the highest industry standards, whilst protecting our shared archaeological and architectural heritage. We frequently work with our colleagues *Architectural Heritage Consultant Rob Goodbody* and *Underwater Archaeological Consultants ADCO Ltd*.

Organisational Structure



Offaly County Council, Planning Dept. - Inspection Purpose Only



Jamie Ball BA – Landscape Architecture MILI	Position:	Senior Landscape Architect
	Professional Experience	
	<p>Jamie is a Senior Landscape Architect and team leader within Macro Works and has been with us since 2017. He undertakes assessments for a wide range of development types across our portfolio. A Dublin-native, he has broad experience from several leading landscape consultancies, both domestic and international (i.e. USA and Australia) and has been involved in a number of high profile projects since graduating with Honours from the University of Gloucestershire in 1998.</p> <p>Jamie has also spent a number of years as an award-winning travel & tourism journalist, endowing him with a unique analytical and writing ability that is critical to high quality LVIA's. For this reason, Jamie also undertakes internal reviews of many of Macro Works LVIA reports.</p>	

Offaly County Council, Planning Dept. Inspection Purposes Only!



Bruna Ferrari Felipe

Project Engineer



CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Profile

Bruna is a Project Environmental Engineer of Fehily Timoney and Company. Bruna holds a BE of Environmental Engineering from UNESP, Sao Paulo State University, Brazil.

Since joining FT in 2019 Bruna has been involved in a range of contaminated land projects and Tier II Environmental Risk Assessments (ERA). Bruna has been responsible for the data collation, validation and analysis for the preparation of ERA reports for a range of landfill related projects, including works related to meeting environmental monitoring and license compliance for a variety of landfills. She has also been involved in the preparation of Appropriate Assessment reports and an European Sites library to the Department of Agriculture, Food and Marine. Prior to joining FT Bruna completed work relating to the development of bespoke waste management software, waste data analysis and implementation of waste management plans.

Key Projects/ Previous Experience Essentials for This Project

Landfill

- Project Engineer, Remediation of Contaminated Lands at Whitestown Co. Wicklow, 2019 – ongoing**
 Responsible for preparing the environmental monitoring reports, which includes collating the extensive environmental monitoring data (surface water, groundwater, soils) and automatically screening the results against the pertinent environmental assessment criteria utilizing both Excel and specialist geotechnical databasing software HoleBase. Also assisting with the bill of quantities review for the geotechnical services and the planning history search.
- Project Engineer, Environmental Assessment of Historic Landfill at Corkeeran, Co. Monaghan, 2018 – ongoing**
 Bruna was responsible for the preparation of the Tier 2 Assessment for the historic landfill, including desk assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater.
- Project Engineer, Tier 3: Skehana and Sevenhouses Historic Landfills, 2020 – 2021**
 Responsible for the preparation of the Certificate of Authorisation Application for both historic landfill sites.
- Project Engineer, Ballymaurice Historic Landfill Tier 2 & 3, 2021 – ongoing**
 Bruna was responsible for the preparation of the Tier 2 Assessment for the historic landfill, including desk assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater.
- Project Engineer, Tier 1 ERA Portumna Historic Landfill, 2021**
 Responsible for the preparation of the Tier 1 Assessment for the historic landfill, including the desktop assessment, development of Conceptual Site Model and the Risk Assessment.
- Graduate Engineer, Tier 2 / 3 Assessment for North Kerry Landfills, 2019 – ongoing**
 Bruna was responsible for the preparation of Tier 2 Assessment for 2 No. Historic Landfill sites in north Kerry, including desk study assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater.
- Graduate Engineer, Tier 2 / 3 Assessment for Mid Kerry Landfills, 2019 – ongoing**
 Responsible for the preparation of Tier 2 Assessment for one Historic Landfill site in mid Kerry, including desktop assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater.

Key Information

Qualifications

BE (Hons) Environmental Engineering
UNESP, Sao Paulo State University,
Brazil

Employment History

2019—Present

Fehily Timoney and Company, Cork
Graduate Engineer

2017—2017

FP Environmental Engineering, Sao
Paulo, Brazil

Comhairle Chontae Uíbhíne
County Council
PLANNING

PL2 / 22 / 490
21 / 09 / 2022



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- **Graduate Engineer, Thorpes and Oldcourt, 2020 – ongoing**
Bruna assisted the preparation of Tier 3 Assessments for 2 No. Historic Landfill sites in Kilkenny, including data collation and validation, data analysis, screening of results against published guidelines for surface water. She was also responsible for the preparation of the certificate of authorisation application for both landfill sites.
- **Graduate Engineer, Tipperary Historic Landfill Sites, 2019 – ongoing**
Responsible for the preparation of Tier 2 Assessment for 4 No. Historic Landfill sites across Tipperary, including desktop assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater. Bruna also assisted with the AA Screening report for all landfill sites, her responsibilities included desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.
- **Graduate Engineer, Galway Historic Landfill Sites, 2019 – ongoing**
Responsible for the preparation of Tier 2 Assessment for 3 No. Historic Landfill sites across Galway, including desktop assessment, development of Conceptual Site Model, data collation and analysis, screening of results against published guidelines for surface and groundwater. Bruna also assisted with the AA Screening report for the landfill sites, her responsibilities included desktop assessment using ArcGIS, identification, and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search. The Certificate of Authorisation application for these sites were also Bruna's responsibility.
- **Graduate Engineer, Tier 2 Scotch Corner Historical Landfill – 2019 – ongoing**
Bruna assisted with the research for future options to the landfill, including continuation of landfilling, development of solar farm, grid management infrastructure, integrated constructed wetland and co-located waste developments.
- **Graduate Engineer, ERA of Historic Landfills at Killycard and Killycronaghan, Co. Monaghan – 2020**
Bruna assisted with the response to EPA Notice to support Certificate of Authorisation application.
- **Graduate Engineer, Engineering Consultancy Services Framework at Balleally former Landfill, 2020 – ongoing**
Bruna assisted the preparation of several Specified Engineering Works, such as Vertical Well Analysis, Landfill Gas Management, Topographic Monitoring Points and Electrical Control Building. She was also responsible for the preparation of Leachate Treatment Plant Report, describing the existing plant, its current issues and future options to solve them.
- **Graduate Engineer, Claremorris Tier 3 and Remediation Plan, 2019 – ongoing**
Assisted with the Tier 3 report, including desk study and site investigation results.
- **Graduate Engineer, Arthurstown Landfill, 2020 – ongoing**
Bruna assisted the annual emissions report (AER) calculations for air and leachate prior to submission for EPA through an online portal.
- **Graduate Engineer, Annual Landfill Emissions Reporting: Multiple Waste Licence Sites**
Bruna assisted the annual emissions calculations for air and leachate in collation and analysis of all annual data prior to submission for EPA through an online portal. Sites included, Balleally, Dunsink, Ballyogan and East Galway Landfills

AA Screening Reports

- **Graduate Engineer, Assistance to Department of Agriculture, Food and Marine (DAFM), 2020 – ongoing**
Assisting the preparation of AA Screening, AA Reports and AA Determinations for several forestry sites, including thinning, felling, and forestry roads. Bruna was responsible for triaging files, assessing the quality of biodiversity and road maps, harvest plans and NISs. Responsible for identifying European Sites within 15 km of c. 200 No. project sites and calculate their distance using ArcGIS. Bruna was also responsible for gathering and compiling information related to Conservational Objectives of the European Sites, such as Qualifying Interests and Special Conservation Interests in order to organise and keep a library updated to the DAFM.
- **Graduate Engineer, Decommissioning and removal of bulk fuel storage tanks, 2020 – ongoing**
Bruna assisted the preparation of the AA Screening report for the decommissioning and removal of bulk fuel storage tanks and the development of a high-quality public amenity in New Ross, county Wexford. Her responsibilities included identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.
- **Graduate Engineer, Shonagree Wind Farm Ecology Surveys 2019/20, 2019 – ongoing**
Bruna assisted the preparation of the AA Screening report for the Shonagree Wind Farm, county Cork. Her responsibilities included desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.
- **Graduate Engineer, EIAR, Planning and IPPC Review - Edenderry Power Ltd, 2020 – ongoing**
Assisting the preparation of the AA Screening report for Edenderry Power Ltd, for the continuation of Clonbullogue Ash Repository, county Offaly, Bruna was responsible for the desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.
- **Graduate Engineer, Bilboa Wind Farm ecological Surveys, EclA and AA 2019/20, 2019 – ongoing**
Bruna assisted the preparation of the AA Screening report for the Bilboa Wind Farm, county Carlow. Her responsibilities included desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.





Bruna Ferrari Felipe

Project Engineer



CONSULTANTS IN ENGINEERING,
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- **Graduate Engineer, Croaghaun Wind Farm, Carlow – 2019 – ongoing**
Assisting the preparation of the AA Screening report for Croaghaun Wind Farm, county Carlow, Bruna was responsible for the desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search.
- **Graduate Engineer, TA Scotch Corner Landfill – 2019 – ongoing**
Assisting the preparation of the AA Screening report for the proposal of alteration of the existing licence boundary at the Scotch Corner Landfill site in Co. Monaghan, Bruna was responsible for the desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites.
- **Graduate Engineer, Carlow CC Historic Landfill Assessment and Registration, 2020 – ongoing**
Bruna assisted the preparation of the AA Screening report for the Haroldstown Landfill, county Carlow. Her responsibilities included desktop assessment using ArcGIS, identification and description of European Sites within 15 km of the project site, screening matrix of the likely effects on these sites and planning search. She was also responsible for data collation and analysis, screening of results against published guidelines for surface water, groundwater and landfill gas.

Design and Pricing

- **Project Engineer, Oxygen Waste Transfer EIAR and NIS: Derryarkin and Rochfortbridge, 2020 - ongoing**
Responsible for preparing the Firewater Risk Assessment for the development using the EPA Excel tool.
- **Graduate Engineer, HWRC and Depot Costings - Mitchel Troy Monmouthshire, 2020 – ongoing**
Bruna was responsible for measuring and pricing multiple design options for the redevelopment of the existing waste operations site to include for the provision of a new Household Waste Recycling Centre and new household waste collection operation. Pricing was completed based off a specimen design, using principal quantities and engineering assumptions. Rates used were as per latest UK internal library and published rates. The project was completed on the WRAP Wales Collaborative Change Programme framework.
- **Graduate Engineer, Vale of Glamorgan Waste Transfer Station Costings – 2019 – ongoing**
Responsible for measuring and pricing works associated with the development of an existing Waste Transfer Station to accept multiple waste streams under a revised waste collection strategy. Pricing was completed based off a specimen design, using principal quantities and engineering assumptions. Rates used were as per latest UK internal library and published rates. The project was completed on the WRAP Wales Collaborative Change Programme framework.
- **Graduate Engineer, Carmarthenshire Waste Transfer Station Costings – 2019**
Responsible for measuring and pricing works associated with the development of an existing Waste Transfer Station to accept multiple waste streams under a revised waste collection strategy. Pricing was completed based off a specimen design, using principal quantities and engineering assumptions. Rates used were as per latest UK internal library and published rates. The project was completed on the WRAP Wales Collaborative Change Programme framework.

Data Analysis

- **Project Engineer, Covanta WtE: Repak Packaging Study Q3 and Q4, 2021**
Bruna was responsible for preparing the Sampling Plan and compiling the data on Excel for the preparation of the Survey Report for the Repak Packaging Study.
- **Project Engineer, Thorntons 2021 MDR Inputs Repak Survey, 2021**
Responsible for preparing the MDR intake survey and compiling the data on Excel for the preparation of the Survey Report for the Repak Survey.
- **Project Engineer, Indaver Repak Waste Characterisation Studies, 2021**
Bruna was responsible for preparing the Sampling Plan for the Repak Packaging Study.
- **Project Engineer, Dublin Airport PFOS Investigation, 2021 – ongoing**
Bruna was responsible for collating the environmental monitoring data (surface water and groundwater).
- **Graduate Engineer, Repak Studies Glanway, 2020**
Bruna was responsible for preparing the Sampling Plan and compiling the data on Excel for the preparation of the Survey Report for the Repak Packaging Study.
- **Graduate Engineer, Guidance for Public Authorities on the Provision of Article 6(3) and Article 6 (4) of the Habitats Directive, 2020 – ongoing**
Responsible for the baseline research of other European countries guidance documents related to the Habitats Directive and for the compilation of the appendices in order to assist the elaboration of the Irish Guidance Document.
- **Graduate Engineer, Irish Prison Service Environmental Framework – 2020 – ongoing**
Responsible for reviewing and compiling the legal requirements contained in the Discharge Licences for Irish Prisons.





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Project Engineer



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- **Graduate Engineer, Dunkettle Interchange, 2019 – ongoing**

Bruna assisted with air quality data statistical analyses for PM2.5, PM10 particulate monitoring at a Pharma-Chem facility adjacent to proposed significant works. The project involved reviewing all continuous emissions monitoring testing data collected from the air monitors on site, data was collected for 12 months at 2 locations at 15 minute interval. Brunna was responsible for collating and validating the significant data sets in Excel, prior to preparing detailed statistical analysis, prior to preparing a draft of the air quality monitoring report.

- **Researcher, Final Year Project – Bespoke Waste Management Software, 2016 - 2017**

Responsible, together with IT team, for the development of a bespoke waste management software solution adequate to Brazilian laws to assist and manage the waste generation for multiple types of business. The development happened simultaneously with the university's waste management plan development, involving surveys, database creation, data collation, validation, and analysis.

Site Work

- **Project Engineer, Environmental Compliance Audit, 2021 – ongoing**

Bruna assisted 2 no. and conducted 1 no. site walkovers and audits for compliance assessment with legislative requirements for environmental management in the jurisdictions of Northern Ireland (NI) and the Republic of Ireland (ROI) for the Irish Lights.

- **Project Engineer, Ballyogan Environmental Monitoring, 2017 – ongoing**

Assisted with annual monitoring for groundwater, surface water and landfill gas.

- **Project Engineer, Stewarts Hospital Ecology Surveys, 2021 – ongoing**

Bruna assisted with the conduction of Bat Survey in the vicinity of Stewarts Hospital.

- **Project Engineer, SID Application, EIAR and IE Licence Application for Thorntons, 2021 – ongoing**

Assisted with the conduction of the noise monitoring at residential locations near the existing Thorntons Waste Processing Facility at Recycling State, Finglas, Co. Dublin.

- **Project Engineer, Coolkeeragh Stability Project, 2021 – ongoing**

Bruna assisted with the conduction of the sightline assessment and the hydrological assessment on site and the preparation of the respective reports.

- **Graduate Engineer, CNG design support - Kill North, Newhall, City North and Virginia, 2019 - ongoing**

Bruna assisted with the conduction of Baseline Noise Survey in the vicinity of Virginia Transport.

- **Graduate Engineer, Derryhogan Yard, Littleton, 2019 – 2020**

Assisted the supervision of Site Investigations at the site, which included 5 Trial pits and the collection of environmental samples from trial pits for waste classification.