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Award

## **Waterwhelm Novel Desalination Trial**

Mining Remediation Authority

UK5: Transparency notice - Procurement Act 2023 - view information about notice types

Notice identifier: 2025/S 000-057402

Procurement identifier (OCID): ocds-h6vhtk-059c66 (view related notices)

Published 17 September 2025, 3:02pm

### Scope

#### Reference

CA18/05741

### **Description**

The Mining Remediation (MRA) Salinity Department are developing a Programme of short trails to research novel and emerging technologies which may be of use when seeking solutions to the problems posed by rising saline mine water.

Waterwhelm is an award winning start up company based in the UK. Waterwhelm have designed and developed an efficient "Forward Osmosis" technology which has the potential to deliver large savings when compared against existing "Reverse Osmosis" technology.

The prototype they have developed is highly mobile and can be deployed from shipping containers. Following a site visit in June this year, the Salinity Department believe this technology is worthy of inclusion in the trials programme.

Salinity Department have identified the Lynemouth mine water treatment scheme as the

site most suitable to run a Waterwhelm-operated pilot project. Waterwhelm's pilot plant deployed at Lynemouth will consist of two 20ft stacked shipping containers. These items of plant had previously operated at a capacity of 5m3/day, equivalent to reusing and processing 5,000 litres of wastewater or brackish water per day.

When deployed at Lynemouth, the plant will operate at a capacity of ~2m3/day, powered by an electrical heater. The purpose of the plant will be to process water that has entered the mine and absorbed naturally occurring minerals from the rocks within the mine, such as iron.

The pilot project will consist of five key stages (in order of occurrence): mobilisation; installation; commissioning; operation; and decommissioning/demobilisation. Subsequently, research and analysis of pilot test results will be gathered and evaluated before providing a detailed write-up of findings, along with a feasibility study and development of the business case.

It is expected the project will run from September until December

### Contract 1

## **Supplier**

Waterwhelm

#### Contract value

- £190,000 excluding VAT
- £228,000 including VAT

Below the relevant threshold

### Earliest date the contract will be signed

29 September 2025

### **Contract dates (estimated)**

- 1 October 2025 to 31 December 2025
- 3 months

## Main procurement category

Works

### **CPV** classifications

- 42912340 Desalination apparatus
- 45232430 Water-treatment work
- 65122000 Water desalination services

### **Contract locations**

- UKC North East (England)
- UKD North West (England)
- UKE Yorkshire and the Humber
- UKF East Midlands (England)
- UKG West Midlands (England)
- UKH East of England
- UKI London

- UKJ South East (England)
- UKK South West (England)

# **Participation**

# Particular suitability

Small and medium-sized enterprises (SME)

### **Procedure**

# **Procedure type**

Below threshold - without competition

# **Supplier**

### Waterwhelm

Suite 2, Orchard Brae House, 30 Queensferry Road,

Edinburgh

EH4 2HS

**United Kingdom** 

Email: info@waterwhelm.com

Region: UKM75 - Edinburgh, City of

Small or medium-sized enterprise (SME): Yes

Voluntary, community or social enterprise (VCSE): No

Contract 1

## **Contracting authority**

### **Mining Remediation Authority**

Public Procurement Organisation Number: PRPD-5825-QDVY

200 Lichfield Lane

Nottinghamshire

NG18 4RG

**United Kingdom** 

Contact name: Roger Martin

Email: procurement@coal.gov.uk

Region: UKF15 - North Nottinghamshire

Organisation type: Public authority - central government