



THE STORAGE & TREATMENT OF DREDGINGS

Fully compliant and cost effective waste management services for dredgings from inland waterways, harbours and ports



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WHO WE ARE

AUGEAN IS LEADING THE WAY THROUGH COMPLIANCE DRIVEN SERVICES AND FACILITIES FOR THE UK'S WATERWAYS AND PORT AUTHORITIES

GROUP PROFILE

Augean specialises in managing hard-to-handle wastes.

We have UK waste treatment and disposal infrastructure and we focus on delivering best environmental outcomes.

We service the Infrastructure and Construction, Renewable Energy, Nuclear and Radioactive, Processing and Manufacturing, and Oil and Gas sectors.

Augean is one of the UK's leading operators in the treatment of hard to handle wastes, including dredgings from inland waterways such as canals and rivers, as well as from harbours and ports.

Our services for dredgings provide the following benefits:

- + A compliant and cost-effective alternative to both land-spreading and sea disposal
- + Acceptance of wet or dry, contaminated or non-contaminated dredgings
- + Large permitted engineered storage lagoons enabling significant volumes to be handled
- + Treatment facilities located in Teesside (near quayside) and near Peterborough
- + Following treatment, either recovery or disposal options available

KEY FIGURES

2004

Augean established

2023

Future Industrial Services acquired

600~

Employees across the group (circa)

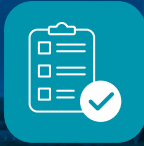
£150m

Total revenue (2024)

22 sites

Across the UK

OUR COMMITMENT



COMPLIANCE

We ensure that our waste solutions are sustainable by monitoring forthcoming changes in regulation and legislation so that compliance objectives are understood, communicated to our operational teams and customers, and new protocols are implemented as necessary ahead of regulatory deadlines.

HEALTH & SAFETY

Safety is consistently at the forefront of how we operate our business. We operate under a fully integrated Management System, which is accredited to ISO 9001, ISO 14001 & ISO 45001 standards.



WASTE MANAGEMENT

All wastes are managed with due regard to the Waste Hierarchy and Best Available Techniques. We specialise in the development of innovative solutions for the UK's more hard to handle wastes, backed-up by industrial services and decommissioning capability for a complete end-to-end service.



CARBON FOOTPRINT AND ENVIRONMENTAL IMPACT

Our range of eco-friendly solutions aid in reducing the carbon footprint and environmental impact for ourselves and our customers. Our certification to ISO 14001 demonstrates our commitment for achieving legal and regulatory compliance to regulators and government. Focussing on best environmental outcomes.



EXPERIENCED STAFF

Our knowledge and experience set us apart from our competitors. We pride ourselves on having the most experienced and capable team who service our customers whilst drawing from decades of experience. Together, with our wide-ranging service offering, we can be confident that we will deliver the best quality of services.



RECOVERY OF DREDGINGS

Augean's treatment services at its Port Clarence site in Teesside include the treatment to recovery of dredgings.

At Port Clarence, Augean has an operation in place, which is permitted by the Environment Agency, for the use of treated dredgings, and other suitable wastes, as an environmentally beneficial material in the construction of an engineered low permeability separation structure.

This is designated a R05 recovery process and provides the following additional benefits:

- + Makes best use of treated dredgings through recovery
- + Provides a secure and robust end destination for treated dredgings avoiding the risk of dispersal of contaminated dredgings into the sea or uncontrolled onto land

By utilising our engineered storage lagoon, dredgings can be accepted wet at short notice before being treated. All dredgings are treated for use through our innovative recovery processes at Port Clarence. Alternatively, dredgings can be treated ready for disposal to landfill at either our Port Clarence, Teesside facility, or our East Northants Resource Management Facility near Peterborough (ENRMF).

Using our engineered storage lagoons prior to treatment means that our clients avoid delays caused by the need to permit activities such as land spreading and disposal to sea. Additionally, as our lagoons do not require dredgings to be de-watered prior to arrival, we can accept dredgings with very short notice, all year round.



Dredgings Treatment & Disposal Methods

BENEFITS	AUGEAN	SPREAD TO LAND	LANDFILL	SEA DISPOSAL
Contaminated dredgings accepted	✓	✗		Subject to CEFAS Limits
Available all year round	✓	✗		✗
Can be taken wet	✓		✗	
Can be actioned quickly	✓	✗	✗	✗
No further consents required	✓	✗	✗	✗

WE ARE THE **LEADING UK PROVIDER** TO OFFER WASTE MANAGEMENT AND SPECIALIST INDUSTRIAL SERVICES TO THE **WATERWAYS** AND **PORT AUTHORITIES**

Augean services the following sectors for hazardous and non-hazardous dredgings:

- + Canals and locks
- + Rivers, lakes and ponds
- + Ports, docks and quaysides



Carbon Benefits of Augean's Treatment Process

Augean has a deep expertise in chemically and physically understanding the interaction of the waste materials we receive. This allows the effective application of the Waste Hierarchy for re-use, recycling, recovery, disposal and importantly environment and climate protection.

The treatment of dredgings requires a dehydration and stabilisation process in a chemical matrix using cement or lime. However, the use of virgin cement or lime has a high carbon impact and therefore Augean uses the residual waste lime within other wastes, such as Air Pollution Control Residues (APCr) from renewable energy from waste and biomass plants, in the treatment process.

There are significant carbon reduction benefits from Augean's treatment processes. For example, typically for every 1,000 tonnes of dredgings treated using Augean's recovery process at Port Clarence, the total CO₂ savings are around 2,107 tonnes.^{1,2}

1: Calculations based on DEFRA Conversion Factors for Aggregates (landfill and open/closed loop recovery) <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>. 2: Calculations based on MJCA report reference AU/CF/5708/01/2023.

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Augean's treatment of dredgings provides a cost-effective alternative to sea disposal and land spreading.

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Terry Blanchard, Augean's Port Clarence Site Manager

OUR DREDGINGS TREATMENT PROCESS

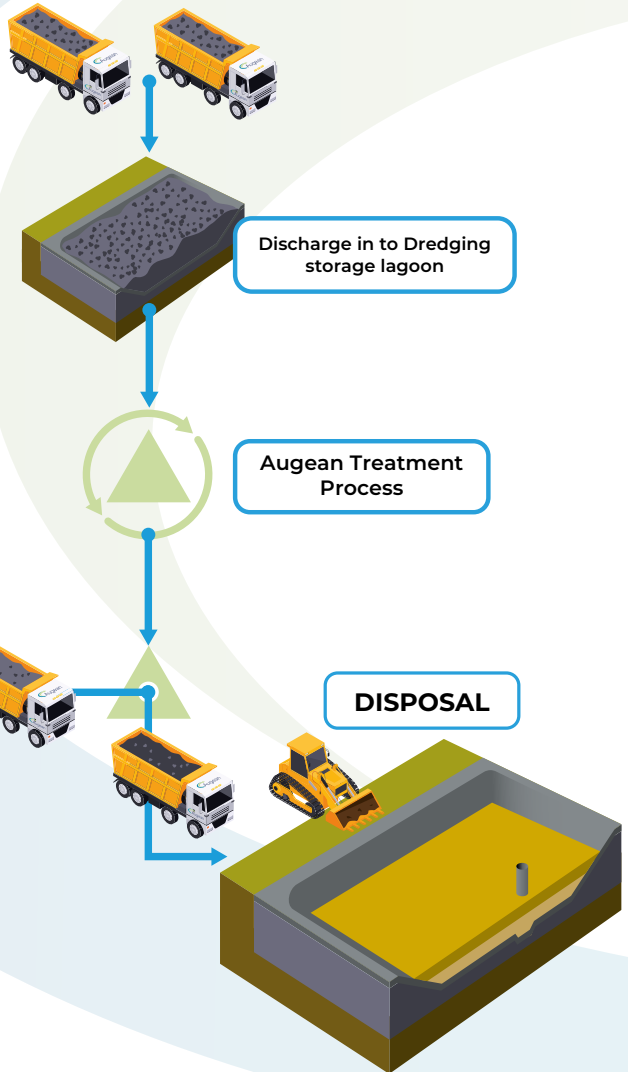
The Augean Dredgings Treatment Process

The treatment of dredgings involves dehydration and stabilisation within a chemical matrix using a reagent such as cement or lime.

To reduce the environmental impact associated with high carbon emissions associated with the use of virgin products such as cement or lime, Augean incorporates residual waste lime derived from other waste streams, such as Air Pollution Control Residues (APCr) generated by renewable energy from waste and biomass facilities.

This promotes more sustainable waste management practices by reusing existing waste materials, instead of virgin products, and minimising carbon footprint.

By utilising our engineered storage lagoon, dredgings can be received in a wet state at short notice, allowing for flexible and efficient handling before undergoing treatment. This setup ensures prompt containment and management of dredgings, streamlining the overall process.





Non-hazardous / contaminated soils
i.e. construction & infrastructure
waste soils delivered by HGV



Potentially suitable
materials

Suitable for direct use
Assessed at
pre-acceptance stage

Augean Treatment
Screening, Sorting
& Processing



RECOVERY
in Port Clarence
Restoration
Project



Waste as a Resource

We specialise in producing high-quality aggregates and restoration materials derived from construction and demolition wastes. Additionally, we stabilise certain hazardous wastes to enable safe recovery and reuse, supporting sustainable waste management and environmental protection.

This integrated approach helps reduce landfill use while providing valuable materials for construction and land restoration projects.

OUR SITES

Port Clarence, Teesside



The site operates a treatment facility and separate disposal facilities for hazardous and non-hazardous wastes.

Additionally, Port Clarence has a large permitted engineered storage lagoon for dredgings.

Home to our Waste Recovery Park we are able to provide specialist treatment to a variety of non-hazardous and hazardous waste streams.

OUR TREATMENT PROCESSES:

- + Bio-remediation
- + Stabilisation
- + Neutralisation
- + Screening, sorting and segregation for subsequent recovery or disposal

THE WASTES WE CAN TREAT / DISPOSE:

- + Dredgings
- + Hydrocarbon contaminated soils
- + Metals contaminated soils
- + Asbestos & asbestos contaminated soils
- + Filter cakes and sludges
- + PFAS contaminated soils
- + Residues from renewable energy plants - APCr, Fly Ash, IBA and others
- + Road planings
- + Naturally Occurring Radioactive Materials (NORM)
- + Non-hazardous wastes (excluding bulky wastes)

ENRMF, near Peterborough



The site operates a treatment facility and a disposal facility for hazardous wastes. Additionally, ENRMF has a large permitted engineered storage lagoon for dredgings.

Our nearby Thornhaugh site accepts stable non-reactive wastes and non-hazardous wastes.

We also operate permitted treatment and transfer facilities located in other regions of mainland UK where we can receive, bulk and transfer wastes to our treatment and disposal facilities.

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- + Residues from renewable energy plants - APCr, Fly Ash, IBA and others
- + Road planings
- + Naturally Occurring Radioactive Materials (NORM)
- + Low Level and Very Low Level Radioactive Wastes
- + Non-hazardous wastes (excluding bulky wastes)



Dredging of river dock – testing, excavation, transport, treatment and disposal of contaminated river dredgings



Crawler crane dockside

Project Name:	Testing, excavation, transport, treatment and disposal of contaminated river dredgings
Volume:	3,000 tonnes
Project Scope:	Excavation of 3,000 tonnes of contaminated river dredgings to clear access to dry dock. Formation of temporary bunded storage area port side and treatment of contaminated dredgings at our Port Clarence Facility

Project Highlights

- + Excavation of 3,000 tonnes of dredgings via a crawler crane.
- + Formation of temporary storage area.
- + Transport of wet dredgings utilising sealed tippers.
- + Treatment and disposal of dredgings at our Port Clarence treatment facility.

Project Overview

Augean was engaged to manage the dredging of a major river in the North East after initial testing revealed elevated Polycyclic Aromatic Hydrocarbons (PAHs) in dock-adjacent silt.

Our technical team reviewed the results, which were unsuitable for land disposal. Additional sampling and testing at our UKAS-accredited Peterborough laboratory enabled proper classification under WM3 guidance, ensuring regulatory compliance.

Due to contamination levels and dock proximity, crane equipment was required for safe dredging. Augean mobilised this within two weeks using our extensive supply chain to meet client deadlines.

A temporary bund was constructed to contain dredged silt before loading onto sealed 8-wheel tippers. Material was transported to our Port Clarence facility and deposited into a purpose-built dredgings lagoon.

Following dehydration with Air Pollution Control residues (APCr), contaminated dredgings were safely disposed of at Augean's Port Clarence site. The client received a compliance pack with weekly tonnage reports, documentation, and weighbridge tickets.

The solution

Augean delivered an end-to-end turnkey solution for the dredging industry. Through strategic utilisation of our supply chain, project management expertise, and treatment infrastructure, we provided seamless, integrated service addressing all project aspects.

This comprehensive approach maximised operational efficiency while guaranteeing regulatory compliance, ensuring successful and timely project completion.

“Augean demonstrated our capacity to deliver comprehensive turnkey solutions to the dredging market. By leveraging our extensive supply chain, expert project management, and advanced treatment infrastructure, we provided the client with a seamless, all-in-one service for their dredging needs, ensuring efficiency and compliance throughout the project.”

Joseph Newman, Augean's Commercial Head of Construction Wastes

ESG

AUGEAN IS COMMITTED TO MEETING ITS ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) OBLIGATIONS

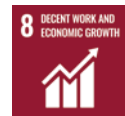
Since its inception, Augean has adhered to best practices in environmental stewardship, social responsibility, and corporate governance. We are committed to the continuous development of ESG standards, which are integral to our growth strategy.

Our company values, policies, and management systems embody these principles. Since 2005, we have produced an annual Corporate Sustainability Report (CSR), which outlines our ethos and operational practices while disclosing our performance against selected sustainability criteria. This report reflects our dedication to transparency and accountability as we strive to achieve our sustainability goals.

ENVIRONMENTAL criteria evaluate how a company acts as a steward of nature. Augean recognises the vital role it plays in safeguarding the environment and positively impacting the communities in which it operates.

SOCIAL criteria assess how we manage relationships with our employees, suppliers, customers, and the communities in which we operate. Prioritising the health, safety, and well-being of our employees is paramount. We are committed to complying with regulations and acting as a responsible neighbour by minimising the impact of our operations on the wider community, making these objectives key business priorities.

GOVERNANCE encompasses a company's practices regarding compensation, audits, internal controls, and shareholder rights. Upholding the highest standards of governance is essential for the effective execution of our strategy. It ensures that our Board makes decisions that generate sustainable long-term value for the mutual benefit of our customers, the communities we serve, our employees, and our shareholders.



OUR TESTIMONIALS

Utilising Augean's facilities for the storage, treatment and disposal of wet dredgings helped us complete the Titford Pools project both on time and on budget.

With Augean's ability to accept material wet we were able to bypass the de-watering process, saving both time and money.

- Contracts Manager, Land & Water

Augean is an invaluable partner to our work, their solutions-based attitude and great customer service mean it can always be relied upon for our disposal needs.

- Environmental Engineer, Land & Water

We have developed a close **collaborative relationship** over the years, now working regularly with David and the team on **small and large scale complex projects** throughout the UK. Our experience has also been positive with their **flexibility and adaptability** being instrumental in helping us navigate various challenges.

They consistently demonstrate an ability to **solve problems efficiently** and establish clear costings breakdowns to ensure **accuracy when project planning**.

Providing clear communication and updating the project team as and when required is a **huge benefit** to the overall project success.

- Project Manager, Ebsford Environmental

Working with Augean was a pleasurable experience and their positive can-do attitude solved many problems.

I believe that both Augean and AV Dawson have benefited from the work. Augean was able to use the dredged material to help dehydrate the wet dredgings, whilst providing AV Dawson with an affordable means of disposal.

- Chairman, AV Dawson



THE SECTORS WE SERVICE



Defence



Infrastructure & Construction



Nuclear & Radioactive



Oil & Gas



Processing & Manufacturing



Renewable Energy



Utilities

Insert FSC Logo
ref: landscape/Green positive



MORE SERVICES FROM AUGEAN

- + [Oil & Gas Waste Services](#)
- + [Radioactive Waste Services](#)
- + [Specialist Industrial Services](#)
- + [Specialist Waste Containers](#)
- + [Treatment & Disposal Services](#)
- + [Treatment & Transfer Services](#)



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