

# **EP Waste Installation Application EPR/GP3245QY**

**Calder Remediation Ltd**

CRL\_2022.01/001\_v1 February 2023

# Application for an environmental permit

## Part A – About you



You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or surrender your permit, or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

You can apply online for Waste standard rules environmental permits, bespoke waste permits and bespoke Medium combustion plant permits

Apply online for an environmental permit.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

**Note:** if you believe including information on a public register would not be in the interests of national security you must enclose a letter telling us that you have told the Secretary of State. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

### Contents

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- Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

## 1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual

Now go to section 2 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

An organisation of individuals (for example, a partnership)

Now go to section 3 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

A public body

Now go to section 4

A registered company or other corporate body

Now go to section 5 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

## 2 Applications from an individual

### 2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

### 3 Applications from an organisation of individuals or charity

#### 3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

#### 3b Details of the organisation or charity

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to question 3c or section 6

#### 3c Details of charity

Full name of charity

This should be the full name of the legal entity not any trading name.

#### 3d Company registration number

If you are registered with Companies House please tell us your registration number

#### 3e Charity Commission number

If you are registered with the Charity Commission please tell us your registration number

Now go to section 6

### 4 Applications from public bodies

#### 4a Type of public body

For example, NHS trust, local authority, English county council

#### 4b Name of the public body

#### 4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

### 5 Applications from companies or corporate bodies

#### 5a Name of the company

#### 5b Company registration number

Date of registration (DD/MM/YYYY)

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

## 5 Applications from companies or corporate bodies, continued

### 5c Please give details of the directors

If relevant, provide details of other directors and company secretary, if there is one, on a separate sheet and tell us the reference you have given this sheet.

Document reference

Details of company secretary (if relevant) and director/s

Title (Mr, Mrs, Miss and so on)

First name

Last name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

## 6 Your address

### 6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference

### 6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

## 6 Your address, continued

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

## 7 Contact details

### 7a Who can we contact about your application?

It will help us if there is someone we can contact if we have any questions about your application. The person you name should have the authority to act on your behalf.

Please add a second contact on a separate sheet if this person is not always available.

Document reference of this separate sheet

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

### 7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

## 7 Contact details, continued

### 7c Who can we contact about your billing or invoice?

**Note:** Please provide the name and address that all invoices should be sent to for your subsistence fees.

As in question 7a

As in question 7b

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

## 8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

Website: [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency)

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it. More information on how to do this is available at: [www.gov.uk/government/organisations/environment-agency/about/complaints-procedure](http://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure).

**Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.**

## 9 Where to send your application

For how many copies to send see the guidance note on part A.

For water discharges by email to [PSC-WaterQuality@environment-agency.gov.uk](mailto:PSC-WaterQuality@environment-agency.gov.uk)

For waste and installations by email to [PSC@environment-agency.gov.uk](mailto:PSC@environment-agency.gov.uk)

For flood risk activity permits send 1 copy only to [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk) or to the local Environment Agency office for where the work is proposed to be carried out.

Or

Permitting Support, NPS Sheffield  
Quadrant 2  
99 Parkway Avenue  
Parkway Business Park  
Sheffield  
S9 4WF

## Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form? \_\_\_\_\_

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you



### For Environment Agency use only

Date received (DD/MM/YYYY)  
\_\_\_\_\_

Our reference number  
\_\_\_\_\_

Payment received?

No

Yes  Amount received

£ \_\_\_\_\_

## Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

### Date of birth information in this appendix will not be put onto our Public Register

Are you applying as an individual, an organisation of individuals (for example, a partnership) or a company (this includes Limited Liability Partnerships)?

An individual  Now go to 2

An organisation of individuals (for example, a partnership)  Now go to 3

A registered company or other corporate body  Now go to 4

### 2 Applications from an individual

Please give us the following details

Name

Date of birth (DD/MM/YY)

### 3 Applications from an organisation of individuals or charity

Details of the organisation or charity

If you are an organisation of individuals, please give the date of birth details of the main representative below. If relevant, provide details of other members on a separate sheet and tell us the document reference you have given this sheet.

Name

Date of birth (DD/MM/YY)

Document reference

### 4 Applications from companies or corporate bodies

Name of the company

Please give the date of birth details for all directors and company secretary if there is one. If relevant, provide those details of other directors on a separate sheet and tell us the document reference you have given this sheet.

Details of company secretary (if relevant) and director/s

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Document reference



# Application for an environmental permit Part B2 – General – new bespoke permit



Fill in this part of the form together with parts A and F1 if you are applying for a new bespoke permit. You also need to fill in part B3, B4, B5, B6, or B7 (this depends on what activities you are applying for).

Please check that this is the latest version of the form available from our website.

You can apply online for: waste operations; medium combustion plant; and specified generator bespoke environmental permits at <https://apply-for-environmental-permit.service.gov.uk/start/start-or-open-saved>

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces

It will take less than two hours to fill in this part of the application form.

## Contents

- 1 About the permit
- 2 About the site (excludes mobile plant)
- 3 Your ability as an operator
- 4 Consultation
- 5 Supporting information
- 6 Environmental risk assessment
- 7 How to contact us

**Appendix 1 – Low impact installation checklist**

**Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only**

## 1 About the permit

### 1a Discussions before your application

If you have had discussions with us before your application, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet.

Permit or document reference

## 1 About the permit, continued

### 1b Is the permit for a site or for mobile plant?

Mobile plant      Now go to **question 1c**

Site                Now go to **section 2**

Note: The term ‘mobile plant’ does not include mobile sheep dipping units.

#### Mobile plant only

### 1c Have we told you during pre-application discussions that we believe that a mobile permit is suitable for your activity?

No

Yes

### 1d Have there been any changes to your proposal since this discussion?

No      Now go to **section 3**

Yes      You should send us a description of the activity you want to carry out, highlighting the changes you have made since our pre-application discussions

Document reference

\_\_\_\_\_

Now go to **section 3**

## 2 About the site (excludes mobile plant)

### 2a What is the site name, address, postcode and national grid reference?

Site name

\_\_\_\_\_

Address

Postcode

\_\_\_\_\_

National grid reference for the site (for example, ST 12345 67890)

\_\_\_\_\_

## 2 About the site (excludes mobile plant), continued

### 2b What type of regulated facility are you applying for?

Note: if you are applying for more than one regulated facility then go to **2c**.

Installation

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

What is the national grid reference for the regulated facility (if only one)?  
(See the guidance notes on part B2.)

As in 2a above

Different from that in 2a Please fill in the national grid reference below

National grid reference for the regulated facility

\_\_\_\_\_

Now go to **question 2d**

### 2c If you are applying for more than one regulated facility on your site, what are their types and their grid references?

See the guidance notes on part B2.

#### Regulated facility 1

National grid reference

\_\_\_\_\_

What is the regulated facility type?

Installation

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

## 2 About the site (excludes mobile plant), continued

### Regulated facility 2

National grid reference

\_\_\_\_\_

### What is the regulated facility type?

Installation

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

Use several copies of this page or separate sheets if you have a long list of regulated facilities. Send them to us with your application form. Tell us below the reference you have given these extra sheets.

Document reference

\_\_\_\_\_

Now go to **question 2d**

### 2d Low impact installations (installations only)

Are any of the regulated facilities low impact installations?

No

Yes If yes, tell us how you meet the conditions for a low impact installation (see the guidance notes on part B2 – Appendix 1).

Document reference

\_\_\_\_\_

Tick the box to confirm you have filled in the low impact installation checklist in **appendix 1** for each regulated facility

### 2e Treating batteries

Are you planning to treat batteries? (See the guidance notes on part B2.)

No

Yes Tell us how you will do this, send us a copy of your explanation and tell us below the reference you have given this explanation

Document reference for the explanation

\_\_\_\_\_

## 2 About the site (excludes mobile plant), continued

### 2f Ship recycling

Is your activity covered by the Ship Recycling Regulations 2015? (See the guidance notes on part B2.)

No

Yes Tell us how you will do this. Please send us a copy of your explanation and your facility recycling plan, and tell us below the reference numbers you have given these documents

Document reference for the explanation

Document reference for the facility recycling plan

### 2g Multi-operator installation

If the site is a multi-operator site (that is there is more than one operator of the installation) then fill in the table below the application reference for each of the other permits.

**Table 1 – Other permit application references**


## 3 Your ability as an operator

If you are only applying for a standalone water discharge or for a groundwater activity, you only have to fill in **question 3d**.

### 3a Relevant offences

Applies to all except standalone surface water discharges and groundwater discharges (see the guidance notes on part B2).

#### 3a1 Have you, or any other relevant person, been convicted of any relevant offence?

No Now go to **question 3b**

Yes Please give details below

### 3 Your ability as an operator, continued

#### Name of the relevant person

Title (Mr, Mrs, Miss and so on)

\_\_\_\_\_

First name

\_\_\_\_\_

Last name

\_\_\_\_\_

Position held at the time of the offence

\_\_\_\_\_

Name of the court where the case was dealt with

\_\_\_\_\_

Date of the conviction (DD/MM/YYYY)

\_\_\_\_\_

Offence and penalty set

\_\_\_\_\_

Date any appeal against the conviction will be heard (DD/MM/YYYY)

\_\_\_\_\_

If necessary, use a separate sheet to give us details of other relevant offences and tell us below the reference number you have given the extra sheet.

\_\_\_\_\_

Now go to **question 3b**

Please also complete the details in **Appendix 2**.

#### 3b Technical ability

**Relevant waste operations only (see the guidance notes on part B2).**

Please indicate which of the two schemes you are using to demonstrate you are technically competent to operate your facility and the evidence you have enclosed to demonstrate this.

##### ESA/EU skills

Please select one of the following:

I have enclosed a copy of the current Competence Management System certificate

or

We will have a certified Competence Management System within 12 months and have enclosed evidence of the contract with an accredited certification body

### 3 Your ability as an operator, continued

#### CIWM/WAMITAB scheme

Your answers below must relate to the person(s) providing technically competent management when the permitted activities start.

Please select **one** of the following:

- I have enclosed a copy of:
  - the relevant qualification certificate/s
- or
- evidence of deemed competence
- or
- Environment Agency assessment
- or
- evidence of nominated manager status under the transitional provisions for previously exempt activities

and, if deemed competent or Agency-assessed, or nominated manager, or if the original qualification is over two years old:

- I have enclosed a copy of the relevant current continuing competence certificate/s
- The technically competent manager will complete their qualification within four weeks of starting the permitted activities and I have enclosed evidence of their registration with WAMITAB or their EPOC booking as appropriate
- **For medium- and high-risk tier activities other than landfill**

The technically competent manager will complete the qualification within 12 months and I have enclosed evidence of their registration with WAMITAB and, where relevant, EPOC booking.

I understand they must complete either four specified units of the relevant qualification or an EPOC within four weeks of the permitted activities commencing

For each technically competent manager please give the following information. If necessary, use a separate sheet to give us these details and tell us below the document reference you have given the extra sheet.

Title (Mr, Mrs, Miss and so on)

\_\_\_\_\_

First name

\_\_\_\_\_

Last name

\_\_\_\_\_

Phone

\_\_\_\_\_

Mobile

\_\_\_\_\_

Email

\_\_\_\_\_

### 3 Your ability as an operator, continued

Please provide the environmental permit number/s and site address for all other waste activities that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

Permit number	Site address	Postcode

Document reference

\_\_\_\_\_

Now go to **question 3c**

Please also complete the details in **Appendix 2**.

#### 3c Finances

Installations, waste operations and mining waste operations only.

Please note that if you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

Do you, or any relevant person, or a company in which you (or they) (or any relevant person) were a relevant person, have current or past bankruptcy or insolvency proceedings against you?

No

Yes Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed

We may want to contact a credit reference agency for a report about your business's finances.



### 3 Your ability as an operator, continued

#### Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

Renewable bonds

Cash deposits with the Environment Agency

Other – provide comprehensive details

Document reference

\_\_\_\_\_

Provide a cost profile and expenditure plan of your estimated costs throughout the aftercare period of your site.

Document plan reference

\_\_\_\_\_

Now go to **question 3d**

#### 3d Management systems (all)

You must have an effective, written management system in place that identifies and reduces the risk of pollution. You may show this by using a certified scheme or your own system.

Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You need to be able to explain what happens at each site and which parts of the overall management system apply. For example at some sites you may need to show you are carrying out additional measures to prevent pollution because they are nearer to sensitive locations than others.

For waste and installation permits only: your management system must also explain your resilience to climate change.

You can find guidance on management systems on our website at <https://www.gov.uk/guidance/develop-a-management-system-environmental-permits>

**Tick this box to confirm that you have read the guidance and that your management system will meet our requirements**

What management system will you provide for your regulated facility?

ISO 14001

BS 8555 (Phases 1–5)

Green dragon

Own management system

EMAS Global

Other

Please make sure you send us a summary of your management system with your application.

Document reference/s

\_\_\_\_\_

## 4 Consultation

Fill in 4a to 4c for installations and waste operations and 4d for installations only.

Could the waste operation or installation involve releasing any substance into any of the following?

### 4a A sewer managed by a sewerage undertaker?

No

Yes Please name the sewerage undertaker

---

### 4b A harbour managed by a harbour authority?

No

Yes Please name the harbour authority

---

### 4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No

Yes Please name the fisheries committee

---

### 4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No

Yes

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 2015, or a safety report is needed under regulation 7 of those Regulations?

No

Yes

## 5 Supporting information

### 5a Provide a plan or plans for the site

But not any mobile plant

Clearly mark the site boundary or discharge point, or both. Also include site drainage plans, site layout plans, and plant design drawings/process flow diagrams (as required).

(See the guidance notes on part B2.)

Document reference/s of the plans

---

## 5 Supporting information, continued

### 5b Provide the relevant sections of a site condition/baseline report if this applies

See the guidance notes on part B2 for what needs to be marked on the plan.

Document reference of the report

\_\_\_\_\_

If you are applying for an installation, tick the box to confirm that you have sent in a baseline report

### 5c Provide a non-technical summary of your application

See the guidance notes on part B2.

Document reference of the summary

\_\_\_\_\_

### 5d Are you applying for an activity that includes the storage of combustible wastes?

This applies to all activities excluding standalone water and groundwater discharges.

No

Yes Provide a fire prevention plan (see the guidance notes on part B2). You need to highlight any changes you have made since your pre-application discussions.

Document reference of the plan

\_\_\_\_\_

## 6 Environmental risk assessment

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must follow the methodology set out in 'Risk assessments for your environmental permit' at <https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit> or an equivalent method.

Document reference for the assessments

\_\_\_\_\_

## 7 How to contact us

If you have difficulty using this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

Website: [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency)

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

**Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.**

## 7 How to contact us, continued

### Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you



### For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No

Yes

Amount received (£)

Plain English Campaign's Crystal Mark does not apply to Appendix 1.

## Appendix 1 – Low impact installation checklist

See the guidance notes on part B2.

Installation reference		
Condition	Response	Do you meet this?
<b>A – Management techniques</b>	Provide references to show how your application meets A	Yes
	References	No
<b>B – Aqueous waste</b>	Effluent created	Yes
	m <sup>3</sup> /day	No
<b>C – Abatement systems</b>	Provide references to show how your application meets C	Yes
	References	No
<b>D – Groundwater</b>	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?	Yes
	Yes	No
	No	
<b>E – Producing waste</b>	Hazardous waste	Yes
	Tonnes per year	No
<b>F – Using energy</b>	Non-hazardous waste	Yes
	Tonnes per year	No
<b>G – Preventing accidents</b>	Peak energy consumption	Yes
	MW	No
<b>G – Preventing accidents</b>	Do you have appropriate measures to prevent spills and major releases of liquids?	Yes
	Yes	No
	No	
<b>H – Noise</b>	Provide references to show how your application meets H	Yes
	References	No
<b>I – Emissions of polluting substances</b>	Provide references to show how your application meets I	Yes
	References	No
<b>J – Odours</b>	Provide references to show how your application meets J	Yes
	References	No
<b>K – History of keeping to the regulations</b>	Say here whether you have been involved in any enforcement action (as described in 'Appendix 1 – Compliance history' section of part B2 guidance notes)	Yes
		No

## **Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only**

Date of birth information in this appendix will not be put onto our Public Register.

Have you filled in the Relevant Offences question?

Yes

No

Have you filled in the Technical ability question?

Yes

No

### **Relevant Offences – date of birth information**

Please give us the following details

Name

\_\_\_\_\_

Date of birth (DD/MM/YYYY)

\_\_\_\_\_

### **Technical ability – date of birth information**

Name

\_\_\_\_\_

Date of birth (DD/MM/YYYY)

\_\_\_\_\_

# Application for an environmental permit

## Part B3 – New bespoke installation permit



If you are applying for a new bespoke permit for an installation, fill in this part of the form, together with parts A, B2 and F1.

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that go with it.

If you are applying for a permit for an intensive farm do not use this form, but complete application form part B3.5 instead.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

### Contents

- [1 What activities are you applying for?](#)
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- [Appendix 2 – Specific questions for the chemical sector](#)
- [Appendix 3 – Specific questions for the waste incineration sector](#)
- [Appendix 4 – Specific questions for the landfill sector and recovery of hazardous waste on land activities](#)

## 1 What activities are you applying for?

Fill in Table 1a below with details of all the activities listed in schedule 1 or other references (see note 1) of the Environmental Permitting Regulations (EPR) and all directly associated activities (DAAs) (in separate rows), that you propose to carry out at the installation.

Fill in a separate table for each installation you are applying for. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the document.

Document reference

---

**1 What activities are you applying for?, continued****Table 1a – Types of activities**

Schedule 1 listed activities						
Installation name	Schedule 1 or other references (See note 1)	Description of the activity (See note 2)	Activity capacity (See note 3)	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 3)	Non-hazardous waste treatment capacity (if this applies) (See note 3)
If there are not enough rows, send a separate document and give the document reference number here	Put your main activity first			For installations that take waste only	For installations that take waste only	For installations that take waste only
Directly associated activities (See note 4) Also note: if the DAA is a Medium Combustion Plant or Specified Generator (MCP/SG) please also fill in part B2.5, (see <a href="https://www.gov.uk/government/publications/application-for-an-environmental-permit-part-b25-new-bespoke-medium-combustion-plant-and-specified-generator-permit">https://www.gov.uk/government/publications/application-for-an-environmental-permit-part-b25-new-bespoke-medium-combustion-plant-and-specified-generator-permit</a> )						
Name of DAA If there are not enough rows, send a separate document and give the document reference number here		Description of the DAA (please identify the schedule 1 activity it serves)				
For installations that take waste (See note 5 below)		Total storage capacity				
		Annual throughput (tonnes each year)				



## 1 What activities are you applying for?, continued

### Notes

1. Quote the section number, part A1 or A2 or B, then paragraph and sub-paragraph number as shown in EPR part 2 of schedule 1, schedule 13 and 14 for Local Authority regulated activities, or schedule 25/25B for Medium Combustion Plant or Specified Generators.
2. Use the description from the relevant schedule of the regulations. Include any extra detail that you think would help to accurately describe what you want to do.
3. By ‘capacity’, we mean:
  - the total incineration capacity (tonnes every hour) for waste incinerators
  - the total landfill capacity (cubic metres) for landfills
  - the total capacity (cubic metres) for the recovery of hazardous waste on land
  - the total treatment capacity (tonnes each day) for waste treatment operations
  - the total storage capacity (tonnes) for waste storage operations
  - the processing and production capacity for manufacturing operations, or
  - the thermal input capacity for combustion activities

Fill each listed activity as a separate line and give an accurate description of any other activities associated with your schedule 1 activities. You cannot have Directly Associated Activities (DAAs) as part of a mobile plant application. If the DAA is a Medium Combustion Plant or Specified Generator (MCP/SG) please fill in the table in appendix 1 question 13.

By ‘total storage capacity’, we mean the maximum amount of waste, in tonnes, you store on the site at any one time.

### Types of waste accepted

For those installations that take waste, for each line in Table 1a (including DAAs), fill in a separate document to list those wastes you will accept on to the site for that activity. Give the List of Wastes catalogue code and description (see <https://www.gov.uk/government/publications/waste-classification-technical-guidance>).

If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

Please provide the reference for each document.

You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference of this extra information

**1 What activities are you applying for?, continued****Table 1b – Template example – types of waste accepted and restrictions**

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

**1c Recovery of hazardous waste on land**

Are you applying for a waste recovery activity involving the permanent deposit of inorganic hazardous waste on land for construction or land reclamation?

No            Now go to question 2

Yes

**Have you written a waste recovery plan (WRP) that shows that you will use waste to perform the same function as non waste materials you would have used?**

No            You must write a WRP to support your application.

Yes

**Have we advised you during pre-application discussions that we believe the activity is waste recovery?**

No

Yes

**Have there been any changes to your proposal since the discussions?**

No

Yes

Please send us a copy of your current waste recovery plan that complies with our guidance at <https://www.gov.uk/government/publications/deposit-for-recovery-operators-environmental-permits/waste-recovery-plans-and-deposit-for-recovery-permits>. You need to highlight any changes you may have made since your pre-application discussions.

Document reference

Please note that there is an additional charge for the assessment or re assessment of a waste recovery plan that must be submitted as part of this application. For the charge see <https://www.gov.uk/government/publications/environmental-permitting-charges-guidance/environmental-permitting-charges-guidance>

## 2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your installations.

Fill in one table for each installation, continuing on a separate sheet if necessary.

**Table 2 – Emissions (releases)**

Installation name				
<b>Point source emissions to air</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
<b>Point source emissions to water (other than sewers)</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
<b>Point source emissions to sewers, effluent treatment plants or other transfers off site</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
<b>Point source emissions to land</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit

You will also need to complete application form part B6 if your installation includes a point source emission(s) to:

- water
- groundwater or
- sewer

## Supporting information

### 3 Operating techniques

#### 3a Technical standards

Fill in Table 3a for each activity at the installation you refer to in Table 1a above and list the ‘Best Available Techniques’ you are planning to use. If you use the standards set out in the relevant BAT conclusion(s), BAT reference document(s) (BREF) and/or technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

For Part A(2) activities refer to <https://www.gov.uk/government/collections/integrated-pollution-prevention-and-control-sector-guidance-notes> and for Part B and Schedule 14 activities see <https://www.gov.uk/government/collections/local-air-pollution-prevention-and-control-lappc-process-guidance-notes>

You must justify your decisions in a separate document if:

- there is no technical standard
- the technical guidance provides a choice of standards, or
- you plan to use another standard

This justification could include a reference to the Environmental Risk Assessment provided in part B2 (General bespoke permit) of the application form.

For each of the activities listed in Table 1a, the documents in Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant BAT conclusions, BREF or technical guidance
- how you will meet other standards set out in the relevant BAT conclusions document, BREF or technical guidance

**Table 3 – Technical standards**

Fill in a separate table for each activity at the installation.

Installation name		
Description of the schedule 1 activity or directly associated activity	Best available technique (BATC, BREF or TGN reference) (see footnote below)	Document reference (if appropriate)

\* Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference

**3b General requirements**

Fill in a separate Table 4 for each installation.

Table 4 – General requirements

Name of the installation	
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references
Where the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan	Document reference or references
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references

For guidance on risk assessments for your environmental permit see <https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit>

### 3c Types and amounts of raw materials

Fill in Table 5 for all schedule 1 activities. Fill in a separate table for each installation.

Table 5 – Types and amounts of raw materials

Name of the installation				
Capacity (See note 1 below)				
Schedule 1 activity	Description of raw material and composition	Maximum amount (tonnes) (See note 2 below)	Annual throughput (tonnes each year)	Description of the use of the raw material including any main hazards (include safety data sheets)

#### Notes

- By 'capacity', we mean the total storage capacity (tonnes) or total treatment capacity (tonnes each day).
- By 'maximum amount', we mean the maximum amount of raw materials on the site at any one time.

Use a separate sheet if you have a long list of raw materials, and send it to us with your application form. Please also provide the reference of this extra sheet.

Document reference

### 3d Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed below, you must answer the questions in the related document.

Table 6 – Questions for specific sectors

Sector	Appendix
Combustion	<a href="#">See the questions in appendix 1</a>
Chemicals	<a href="#">See the questions in appendix 2</a>
Incinerating waste	<a href="#">See the questions in appendix 3</a>
Landfill and recovery of hazardous waste on land	<a href="#">See the questions in appendix 4</a>

## General information

### 4 Monitoring

#### 4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures
- the methods you use
- the procedures you follow to assess the measures

Document reference \_\_\_\_\_

#### 4b Point source emissions to air only

4b1 Has the sampling location been designed to meet BS EN 15259 clause 6.2 and 6.3?

No

Yes

4b2 Are the sample ports large enough for monitoring equipment and positioned in accordance with section 6 and appendix A of BS EN 15259?

No

Yes

4b3 Is access adjacent to the ports large enough to provide sufficient working area, support and clearance for a sample team to work safely with their equipment throughout the duration of the test?

No

Yes

4b4 Are the sample location(s) at least 5 HD from the stack exit

No

Yes

4b5 Are the sample location(s) at least 2 HD upstream from any bend or obstruction?

No

Yes

4b6 Are the sample location(s) at least 5 HD downstream from any bend or obstruction?

No

Yes

4b7 Does the sample plane have a constant cross sectional area?

No

Yes

4b8 If horizontal, is the duct square or rectangular (unless it is less than or equal to 0.35 m in diameter)

No

Yes

4b9 If you have answered 'No' to any of the questions 4b1 to 4b8 above, provide an assessment to how the standards in BS EN 15259 will be met.

Document reference of the assessment \_\_\_\_\_

## 5 Environmental impact assessment

### 5a Have your proposals been the subject of an environmental impact assessment under Council Directive 85/337/EEC of 27 June 1985 [Environmental Impact Assessment] (EIA)?

No Now go to question 6

Yes Please provide a copy of the environmental statement and, if the procedure has been completed:

- a copy of the planning permission
- the committee report and decision on the EIA

Document reference of the copy

## 6 Resource efficiency and climate change

If the site is a landfill or a recovery of hazardous waste on land activity, you only need to fill in this section if the application includes gas engines.

### 6a Describe the basic measures for improving how energy efficient your activities are

Document reference of the description

### 6b Provide a breakdown of any changes to the energy your activities use up and create

Document reference of the description

### 6c Have you entered into, or will you enter into, a climate change levy agreement?

No Describe the specific measures you use for improving your energy efficiency

Document reference of the description

Yes Please give the date you entered  
(or the date you expect to enter)  
into the agreement (DD/MM/YYYY)

Please also provide documents that prove you are taking part in the agreement.

Document reference of the proof

### 6d Explain and justify the raw and other materials, other substances and water that you will use

Document reference of the justification

### 6e Describe how you avoid producing waste in line with Council Directive 2008/98/EC on waste

If you produce waste, describe how you recover it. If it is technically and financially impossible to recover the waste, describe how you dispose of it while avoiding or reducing any effect it has on the environment.

Document reference of the description



## **7 Installations that include a combustion plant (excluding waste incinerators)**

### **7a List all your combustion plant at the site and provide thermal input and operating hours for each**

Document reference \_\_\_\_\_

### **7b Do any of your combustion plants have a net rated thermal input of 1 or more MW and is not an excluded MCP?**

No Go to 7c

Yes Please fill in the table in appendix 1 question 13

### **7c Is the aggregated net thermal input of your combustion plant more than 20 MW?**

No

Yes Please go to appendix 1 question 11

## 8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

Website: <https://www.gov.uk/government/organisations/environment-agency>

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

**Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.**

### Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form? \_\_\_\_\_

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you



### For Environment Agency use only

Date received (DD/MM/YYYY)

\_\_\_\_\_

Payment received?

No

Our reference number

\_\_\_\_\_

Yes

Amount received

£ \_\_\_\_\_

**Plain English Campaign's Crystal Mark does not apply to appendices 1 to 4.**

## Appendix 1 – Specific questions for the combustion sector

### 1 Identify the type of fuel burned in your combustion units (including when your units are started up, shut down and run as normal). If your units are dual fuelled (that is, use two types of fuel), list both the fuels you use

Fill in a separate table for each installation.

Installation reference			
Type of fuel	When run as normal	When started up	When shut down
Coal			
Gas oil			
Heavy fuel oil			
Natural gas			
WID waste			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Landfill gas			
Other			

### Notes

1. Not covered by Industrial Emissions Directive 2010/75/EU.
2. 'Biomass' is referred to The Renewables Obligation Order 2002 (<https://www.legislation.gov.uk/uksi/2002/914/contents/made>)

Give extra information if it helps to explain the fuel you use.

Document reference

## Appendix 1 – Specific questions for the combustion sector, continued

### 2 Give the composition range of any fuels you are currently allowed to burn in your combustion plant

Fill in a separate table for each installation, continuing on a separate sheet if necessary

Fuel use and analysis					
Installation reference					
Parameter	Unit	Fuel 1	Fuel 2	Fuel 3	Fuel 4
Maximum percentage of gross thermal input	%				
Moisture	%				
Ash	% wt/wt dry				
Sulphur	% wt/wt dry				
Chlorine	% wt/wt dry				
Arsenic	% wt/wt dry				
Cadmium	% wt/wt dry				
Carbon	% wt/wt dry				
Chromium	% wt/wt dry				
Copper	% wt/wt dry				
Hydrogen	% wt/wt dry				
Lead	% wt/wt dry				
Mercury	% wt/wt dry				
Nickel	% wt/wt dry				
Nitrogen	% wt/wt dry				
Oxygen	% wt/wt dry				
Vanadium	mg/kg dry				
Zinc	mg/kg dry				
Net calorific value	MJ/kg				

## Appendix 1 – Specific questions for the combustion sector, continued

### 3 If NO<sub>x</sub> factors are necessary for reporting purposes (that is, if you do not need to monitor emissions), please provide the factors associated with burning the relevant fuels

Fill in a separate table for each installation.

Installation reference	
Fuel	NO <sub>x</sub> factor (kg <sup>t</sup> <sup>-1</sup> )
Fuel 1	
Fuel 2	
Fuel 3	
Fuel 4	

Note: kg<sup>t</sup><sup>-1</sup> means kilograms of nitrogen oxides released for each tonne of fuel burned.

### 4 Will your combustion plant be subject to Chapter III of the Industrial Emissions Directive 2010/75/EU?

No            Now fill in application form part F

Yes

### 5 What is your plant?

an existing one

A plant licensed before 1 July 1987

a new one

A plant licensed on or after 1 July 1987 but before 27 November 2002, or a plant for which an application was made before 27 November 2002 and which was put into operation before 27 November 2003

a new-new one

A plant for which an application was made on or after 27 November 2002

### 6 If you run more than one type of plant or a number of the same type of plant on your installation, please list them in the table below

Fill in a separate table for each installation.

Installation reference	
Type of plant	Number within installation
Existing	
New	
New-new	
Gas turbine (group A)	
Gas turbine (group B)	

**Appendix 1 – Specific questions for the combustion sector, continued**

**7 If you run an existing plant, have you submitted a declaration for the ‘limited life derogation’ set out in Article 33 of Chapter III of the Industrial Emissions Directive?**

No Now go to question 9

Yes

**8 Have you subsequently withdrawn your declaration?**

No

Yes

**9 List the existing large combustion plants (LCPs) which have annual mass allowances under the National Emission Reduction Plan (NERP), and those with emission limit values (ELVs) under the LCPD**

Installation reference	
LCPs under NERP	LCPs with ELVs

**10 Do you meet the monitoring requirements of Chapter III of the Industrial Emissions Directive?**

No

Yes Document reference \_\_\_\_\_

**11 Have you carried out a cost–benefit assessment (CBA) of opportunities for cogeneration (combined heat and power) or district heating under Article 14 of the Energy Efficiency Directive?**

No Please provide supporting evidence of why a CBA is not required (for example, an agreement from us)

Document reference of this evidence \_\_\_\_\_

Yes Please submit a copy of your CBA

Document reference of the CBA \_\_\_\_\_

**Appendix 1 – Specific questions for the combustion sector, continued****12 Does your installation need to be combined heat and power-ready (CHP-ready)?**

No Please provide supporting evidence of why a CHP-ready assessment is not required (for example, an agreement from us)

Document reference of this evidence

Yes Please provide a copy of your CHP-ready assessment

Document reference of the CHP-ready assessment

**13 Information to be provided by the operator to the competent authority for each Medium Combustion Plant as identified in Annex I of Medium Combustion Plant Directive (EU/2015/2193)**

MCP specific identifier*	
12-digit grid reference or latitude/longitude	
Rated thermal input (MW) of the MCP	
Type of MCP (diesel engine, gas turbine, other engine or other MCP)	
Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas, landfill gas	
Date when the new MCP was first put into operation	
Sector of activity of the MCP or the facility in which it is applied (NACE code)	
Expected number of annual operating hours of the MCP and average load in use	

Where the option of exemption under Article 6(8) is used the operator (as identified on Form A) should sign a declaration here that the MCP will not be operated more than the number of hours referred to in this paragraph	
--	--

\* identifier – the MCP must be traceable via a serial number or other unique identifier, name plate, manufacturer and or model

NACE code means Nomenclature of Economic Activities and is the European statistical classification of economic activities (<http://www.export.gov.il/files/EEN/ListNACEcodes.pdf>).

To find out the 12-digit grid reference you can search on the UK Grid Reference Finder website at <https://gridreferencefinder.com/>

## Appendix 2 – Specific questions for the chemical sector

### 1 Please provide a technical description of your activities

- The description should be enough to allow us to understand:
- the process
- the main plant and equipment used for each process
- all reactions, including significant side reactions (that is, the chemistry of the process)
- the material mass flows (including by products and side streams) and the temperatures and pressures in major vessels
- the all emission control systems (both hardware and management systems), for situations which could involve releasing a significant amount of emissions – particularly the main reactions and how they are controlled
- a comparison of the indicative BATs and benchmark emission levels standards: technical guidance notes (TGNs) (see <https://www.gov.uk/government/collections/technical-guidance-for-regulated-industry-sectors-environmental-permitting>); additional guidance ‘The production of large volume organic chemicals’ (EPR 4.01); ‘Speciality organic chemicals sector’ (EPR 4.02); ‘Inorganic chemicals sector’ (EPR 4.03); and best available techniques reference documents (BREFs) for the chemical sector

Document reference

### 2 If you are applying for a multi-purpose plant, do you have a multi-product protocol in place to control the changes?

No

Yes Provide a copy of your protocol to accompany this application

Document reference

### 3 Does Chapter V of the Industrial Emissions Directive (IED) apply to your activities?

No

Yes Fill in the following

#### 3a List the activities which are controlled under the IED

Installation reference	
Activities	

#### 3b Describe how the list of activities in question 3a above meets the requirements of the IED

Document reference



## Appendix 3 – Specific questions for the waste incineration sector

If you are proposing to accept clinical waste, please complete your answer to question 3a ‘Technical standards’ with reference to relevant parts of our healthcare waste appropriate measures guidance (see <https://www.gov.uk/guidance/healthcare-waste-appropriate-measures-for-permitted-facilities>)

### 1a Do you run incineration plants as defined by Chapter IV of the Industrial Emissions Directive (IED)?

- No            You do not need to answer any other questions in this appendix  
 Yes            IED applies

### 1b Are you subject to IED as

- An incinerator?  
 A co-incinerator?

### 2 Do any of the installations contain more than one incineration line?

- No            Now go to question 4  
 Yes

### 3 How many incineration lines are there within each installation?

Fill in a separate table for each installation.

Installation reference		
Number of incineration lines within the installation		
Reference identifiers for each line		

You must provide the information we ask for in questions 4, 5 and 6 below in separate documents. The information must at least include all the details set out in section 2 (‘Key Issues’) of S5.01 ‘Incineration of waste: additional guidance’ (under the sub heading ‘European legislation and your application for an EP Permit’). See <https://www.gov.uk/government/collections/technical-guidance-for-regulated-industry-sectors-environmental-permitting>.

You must answer questions 7 to 13 on the form below.

### 4 Describe how the plant is designed, equipped and will be run to make sure it meets the requirements of IED, taking into account the categories of waste which will be incinerated

Document reference

### 5 Describe how the heat created during the incineration and co-incineration process is recovered as far as possible (for example, through combined heat and power, creating process steam or district heating)

Document reference

### Appendix 3 – Specific questions for the waste incineration sector, continued

#### 6 Describe how you will limit the amount and harmful effects of residues and describe how they will be recycled where this is appropriate

Document reference \_\_\_\_\_

For each line identified in question 3, answer questions 7 to 13 below

Question 3 identifier, if necessary \_\_\_\_\_

#### 7 Do you want to take advantage of the Article 45 (1)(f) allowance (see below) if the particulates, CO or TOC continuous emission monitors (CEM) fail?

No

Yes This allows ‘abnormal operation’ of the incineration plant under certain circumstances when the CEM for releases to air have failed. Annex VI, Part 3(2) sets maximum half hourly average release levels for particulates (150 mg/m<sup>3</sup>), CO (normal ELV) and TOC (normal ELV) during abnormal operation.

Describe the other system you use to show you keep to the requirements of Article 13(4) (for example, using another CEM, providing a portable CEM to insert if the main CEM fails, and so on).

#### 8 Do you want to replace continuous HF emission monitoring with periodic hydrogen fluoride (HF) emission monitoring by relying on continuous hydrogen chloride (HCl) monitoring as allowed by IED Annex VI, Part 6 (2.3)?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you control hydrogen chloride and keep it to a level below the HCl ELVs.

No

Yes Please give your reasons for doing this

### **Appendix 3 – Specific questions for the waste incineration sector, continued**

#### **9 Do you want to replace continuous water vapour monitoring with pre-analysis drying of exhaust gas samples, as allowed by IED Annex VI, Part 6 (2.4)?**

Under this you do not have to continuously monitor the amount of water vapour in the air released if the sampled exhaust gas is dried before the emissions are analysed.

No

Yes            Please give your reasons for doing this

#### **10 Do you want to replace continuous hydrogen chloride (HCl) emission monitoring with periodic HCl emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?**

Under this you do not have to continuously monitor emissions for hydrogen chloride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No

Yes            Please give your reasons for doing this

### **Appendix 3 – Specific questions for the waste incineration sector, continued**

#### **11 Do you want to replace continuous HF emission monitoring with periodic HF emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?**

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No

Yes          Please give your reasons for doing this

#### **12 Do you want to replace continuous SO<sub>2</sub> emission monitoring with periodic sulphur dioxide (SO<sub>2</sub>) emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?**

Under this you do not have to continuously monitor emissions for sulphur dioxide if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No

Yes          Please give your reasons for doing this

### Appendix 3 – Specific questions for the waste incineration sector, continued

**13 If your plant uses fluidised bed technology, do you want to apply for a derogation of the CO WID ELV to a maximum of 100 mg/m<sup>3</sup> as an hourly average, as allowed by IED Annex VI, Part 3?**

No

Does not apply

Yes Please give your reasons for doing this

**14 Have you carried out a cost–benefit assessment (CBA) of opportunities for cogeneration (combined heat and power) or district heating under Article 14 of the Energy Efficiency Directive?**

No Please provide supporting evidence of why a CBA is not required (for example, an agreement from us)

Document reference of this evidence \_\_\_\_\_

Yes Please submit a copy of your CBA

Document reference of the CBA \_\_\_\_\_

**15 Does your installation need to be combined heat and power-ready (CHP-ready)?**

No Please provide supporting evidence of why a CHP-ready assessment is not required (for example, an agreement from us)

Document reference of this evidence \_\_\_\_\_

Yes Please provide a copy of your CHP-ready assessment

Document reference of the CHP-ready assessment \_\_\_\_\_

## Appendix 4 – Specific questions for the landfill sector and recovery of hazardous waste on land activities

**1. For the landfill sector, provide your Environmental Setting and Installation Design (ESID) report and any other risk assessments to control emissions.**

**For recovery of hazardous waste on land activities, provide your Environmental Setting and Site Design (ESSD) report and any other risk assessments to control emissions**

Document reference

**2. For recovery of hazardous waste on land activities, provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)**

Document reference

Refer to our guidance at

<https://www.gov.uk/government/publications/deposit-for-recovery-operators-environmental-permits/waste-acceptance-procedures-for-deposit-for-recovery>

**3. Provide your hydrogeological risk assessment (HRA) for the site**

Document reference

**4. Provide your outline engineering plan for the site**

Document reference

**5. Provide your stability risk assessment (SRA) for the site**

Document reference

**6. Provide your landfill gas risk assessment (LFGRA) for the site**

Document reference

We have developed guidance on these assessments and their reports which can be found at

<https://www.gov.uk/government/collections/environmental-permitting-landfill-sector-technical-guidance>

**7. For recovery of hazardous waste on land activities, have you completed a monitoring plan for the site?**

No  Please refer to the section of your ESSD that explains why this is unnecessary for your site

Document reference of this evidence

Yes  Document reference



# Application for an environmental permit

## Part F1 – Charges and declarations



Fill in this part for all applications for installations, waste operations, mining waste operations, water discharges, point source groundwater discharges and groundwater discharges onto land. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than two hours to fill in this part of the application form.

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Each individual who is applying for their name to appear on the permit must complete the declaration in section 5. You will have to print a separate copy of the declaration page for each additional individual to complete.

## 1 Working out charges

You must fill in this section.

You have to submit an application fee with your application. You can find out the charge by searching for 'Environment Agency charging scheme and guidance: environmental permits' at [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency).

Please remember that the charges are revised on 1 April each year and that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

**Table 1 – Type of application (fill number of activity being applied for in each column)**

Installation	Waste	Mining waste	Medium Combustion Plant (MCP)/Specified Generator (SG)	Water discharge/point source discharge to groundwater	Groundwater spreading onto land

**Table 2 – Charge type (A)**

Charge activity reference	Charge activity description	What are you applying to do? E.g. new, minor variation, normal variation, substantial variation, surrender, low risk surrender, transfer	Amount
e.g. 1.17.3	e.g. Sect 5.2 landfill for hazardous waste	e.g. transfer	e.g. £5,561
Total A			



**1 Working out charges (you must fill in this section), continued****Table 3 – Additional assessment charges (B)**

Part 1.19 Charges for plans and assessments			Tick appropriate
Reference	Plan or assessment	Charge	
1.19.1	Waste recovery plan	£1,231	<input type="checkbox"/>
1.19.2	Habitats assessment (except where the application activity is a flood risk activity)	£779	<input type="checkbox"/>
1.19.3	Fire prevention plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.4	Pests management plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.5	Emissions management plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.6	Odour management plan (except where the application activity is a farming installation)	£1,246	<input type="checkbox"/>
1.19.7	Noise and vibration management plan (except where the application activity is a farming installation)	£1,246	<input type="checkbox"/>
1.19.8	Ammonia emissions risk assessment (intensive farming applications only)	£620	<input type="checkbox"/>
1.19.9	Dust and bio-aerosol management plan (intensive farming applications only)	£620	<input type="checkbox"/>
	Advertising	£500	<input type="checkbox"/>
Total B			

Total charges

Total A plus total B

**2 Payment**

Tick below to show how you have paid.

Cheque

Postal order

Cash

 Tick below to confirm you are enclosing cash with the application

Credit or debit card

Electronic transfer (for example, BACS)

Remittance number

Date paid (DD/MM/YYYY)

**How to pay****Paying by cheque, postal order or cash**

Cheque details

Cheque made payable to

Cheque number

Amount

£ 

You should make cheques or postal orders payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque or postal order. **We will not** accept cheques with a future date on them.

We do not recommend sending cash through the post. If you cannot avoid this, please use a recorded delivery postal service and enclose your application reference details. Please tick the box below to confirm you are enclosing cash.

I have enclosed cash with my application

## 2 Payment, continued

### Paying by credit or debit card

If you are paying by credit or debit card we can call you. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro card only.

Please call me to arrange payment by debit or debit card

### Paying by electronic transfer BACS reference

If you choose to pay by electronic transfer you will need to use the following information to make your payment.

Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/NatWest
Address	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB
Sort code	60-70-80
Account number	10014411
Account name	EA RECEIPTS
Payment reference number	PSCAPPXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23NWK60708010014411 and our SWIFTBIC number is NWBKGB2L.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Provide a unique reference number for the application, i.e. do not only use the company name only

State who is paying (full name and whether this is the agent/ applicant/other)

Fee paid £

Date payment sent (DD/MM/YYYY)

Now read section 3 below

You should also email your payment details and reference number to [ea\\_fsc\\_ar@gov.sscl.com](mailto:ea_fsc_ar@gov.sscl.com).

## 3 Privacy notice

The Environment Agency runs the environmental permit application service.

We are the data controller for this service. A data controller determines how and why personal information is processed.

Our personal information charter explains:

- your rights
- what we do with your personal information

We're allowed to process your personal information because we have official authority as the environmental regulator. We need this information to carry out a task in the public interest that is set out in law. As the data controller, when you apply for an environmental permit, we have a legal obligation to process your personal data under the Environmental Permitting Regulations. The second lawful basis for processing your personal data is to comply with this legal obligation.

We need your personal information to process your environmental permit application. If you do not give us this information we cannot issue a permit to you. After we've issued a permit to you, we use your personal information:

- to check that you're complying with your permit
- during any potential enforcement action

### What personal information we collect

If you're the individual applicant, director or company secretary of a company applying or a technically competent manager we need your:

- name
- date of birth

### 3 Privacy notice, continued

- address
- email address

If you're the agent, consultant, employee responsible for the activity or the employee responsible for billing and invoicing we need your:

- name
- address
- email address

If you're the applicant we need details of any:

- convictions
- bankruptcy

We also collect any questions or feedback you leave, including your email address if you contact us.

#### Your responsibility with other people's personal information

If you've included personal information about other people on your application, you must tell them. You must provide them with a copy of this privacy notice so that they know how their personal information will be used.

#### What we do with your personal information

We use your personal information to help us decide whether to issue you with a permit.

The information (except dates of birth) is available online on our consultation website during the consultation period. This website is available to everyone so your information may be seen outside the European Economic Area.

After consultation we put all the information (except dates of birth) you give us in your application on our public register.

If you can demonstrate that any information you send us is commercially or industrially confidential, we'll consider withholding that information from our public register.

If you think that the information you'll send us may be a threat to national security you must contact the Secretary Of State before you apply. You must still send us that information with your application. We will not include this information on our public register unless the Secretary of State decides it can be included.

See the environmental permitting guidance for guidance on national security.

We may use your email address to contact you for user research to improve our service. You don't have to take part in the research.

#### Where your personal information is processed and stored

We store and process your personal information on servers in the UK. We will not host your personal information outside the European Economic Area.

We do not use your personal information to make an automated decision or for automated profiling.

#### How long we keep your personal information

We keep your personal information while your permit is in use and for 7 years after you surrender your permit. If the permit is for a landfill site, we keep the data for 10 years after surrender.

#### Removing personal information from the public register

We will remove your personal information from the public register if:

- you withdraw your application
- we refuse your application and the time limit for appealing the decision has expired or an appeal is dismissed
- the information is no longer relevant for public participation purposes under the Environmental Permitting Regulations

#### Contact

Our Data Protection Team gives independent advice. They monitor how the Environment Agency uses your personal information.

If you have questions or concerns about how we process personal information, or to make a complaint or request relating to data protection, please contact:

Address: Data Protection Team  
Environment Agency  
Horizon House  
Deanery Road  
Bristol  
BS1 5AH

### 3 Privacy notice, continued

Email: [dataprotection@environment-agency.gov.uk](mailto:dataprotection@environment-agency.gov.uk)

You can also make a complaint to the Information Commissioner's Office (ICO).

The ICO is the supervisory authority for data protection legislation. The ICO website has a full list of your rights under data protection legislation.

Now read section 4 below

### 4 Confidentiality and national security

#### Confidentiality

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application. You can find guidance on confidentiality in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency).

**Only tick the box below if you wish to claim confidentiality for your application**

Please treat the information in my application as confidential

#### National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency).

You cannot apply for national security via this application.

Now fill in section 5

### 5 Declaration

**If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.**

**A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.**

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

**If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading 'For transfers only'.**

**Note: we will issue a letter to both current and new holders to confirm the transfer. If you are changing address we will need to send this letter to your new address; therefore please tell us your new address in a separate letter.**

**If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.**

**I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.**

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities)

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

## 5 Declaration, continued

Name

Title (Mr, Mrs, Miss and so on) \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

on behalf of  
(if relevant; for example, a company or organisation and so on) \_\_\_\_\_

Position  
(if relevant; for example, in a company or organisation and so on) \_\_\_\_\_

Today's date (DD/MM/YYYY) \_\_\_\_\_

### For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

**Note:** If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

Name

Title (Mr, Mrs, Miss and so on) \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

on behalf of  
(if relevant; for example, a company or organisation and so on) \_\_\_\_\_

Position  
(if relevant; for example, in a company or organisation and so on) \_\_\_\_\_

Today's date (DD/MM/YYYY) \_\_\_\_\_

Now go to section 6

## 6 Application checklist

### You must fill in this section.

If your application is not complete we will return it to you. If you aren't sure about what you need to send, speak to us before you submit your application.

You must do the following:

- Complete legibly all parts of this form that are relevant to you and your activities
- Identify relevant supporting information in the form and send it with the application
- List all the documents you are sending in the table below. If necessary, continue on a separate sheet. This separate sheet also needs to have a reference number and you should include it in the table below
- For new permits or any changes to the site plan, provide a plan that meets the standards given in the guidance note on part F1
- Provide a supporting letter for any claim that information is confidential
- Get the declaration completed by a relevant person (not an agent)
- Send the correct fee

**6 Application checklist, continued**

Question reference	Document title	Document reference

**7 How to contact us**

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

Website: [www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency)

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, or you would like us to review a decision we have made, please let us know. More information on how to do this is available at: <https://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure>.

**Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.**

**8 Where to send your application**

For how many copies to send see the guidance note on part F1.

Please send your filled in application form to:

For water discharges by email to [PSC-WaterQuality@environment-agency.gov.uk](mailto:PSC-WaterQuality@environment-agency.gov.uk)

For waste and installations by email to [PSC@environment-agency.gov.uk](mailto:PSC@environment-agency.gov.uk)

Or

Permitting Support, NPS Sheffield  
 Quadrant 2  
 99 Parkway Avenue  
 Parkway Business Park  
 Sheffield  
 S9 4WF

**Do you want all information to be sent to you by email?**

Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in part A)

## Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form? \_\_\_\_\_

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you



### For Environment Agency use only

Date received (DD/MM/YYYY)  
\_\_\_\_\_

Our reference number  
\_\_\_\_\_

Payment received?

No

Yes  Amount received

£ \_\_\_\_\_

<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Installation EP Application</b> <b>Application Supporting Statement</b> <b>Document reference: CRL_2022.01/001-1_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: PSC@environment-agency.gov.uk
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## 1 Introduction

### 1.1 General

Calder Remediation Ltd (the ‘applicant’) has requested that Reva Environmental Ltd (the ‘agent’) prepares an Environmental Permit (EP) application, for a new installation at North Dean Business Park, Halifax, HX4 8LR.

There is a permitted facility currently in operation at this location; the EP holder is MJB Plant Hire and Excavations Ltd. The southern warehouse and adjacent yard area, that are the subject of this application, are currently used for a soil screening process comprising size segregation and screening of recyclables such as plastic and metal. The existing warehouse will remain in place, as will the fixed plant that is currently in use. A partial surrender application has been submitted in parallel with this ASC application, to surrender the area of land that will be leased to the applicant. The reference for that partial surrender is EPR/HP3296EW/A002.

Future references to ‘the site’ refer to the area that is the subject of this new application; the ‘wider site’ refers to the remaining permitted MJB operations to the north (shown in red in Figure SS1).

### 1.2 Site Location and Description

The proposed EP boundary is shown on **Figure SS1** below, in green.



The access route to the facility is shared with the wider site and is from Station Lane to the south. The centre of the site is at NGR SE 09529 22095.

### 1.3 Application Objective

The applicant wishes to apply for a new bespoke installation EP for the site.

The objective of this application is to operate two treatment activities allowing the recovery of hazardous soils. These are:

- The remediation of asbestos-containing soils and rubble arising from the redevelopment of brownfield sites across the UK. The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. The process is designed to reduce asbestos levels to below 0.1% w/w and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It includes all asbestos containing materials at hazardous levels above 0.1% w/w. Levels below 0.1% w/w will be deemed non-hazardous and not suitable for treatment.
- The remediation of waste soils containing elevated levels of hydrocarbon. This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

Further details of the activities are provided in this application and a PFD is provided in **Appendix D**. In addition to these listed (installation) activities, provision is also to be made for the receipt, bulking and onward transfer of specified asbestos waste without treatment. This will be a small-scale activity, very much ancillary to the proposed activities above.

This application sets out details of the proposed use of the site and suggests that if needed, a pre-operational condition be used to make sure that the new activity does not commence until cessation of the existing activity by the current EP holder and partial surrender of the existing EP. Flexibility is requested to enable a smooth transition between the two operators and the two EPs such that there is no unnecessary delay in commencement of operations.

The facility will likely be developed in two phases, with the asbestos-containing materials recovery activity commencing initially. The second phase will be the operation of bio-piles to remove hydrocarbons from the hazardous soils. Whilst treatment operations will be commenced in two phases, this application is for both, to futureproof the EP. All documents and assessments completed for this application are based on the full scope of operations proposed.

The application seeks to allow the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing materials treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year. It is proposed that this is Activity Ref. AR1.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be out in the yard area. There will be four (covered) treatment bays each able to hold up to 700 tonnes. These are processed on a two-to-four-week cycle depending on treatment; up to 100,000 tonnes per year. It is proposed that this is Activity Ref. AR2.
- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2550 tonnes at any one time, across 5 bays within the building. An additional two covered output bays for screened materials will provide storage of a further 480 tonnes outside the building. The latter are emptied daily as the materials are produced and tested prior to transfer off site. A

covered asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity. It is proposed that this is Activity Ref. AR3.

- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This would be limited to specified waste codes, received from third party waste contractors, and storage within the building in the covered skip referred to above. The waste codes are as proposed in Table SS4 of this document and relate to both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products. It is proposed that this is Activity Ref. AR4.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D15) or recovery (R13) activities;
- Management of process effluent from listed activities AR1 and AR2 in drainage channels and collection sumps and transfer off site for testing and disposal or recovery depending on the quality; and
- Management of uncontaminated surface (roof and clean yard) water.

Following processing of the waste in either (or both) treatment lines, and following confirmatory chemical composition testing, the treated material is considered to be a product not a waste and can be transferred off site as such. Further details of this are provided in the BAT Assessment in **Appendix H** (ref. CRL\_2022.01/001-7).

## 2 Application Form

An application for a new bespoke installation EP requires the completion of the EA application form parts A, B2, B3 and F1. Details have primarily been provided on the form but this section provides additional supporting information and signposts to supplementary documents provided in support of the application where required.

The application form is provided at the front of this EP application document.

### 2.1 Form Part A

Contact details for the agent and the applicant are provided in this part of the application form. In addition to the relevant persons required by Question 5c of the form, details are provided for the Director as follows:

- Matthew James Berrett (Managing Director) – Date of Birth: 1 March 1981

These details also fulfil the requirements of Question 4 of Appendix 1 of this part of the form, which is required for new installation permits.

### 2.2 Form Part B2

#### 2.2.1 Question 3a: Relevant Offences

The applicant can confirm that the relevant person listed above has not been convicted of any relevant offence, defined in the guidance as being one relating to the environment or environmental regulation.

### 2.2.2 Question 3b: Technical Competence

The applicant can confirm that it can provide sufficient technical ability for the proposed activity, and the applicant has identified a technically competent manager, certified under CIWM (WAMITAB). A copy of the TCM certificate is included in **Appendix B**, along with the most recent continuing competency certificate (expires November 2023). Also included is the credit certificate and list of units gained, which seeks to demonstrate the appropriateness of these persons to provide COTC for the site.

The competent manager does not, at the time of the EP application, provide technical competence for any other sites.

### 2.2.3 Question 3c: Finances

The applicant can confirm that the relevant person listed above has no current/past bankruptcy or insolvency proceeding against them, either in their role for the applicant or as a relevant person for another company.

### 2.2.4 Question 3d: Management Systems

The applicant will operate its permitted facilities in accordance with an environmental management system comprising a set of policies and procedures. Whilst not certified, the EMS has been written in accordance with ISO 14001: 2015; this will facilitate certification at a later date. The table of contents from the EMS Manual is provided in **Appendix C** of this application; also included is a cover document that demonstrates it meets the EA guidance on management systems for permitted facilities (ref. CRL\_2022.01/001-2).

### 2.2.5 Question 4: Consultation

Question 4 requires confirmation of the sewerage undertaker where a discharge is part of the activity being applied for. Wastewater will comprise the following streams:

- Effluent from the storage of waste within the warehouse building pending asbestos treatment. The building benefits from hardstanding throughput and a drainage channel across the doorway which drains to a sump; there will be no interaction with the site (and wider site) surface water drainage system; and
- Effluent from the spray treatment of the bio-piles. This area will be bunded and have its own drainage channel and sump; there will be no interaction with the site (and wider site) surface water drainage system.

The contents of the two sumps will be collected by tanker and transferred off site for disposal or recovery.

There will be no discharge to sewer, so no discharge consent is required as a result of this application.

### 2.2.6 Question 5: Supporting Information

Question 5a requires site plans to be provided in support of the application. These are provided in **Appendix D** of this application and are as follows:

- Drawing CRL-ND22-EP01: Site Location Plan
- Drawing CRL-ND22-EP02: General Layout Plan
- Drawing CRL-ND22-EP02b: Internal Layout Plan (asbestos treatment)
- Drawing CRL-ND22-EP03: Site Setting
- Drawing CRL-ND22-EP04: Site Drainage Plan

A process flow diagram has also been produced for the proposed activities. This is provided alongside the drawings in **Appendix D** (ref. CRL\_2022.01/001-3).

Question 5b requires the provision of a site condition report (SCR). A copy of the H5 template has been completed (Sections 1 – 3) and a supporting SCR, based on a 2022 Landmark Envirocheck report, is provided in **Appendix E** of this application (ref. CRL\_2022.01/001-4).

Question 5c requires the provision of a non-technical summary. This has been produced and is provided in **Appendix F** of this application (ref. CRL\_2022.01/001-5).

Question 5d requires the provision of a fire prevention plan (FPP) where the activities include the storage of combustible waste. This is not applicable to this application; the waste accepted at the site is not combustible.

### **2.2.7 Question 6: Environmental Risk Assessment**

Question 6 requires the provision of an environmental risk assessment (ERA). A qualitative risk assessment has been generated for the facility, following the EA's source-pathway-receptor approach. A copy of this is provided in **Appendix G** of this application (ref. CRL\_2022.01/001-6). The EA pre-application advice identifies one conservation site that is designated as a SAC (South Pennine Moors); this is also designated as a SPA and lies within 10 km of the site. Also identified within the 2 km screening distance is a Local Nature Reserve (Scarr & Long Woods) which, along with 4 other sites is also a Local Wildlife Site (LWS); and three ancient woodland sites. All identified habitats have been explicitly considered in the ERA.

## **2.3 Form Part B3**

### **2.3.1 Question 1: Description of Activities**

A description of the two listed activities, and Waste Operation, is provided in the following sections.

#### **2.3.1.1 Remediation of Asbestos-Containing Soils (Activity AR1)**

The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It does not include the treatment of waste containing hazardous levels of fibrous asbestos (i.e., above 0.1%) but this type of asbestos will be accepted at levels below this.

The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). A retractable tarpaulin system will allow all but the bay(s) being processed to be covered. A drainage channel across the doorway of the building and sump system will collect any run-off from the storage of the incoming wastes, for transfer off site.

A wheeled loading shovel loads the waste into a pre-screen which removed oversize materials at >75 mm fraction. These oversize materials are examined and either placed in the asbestos skip or cleared for re-use and placed in an external bay pending transfer off site. The remaining screened materials are transferred to a feed conveyor to the primary picking station within the building. A dust suppression system is fitted and there will be a spray point both before and after the picking activity; which one used will be determined during an initial visual assessment of the waste (particularly odorous or dusty waste will be subjected to the pre-spray). The spray will be a water-based dust and odour suppressant that will also serve to treat/remediate any hydrocarbon contamination or presence of invasive plant species.

In the picking station the materials are handpicked for asbestos-containing materials (ACMs) within a controlled environment. ACMs are dropped into a dedicated covered skip placed below the picking

station cabin. An LEV system is included for reasons of occupational health and safety and is fitted with a HEPA filter for particulates. The remaining non-ACM materials are discharged from the picking station to the trommel screen where the larger fraction (brick, concrete, stone) is removed, and the soils fraction drops out and can be tested. The larger fraction moves via covered conveyor out of the building and into a secondary picking station where the waste is again handpicked for any obvious recyclable materials (e.g., plastic). A metallic separator over the output conveyor segregates out ferrous metals for recovery.

The screened treated soils are stockpiled in the yard area according to the input job, pending transfer off site for recovery. Large fractions are also stockpiled pending transfer for recovery.

### ***2.3.1.2 Remediation of Hydrocarbon-Containing Soils (Activity AR2)***

This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

The waste materials will be brought to site and placed in one of the four bio-piles (specified based on the waste source). The bio-remediation bays are under a fixed roof and a retractable tarpaulin system is fitted to enable partial enclosure of the front of the piles. The roof ensures that rainwater can be kept away from the waste and can enter the existing surface water drainage system or be captured and used in the process.

The incoming material is subject to screening in an Allu bucket attached to an excavator. At the point of deposit of the material from the screening bucket, nutrients and bacterial media are added manually from a bowser and high-pressure sprayer.

All loose materials in an active bio-pile will be graded up and replaced into the pile. The pile will comprise the material being pushed up against the back wall of the bays with a battered/sloped front. The roof height is the constraining factor in the height of the pile.

A drainage channel along the front of the bays and sump system will collect any effluent generated from the bio-remediation process, for transfer off site.

### ***2.3.1.3 Asbestos Waste Transfer (Activity AR3)***

Provision is in place to receive specified asbestos waste at the site, without any treatment. It will be received in accordance with CRL waste acceptance procedures and will be placed in the asbestos skip in the warehouse building, with the ACMs segregated by Activity AR1. Following this bulking activity, the waste will be transferred off site to an appropriately licensed facility.

For clarity it is suggested that the proposed activities are listed in the EP as follows:

- **AR1:** 5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste;
- **AR2:** 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste;
- **AR3:** 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes;
- **Waste Operation AR4:** Waste transfer station for the storage, bulking and off site transfer of specified asbestos waste materials. This will represent an addition of up to 10 tonnes/month on the proposed quantities for the listed activities;
- **DAA1:** Bulking/handling and storage of the segregated asbestos waste;

- **DAA2:** On site storage, and use, of raw materials;
- **DAA3:** Storage of treated waste pending transfer off-site for disposal (D15) or recovery (R13) activities;
- **DAA4:** Management of process effluent from both listed activities using collection tanks and transfer off site for testing and disposal or recovery depending on the quality; and
- **DAA5:** Management of uncontaminated surface (roof and clean yard) water.

Tables SS1, SS2 and SS3 below list the proposed wastes to be permitted for acceptance at the facility, for each listed activity and for the waste operation.

**Table SS1: Permitted Wastes for AR1 (asbestos soils treatment) and AR3 (storage)**

Waste Code	Waste Description	Treatment Stage	Detail
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>		
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil		
17 05 03*	Soil and stones containing dangerous substances		
17 06	Insulation materials and asbestos-containing construction materials		
17 06 05*	Construction materials containing asbestos		
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>		
19 13	Wastes from soil and groundwater remediation		
19 13 01*	Solid wastes from soil remediation containing dangerous substances		

**Table SS2: Permitted Wastes for AR2 (bio-remediation) and AR3 (associated storage)**

Waste Code	Waste Description	Treatment Stage	Detail
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>		
01 05	Drilling muds and other drilling waste		
01 05 05*	Oil-containing drilling muds and wastes		
<b>05</b>	<b>WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL</b>		
05 01	Wastes from petroleum refining		
05 01 03*	Tank bottom sludges		
05 01 06*	Oily sludges from maintenance operations of the plant or equipment		
<b>06</b>	<b>WASTES FROM INORGANIC CHEMICAL PROCESSES</b>		
06 05	Sludges from on-site effluent treatment		
06 05 02*	Sludges from on-site effluent treatment containing dangerous substances		
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>		
10 02	Wastes from the iron and steel industry		
10 02 07*	Solid wastes from gas treatment containing dangerous substances		
10 02 13*	Sludges and filter cakes from gas treatment containing dangerous substances		
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them		
10 13 12*	Solid wastes from gas treatment containing dangerous substances		
<b>13</b>	<b>OIL WASTES AND WASTES OF LIQUID FUELS</b>		
13 05	Oil/water separator contents		



13 05 01*	Solids from grit chambers and oil/water separators
13 05 02*	Sludges from oil/water separators
13 05 03*	Interceptor sludges
13 05 08*	Mixtures of wastes from grit chamber and oil/water separators
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
16 07	Wastes from transport tank, storage tank and barrel cleaning
16 07 08*	Wastes containing oil
16 07 09*	Wastes containing other dangerous substances
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
17 01	Concrete, bricks, tiles and ceramics
17 01 06*	Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	Soil and stones containing dangerous substances
17 06	Insulation materials and asbestos-containing construction materials
17 06 05*	Construction materials containing asbestos
17 09	Other construction and demolition wastes
17 09 03*	Other construction and demolition wastes (including mixed wastes) containing hazardous substances
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>
19 02	Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 04*	Premixed wastes composed of at least one hazardous waste
19 02 05*	Sludges from physico/chemical treatment containing hazardous substances
19 03	Stabilised/solidified wastes
19 03 04*	Wastes marked as hazardous, partly stabilised other than 19 03 08
19 03 06*	Wastes marked as hazardous, solidified
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
19 13	Wastes from soil and groundwater remediation
19 13 01*	Solid wastes from soil remediation containing dangerous substances
19 13 03*	Sludges from soil remediation containing hazardous substances
19 13 05*	Sludges from groundwater remediation containing hazardous substances

**Table SS3: Permitted Wastes for A4 (asbestos waste transfer)**

Waste Code	Waste Description	Treatment Stage	Detail
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>		
17 06	Insulation materials and asbestos-containing construction materials		
17 06 01*	Insulation materials containing asbestos		
17 06 05*	Construction materials containing asbestos		

The inherent purpose of the facility is to support the implementation of the waste hierarchy and it will do this by diverting waste materials from hazardous disposal facilities by way of a recovery activity,

resulting in a primary output that has end-of-waste status, extraction of recyclable fractions, and a minimal hazardous residue that will require disposal.

### **2.3.2 Question 2: Point Source Emissions to Air, Water and Land**

There will be a point source emission to air from the local exhaust ventilation (LEV) system on the enclosed picking cabin for the asbestos treatment activity. This picking cabin will be located within the treatment building; it is a new piece of equipment that is not currently installed at the site. The LEV system is included for reasons of occupational health and safety and will be fitted with a HEPA filter for particulates. There will be a spray point both before and after the picking activity, which one used will be determined during an initial visual assessment of the waste (particularly odorous or dusty waste will be subjected to the pre-spray). The spray will be a water-based dust and odour suppressant that will also serve to treat/remediate any hydrocarbon contamination or presence of invasive plant species. The LEV exhaust is identified as A1.

The spray on the asbestos-containing waste is a fine mist system and no overrun of the chemical is anticipated. Should this occur however this will either be soaked up in soil materials or a spill kit will be used to soak it up from the concrete floor of the treatment building and the spill kit disposed of appropriately.

A trommel screen will further separate the treated material by size. This is considered not to require specific LEV as the material is unlikely to be contaminated at this stage. The trommel is however located within the building and the orifice in the building wall to the external picking station benefits from a sealed blanking plate. The location of the trommel is within the respirator zone for which there is regular ongoing monitoring to ensure control measures are effective.

A second enclosed picking cabin will complete the process. This is the existing cabin that is in place at the site, immediately outside of the building, and benefits from sealed doors. The treated waste from the trommel is moved to it via covered conveyor. It is elevated to enable sorted materials to be dropped into storage bays below it. The picking station will be used to remove any plastics etc. from the treated waste stream to ensure that the segregated materials sent for recycling are of optimum quality. It does also provide a secondary quality check for the asbestos picking process. This will also have an LEV system which will be fitted with a HEPA filter for particulates. The LEV exhaust is identified as A2.

The four bio-remediation bays will be covered with a fixed roof with rainwater diversion to the site's clean surface water management system. The front of the bays will be effectively covered, by way of a tarpaulin or equivalent, thereby maintaining negative pressure. Air will be extracted from within the bays via LEV which will be filtered for VOCs (carbon filter) and particulates (HEPA filter). The LEV exhaust is identified as A3.

The use of the biological agent for treatment of the waste within the bays will generate an effluent. The bays will have their own drainage channel and sump to keep the effluent separate from any site or wider site drainage. This will be emptied on a regular basis by tanker and transferred off site for recovery or disposal depending on the quality (determined by off-site testing). This effluent destined for transfer off-site is referred to as E1 in Form B3.

There will be no discharge to sewer, so no discharge consent is required as a result of this application.

The three air emission points are shown on the Internal Layout Plan provided in **Appendix D** of this application (Drawing CRL\_ND22-EP02 and EP02b).

There is no discharge to sewer from the process. Currently all surface water from the clean yard areas and the roofs within the EP boundary and the wider site is collected in drains and directed to the surface water sewer which flows to the River Calder. There is no requirement for consent for this.

The E1 effluent tank/sump and all drains are shown on the Site Drainage Plan (Drawing CRL\_ND22-EP04).

### 2.3.3 Question 3: Operating Techniques

Question 3a relates to operating techniques. A BAT assessment has been produced, to reflect fully the proposed operations. The BAT Assessment is provided in **Appendix H** of this application (ref. CRL\_2022.01/001-7).

Question 3c relates to raw materials. These are relatively limited for the proposed activities and are as follows:

- Fuel – for vehicles – 10,000 litre tank outside of site EP boundary, stored within wider site (regulated by the MJB EP – EPR/HP3296EW);
- Water – for dilution of spray chemical treatment agent for both listed activities. Water will be mains supplied and quantities are as yet unknown as the need to use the spray in the aerosol line will be determined on a load-by-load basis so will vary. The mains water will be supplemented by clean roof water collected from the bio-remediation building and asbestos warehouse building;
- Spray chemical for asbestos enclosed picking station. This will be Wet Strip Surfactant and will be stored in 20 x 25 litre drums located within a locked area of the adjacent warehouse building (which is outside of the site EP boundary). A month's supply will be stored; equating to an annual usage of 6,000 litres; and
- Bio-agents and chemicals for the bio-remediation activity. This will comprise hydrogen peroxide and EU80 / Oil Spill Eater II. Hydrogen peroxide will be stored in 2 x 1,000 litre IBCs, EU80 will be stored in 5 x 205 litre drums, and Oil Spill Eater II will be stored in 10 x 205 litre drums. A month's supply of all will be held on site at any one time within the same locked area of the adjacent warehouse building (outside of the site EP boundary); this equates to the storage 2,000 litres, 1,025 litres and 2,050 litres respectively and an annual usage of 24,000 litres, 12,300 litres and 24,600 litres respectively.

The surfactant used for the asbestos line will be diluted with mains water and stored in a 1,000-litre capacity double-skinned mobile bowser, in the site EP boundary. Raw materials are detailed and discussed in the BAT Assessment completed for the EP application and safety data sheets (SDS) are provided in the annex to that report.

### 2.3.4 Question 6: Resource Efficiency and Climate Change

Question 6 requires information to be provided as to the basic measures implemented to improve energy efficiency. The BAT Assessment sets out the measures that will be in place.

## 2.4 Form Part F1

The application fee has been identified using the April 2022 EA Charging Scheme. It is based on the activity references for the proposed listed activities as follows:

- Charge activity ref. 1.16.1.2 for the physico-chemical treatment of asbestos-containing waste (Section 5.3 hazardous waste installation) - £16,001 for a new application;
- Charge activity ref. 1.16.1.1 for the biological treatment (bio-remediation) of hydrocarbon contaminated waste (Section 5.3 hazardous waste installation) - £1,600.10 as a 90% reduction can be applied to subsequent activities falling under the same section of the Regulations; and
- Charge activity ref. 1.16.4 for the temporary storage of hazardous waste (Section 5.6 hazardous waste installation) - £1,351.90 for a new application as a 90% reduction can be applied to the

storage of hazardous waste where it is incidental to an installation carrying out activities in 1.16.1.

- Charge activity ref. 1.16.5 for a hazardous waste transfer station - £3,984.50 for a new application as a 50% reduction can be applied to this where it is an activity that is 'reasonably associated' with another.

The EA pre-application advice identifies one conservation site that is designated as a SAC (South Pennine Moors); this is also designated as a SPA and lies within 10 km of the site. Also identified within the 2 km screening distance is a Local Nature Reserve (Scarr & Long Woods) which, along with 4 other sites is also a Local Wildlife Site (LWS); and three ancient woodland sites. An additional fee for the EA to carry out a habitats assessment is therefore required; this is fixed at £779.

No standalone management plans have been identified as being necessary for this application; there are therefore no additional costs to those stated above.

Payment of the total application fee of £22,937.50 has been made by BACS, reference PSCAPCALDE001.

# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix A: Screening Report & Maps**

CRL\_2022.01/001\_v1 February 2023

# Nature and Heritage Conservation

## Screening Report: Bespoke Installation

Reference	EPR/GP3245QY/A001
NGR	SE 09541 22102
Buffer (m)	35
Date report produced	27/07/2022
Number of maps enclosed	5

The nature conservation sites identified in the table below must be considered in your application.

Nature and heritage conservation sites	Screening distance (km)	Further information
Special Areas of Conservation (cSAC or SAC) <b>South Pennine Moors (SAC)</b>	10	<a href="#">Joint Nature Conservation Committee</a>
Special Protection Area (pSPA or SPA) <b>South Pennine Moors Phase 2</b>	10	<a href="#">Joint Nature Conservation Committee</a>
Local Nature Reserve (LNR) <b>Scarr &amp; Long Woods (LNR)</b>	2	<a href="#">Natural England</a>
Local Wildlife Sites (LWS) <b>Elland Park Wood Calder and Hebble Navigation North Dean Wood Scarr and Long Woods Rochdale Canal</b>	2	<a href="#">Appropriate Local Record Centre (LRC)</a>
Ancient Woodland <b>Elland Park Wood Long Wood North Dean Wood</b>	2	<a href="#">Woodland Trust</a> <a href="#">Forestry Commission</a> <a href="#">Natural England</a>



The relevant Local Records Centre must be contacted for information on the features within local wildlife sites. A small administration charge may also be incurred for this service.

**Please note** we have screened this application for protected and priority sites, habitats and species for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

**Please note** the nature and heritage screening we have conducted as part of this report is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this report and the submission of the permit application, which could result in the return of an application or requesting further information.

customer service line  
03708 506 506


incident hotline  
0800 80 70 60

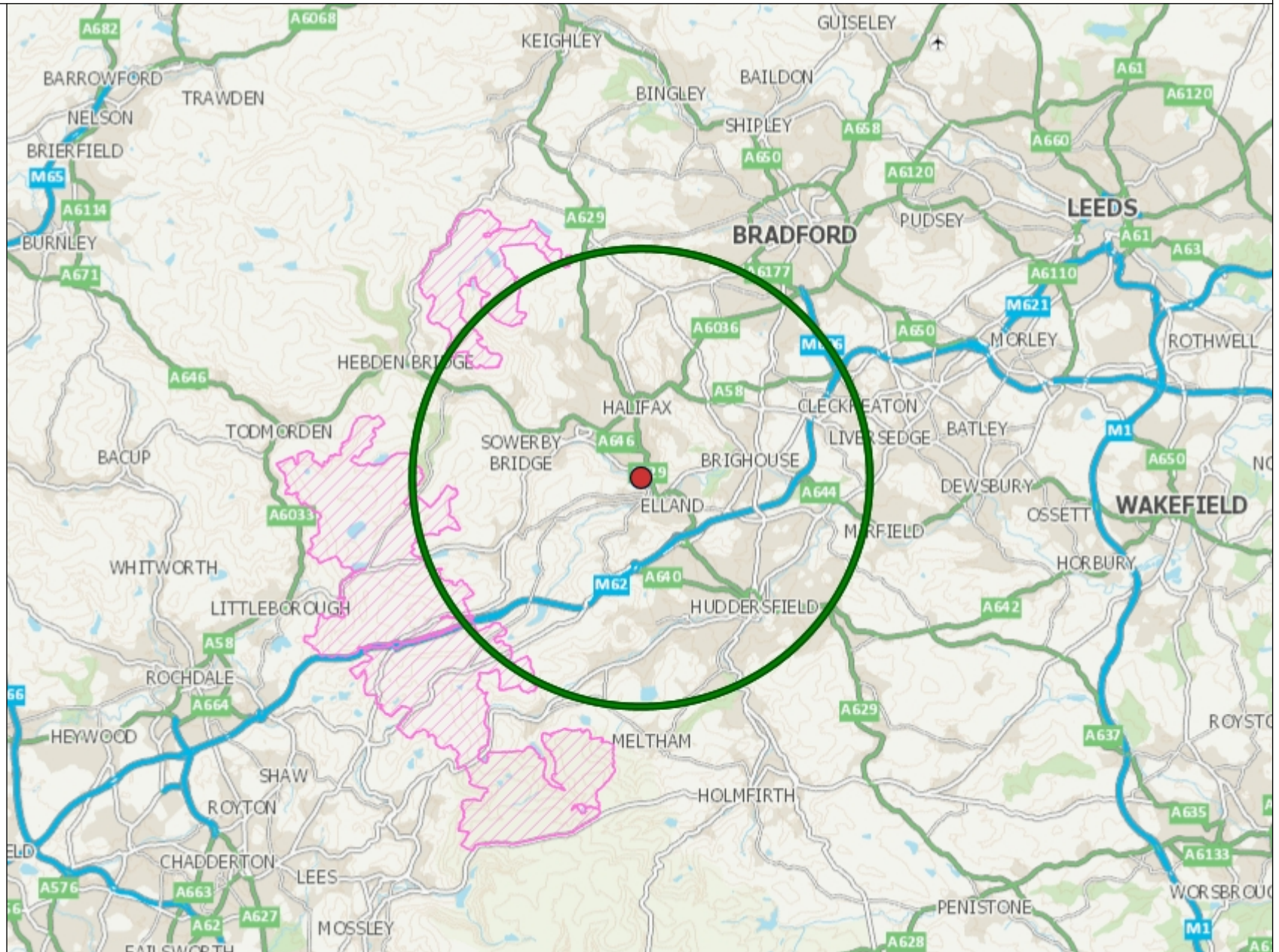
floodline  
0845 988 1188

[www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

# Special Areas of Conservation

## Legend

 SAC (England)



1 : 250,000

0 6,250


Metres

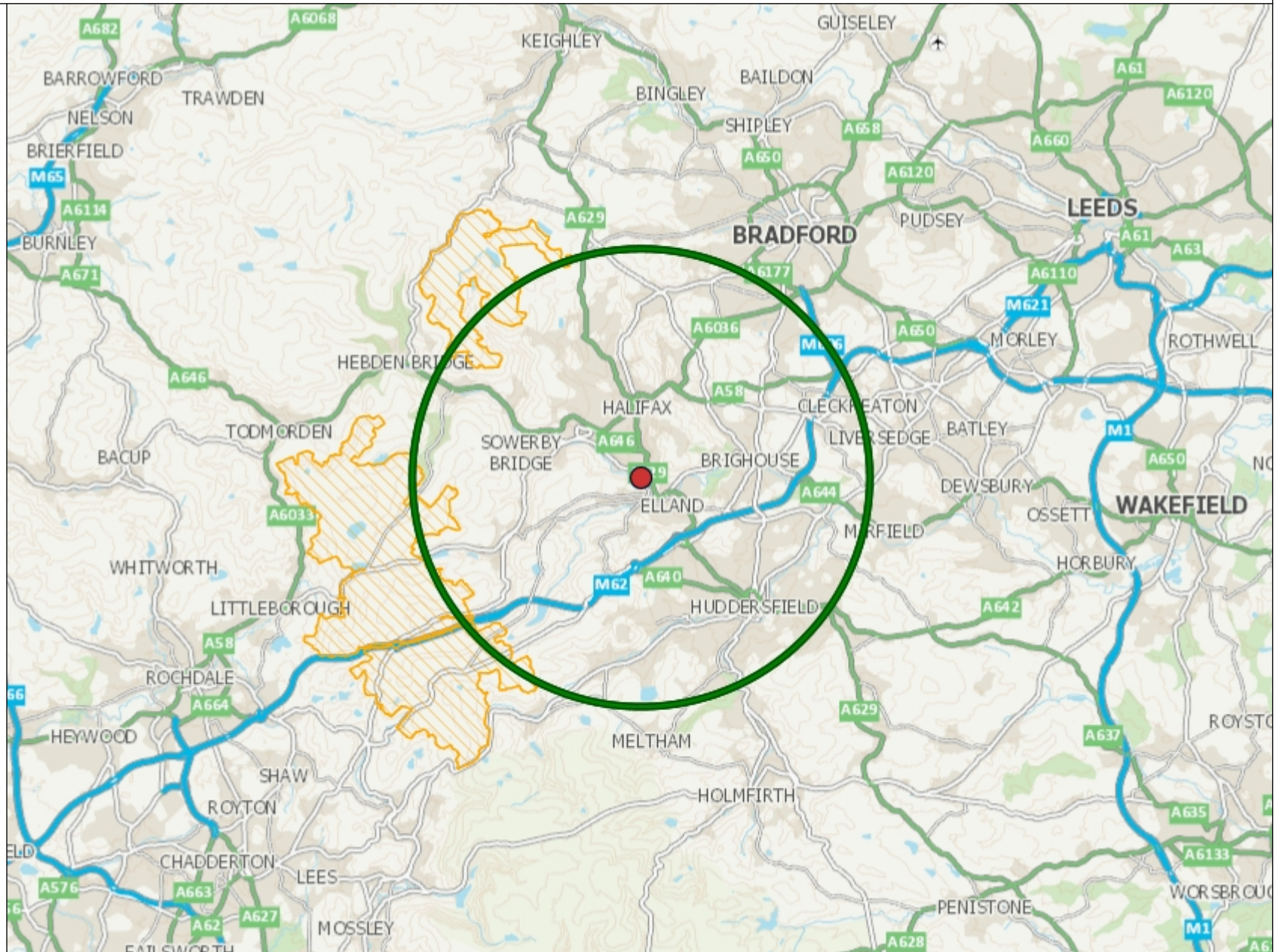




# Special Protection Areas

## Legend

 SPA (England)



1: 250,000

0 6,250


Metres

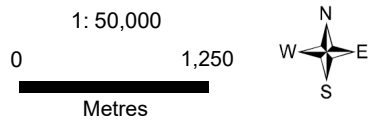
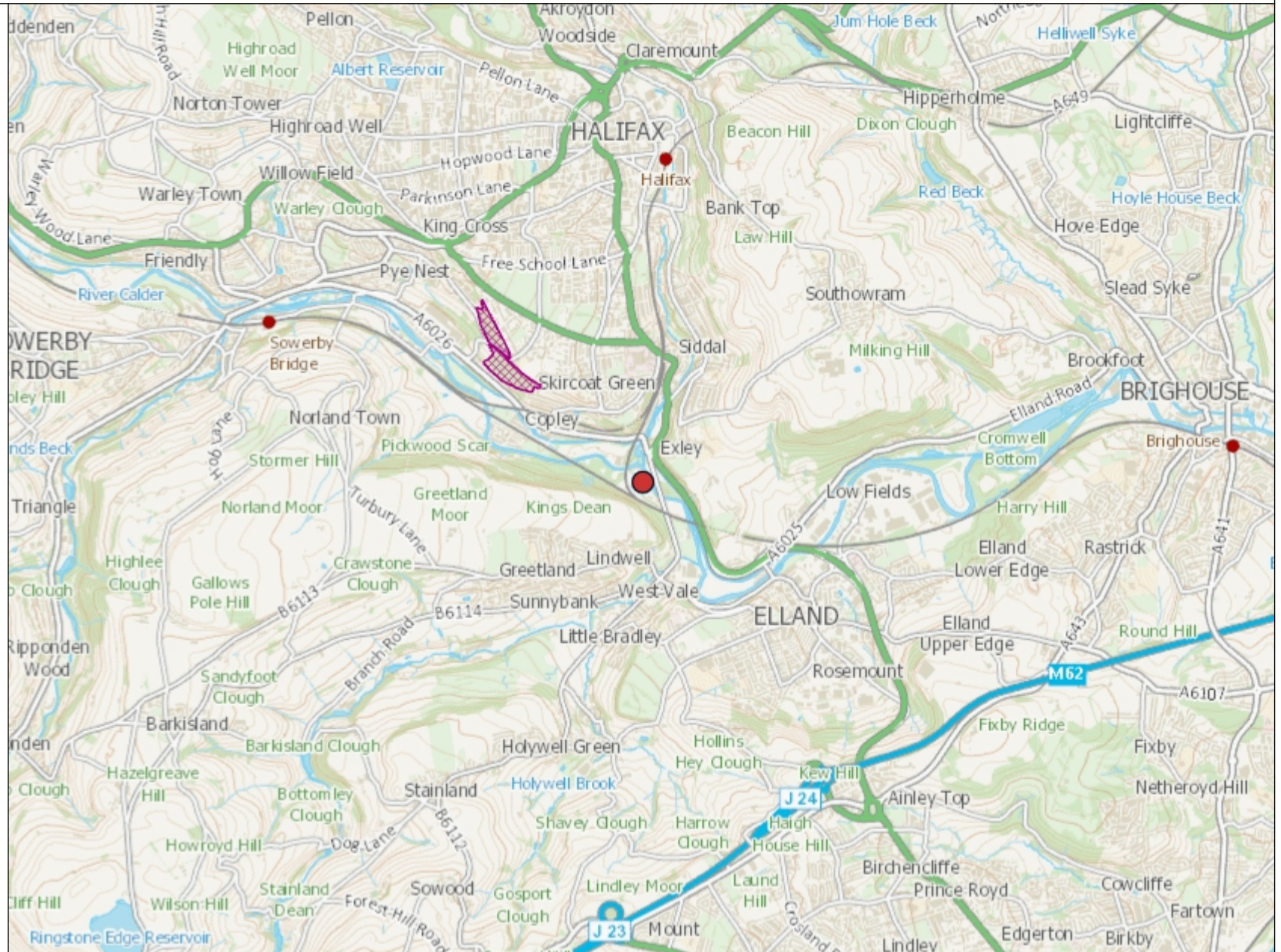


# Local Nature Reserve



## Legend

 LNR (England)

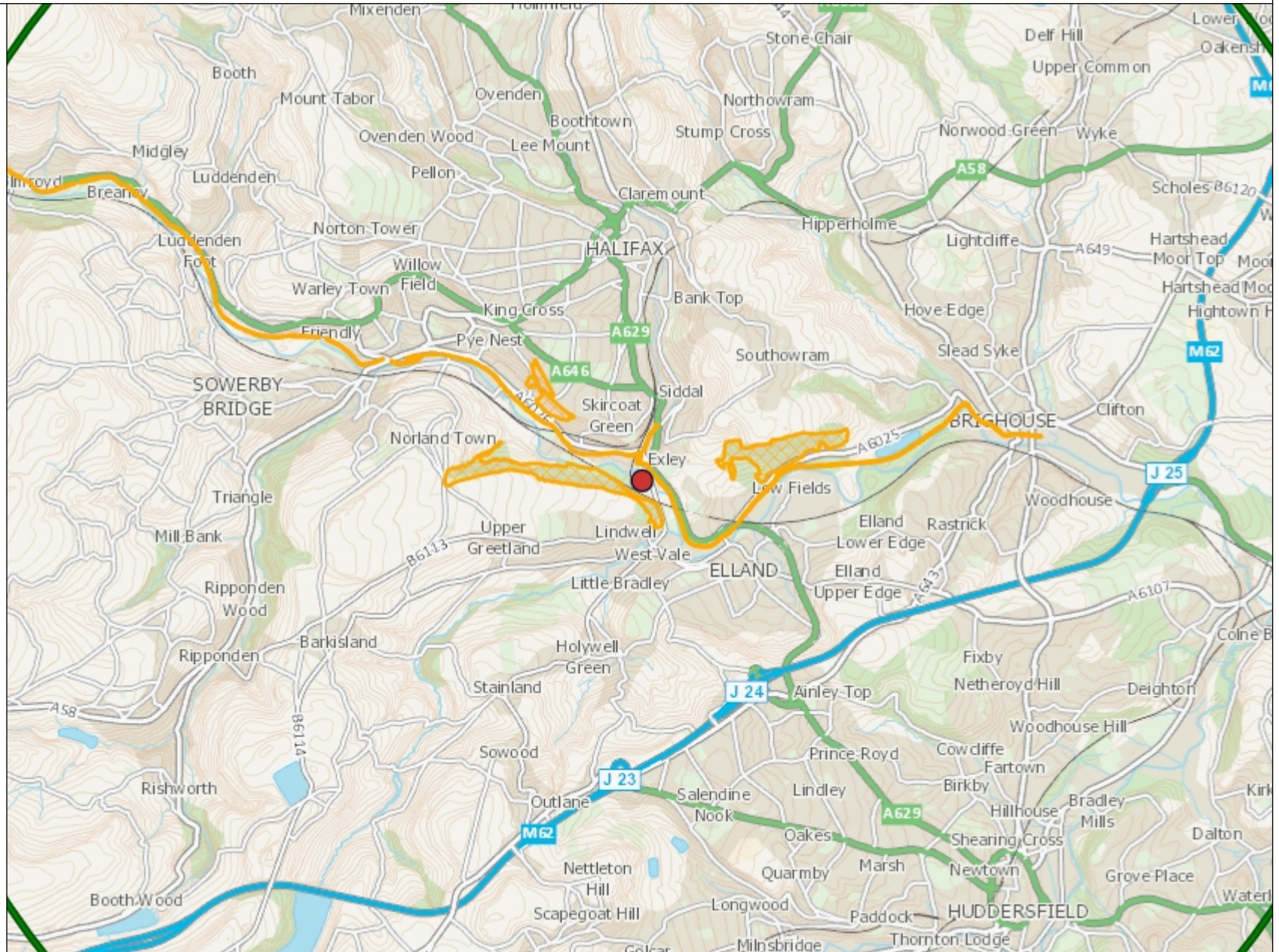


# Local Wildlife Sites



## Legend


 Local Wildlife Sites

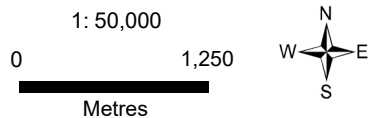
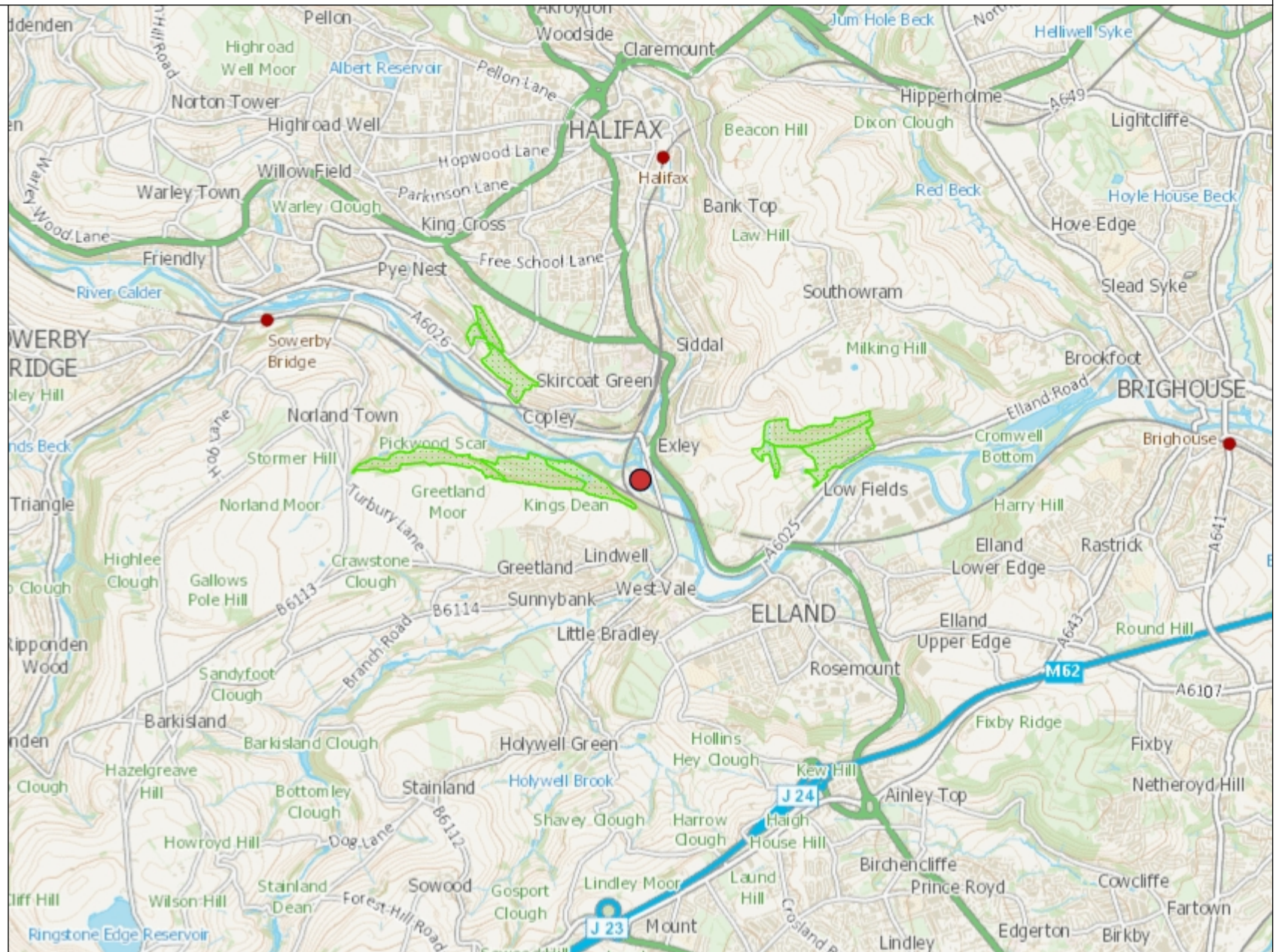


# Ancient Woodland



## Legend

 Ancient Woodland (England)



# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix B: COTC**

CRL\_2022.01/001\_v1 February 2023



Certificate No: 5145385

# CERTIFICATE OF TECHNICAL COMPETENCE

*This Certificate confirms that*

**Callum James Sutcliffe**

---

*Has demonstrated the standard of technical competence required for the management of a facility of the type set out below*

*Facility Type*

**Level 4 in Waste Management Operations -**

---

**Managing Treatment Hazardous Waste (4TMH)**

---

Authorising Signatures:

Chief Executive Officer \_\_\_\_\_

A handwritten signature in black ink, appearing to read "Callum James Sutcliffe".

Director: \_\_\_\_\_

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Date of issue: \_\_\_\_\_

19/06/2019



00021917



# Operator Competence Certificate

**Title:**

**Physical and Chemical Treatment of Hazardous Waste**

**This Certificate is awarded to**

**Callum James Sutcliffe**

Verification date: 19/06/2019

Authorised:

A handwritten signature in black ink, appearing to read "Callum James".

WAMITAB Chief Executive Officer



The Chartered Institution  
of Wastes Management

Learner ID: 31456

Certificate No.: 5145385

Date of Issue: 19/06/2019

A handwritten signature in black ink, appearing to read "Callum James".

CIWM Chief Executive Officer

This certificate is jointly awarded by WAMITAB and the Chartered Institution of Wastes Management (CIWM) and provides evidence to meet the Operator Competence requirements of the Environmental Permitting (EP) Regulations, which came into force on 6 April 2008.



00140582



## Credit certificate

This certificate determines credit awarded to:

**Callum James Sutcliffe**

### Units gained:

		Credit Value	Credit Level
A/508/0756	Maintain health and safety in the waste resource management industry	4	L4
F/508/0757	Manage the environmental impact of work activities	3	L4
F/508/0760	Manage the movement, sorting and storage of waste	5	L4
R/508/0861	Control work activities on a waste management facility	6	L4
K/508/0882	Identify and implement improvements to waste management operations	3	L4
M/508/0883	Control maintenance and other engineering operations	5	L4
T/508/0884	Procedural Compliance	4	L4
A/508/0885	Manage and maintain systems for responding to emergencies	3	L4
F/508/0886	Manage the reception of hazardous waste	7	L4
M/508/0978	Manage transfer and disposal from hazardous waste treatment and recovery operations	9	L4
H/508/0993	Manage site operations for the treatment of hazardous waste	9	L4
Y/508/0974	Manage an inspection visit at your site from regulatory bodies	6	L4

Verification date: 19/06/2019

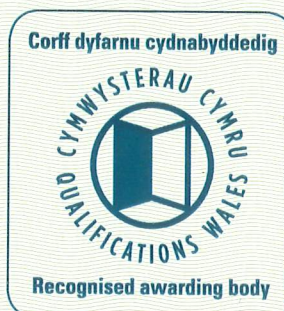
Authorised:

Chris James  
WAMITAB Chief Executive Officer

Learner ID: 31456

Certificate No.: 5145385

Date of Issue: 19/06/2019



The qualifications regulators logos on this certificate indicate that the qualification is accredited only for England, Wales and Northern Ireland. Qualifications Wales regulates this qualification where it is awarded to learners assessed wholly or mainly in Wales.



00140581





**Qualification Title:**

**WAMITAB Level 4 High Risk Operator Competence for  
Managing Physical and Chemical Treatment of Hazardous  
Waste**

**Qualification Accreditation Number:**

601/8502/8

**This Certificate is awarded to**

**Callum James Sutcliffe**

Verification date: 19/06/2019

Authorised:

A handwritten signature in black ink, appearing to read "Chris James".

Chris James  
WAMITAB Chief Executive Officer

Learner ID: 31456

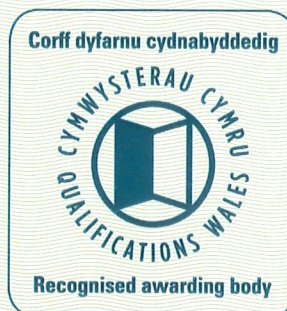
Certificate No.: 5145385

Date of Issue: 19/06/2019

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A066-77367065E991  
AuthentiQual.com



The qualifications regulators logos on this certificate indicate that the qualification is accredited only for England, Wales and Northern Ireland. Qualifications Wales regulates this qualification where it is awarded to learners assessed wholly or mainly in Wales.



00140580



# Continuing Competence Certificate

This certificate confirms that

Callum Sutcliffe

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 03/11/2021

TSH            Transfer - Hazardous Waste  
TMH            Treatment - Hazardous Waste

**Expiry Date:**  
**03/11/2023**

Verification date: 02/11/2021

Authorised:

Learner ID: 31456

Certificate No.: 5187549

Date of Issue: 03/11/2021

A handwritten signature in black ink, appearing to read "A. Hooker".

Director of Qualifications and Standards

A handwritten signature in black ink, appearing to read "C. [unclear]".

CIWM Chief Executive Officer



The Chartered Institution  
of Wastes Management



00154824

# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix C: EMS Summary**

CRL\_2022.01/001-2 v1 February 2023

## ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) MANUAL

For:

Calder Remediation Ltd  
North Dean Waste Recovery Facility  
North Dean Business Park  
Stainland  
Halifax  
HX4 8LR

Environmental Permit (EP) Reference: EPR/GP3245QY

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<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Installation EP Application</b> <b>Appendix C EMS Summary</b> <b>Document reference: CRL_2022.01/001-2_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: PSC@environment-agency.gov.uk
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## 1 Introduction

Calder Remediation Ltd (the ‘applicant’) has requested that Reva Environmental Ltd (the ‘agent’) prepares an Environmental Permit (EP) application, for a new installation at North Dean Business Park, Halifax, HX4 8LR.

The facility will operate two treatment activities allowing the recovery of hazardous soils, as follows:

- Section 5.3 A(1)(a)(ii) - The remediation of asbestos-containing soils and rubble arising from the redevelopment of brownfield sites across the UK. The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. It does not include the treatment of waste containing hazardous levels of fibrous asbestos. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It includes all asbestos containing materials at hazardous levels above 0.1% w/w. Levels below 0.1% w/w will be deemed non-hazardous and not suitable for treatment.
- Section 5.3 A(1)(a)(i) - The remediation of waste soils containing elevated levels of hydrocarbon. This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

The temporary storage of hazardous waste pending treatment is also a listed activity (Section 5.6 A(1)(a) as the total capacity exceeds 50 tonnes.

In addition to these listed (installation) activities, provision is also to be made for the receipt, bulking and onward transfer of specified asbestos waste without treatment. This will be a small-scale activity, a Waste Operation, very much ancillary to the proposed activities above.

The facility will likely be developed in two phases, with the asbestos-containing soils recovery activity commencing initially. The second phase will be the operation of bio-piles to remove hydrocarbons from the hazardous soils. Whilst treatment operations will be commenced in two phases, the EP application is for both, and all documents provided in support of it (including the EMS) are based on the full scope of operations proposed.

Question 3d of Part B2 of the EA new bespoke installation application form requires information to be provided about the Environmental Management System (EMS), including confirmation of what, if any, standard it is certified to. The applicant has developed an EMS for the purposes of the EP application; it has been written in accordance with ISO 14001: 2015. This is the first operational facility of its kind for the applicant, so at this stage the EMS is uncertified. The purpose of writing it in accordance with ISO 14001 however is so that certification can be sought at an early stage once the site is operational.

This EMS Summary has been written as a cover sheet for the EMS Manual and follows the headings in the EA guidance ‘develop a management system: environmental permits’, signposting to the location of information within the EMS Manual.

## 2 Site Infrastructure Plan

A number of site plans have been produced for the site, primarily for the purposes of the EP application (EPR/GP3245QY/A001). These are considered to form part of the EMS and include:

- Site Location Plan. This shows the geographical location of the site and the EP boundary.
- Site Layout Plan. This identifies features/infrastructure, both internally and externally within the EP boundary. This includes the proposed treatment lines (plant and equipment), warehouse area, untreated waste storage, treated waste storage, site boundary, yard area, air emission points, vehicle access and exit points.
- Site Setting. This shows the location of the site relative to potentially sensitive receptors including watercourses, residential, commercial, and industrial premises, and habitat features.
- Site Drainage Plan. This shows the drainage network at the site, including locations of manhole covers and drains.

In addition to this, a separate plan is kept on site that identifies the location of mains water and electricity supply to the site, routes around the site and the location of any isolating switches, stop valves etc. in addition to other features such as the location of spill kits and the emergency assembly point(s).

### 3 Site Operations

The site will operate as a materials recovery facility, specifically for the recovery of hazardous soils. The EP will cover the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing soils treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be out in the yard area. There will be four (covered) treatment bays each able to hold up to 700 tonnes. These are processed on a two-to-four-week cycle depending on treatment; up to 100,000 tonnes per year.
- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2000 tonnes at any one time, across 6 bays within the building. An additional two covered output bays for screened materials will provide storage of a further 600 tonnes. The latter are emptied daily as the materials are produced and tested prior to transfer off site. A covered asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity.
- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This would be limited to specified waste codes, received from third party waste contractors, and storage within the building in the covered skip referred to above. The waste codes are as proposed in Table SS4 of this document and relate to both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D14) or recovery (R13) activities;
- Management of process effluent from both listed activities using collection tanks and transfer off site for testing and disposal or recovery depending on the quality; and
- Management of uncontaminated surface (roof and clean yard) water.

Following processing of the waste in either (or both) treatment lines, and following confirmatory composition testing, the material is a product not a waste and can be transferred off site as such. Further details regarding this are provided in the BAT Assessment in Appendix H (ref. CRL\_2022.01/001-7).

### **3.1 Operational Overview**

A description of the two listed activities, and Waste Operation, is provided in the following sections. Regular checks are undertaken to ensure that operations are being undertaken in accordance with operational procedures.

#### **3.1.1 Remediation of Asbestos-Containing Soils (Activity AR1)**

The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. It does not include the treatment of waste containing hazardous levels of fibrous asbestos. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material.

The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). A retractable tarpaulin system will allow all but the bay(s) being processed to be covered. The building benefits from hardstanding throughput and a drainage channel runs across the doorway which drains to a sump; this will collect any run-off from the incoming waste, for transfer off site. There will be no interaction with the site (and wider site) surface water drainage system.

A wheeled loading shovel loads the waste into a pre-screen which removed oversize materials at >75 mm fraction. These oversize materials are examined and either placed in the asbestos skip or cleared for re-use and placed in an external bay pending transfer off site. The remaining screened materials are transferred to a feed conveyor to the primary picking station within the building. A dust suppression system is fitted and there will be a spray point both before and after the picking activity; which one used will be determined during an initial visual assessment of the waste (particularly odorous or dusty waste will be subjected to the pre-spray). The spray will be a water-based dust and odour suppressant that will also serve to treat/remediate any hydrocarbon contamination or presence of invasive plant species.

In the picking station the materials are handpicked for asbestos-containing materials (ACMs) within a controlled environment. ACMs are dropped into a dedicated covered skip placed below the picking station cabin. An LEV system is included for reasons of occupational health and safety and is fitted with a HEPA filter for particulates. The remaining non-ACM materials are discharged from the picking station to the trommel screen where the larger fraction (brick, concrete, stone) is removed, and the soils fraction drops out and can be tested. The larger fraction moves via covered conveyor out of the building and into a secondary picking station where the waste is again handpicked for any obvious recyclable materials (e.g. plastic). A metallic separator over the output conveyor segregates out ferrous metals for recovery.

The screened treated soils are stockpiled in the yard area according to the input job, pending transfer off site for recovery. Large fractions are also stockpiled pending transfer for recovery.

#### **3.1.2 Remediation of Hydrocarbon-Containing Soils (Activity AR2)**

This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon

content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

The waste materials will be brought to site and placed in one of the four bio-piles (specified based on the waste source). The bio-remediation bays are under a fixed roof and a retractable tarpaulin system is fitted to enable partial enclosure of the front of the piles. The roof ensures that rainwater can be kept away from the waste and can enter the existing surface water drainage system.

The incoming material is subject to screening in an Allu bucket attached to an excavator. At the point of deposit of the material from the screening bucket, nutrients and bacterial media are added manually from a bowser and high-pressure sprayer.

All loose materials in an active bio-pile will be graded up and replaced into the pile. The pile will comprise the material being pushed up against the back wall of the bays with a battered/sloped front. The roof height is the constraining factor in the height of the pile.

A drainage channel along the front of the bays and sump system will collect any effluent generated from the bio-remediation process, for transfer off site.

### **3.1.3 Asbestos Waste Transfer (Activity AR3)**

Provision is in place to receive specified asbestos waste at the site, without any treatment. It will be received in accordance with CRL waste acceptance procedures and will be placed in the asbestos skip in the warehouse building, with the ACMs segregated by Activity AR1. Following this bulking activity, the waste will be transferred off site to an appropriately licensed facility.

## **3.2 Risk Assessment**

The facility will be operated in accordance with the ERA provided in the EP application (Appendix G, ref. CRL\_2022.01/001-6). This is a qualitative risk assessment which identifies the potential hazards, their pathways to causing harm, and the likelihood of them happening alongside the consequences if they do.

This is further augmented by an Aspects and Impacts Assessment, completed in accordance with Section 3.2 of the EMS. The output from this assessment is used to determine the most significant aspects and impacts; these drive the setting of environmental objectives and targets (Section 3.4 of the EMS).

## **3.3 Storage of Waste**

Wastes stored at the site are limited to those allowed to be received under the EP, and any process outputs. Permitted wastes for receipt are defined in the EP by EWC code and basic description. Waste storage is only in the designated bays in the warehouse, or in the bio-piles, as shown on the Site Layout Plan which forms part of the EMS.

This falls under Section 4 of the EMS (Operations) in relation to the control of incoming waste (planning, receipt, sorting, storage, and handling). This section also covers off-site transfers of waste e.g., process effluent, ACMs, spent filter material, scrap metal, segregated plastic for recycling, general waste etc.

## **3.4 Waste Acceptance**

CRL will operate in accordance with procedures for both pre-acceptance and waste acceptance. Compliance with these, ensures that waste arriving at the site is as expected, as described in the accompanying duty of care paperwork, and is therefore permitted for acceptance, storage and treatment or transfer.

This also falls under Section 4 of the EMS (Operations) in relation to the control of incoming waste (planning, receipt, sorting, storage, and handling).

### **3.5 Fire Prevention Plan**

The incoming waste is not considered to be combustible, and a Fire Prevention Plan has therefore not been considered necessary for the EP application. The EMS does however cover Emergency Preparedness and Response, in Section 4.2; CRL will establish, implement, and maintain processes to prepare for emergency situations, including fire, at the site and to respond if they occur.

The appointment of fire wardens ensures that there are sufficient staff with specific roles in the event of an environmental emergency. All other team members are provided with awareness instruction and training (e.g., fire extinguisher use) where required.

## **4 Site and Equipment Maintenance Plan**

Records of inspections, repairs and maintenance are kept on site, and used to verify that those checks have been undertaken in accordance with the EMS. The scheduling of maintenance is either prescribed by:

- The supplier/manufacturer of the equipment
- Relevant legislation (e.g., inspection of fire-fighting equipment)
- Other relevant guidance (e.g., sector guidelines/best practice).

Regular checks are undertaken to ensure that maintenance and inspection is being carried out, and to ensure that the integrity of equipment is maintained. This falls under Section 4.2 of the EMS which confirms that a process is in place to ensure equipment is inspected and tested, and that a preventative maintenance procedure/plan is maintained.

## **5 Contingency Planning**

The details provided in EP documents, site plans, risk assessment, and the majority of the EMS relate to measures that are in place during 'normal' operations i.e. when the facility can be operated as it is designed to do. The Aspects and Impacts Assessment, completed in accordance with Section 3.2 of the EMS includes consideration of abnormal (failure) scenarios.

A contingency plan is required to address the scenario when the facility cannot be operated in this way. There are many reasons why this could occur including, but not limited to, the following:

- Lack of staffing leading to inability to collect/receive/treat/transfer waste
- Natural events (storms, floods, pandemics etc.) leading to closure of site or increased waste across existing contracts that exceeds the permitted site capacity
- Loss of water or mains power

In the event of the facility being unable to continue 'normal' operations, CRL has a contingency plan in place which will be activated to ensure that waste can continue to be managed appropriately.

## **6 Accident Prevention and Management Plan**

This forms part of the EMS. It is reviewed on a regular basis and also updated as required following any incidents, changes to process, or to reflect changes in legislation or best practice. It sets out the potential accidents that may occur as a result of processing waste, identifies the mitigation measures in place to prevent accidents, and sets out the action plan in the event of an incident; this is the Environmental Emergency Action Plan which falls under Section 4.2 of the EMS (Emergency Preparedness and Response). The EMS includes emergency planning, where potential accident scenarios are derived from the ERA and used to establish the Environmental Emergency Action Plan. It builds on the ERA for the site, which in part itself satisfies part of the EA guidance on accident management in terms of defining control measures that would prevent an accident, but goes a step further and takes the hazard information from the ERA and aligns it with potential accidents that could result in harm to human health and/or the environmental.

Waste stored at the facility is limited to those allowed to be received under the EP and is defined in the EP by EWC code and basic description. Dedicated waste storage locations are shown on the Site Layout Plan. Site procedures require waste acceptance and tracking processes to be followed. As a result, in the event of an emergency, the operator can identify (and is able to provide the emergency services with) details of the waste present on site at the time of the incident (estimated quantity, source/producer).

Training is provided to the operational staff; roles and responsibilities are clearly defined.

An incident reporting system enables clear reporting and investigation of incidents and is filed alongside any supporting information e.g. accident book record, witness statement, third party communications etc.

## **7 A Changing Climate**

Whilst the existing plans for the facility are based on the existing climate, it is recognised that a changing climate may introduce conditions that could affect operations in the future. The following changes could reasonably be expected:

- Higher average temperatures
- More heat waves and hot days
- Rising sea levels
- Changes in rainfall patterns and intensity
- More storms

The UK Climate Projections (UKCP) provides up to date information of these possible changes. This provides projections on a localised basis. The EA has produced sector guidance notes on completing an 'adapting to climate change risk assessment' which sets out possible impacts and mitigation measures to consider when preparing the risk assessment. The guidance for 'hazardous waste and treatment' sector has been used for the North Dean Waste Recovery Facility.

The climate change risk assessment, as for other management system documents, is reviewed on a regular basis and updated if required.

## **8 Complaints Procedure**

The complaints procedure follows the guidance on management systems for environmental permits and includes measures to be taken to address any concerns, near misses, potential for or actual pollution whether that is to the land, air, water, or a perceived nuisance to staff, public and neighbours. It sets out how the operator will receive and record compliant, investigate them, and act upon them.

This falls under Section 5 of the EMS (Performance Evaluation), specifically 5.1 which covers the reporting of all environmental incidents including those received via complaints from interested parties.

This complaints procedure, as for other management system documents, is reviewed on a regular basis and updated if required.

## **9 Managing Staff Competence and Training Records**

EA guidance requires the operator of a permitted facility to have a training system in place for all relevant staff that includes EP awareness for their work activities; awareness of potential environmental effects from operation under normal and abnormal circumstances, awareness of need

to report deviation from the EP, and prevention of accidental emissions and action to be taken when they occur.

It is considered that for most individuals their impact is likely to be minor and awareness training is sufficient. General awareness training will be given to all new starters; and refresher training will be provided to all. The awareness training focuses on the fact the site has an EP and the key conditions of that EP e.g., waste acceptance, storage, and emergency scenarios such as spillages. In relation to persons working in the asbestos treatment picking station, specific asbestos training is required and will be provided.

Any contractors that are engaged to work on the site will receive a site induction prior to undertaking their work.

Identification of training needs and management of training for all staff is the responsibility of the defined Technically Competent Manager. A training matrix will define requirements and records of all training will be kept, including any tests/exams that verify the success of that training.

There are several references to training in the EMS as follows:

- Section 2 Leadership, 2.1 Top Management
- Section 2 Leadership, 2.2 Environmental Policy
- Section 3 Planning, 3.7 Competence
- Section 4 Operations, 4.1 Planning and Control

Training and competency is primarily covered in Section 3 of the EMS by way of ensuring personnel are trained and therefore able to effectively retain operational control and minimise the potential for impacts on the environment. The appointment of fire wardens ensures that there are sufficient staff with specific roles in the event of an environmental emergency.

Training includes making all employees aware of the EMS policy, manual and supporting documents, and their contribution to the effectiveness of it.

## **10 Keeping Records**

Records pertinent to the operation of the site will be kept; this includes documents demonstrating compliance with the EMS (including operational procedures, maintenance requirements, accidents, incidents, non-conformances, and complaints), updates to site documents (including site condition report, specific management plans), and other records required by the EP (including waste returns, environmental monitoring data, duty of care checks etc.).

This is covered in Section 3.10 of the EMS (Documented Information). In accordance with the EP all records retained will be legible, made as soon after the activity to which they relate as is reasonably practicable, and be retained for at least 6 years from the date they were made or (in the case of records relating to off-site environmental impacts and matters that might affect the condition of the land and groundwater within the EP boundary) until the EP is surrendered.

If records are amended, the original must remain legible or be able to be retrieved. EP records will be kept on site.

A copy of the EP is kept at the site, both in hard copy and electronically, and all staff have access to it and to a copy of the Management System. Where changes are made to any site documentation in relation to procedures, this will be communicated to the site team for their information and understanding.

## 11 Management System Review

The Management System is a set of live documents which will be subject to change during the life of the site and the EP. Changes may come about as a result of one or more of the following:

- A change in process/operations that needs to be reflected in the procedures and management plans;
- A change in procedure following an incident, accident, or complaint; or
- A change in legislation or guidance that affects the activities and/or the management system.

Should any of the above occur, a review of the management system will be carried out. In any case, the EMS will be reviewed by top management at least once per calendar year.

This is covered in Section 5.3 of the EMS (Management Review). The review is carried out to ensure that the system remains suitable for the facility, is adequate and is effective in minimising the risk of pollution from the permitted activities. It is also an opportunity to review the previous years' performance in terms of non-conformities, inspections, compliance with the EP and any external communications such as complaints.

Records of all reviews are kept in accordance with Section 10 above.

## 12 Site Closure

This part of the EA management system guidance relates to operators of landfills and category A mining waste facilities so is not largely applicable. The operator will however complete the site closure parts of the Site Condition Report at the point of cessation of operations and surrender of the EP (Appendix E, Ref. CRL\_2022.01/001-3).

## 13 Communication

Section 3.9 of the EMS details the procedures, processes and other documents that relate to management of communication. This covers both internal and external communications.

With respect to internal communication, procedures are in place to ensure that relevant environmental information is communicated to all personnel that undertake work on behalf of the company, including the environmental policy, relevant aspects, relevant objectives and targets, relevant risks, roles and responsibilities, and the environmental emergency action plan. This is supported by training and awareness provision. The EMS also makes provision for the sharing of relevant information to management and operational personnel regarding incidents, non-conformances, audit feedback, monitoring results, and any amendments made to the EMS due to changes in legislation or other environmental requirements.

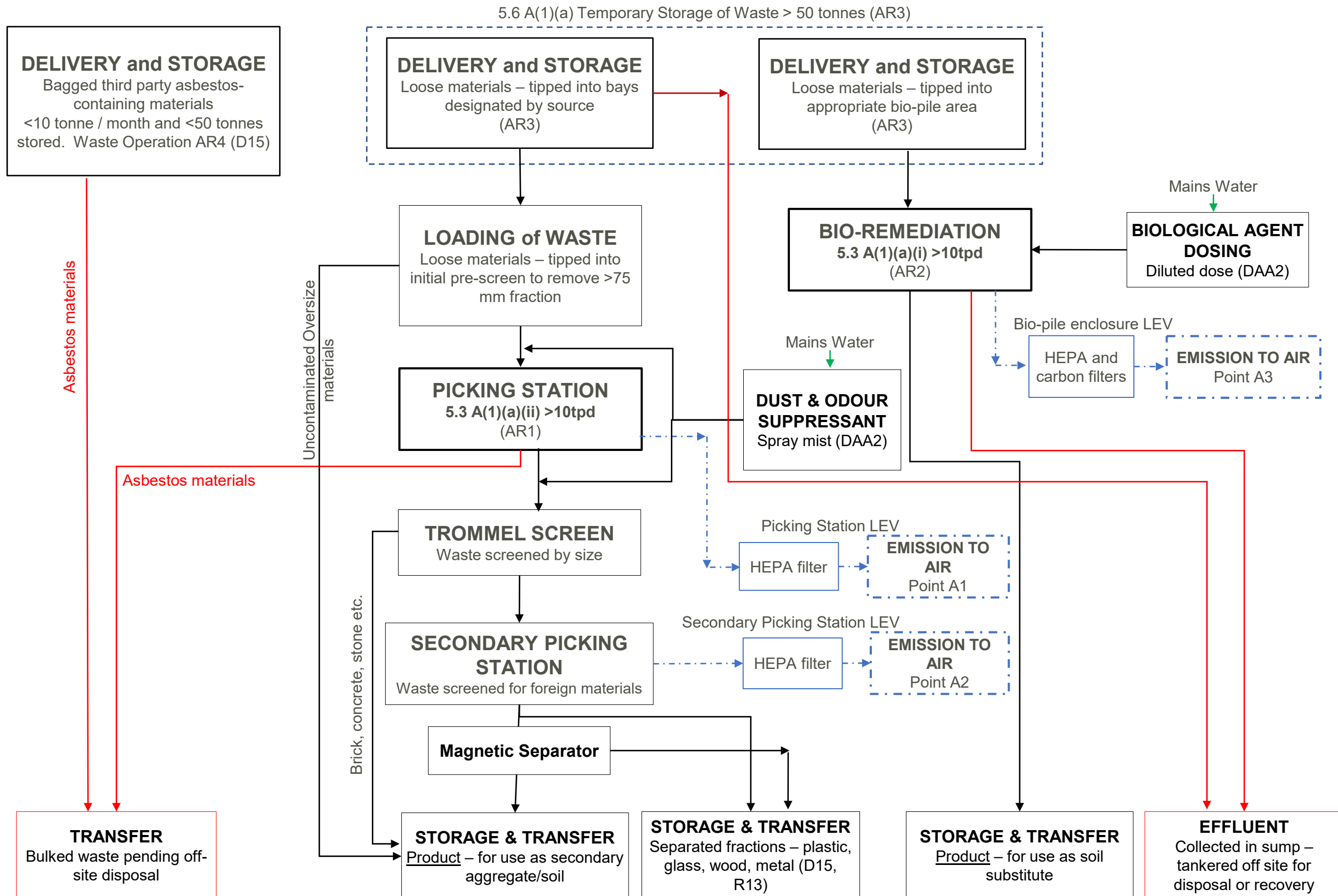
With respect to communication with external interested parties on environmental issues, the EMS sets out the type of communication, the potential external parties (regulator, key customers, neighbours, local authority etc.), and how to respond to those including how to determine the relevant course of action.

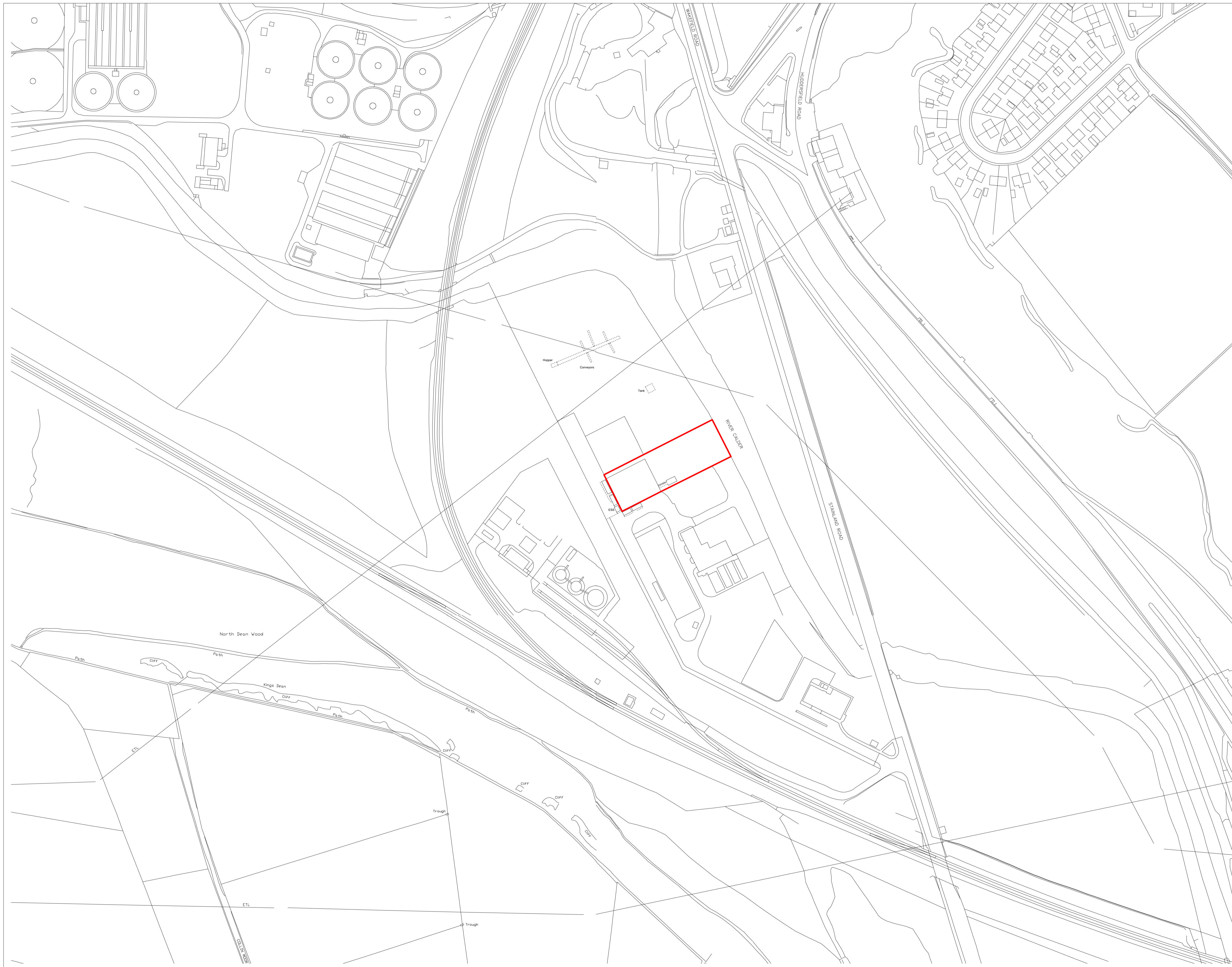


# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix D: Site Plans**

CRL\_2022.01/001 v1 February 2023





GENERAL NOTES

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— Site Boundary

PROJECT NAME:  
Calder Remediation Limited

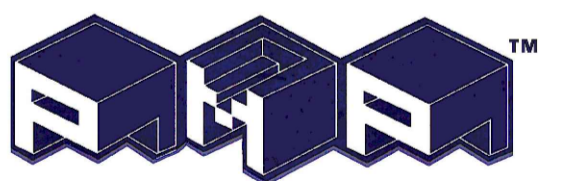
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CRL-ND-22-EP01: Site Location Plan

DRAWN BY:  
Sags

CHECKED BY:  
Sags

DATE:  
05/09/22

CLIENT  
Calder Remediation Limited



**POST MY PLANS**  
Suite G18, Genesis Centre  
Innovation Way, Stoke-on-Trent  
Staffordshire, ST6 4BF

Email: [info@postmyplans.co.uk](mailto:info@postmyplans.co.uk)  
Web: [www.postmyplans.co.uk](http://www.postmyplans.co.uk)  
Tel: 07555 291330  
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**WE DESIGN|WE PLAN|WE BUILD**

PROJECT NO:  
1555

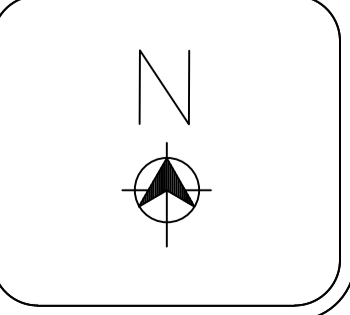
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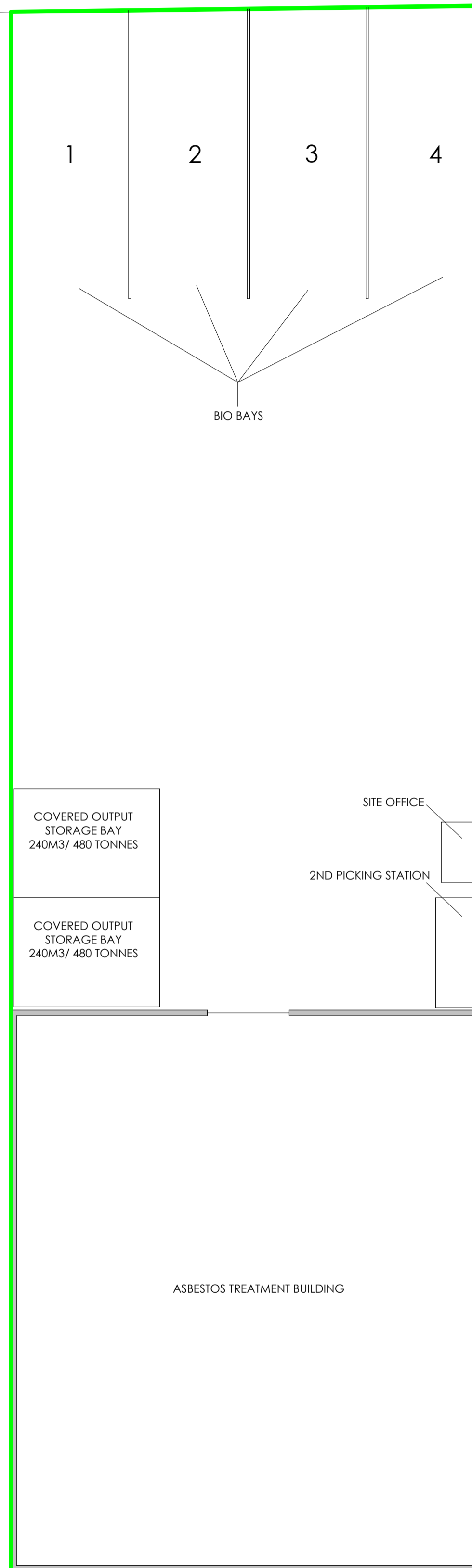
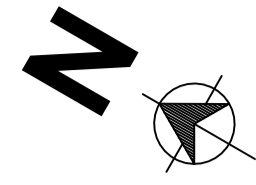
SHEET NO:  
CRL-ND-22-EP01

REVISION:  
-

UNIT:  
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# RIVER CALDER



## GENERAL NOTES

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— EP Boundary (indicative)

PROJECT NAME:  
Calder Remediation Limited

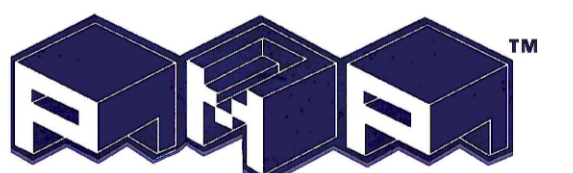
DRAWING TITLE:  
CRL-ND-22-EP02: Site Layout Plan  
(External)

DRAWN BY:  
Sags

CHECKED BY:  
Sags

DATE:  
12/12/22

CLIENT  
Calder Remediation Limited



**POST MY PLANS**  
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Tel: 07555 291330  
Social: @postmyplans

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PROJECT NO:  
1555

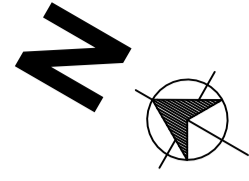
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SHEET:  
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SHEET NO:  
CRL-ND-22-EP02

REVISION:  
A

UNIT:  
mm



COVERED OUTPUT STORAGE BAY  
240M3/ 480 TONNES

COVERED OUTPUT STORAGE BAY  
240M3/ 480 TONNES

2ND PICKING STATION

CONVEYOR

ROLLER ACCESS DOOR

BAY 1  
CAPACITY- 240M3/  
450 TONNES

TROMMEL SCREEN

BAY 2  
CAPACITY- 240M3/  
450 TONNES

CONVEYOR

SEALED BIN FOR HAND PICKED  
ASBESTOS STORAGE 30M3

BAY 3  
CAPACITY- 240M3/  
450 TONNES

MACHINE  
MOVEMENT  
AREA

ASBESTOS  
PICKING STATION

BAY 4  
CAPACITY- 240M3/  
450 TONNES

CONVEYOR

BAY 5  
CAPACITY- 400M3/  
750 TONNES

PRE SCREEN

BAY 6  
QUARANTINE BAY  
120M3/ 220 TONNES

GENERAL NOTES

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— EP Boundary (indicative)

● Air Monitoring Point

PROJECT NAME:  
Calder Remediation Limited

DRAWING TITLE:  
CRL-ND-22-EP02: Site Layout Plan  
(Internal)

DRAWN BY:  
Sags

CHECKED BY:  
Sags

DATE:  
12/12/22

CLIENT  
Calder Remediation Limited



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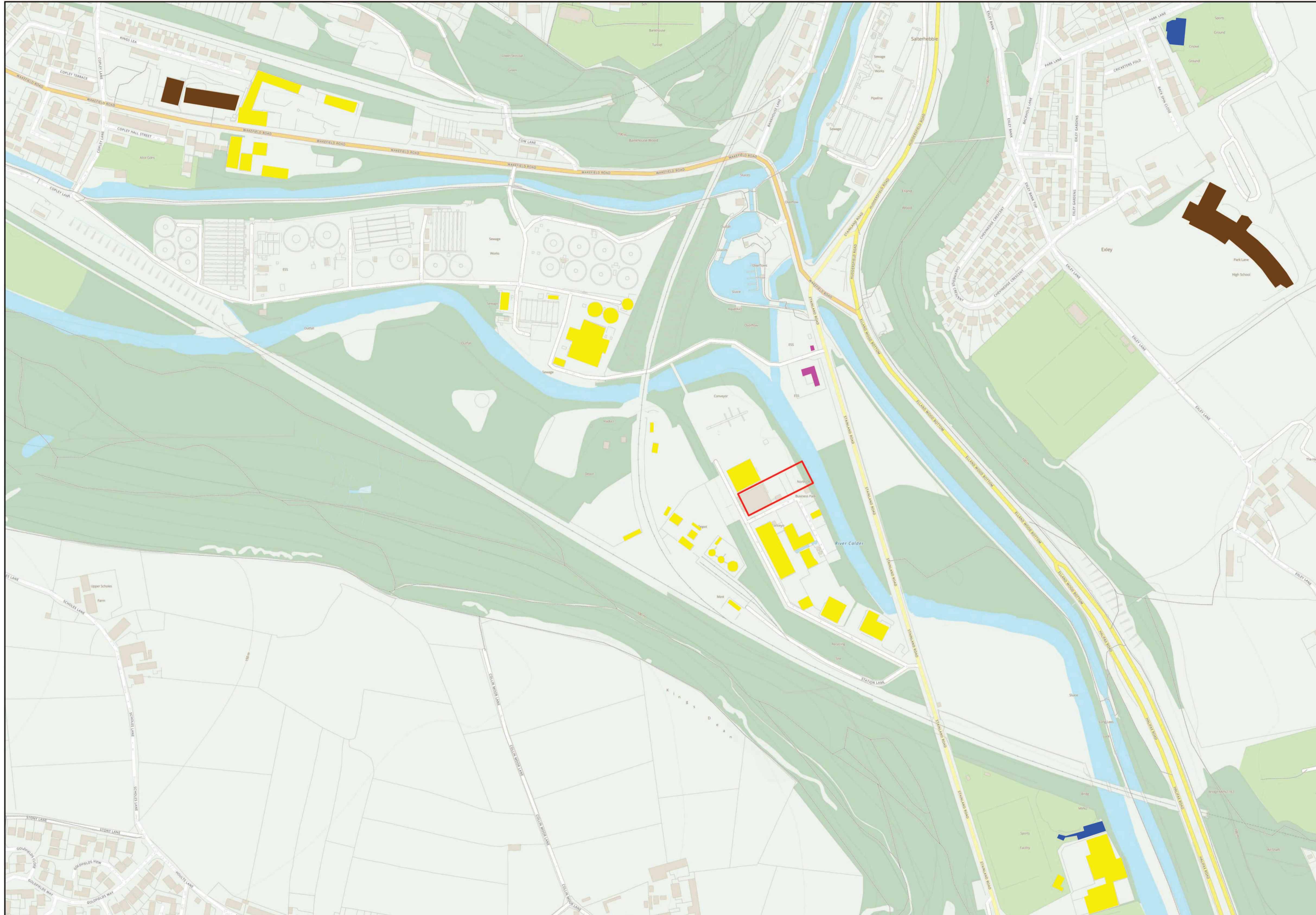
SCALE:  
1-100

SHEET:  
A1

SHEET NO:  
CRL-ND-22-EP02B

REVISION:  
A

UNIT:  
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GENERAL NOTES

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-  Site Boundary
-  Residential
-  Commercial/Industrial
-  Watercourses
-  Green/Open spaces
-  School
-  Woods
-  Sports Facility
-  Electrical Sub Station

PROJECT NAME:  
Calder Remediation Limited

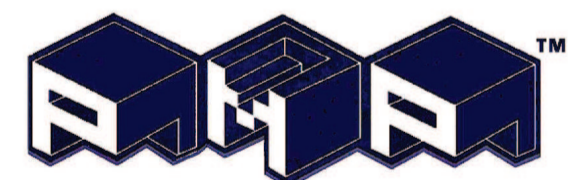
DRAWING TITLE:  
CRL-ND-22-EP03: Site Sensitivity Plan

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1-2500

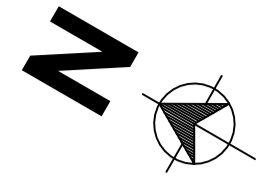
SHEET:  
A1

SHEET NO:  
CRL-ND-22-EP02

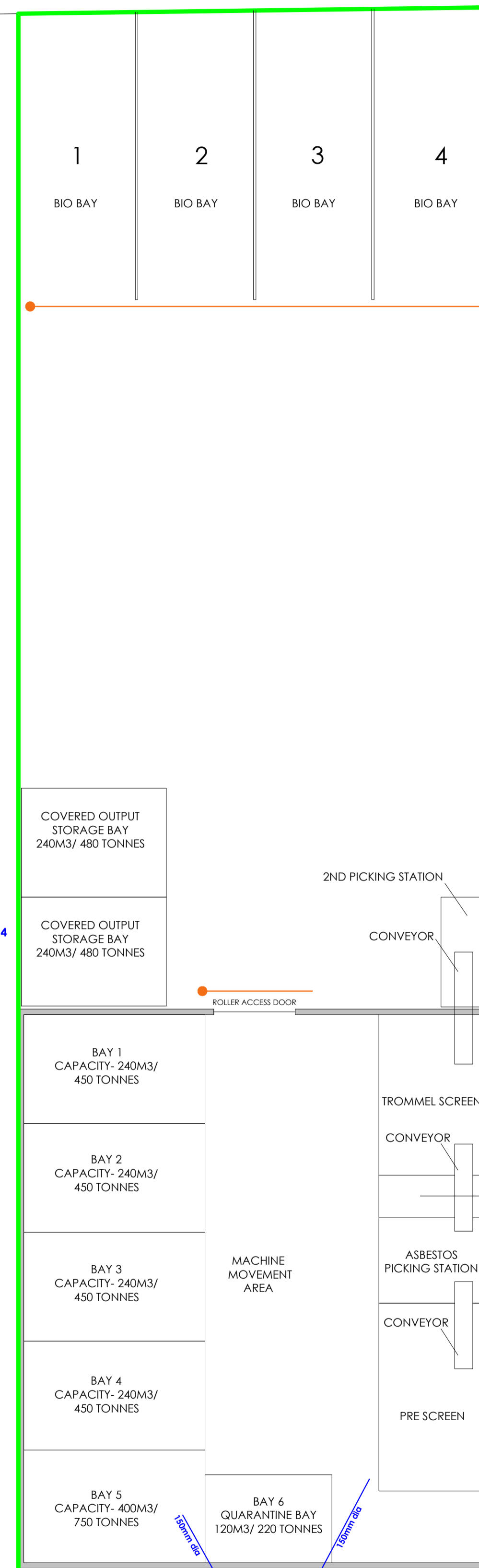
REVISION:  
-

UNIT:  
mm

RIVER CALDER



Tank



GENERAL NOTES

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- EP Boundary (indicative)
- Drainage Channel to Sump
- Underground Drainage
- MH Manhole

PROJECT NAME:  
Calder Remediation Limited

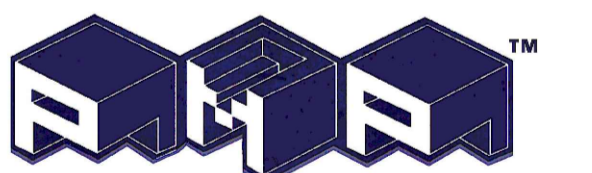
DRAWING TITLE:  
CRL-ND-22-EP04: Site Drainage Plan

DRAWN BY:  
Sags

CHECKED BY:  
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DATE:  
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1555

SCALE:  
1-200

SHEET:  
A1

SHEET NO:  
CRL-ND-22-EP04

REVISION:  
-

UNIT:  
mm

ESS

# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix E: Site Condition Report**

CRL\_2022.01/001-3 v1 February 2023



<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Installation EP Application</b> <b>Appendix E: Site Condition Report</b> <b>Document reference: CRL_2022.01/001-3_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: PSC@environment-agency.gov.uk
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# 1 INTRODUCTION

## 1.1 General

Calder Remediation Ltd (the ‘applicant’) has requested that Reva Environmental Ltd (the ‘agent’) prepares an Environmental Permit (EP) application, for a new installation at North Dean Business Park, Halifax, HX4 8LR.

At the time of writing this report, there is a permitted facility currently in operation at this location; the EP holder is MJB Plant Hire and Excavations Ltd. A partial surrender application has been submitted in parallel with this ASC application, to surrender the area of land that will be leased to the applicant. The reference for that partial surrender is EPR/HP3296EW/A002.

Future references to ‘the site’ refer to the area that is the subject of this new application; the ‘wider site’ refers to the remaining permitted MJB operations to the north.

The site is in a commercial/industrial area, at National Grid Reference SE 09529 22095. The site setting is described on **Drawing CRL-ND22-EP03** provided in **Appendix D** of this application (2022). The access route to the facility is shared with the wider site and is from Station Lane to the south.

The facility will comprise two waste treatment and recovery activities, both facilitating the recovery of hazardous soils. These are:

- The remediation of asbestos-containing soils arising from the redevelopment of brownfield sites across the UK. The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. It does not include the treatment of waste containing hazardous levels of fibrous asbestos. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It includes all asbestos containing materials at hazardous levels above 0.1% w/w. Levels below 0.1% w/w will be deemed non-hazardous and not suitable for treatment.
- The remediation of waste soils containing elevated levels of hydrocarbon. This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

In addition to these listed (installation) activities, the application is for the receipt, bulking and onward transfer of specified asbestos waste without treatment. This will be a small-scale activity, carried very much ancillary to the proposed activities above.

The application includes the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing soils treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be out in the yard area. There will be four (covered) treatment bays each

able to hold up to 700 tonnes. These are processed on a two to four week cycle depending on treatment; up to 100,000 tonnes per year.

- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2000 tonnes at any one time, across 6 bays within the building. An additional two covered output bays for screened materials will provide storage of a further 600 tonnes. The latter are emptied daily as the materials are produced and tested prior to transfer off site. A covered asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity.
- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This will be limited to specified waste codes, received from third party waste contractors, and storage will be within the building in the covered skip referred to above. The waste will be both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D15) or recovery (R13) activities;
- Management of process effluent from listed activities AR1 and AR2 using drainage channels and collection sumps and transfer off site for testing and disposal or recovery depending on the quality; and
- Management of uncontaminated surface (roof and clean yard) water.

This Site Condition Report (SCR) has been written to support the EP application; it is a requirement for new waste facilities to provide information on the 'baseline' condition. The SCR has been produced following the EA's H5 guidance and a copy of the H5 form, Sections 1 – 3 completed as required, is provided in **Annex SCR1**. The SCR Form H5 provided in Annex SCR1 is a live document and sections 4 to 7 will be updated during the lifetime of the site; sections 8 to 10 will be completed at the point of surrender.

The purpose of the SCR is to describe the condition of the land and groundwater at the point of making the EP application. It is used to provide a baseline against which the conditions of the land and groundwater can be compared, at the point of surrendering the EP. It enables the applicant to demonstrate that both have been protected during the lifetime of the site and that the land is in a satisfactory state at surrender.

A data search has been carried out for the application (ref. Landmark Information Group, Envirocheck Report, 299586741\_1\_1, 9 August 2022) and this provides much of the information about the site that is presented in this SCR.

## 1.2 Site Location

The site is located approximately 3 km to the south of Halifax town centre. It sits in a commercial area and occupies land that was a water treatment works. It is bounded to the south by a WasteCare (battery treatment) facility, to the north and east by the River Calder, and to the west by a railway line and an oil storage depot.

The key features of the surrounding area are summarised in **Table SCR1**.

**Table SCR1: Features within 1 km**

Direction	Features
North	<ul style="list-style-type: none"> <li>• MJB Excavations and Plant Hire lies immediately to the north and fills the northern extend of North Dean Business Park</li> <li>• The River Calder runs parallel with the site to the north at approximately 150 m</li> <li>• A sewage works lies to the north, immediately beyond the River Calder, at approximately 200 m at its closest point</li> <li>• The Calder and Hebble Navigation (canal) runs parallel with the River Calder to the north, the other side of the sewage works. Beyond this is Wakefield Road (A6026)</li> <li>• The town of Exley is to the northeast, beyond the river, the canal, and the A629 Halifax Road. The closest part of the residential area is at 250 m</li> <li>• Park Lane High School is in Exley and is approximately 500 m to the northeast</li> <li>• A large residential area (Skircoat) lies beyond Wakefield Road, and includes two schools, the closest of which is 500 m to the north of the site</li> <li>• The Calderdale Royal Hospital is also located in this area, at 900 m to the north</li> <li>• To the northwest, beyond the sewage works there is a recreation ground which lies in the intersection between the River Calder and the railway line. To the north of the same run of railway line, beyond the sewage works and the canal there are allotment gardens, at 750 m from the site</li> </ul>
East	<ul style="list-style-type: none"> <li>• The River Calder runs parallel with the site, immediately to the east</li> <li>• Wakefield Road crosses Stainland road to the northeast, then Stainland road runs north to south at approximately 100 m to the east</li> <li>• The Calder and Hebble Navigation (canal) runs parallel with the River Calder to the east, the other side of Stainland Road, at approximately 200 m</li> <li>• There are several small areas of residential properties (including a farmhouse) beyond the A629 Halifax Road, the closest of which is The Henhouse at 500.</li> <li>• There is a cemetery (Elland Cemetery) beyond Halifax Road, to the southeast at 700 m</li> <li>• The majority of the land to the east of the site is open fields and some areas of woodland, with a network of public footpaths</li> </ul>
South	<ul style="list-style-type: none"> <li>• Other commercial and industrial units lie immediately to the south, within the same business park. This extends approximately 250 m to the south where it is curtailed by the railway line that runs west to east</li> <li>• The southern border of the business park is an area of grassland with trees beyond which is Station Lane, the access road to the business park</li> <li>• There is a large area of grassland and woodland (the eastern extent of North Dean Wood) which borders the other side of the railway line, as far as Lindwell which is a mixed residential and commercial area lying at approximately 500 m at its closest point</li> <li>• Beyond Lindwell is another residential area, Cross Hill which borders the town of Elland. Elland lies at 1 km to the south of the site, beyond Saddleworth Road (B6114).</li> <li>• The River Calder bends to the east at just outside of 1 km to the south of the site</li> </ul>

West	<ul style="list-style-type: none"><li>• Other commercial and industrial units lie to the west, the other side of station lane</li><li>• The western edge of the park is bordered by the railway line (and viaduct portion at approximately 180 m from the site)</li><li>• Beyond the railway line to the west, extending for more than 1 km is North Dean Wood. This is a public open area with a network of footpaths and areas of woodland and is designated as Ancient Woodland.</li></ul>
------	---

The site setting in relation to potentially sensitive receptors is shown on **Drawing CRL-ND22-EP03 Site Setting**.

### 1.3 Site Layout

The site comprises an area of land with a warehouse in the western portion and an open yard area immediately adjacent in the eastern portion. Access to the site is shared with the landowner but the EP site boundary is limited to the warehouse and the yard area. The warehouse is a steel framed portal building with a concrete base and walls to approximately 2 m and a clad metal roof and upper walls. It is completely separate from the adjacent building which lies outside of the EP boundary, and has lockable doors for security. Vehicular access is from Station Road which runs along the western boundary; the access door is on the eastern side of the building which opens up onto the yard.

Once vehicles have accessed the site via Station Lane, they will bring waste material, via a weighbridge, and will then unload either into a designated bay in the warehouse building or into a (fixed covered) bio-remediation bay in the yard area. Exit from the EP area will be via the same route, including via the weighbridge.

Roof drainage and uncontaminated yard area surface water run-off is captured in a surface water drainage system which discharges to the River Calder.

The site layout is shown on **Drawing CRL-ND22-EP02 Site Layout Plan** provided in **Appendix D** of the EP application.

## 2 ENVIRONMENTAL SETTING

### 2.1 Data Sources

The following sources of data have been used to generate this SCR:

- Landmark Envirocheck dated 9 August 2022 for an area of 1 km around the site. This includes:
  - Datasheets
  - Historical Ordnance Survey Plans
  - Sensitivity Maps
  - Groundwater Maps
- Magic.gov.uk for details on habitats sites
- EA basic pre-application advice
- Google earth imaging

A copy of the Landmark reports used are provided in **Annex SCR2**.

### 2.2 Geology

The site is underlain by the Millstone Grit Group, as shown on the BGS 1:625,000 Solid Geology mapping.

There are 7 recorded historical (mining now ceased) mineral sites within 1 km of the site as follows:

- Map ID 173 – Calder and Hebble Inn, 211 m to the north. This was an opencast mine from which sandstone was historically extracted.
- Map ID 174 – Exley Hall Quarry, 317 m to the east. This was an opencast mine from which sandstone was historically extracted.
- Map ID 175 – Calder and Hebble Inn, 321 m to the north. This was an opencast mine from which sandstone was historically extracted.
- Map IDs 176 and 177 – Dean Top Delf, 502 and 512 m to the south. This was an opencast mine from which sandstone was historically extracted.
- Map ID 178 – Elland Tunnel, 565 m to the southeast. This was an opencast mine from which sandstone was historically extracted.
- Map ID 179 – Park Gate Coal Pit, 815 m to the northeast. This was an opencast mine from which coal was historically extracted.

The potential attributed to the site subject to the EP application for collapsible ground stability hazard is insignificant ('no hazard') as it is for dissolution stability hazards. The potential is moderate for compressible ground stability hazards, low for running sand ground stability hazards, and very low for landslide hazards and shrinking or swelling clay ground stability hazards. The site is in a lower probability radon area; no radon protective measures are required when constructing buildings in the area.

### 2.3 Hydrogeology

The site is situated on a combined secondary superficial aquifer, identified as being high vulnerability. It is on a productive bedrock aquifer (secondary aquifer – A) and a productive superficial aquifer (secondary aquifer – A) with well-connected fractures (a 'high' pollutant speed). The thickness of the superficial aquifer is less than 3 m and the pollutant speed is high.

The site is not within a Groundwater Source Protection Zone (SPZ); there are none designated within 1 km of the site.

According to the groundwater flooding map (in Annex SCR2), there is the potential for groundwater flooding to occur at the surface. Whilst the datasheet suggests that the site is surrounded by areas designated as being at risk of extreme flooding from Rivers or sea without defences, the surface water flooding map identifies the site as being not at risk of flooding; the closest designation is the River Calder to the east which is designed as being high risk.

There is 1 groundwater abstraction recorded within 1 km of the site:

- John Horsfall & Sons (Greetland) Ltd. Surface water extraction from a borehole in the Millstone Grit, used for 'general use'. The borehole is located 975 m to the south.

No license end date has been supplied so it is not clear if this is an active abstraction or not.

### 2.4 Surface Waters

The closest surface water feature is the River Calder which adjacent to the east of the site; the landmark report cites it as being 10 m from the boundary.

The river quality at the closest measured point (30 m to the north of the site) is GQA grade D which is defined as 'Fair'. The flow rate at this point is given as less than 5 m<sup>3</sup>/s and the data relates to measurements taken in 2000. There are 2 surface water abstractions recorded within 1 km of the site:

- Cyclotech Environmental Ltd. Surface water abstraction from Black Brook-Greetland, used for mineral washing. Abstraction from a single point at 730 m to the south of the site. The abstraction is limited to 1 m<sup>3</sup>/day and 270 m<sup>3</sup>/year.
- Canal and River Trust. Surface waste abstraction from Hebble Brook at Salterhebble, used to supply to the canal for throughflow.

No license end dates have been supplied so it is not clear if these are active abstractions or not.

## 2.5 Sensitive Receptors

Sensitive receptors are considered to be those within 1 km of the site; this is the screening distance used for the Landmark report. Some receptors are more sensitive than others, for example a residential area is likely to be more sensitive than an industrial estate.

In addition to this, the EA has carried out nature and heritage conservation screening for the site, as part of the pre-application service. A copy of the screening report is provided in **Appendix A** of the application and identifies a number of receptors based on the extended screening distance applied for a waste installation. These are as follows:

- The South Pennine Moors – designated as a Special Area of Conservation (SAC) and a Special Protection Area (SPA) and located within 10 km of the site;
- Scarr & Long Woods – designated as a Local Nature Reserve (LNR) and a Local Wildlife Site (LWS) and located within 2 km of the site;
- Elland Park Wood, and North Dean Wood - both designated as an LWS and Ancient Woodland and within 2 km of the site;
- Calder and Hebble Navigation, and Rochdale Canal - both designated as an LWS and within 2 km of the site; and
- Long Wood – designated as Ancient Woodland and within 2 km of the site.

These sites are considered in the Environmental Risk Assessment (ERA), a copy of which is provided in **Appendix G** of the EP application (ref. CRL\_2022.01/001-5).

The site is not designated as a nitrate vulnerable zone (NVZ).

## 3 Current Site Conditions

### 3.1 General

The southern warehouse and adjacent yard area, that are the subject of this application, are currently used for a soil screening process comprising size segregation and screening of recyclables such as plastic and metal. The existing warehouse will remain in place, as will the fixed plant that is currently in use. A partial surrender application is being made in parallel with this new application, for the warehouse area. The yard area included in this application is not currently subject to an EP as no waste activities are undertaken in it.

The site layout, in terms of the warehouse, yard, and access will not be inherently changed by the new EP. There will be some level of refurbishment of the building, including the construction of bay walls to define storage areas, and the installation of a new picking station cabin (with filtered LEV) within the warehouse between the existing loading unit and trommel screen. The yard area will be the most altered, with an area being constructed for the bio-remediation bays of which there will be four. They will benefit from a fixed cover/roof, and tarpaulin system to the front of the bays, and will have a sealed drainage system to collect effluent and direct it to a sump for collection and transfer off site for disposal. A full description is given in the wider application, primarily the BAT Assessment in **Appendix H** (ref. CRL\_2022.01/001-6\_v1). The site layout is detailed on **Drawing CRL-ND22-EP02** in **Appendix D**.

The site is currently in a good state of repair in terms of the access road, yard area, the warehouse building and plant/equipment. Flooring within the warehouse is concrete hard-standing throughout and is in a good condition, with no areas of obvious damage visible. There is a single block wall within the warehouse; this will be removed as part of the refurbishment work referred to above, in order to make room for the proposed bays.



Whilst the walls and roof are in a reasonably good state of repair, the applicant intends to replace the walls to the north, east and west to increase the waste storage capacity (stockpiling height) within the warehouse. Several the solid roof panels will also be removed and replaced with transparent panels to allow natural light through.

There is no connection to sewer or surface water drain from the building.

The yard area also benefits from concrete hard standing, with slopes to drain. Currently all drains go to surface water (River Calder) as the run-off is uncontaminated. With the installation of the bio-remediation bays, whilst the fixed roof will mean that rainwater runoff can be drained to the existing system (or collected for re-use), a separate drainage channel will be installed along the front of the bays and will drain to a dedicated sump. This will keep the process effluent away from the surface water management system.

### 3.2 Groundwater Quality

The site is not in a Groundwater Source Protection Zone (SPZ), there are no groundwater abstractions at the site, nor are there any point source emissions to groundwater.

Groundwater under the site has not been characterised for the purposes of this report. The Landmark Envirocheck report (datasheet) does however provides BGS information on the estimated soil chemistry of the area, including arsenic, cadmium, chromium, lead, and nickel. This information would be used to compare against, should data be collected at the point of EP surrender.

### 3.3 Vegetation

The site is located within an operational industrial environment; the northern and southern boundaries are open to the adjacent operations in terms of vegetation. There is, however, screening directly to the east of the site formed by established trees that line the banks of the River Calder. There is also a narrow line of trees that border the access road to the west.

### 3.4 Potentially contaminating activities

As detailed in Section 3.1 the EP area is currently used for a soil screening process comprising size segregation and screening of recyclables such as plastic and metal. There are no point source emissions from the current activities, and no effluent that requires separation from the surface water run-off.

The drainage system is detailed on **Drawing CRL-ND22-EP04 Site Drainage Plan**; this comprises a surface water system in the yard area.

### 3.5 Discharge Consents

There are no recorded discharge consents at the site.

### 3.6 Surrounding Land Uses

#### 3.6.1 EA Permitted Activities

There are three sites within 1 km which are regulated and operated under an Environment Agency issued IPPC permit. These are detailed in **Table SCR2**.

**Table SCR2: IPPC Regulated Activities within 1km**

Operator	EP Reference	EP Issue Date	Description	Distance & Direction
Yorkshire Water Services Ltd	JP3135MW	Not supplied*	North Dean sludge treatment facility – 5.3A(1)(c)(ii) treatment of non-hazardous waste >50 tpd by physico-chemical treatment	10 m NE
WasteCare Limited	VP3737QB	17.12.2020	Battery treatment facility – 5.3A(1)(a)(ii) disposal or recovery of hazardous waste >10 tpd by physico-chemical treatment; and 5.6A(1)(a) – temporary storage of hazardous waste >50 tonnes	67 m S
Yorkshire Water Services Ltd	LP3339VV (was UP3634LF)	26.02.2014	Copley sewage sludge treatment plant - 5.4A(1)(a)(ii) disposal of non-hazardous waste >50 tpd by physico-chemical treatment	285 m NW

\*this EP is not showing on the gov.uk public register – it is possible that it has been surrendered.

A full list of IPPC regulated facilities, including those that are inactive but will have operated historically, is included in the datasheet in **Annex SCR2**.

### 3.6.2 LA PPC Activities

There is just one LA PPC (Local Authority regulated) facility reported in the Landmark Envirocheck as being currently authorised/permited within 1 km of the site, as follows:

- Shell Salterhebble. This is a petrol filling station located at Salterhebble Hill, some 804 m to the north of the site. The permit was issued on 6 November 1998, ref. 134.

### 3.6.3 Landfill Activities

There are no active landfill sites listed within 1 km of the site.

There are 11 historical landfill sites recorded, one of which was within the site boundary and associated with the sewage treatment works that historically occupied the land. No waste input dates are provided but the waste is defined as ‘including liquid sludge’.

A full list of the historical landfill sites is included in the datasheet in **Annex SCR2** (map ID ref. 139 to 149).

### 3.6.4 Discharge Consents

There are ten active discharge consents reported in the Landmark Envirocheck report within 1 km of the site; all but three of these are related to Yorkshire Water Services Ltd. These are presented in **Table SCR3**.

**Table SCR3: Discharge Consents**

Operator	Location	Permit & Issue Date	Discharge Type	Receiving Water	Distance & Direction
Yorkshire Water Services Ltd	Halifax Copley sewage disposal works	Wra7510 issued 09.02.2022	Stw storm overflow – water	River Calder and Hebble Brook	252 m N & 346 m NW & 659 m N

			company		
British Waterways Board	Salterhebble Lock House	1241 issued 18.12.1998	Final/treated effluent – water company	Calder and Hebble Navigation	244 m N
Mr. Haydn Hiley	Exley Hall Farm	C3873 issued 26.07.2012	Final/treated effluent – crop/animal rearing	Soakaway	613 m E
North Dean Automotive Ltd	North Dean Garage, Stainland Road	2003 issued 12.11.1965	Final/treated effluent	Black Brook	736 m S
Yorkshire Water Services Ltd	Rochdale Road	Wra8442 v2 issued 26.03.2018	Stw storm overflow – water company	Black Brook	769 m S
Yorkshire Water Services Ltd	Hoults Lane	Wra8440 v2 issued 19.03.2018	Stw storm overflow – water company	Black Brook	769 m S
Yorkshire Water Services Ltd	Hoyles Memorial Gardens	EPR/UP332 OGE/V002 issued 26.10.2017	Stw storm overflow – water company	Black Brook	795 m S
Yorkshire Water Services Ltd	Brow Bridge	Wra9266 v2 issued 26.02.2018	Stw storm overflow – water company	Black Brook	804 m S
Yorkshire Water Services Ltd	West Vale, Saddleworth	EPR/SB3590 WC	Stw storm overflow – water company	Black Brook	951 m S
Yorkshire Water Services Ltd	YWS ‘unknown sites’	2515 issued 13.06.1969	Stw storm overflow – water company	Calder and tributaries	959 m S

### 3.6.5 Trade Directory Entries

The Landmark report lists all Trade Directory Entries and Fuel Station Entries. Those that are active, within 1 km of the site, and carry out potentially contaminative activities, are presented in **Table SCR4**.

**Table SCR4: Trade Directory and Fuel Station Entries within 250 m**

Name	Activity	Distance & Direction
Halifax Commercial Vehicle Repairs Ltd	Garage services	18 m NW
T M Haulage and Excavation	Road haulage services	19 m NW

Pulsonic Technologies	Manufacturer of flow measurement systems	53 m S
Townson Thomber	Oil fuel distributors	82 m SW
H R G	Road haulage services	728 m NW
Park Garage	Garage services	741 m S
D Pitchforth Ltd	Garage services	742 m S
North Dean Automotive Ltd	Car body repairs	766 m S
Hodgson Heating Ltd	Servicing and repair of catering equipment	803 m NW
Shell Salterhebble	Petrol filling station	817 m N
Calder Valley Grab & Tip Hire Ltd	Waste disposal services	830 m NW
Clapham Agricultural Engineering Ltd	Agricultural engineers	864 m SW
Habitat Unique Ltd	Lighting manufacturer	901 m S
Halifax Panelcraft	Car body repairs	962 m S
Sunside Services	Garage services	987 m S
Brookes Cleaners	Laundries and Launderettes	99 2m NW

A full list of entries within 1 km of the site, including those that are inactive but will have operated historically, is included in the datasheet in **Annex SCR2** (Map ID: 180 to 231).

### 3.6.6 Hazardous Substances

The Landmark Envirocheck Report identified the following within 1 km of the site:

- 1 active COMAH (Control of Major Accident Hazards) sites:
  - Operated by Bayford & Co Ltd. This is a Lower Tier COMAH site located on Station Lane, 83 m to the southwest of the application site

No planning hazardous substance consents, or enforcements are recorded within 1 km of the site. No active explosive sites were identified, nor any active notifications of installations handling hazardous substances (NIHHS).

## 4 HISTORICAL LAND USES

### 4.1 Data Sources

Historical information has been obtained from historical maps and aerial photography presented within the Landmark Envirocheck Report:

- 1:1,250 scale maps dated: 1960, 1960 – 1980, 1974, 1975 – 1976, 1986 – 1989, 1989, and 1993;
- 1:2,500 scale maps dated: 1893, 1907, 1919 – 1922, 1933, 1961, and 1999 (aerial photography);
- 1:10,000 scale maps dated: 1956, 1967 – 1969, 1975, 1978 (partial), 1982 – 1983, 1984 (site area not covered), 1990 (site area not covered), 2000, 2006, and 2021; and
- 1:10,560 scale maps dated: 1854, 1894, 1908, 1930, 1938, and 1948.

## 4.2 On Site Activities

The earliest mapping of the site (1:10,560) dates to 1854, which shows it as undeveloped. The 1:2,500 map for 1919-1922 still shows it to be undeveloped. By 1930 the 1:10,560 map shows it to be partially located on an area of ‘sludge beds’. By 1933, the 1:2,500 map shows this to still be the case and identifies it as one of a network of sludge beds extending to the north and to the east.

By 1961 the area of, and immediately surrounding, the site is marked as a ‘works’ (1961 1:2,500 map). The same scale map for 1960–1980 shows the site comprising part of the North Dean Works (Water Pollution Control); the western and northern parts showing buildings, the southern part tanks/lagoons. The latest map prior to 1961 is the 1:10,000 map for 1956 and at that point the site is still marked as sludge beds.

It remains labelled as the North Dean Works up to the 1993 (1:1,250) map, and its presence is shown up until 2006 by the 1:10,000 map.

The first evidence of the existing use of the site is the 1:10,000 map for 2021 which shows the water works now gone and the area marked as ‘North Dean Business Park’. Buildings remain, including one in the western part of the EP site, and appear to be of the same orientation and size as those mapped for the water works. It is therefore possible that the existing warehouse is the building that dates back to circa 1961.

## 4.3 Off Site Activities

Historical Ordnance Survey maps indicate a number of historical activities within a 1 km radius of the site; these are summarised in **Table SCR5**.

**Table SCR5: Historical Off Site Activities**

Date(s) and scale	Description
1854 1:10,560	The immediate area is undeveloped fields, with an embankment at the eastern boundary (to the River Calder). The existing railway line is already built and North Dean Station is located approximately 125 m to the south. The Calder and Hebble Navigation (canal) is as currently mapped, as is Wakefield Road, both to the east. North Dean Wood is as currently mapped, to the west of the site, extending to the south. A number of isolated properties can be seen including Calder and Hebble Inn to the northeast at approximately 250 m. Exley Hall is located approximately 550 m to the east. A sandstone quarry is marked to the southeast, beyond the River Calder and the canal, at approximately 550 m. Residential areas of Lindwell and Brow Bridge are marked to the south at approximately 250 m at their closest.
1893 1:2,500	This map doesn’t extend to the full 1 km buffer. What can be seen is North Dean Chemical Works, located to the northwest, beyond the River Calder, at approximately 220 m.
1894 1:10,560	This is as per the previous maps, but shows more detail in terms of residential areas, specifically Skircoat which is to the northwest and includes a school and church at approximately 550 m, and Copley to the west just beyond the 1 km buffer. A dye works is marked at 1 km, the site side of Copley.
1907 1:2,500	This map doesn’t extend to the full 1 km buffer. At 100 m to the south of the site, there are a number of small buildings but these are un-labelled.
1908 1:10,560	The residential areas of Lindwell and Brow Bridge have increased in size, to the south. A grease works is located to the southeast at approximately 600 m. Copley Hall and a school near it are marked to the northwest, at approximately 800 m. A cricket ground is not marked to the northeast, in Exley, at approximately

	700 m.
1919-1922 1:2,500	This map doesn't extend to the full 1 km buffer so details are limited. A 'zoological garden' is marked to the north west at approximately 250 m.
1930 1:10,560	A large sewage works is now shown, to the northwest beyond the River Calder and railway line (viaduct section) at approximately 225 m. This is the first map where St Luke's hospital is shown, 950 m to the north at its closest and extending northwards. It may pre-date this however earlier maps have not extended to the full 1 km buffer so it has not been visible.
1933 1:2,500	This map doesn't extend to the full 1 km buffer. Further detail of the sewage works to the north is visible, showing that the southern most part of it is a series of filter beds and humus (final settlement) tanks. The area to the northeast previously identified as zoological gardens is now labelled as a football ground.
1938 1:10,560	No significant changes are noted since the previous map.
1948 1:10,560	The residential area around Skircoat green has increased in terms of density of housing from that shown in the previous map.
1956 1:10,000	A new school is now marked to the northeast at approximately 600 m, just beyond Lower Exley.
1960 1:1,250	This map doesn't extend to the full 1 km buffer. No significant changes are noted since the previous map.
1961 1:2,500	This map doesn't extend to the full 1 km buffer. No significant changes are noted since the previous map.
1960-1980 1:1,250	North Dean Works (water pollution control) is now shown on the map, covering the EP area and the immediate surroundings to the north and the south, to the extent of the 100 m buffer. An oil storage depot is now also marked to the southwest, within 20 m.
1967-1969 1:10,000	This map is largely unchanged from the 1956 map, with the exception of the school to the northeast having a series of tennis courts marked next to it, and the football ground to the northeast being renamed as a recreation ground. The site area and immediate land is still marked as works so the development of this to the North Dean Works must have happened between 1969 – 1980 (see entry above for 1960 – 1980)
1974 1:1,250	This map doesn't extend to the full 1 km buffer. This shows partial development of the North Dean Works, further narrowing down the construction period to between 1974 and 1980.
1975-1976 1:1,250	This map doesn't extend to the full 1 km buffer. No significant changes are noted since the previous map.
1978 1:10,000	Partial map only, covering on the eastern portion between 500 m – 1 km from the site. No new features are apparent.
1982-1983 1:10,000	This map remains largely unchanged from the previous recent maps; the North Dean Works are fully constructed by this time.
1986-1989 1:1,250	Partial map only. No new features are apparent.
1989 1:1,250	Partial map only. No new features are apparent.

1990 1:10,000	Partial map only, covering on the eastern portion between 500 m – 1 km from the site. No new features are apparent.
1993 1:1,250	This map doesn't extend to the full 1 km buffer. No new features are apparent.
1999 Aerial photograph	No significant changes are noted from the previous most recent full mapping.
2000 1:10,000	No significant changes are noted from the previous most recent full mapping.
2006 1:10,000	No significant changes are noted from the previous most recent full mapping.
2021 1:10,000	No significant changes are noted from the previous most recent full mapping.

#### 4.4 Pollution Incidents

A number of incidents to controlled waters are reported in the Landmark Envirocheck report (Map ID 19 to 43), along with substantiated pollution incidents (Map ID 46 to 48). Substantiated incidents reported within 1 km of the site are presented in **Table SCR6**.

**Table SCR6: Substantiated Pollution Incidents within 1 km**

Pollutant	Incident Date & Category	Distance & Direction
Storm sewage	23.08.2010 Category 2 – Significant incident (impact to water)	249 m N
Sewage materials – final effluent	27.04.2013 Category 2 – Significant incident (impact to water)	314 m NW
Sewage materials – final effluent	16.11.2007 Category 2 – Significant incident (impact to water)	314 m NW
Sewage materials – final effluent	08.11.2006 Category 2 – Significant incident (impact to water)	317 m NW
Sewage materials – final effluent	09.03.2011 Category 2 – Significant incident (impact to water)	323 m NW
Sewage materials – final effluent	24.04.2007 Category 1 – Major incident (impact to water)	338 m NW
Crude sewage	19.10.2002 Category 2 – Significant incident (impact to water)	601 m N
Storm sewage	12.08.2005 Category 2 – Significant incident (impact to water)	603 m N
Crude sewage	24.08.2006 Category 2 – Significant incident (impact to water)	638 m N

The Landmark datasheet that lists all pollution incidents, including those to controlled waters, is provided in **Annex SRC2**.

## 4.5 Historic Contamination

Based on the location of the site and the historical industrial activities that have taken place in close proximity to the site, it is considered that there is the potential for ground and groundwater to be contaminated, however this would be limited to contaminants specific to primarily the waste-water treatment processes; this is distinct from any potential contamination from the proposed activities.

The site is not within a Groundwater Source Protection Zone (SPZ); there are none designated within 1 km of the site. The site is situated on a combined secondary superficial aquifer, identified as being high vulnerability. It is on a productive bedrock aquifer (secondary aquifer – A) and a productive superficial aquifer (secondary aquifer – A) with well-connected fractures (a ‘high’ pollutant speed).

According to the groundwater flooding map (in Annex SCR2), there is the potential for groundwater flooding to occur at the surface. Whilst the datasheet suggests that the site is surrounded by areas designated as being at risk of extreme flooding from Rivers or sea without defences, the surface water flooding map identifies the site as being not at risk of flooding; the closest designation is the River Calder to the east which is designed as being high risk.

There have not been any reported pollution incidents at the site; nor in the locality since 2013 (in relation to land or water which could contribute to long term contamination) which suggests that through the regulation of sites, pollution has been prevented.

## 4.6 Baseline Data

No site investigation has been carried out by the applicant for the purposes of this SCR. No borehole data is available for the land occupied by the site. The Landmark Envirocheck report (datasheet) provides BGS information on the soil chemistry of the area, including arsenic, cadmium, chromium, lead and nickel. This information would be used to compare against, should data be collected at the point of EP surrender.

## 5 CONCLUSIONS

Whilst there have not been any reported pollution incidents in the locality since 2013 (in relation to land or water which could contribute to long term contamination), it is considered possible that groundwater beneath the site could have been impacted, for the following reasons:

- The site is surrounded by industrial and commercial development; the historical and current use of the area includes activities that typically have the potential to pollute (storage and use of fuels, chemicals (dye works, grease works), production of effluents etc.); and
- The site is situated on a combined superficial and bedrock aquifer which is recorded as being a productive bedrock aquifer with well-connected fractures (a ‘high’ pollutant speed). This provides any contamination with a pathway; and

It is however recognised that the existing warehouse building and yard areas are in good condition, and that remediation of underground features from the previous use as a wastewater treatment plant has been undertaken.

In certain circumstances it is appropriate to collect baseline data. Baseline data serves to ensure that the operator of a permitted facility can identify any contamination caused during the life of the permit; it also protects the operator from being held responsible for remediating any pre-existing contamination at the point of surrender of the site EP.

Whilst there is the potential for the site to be historically contaminated, the nature of the contamination (based on the types of activities carried out around the site historically and currently) is very different to that which would be associated with the proposed permitted activity. It is not considered necessary for the applicant to collect baseline data.



# **SITE CONDITION REPORT TEMPLATE**

For full details, see H5 *SCR guide for applicants* v2.0 4 August 2008

## **COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION**

Completed in support of Calder Remediation Limited's Environmental Permit Application for North Dean Waste Recovery Facility – EPR/GP3245QY – dated February 2023

## **DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7**

**AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.**

<b>1.0 SITE DETAILS</b>	
Name of the applicant	Calder Remediation Ltd
Activity address	Amsterdam Road North Dean Business Park Stainland Halifax HX4 8LR
National grid reference	SE 09529 22095

Document reference and dates for Site Condition Report at permit application and surrender	Site Condition Report at permit application, ref. CRL_2022.01/001_v1 dated February 2023
--	--

Document references for site plans (including location and boundaries)	<ul style="list-style-type: none"> <li>■ Drawing CRL-ND22-EP01: Site Location Plan</li> <li>■ Drawing CRL-ND22-EP02 and EP02b: Site Layout Plans</li> <li>■ Drawing CRL-ND22-EP03: Site Setting</li> <li>■ Drawing CRL-ND22-EP04: Site Drainage Plan</li> </ul> <p>All provided in Appendix D of the permit application (CRL_2022.01/001_v1) dated February 2023</p>
--	--

**Note:**

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

<b>2.0 Condition of the land at permit issue</b>	
Environmental setting including: <ul style="list-style-type: none"> <li>• geology</li> <li>• hydrogeology</li> <li>• surface waters</li> </ul>	See Sections 2.2, 2.3, and 2.4 of the Site Condition Report submitted as Appendix E of the permit application, (CRL_2022.01/001_v1) dated February 2023
Pollution history including: <ul style="list-style-type: none"> <li>• pollution incidents that may have affected land</li> <li>• historical land-uses and associated contaminants</li> </ul>	See Section 3 (Current Site Conditions) and Section 4 (Historical Land Uses) of the Site Condition Report submitted as Appendix E of the permit application, (CRL_2022.01/001_v1) dated February 2023

<ul style="list-style-type: none"> <li>any visual/olfactory evidence of existing contamination</li> <li>evidence of damage to pollution prevention measures</li> </ul>	
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	No site investigation has been undertaken; the historical land uses and potential contamination are detailed in Section 4 of the Site Condition Report submitted as Appendix E of the permit application, (CRL_2022.01/001_v1) dated February 2023
Baseline soil and groundwater reference data	N/A – none submitted
<b>Supporting information</b>	<ul style="list-style-type: none"> <li>Envirocheck Datasheet/Report (Annex SCR2 of Appendix E)</li> <li>Historical Ordnance Survey plans (Annex SCR2 of Appendix E)</li> <li>Site Sensitivity Mapping (Annex SCR2 of Appendix E)</li> <li>Groundwater Mapping (Annex SCR2 of Appendix E)</li> </ul>

<b>3.0 Permitted activities</b>	
Permitted activities	The application seeks to permit the installation and operation of two waste treatment and recovery activities, both facilitate the recovery of hazardous soils and other construction/demolition wastes. Both activities are listed activities; a further listed activity is included for the temporary storage of hazardous waste pending that treatment. A waste operation is also included to allow the receipt, bulking and onward transfer of specified asbestos waste without treatment. the permitted installation will include the storage of the treated material pending transfer off site for recovery.
Non-permitted activities undertaken	N/A – activities are all to be included in the permitted area.
Document references for: <ul style="list-style-type: none"> <li>plan showing activity layout; and</li> <li>environmental risk assessment.</li> </ul>	See:  Drawings CRL-ND22-EP02 and EP02b – Site Layout Plan in Appendix D; and Appendix G – Environmental Risk Assessment (ref. CRL_2022.01/001-5_v1) dated February 2023

**Note:**

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

<b>4.0 Changes to the activity</b>	
<b>Have there been any changes to the activity boundary?</b>	If yes, provide a plan showing the changes to the activity boundary.
<b>Have there been any changes to the permitted activities?</b>	If yes, provide a description of the changes to the permitted activities
<b>Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?</b>	If yes, list of them
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Plan showing any changes to the boundary (where relevant)</li> <li>• Description of the changes to the permitted activities (where relevant)</li> <li>• List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)</li> </ul>

<b>5.0 Measures taken to protect land</b>	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Inspection records and summary of findings of inspections for all pollution prevention measures</li> <li>• Records of maintenance, repair and replacement of pollution prevention measures</li> </ul>

<b>6.0 Pollution incidents that may have had an impact on land, and their remediation</b>	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.	
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Records of pollution incidents that may have impacted on land</li> <li>• Records of their investigation and remediation</li> </ul>

## 7.0 Soil gas and water quality monitoring (where undertaken)

Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.

<b>Checklist of supporting information</b>	<ul style="list-style-type: none"><li>• <b>Description of soil gas and/or water monitoring undertaken</b></li><li>• <b>Monitoring results (including graphs)</b></li></ul>
--	--

## 8.0 Decommissioning and removal of pollution risk

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

<b>Checklist of supporting information</b>	<ul style="list-style-type: none"><li>• Site closure plan</li><li>• List of potential sources of pollution risk</li><li>• Investigation and remediation reports (where relevant)</li></ul>
--	--

## 9.0 Reference data and remediation (where relevant)

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

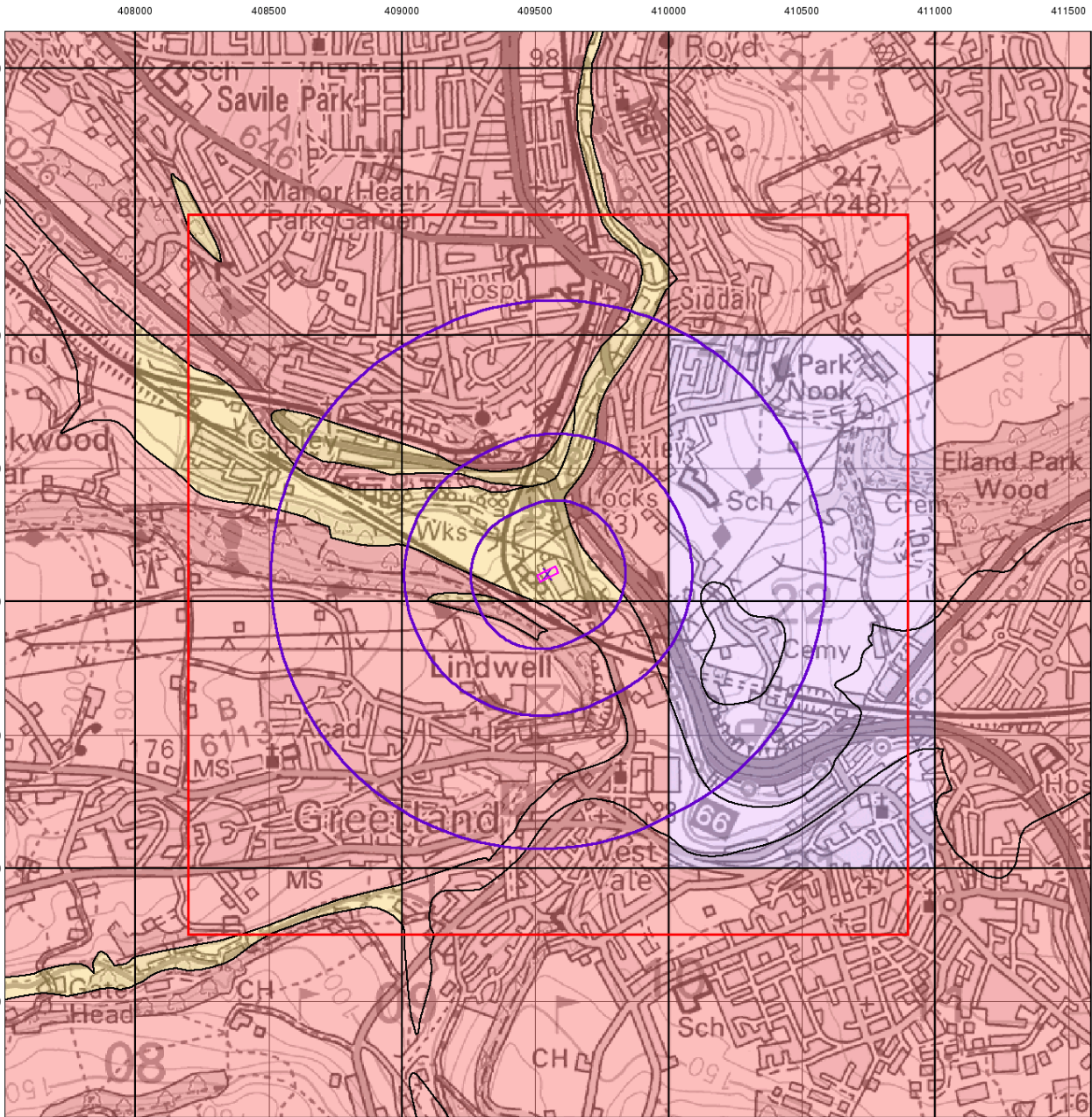
If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

<b>Checklist of supporting information</b>	<ul style="list-style-type: none"><li>• Land and/or groundwater data collected at application (if collected)</li><li>• Land and/or groundwater data collected at surrender (where needed)</li><li>• Assessment of satisfactory state</li><li>• Remediation and verification reports (where undertaken)</li></ul>
--	--

## 10.0 Statement of site condition

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped
- decommissioning is complete, and the pollution risk has been removed
- the land is in a satisfactory condition.



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## Groundwater Vulnerability

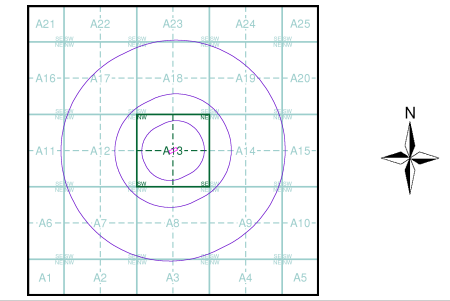
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

- | Bedrock Aquifers                        | Superficial Aquifers                    |
|---|---|
| High Vulnerability, Principal Aquifer   | High Vulnerability, Principal Aquifer   |
| High Vulnerability, Secondary Aquifer   | High Vulnerability, Secondary Aquifer   |
| Medium Vulnerability, Principal Aquifer | Medium Vulnerability, Principal Aquifer |
| Medium Vulnerability, Secondary Aquifer | Medium Vulnerability, Secondary Aquifer |
| Low Vulnerability, Principal Aquifer    | Low Vulnerability, Principal Aquifer    |
| Low Vulnerability, Secondary Aquifer    | Low Vulnerability, Secondary Aquifer    |
| Unproductive Aquifer                    |   |
| Soluble Rock                            |   |

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

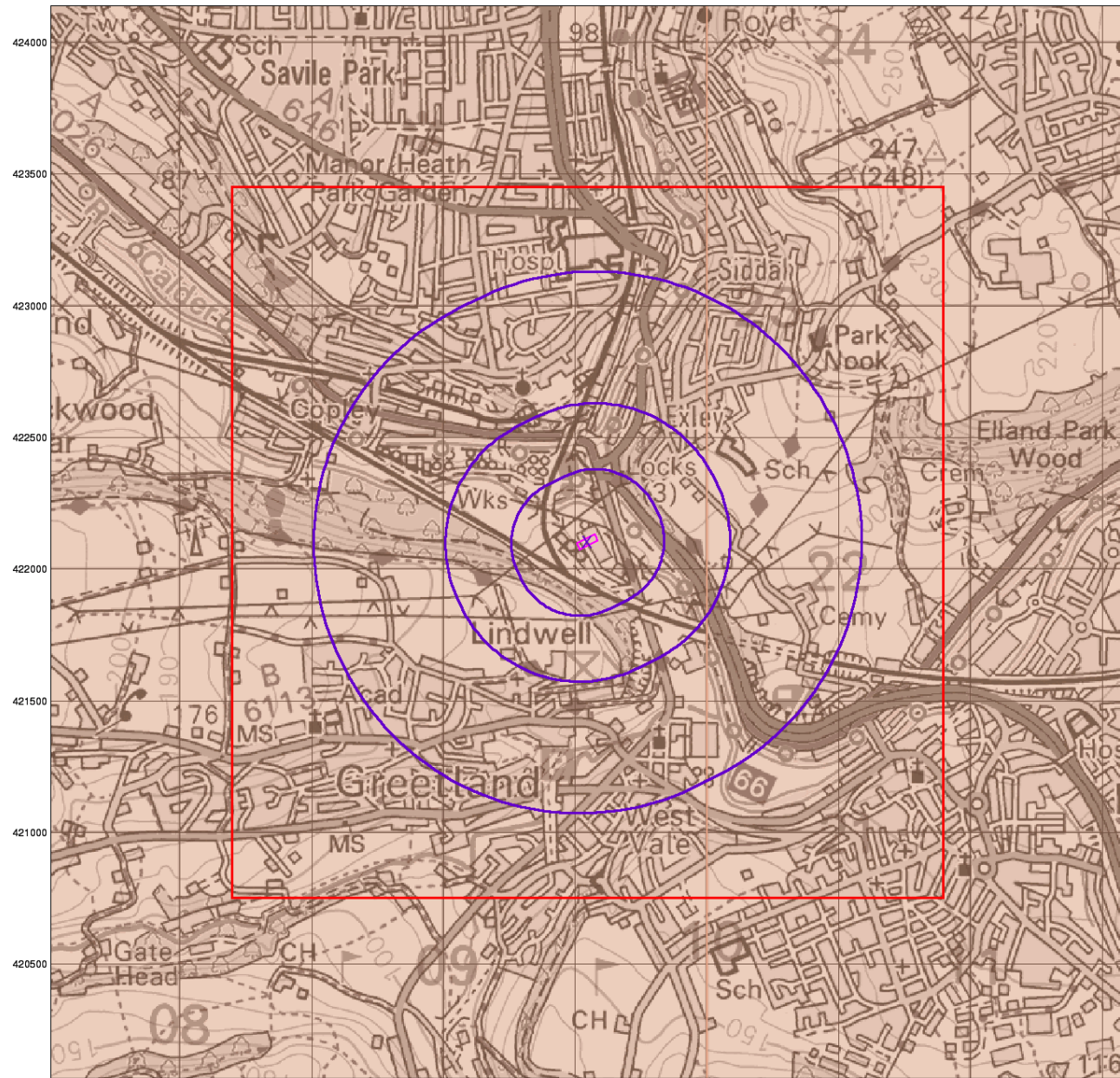
Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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## Bedrock Aquifer Designation

### General

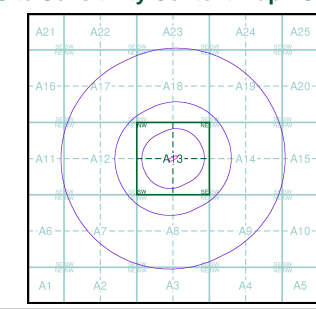
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

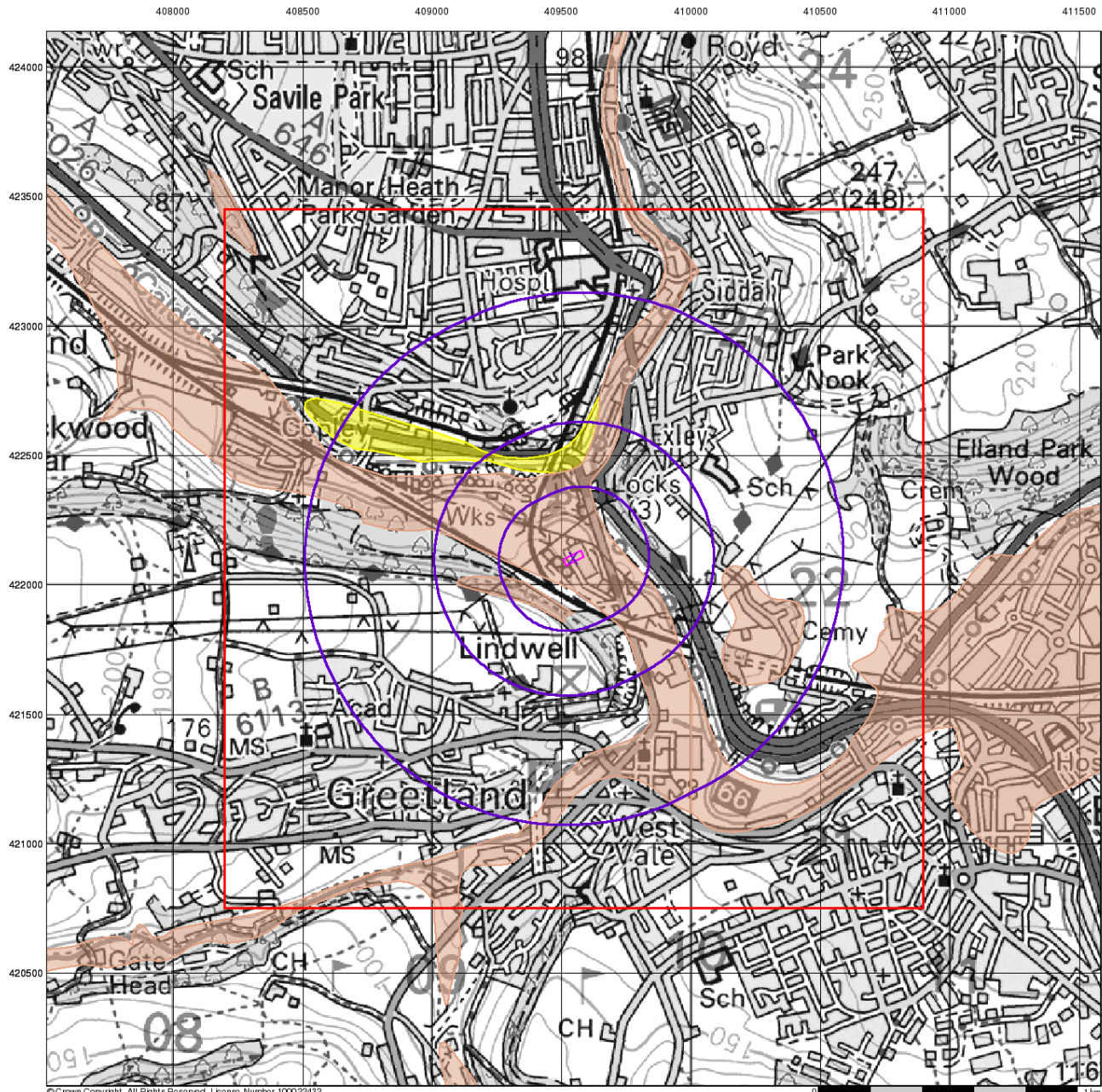
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 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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## Superficial Aquifer Designation

### General

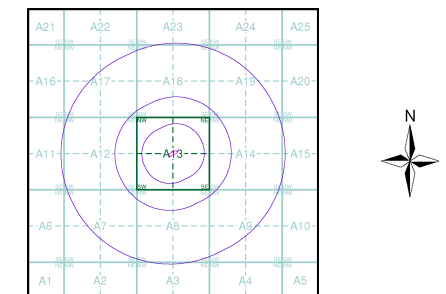
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

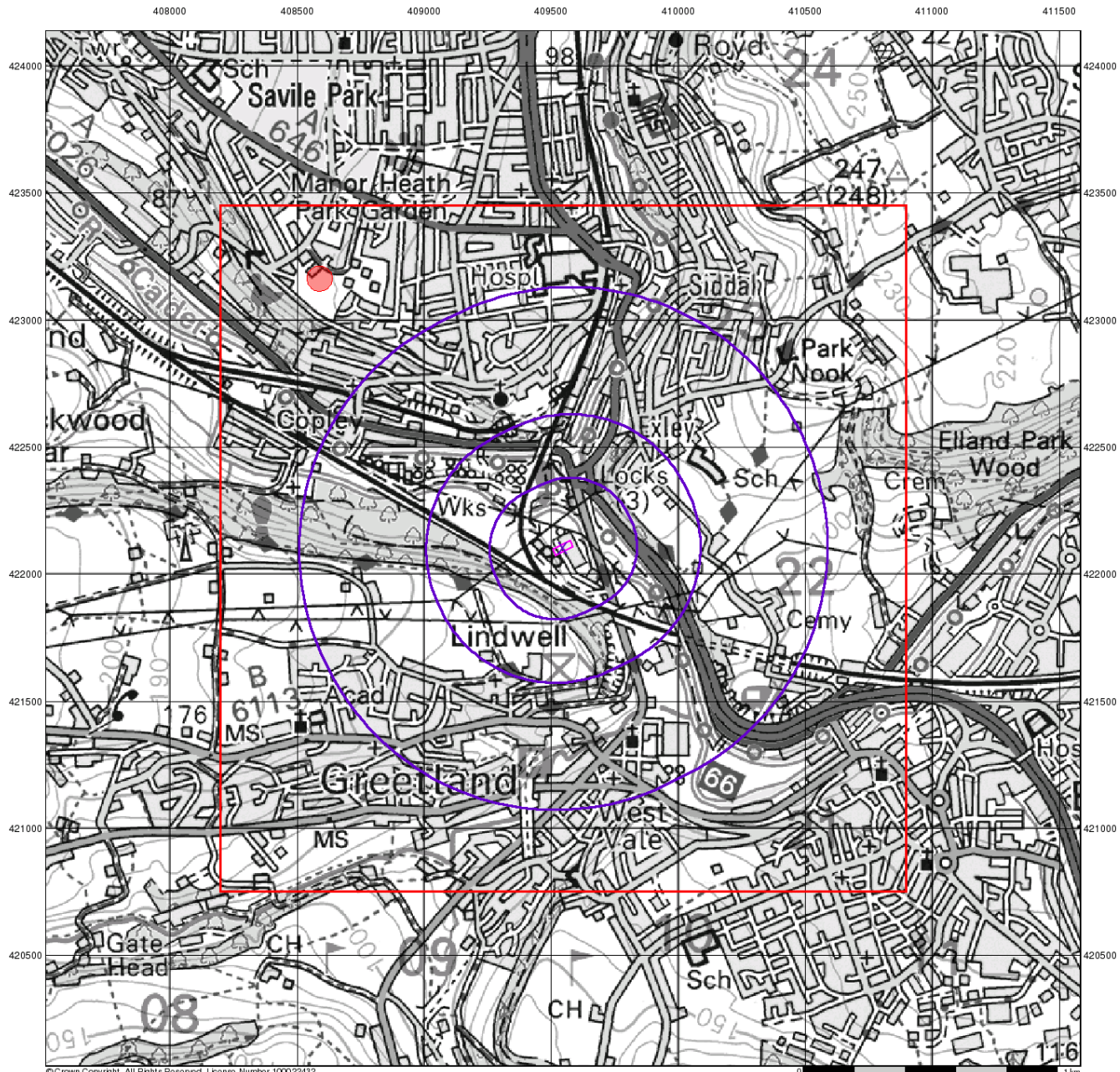
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 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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## Source Protection Zones

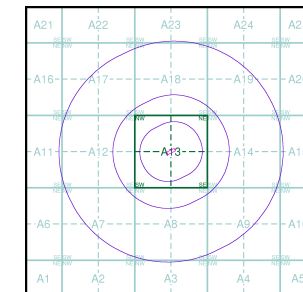
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

## Site Sensitivity Context Map - Slice A



### Order Details

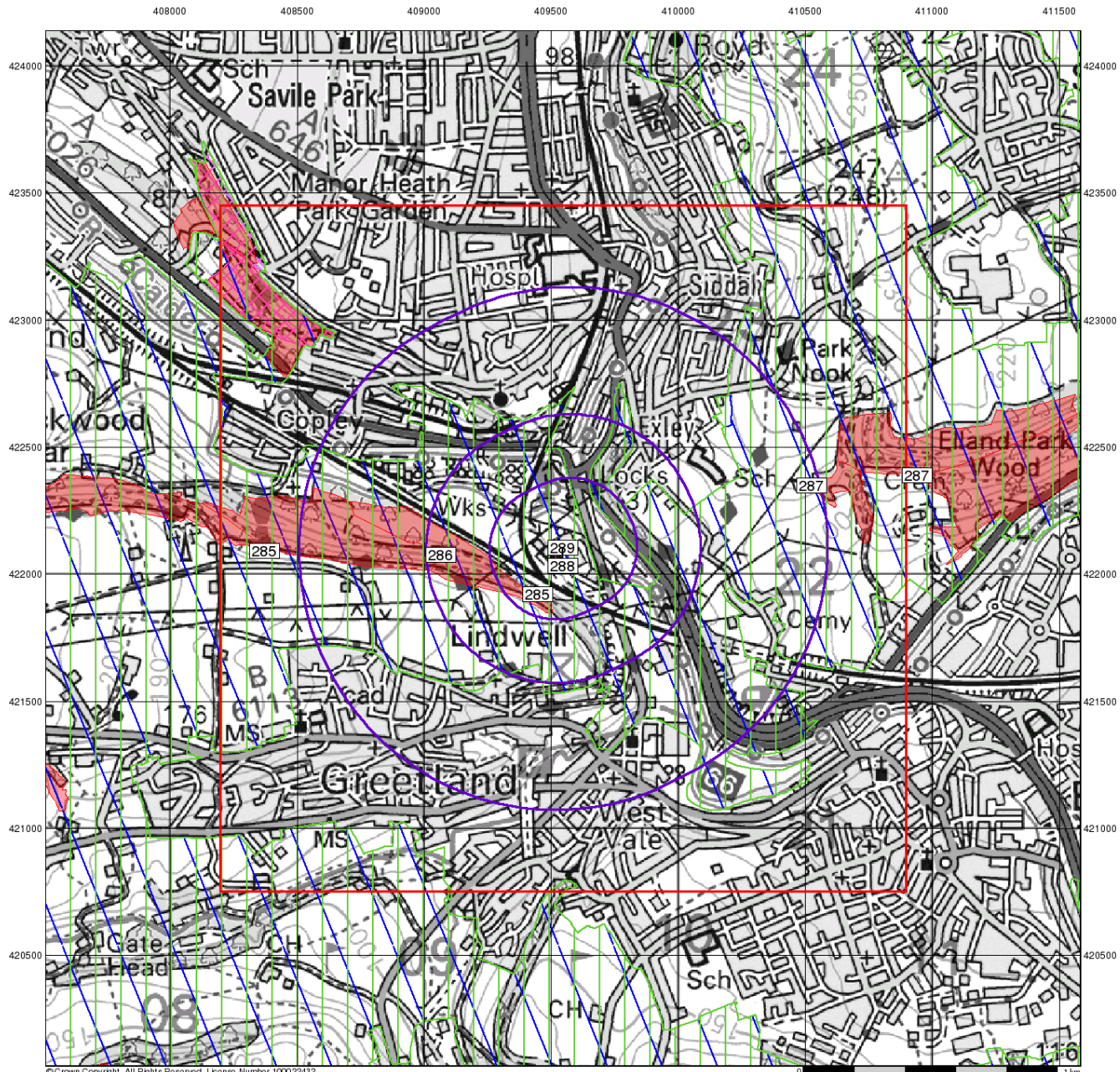
Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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## Sensitive Land Uses

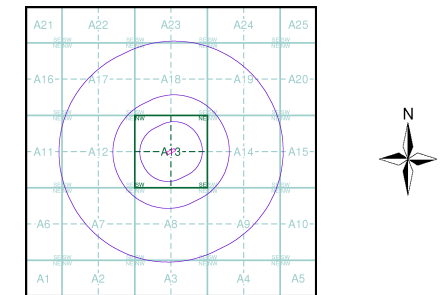
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
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 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

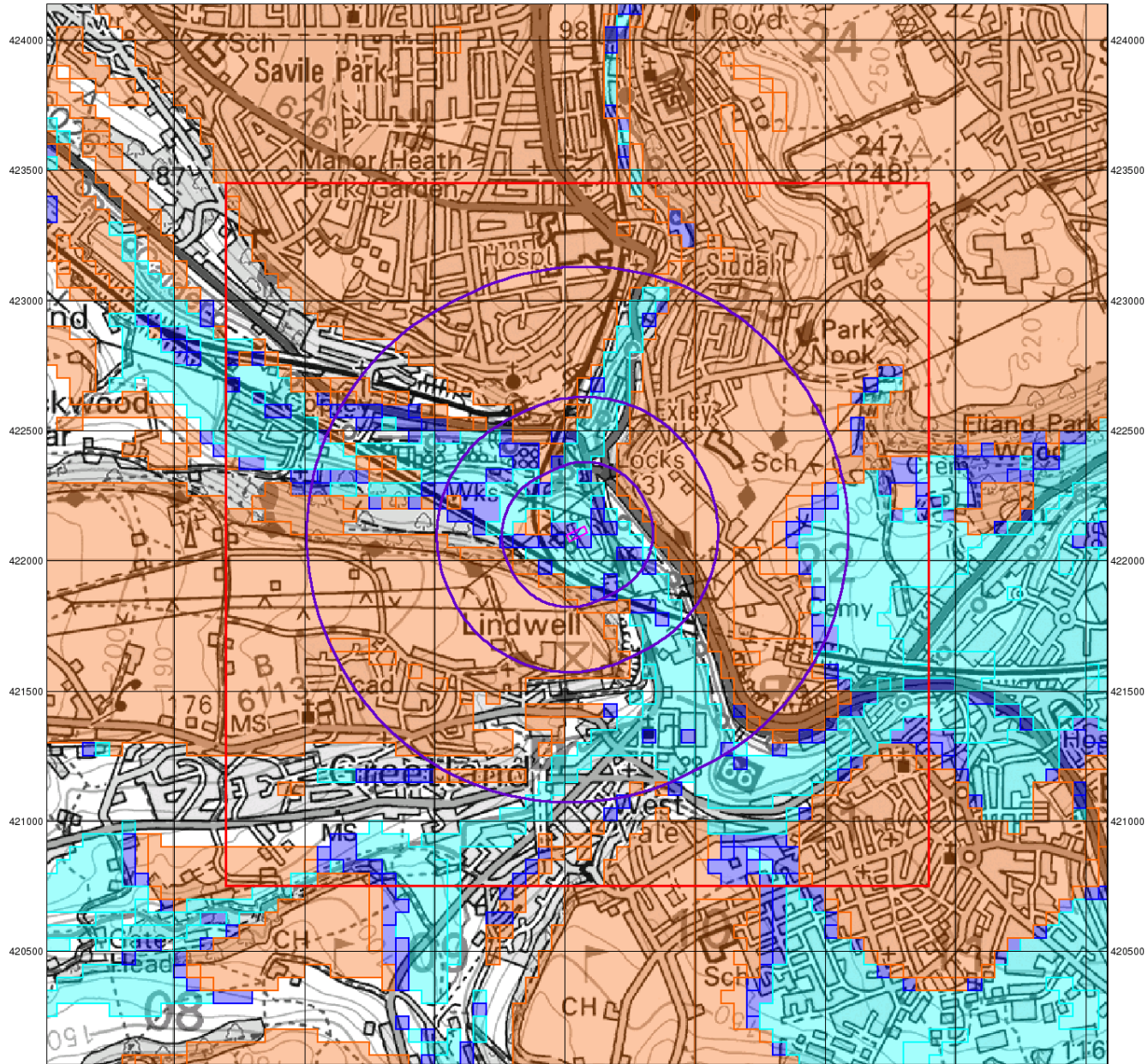
### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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408000 408500 409000 409500 410000 410500 411000 411500



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## BGS Flood GFS Data

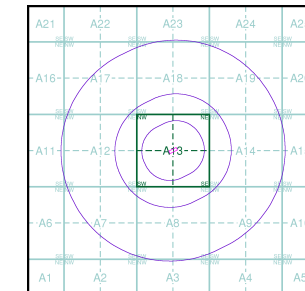
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

### Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

## Site Sensitivity Context Map - Slice A



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

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## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Miss R Hodkinson, Reva Environmental Ltd, 8 The Chancery, Bramcote, Nottingham, Nottinghamshire, NG9 3AJ

## Order Details

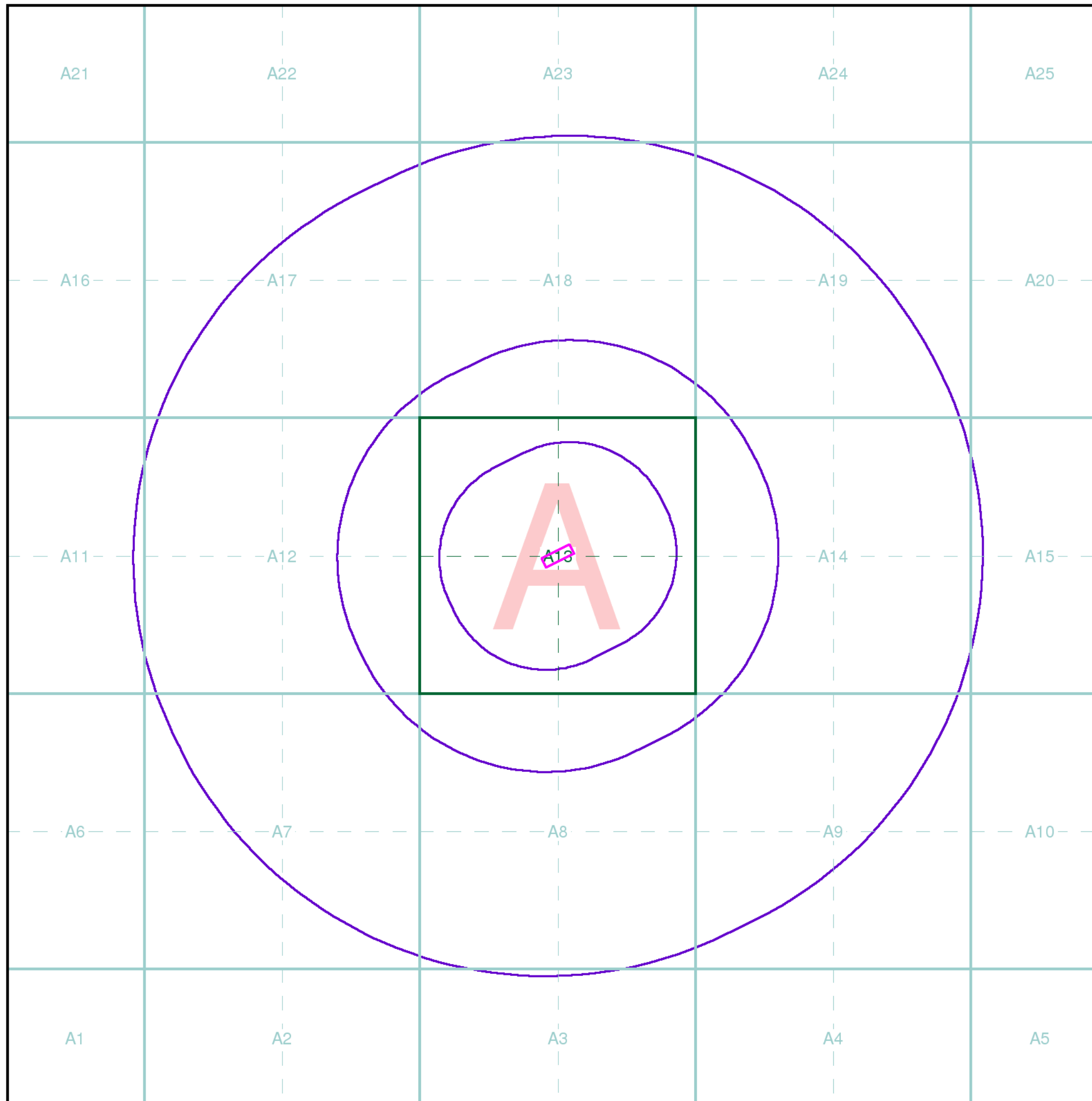
Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

Full Terms and Conditions can be found on the following link:

<http://www.landmarkinfo.co.uk/Terms/Show/515>



## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

299586741\_1\_1

**Customer Reference:**

ASC 2022.01

**National Grid Reference:**

409550, 422100

**Slice:**

A

**Site Area (Ha):**

0.2

**Search Buffer (m):**

1000

#### Site Details:

Calder Remediation Ltd  
North Dean Waste Recovery Facility  
North Dean Business Park, Stainland Road  
ELLAND  
Halifax  
HX4 8LR

#### Client Details:

Miss R Hodkinson  
Reva Environmental Ltd  
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Bramcote  
Nottingham  
Nottinghamshire  
NG9 3AJ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	60
Hazardous Substances	68
Geological	69
Industrial Land Use	81
Sensitive Land Use	100
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### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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### Report Version v53.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		12	27	30
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 20		2	3	
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 21				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 22		Yes		
Pollution Incidents to Controlled Waters	pg 22		10	12	24
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 29		5	1	3
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 31		2		2
Substantiated Pollution Incident Register	pg 34		1	5	3
Water Abstractions	pg 36				4 (*26)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 43	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 43	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 43	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 43	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 50		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas	pg 50	Yes	Yes	n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 50		17	26	41

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites	pg 60		3		
Historical Landfill Sites	pg 60	1	6		4
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 62		5		1
Local Authority Landfill Coverage	pg 64	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 64			1	1
Potentially Infilled Land (Non-Water)	pg 64		1	1	3
Potentially Infilled Land (Water)	pg 64			1	5
Registered Landfill Sites	pg 65		2		
Registered Waste Transfer Sites	pg 66				2
Registered Waste Treatment or Disposal Sites	pg 66		1		1
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 68		1		
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 69	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 69	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 77		1	2	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 78	Yes	n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 78	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 78		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 78	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 78	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 79	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 79	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 80	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 81		8	4	75
Fuel Station Entries	pg 88		1		3
Points of Interest - Commercial Services	pg 88		2		29
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 91		7	4	34
Points of Interest - Public Infrastructure	pg 95		9	14	26
Points of Interest - Recreational and Environmental	pg 99			1	4
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Ancient Woodland	pg 100		1	1	1
Areas of Adopted Green Belt	pg 100	1			
Areas of Unadopted Green Belt	pg 100	1			
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	0	1	409550 422100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (S)	0	1	409547 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	0	1	409550 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	0	1	409547 422100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	7	1	409500 422100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	13	1	409600 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	57	1	409450 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	74	1	409600 422200
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	75	1	409650 422150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	101	1	409450 422000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	107	1	409400 422100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	107	1	409400 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	125	1	409500 421950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	127	1	409700 422050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	139	1	409400 422000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	157	1	409350 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	163	1	409450 422250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	170	1	409550 422300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	170	1	409650 421950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	171	1	409500 421900
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	173	1	409700 422250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	174	1	409547 421900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	187	1	409400 422250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	192	1	409600 421900
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	207	1	409300 422100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	208	1	409450 422300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	213	1	409300 422050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	221	1	409800 422050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	233	1	409500 422350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	239	1	409800 422000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	263	1	409250 422150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	275	1	409400 422350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	282	1	409700 421850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	291	1	409300 422300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	305	1	409750 421850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	321	1	409547 422450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	328	1	409300 422350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	329	1	409500 422450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	344	1	409450 422450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	344	1	409200 422250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	350	1	409650 421750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	361	1	409150 422150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	371	1	409547 422500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	378	1	409500 422500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	405	1	409850 421800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	410	1	409300 422450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	413	1	410000 422102
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	420	1	409100 422200
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	420	1	409550 422550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	435	1	409100 422250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	469	1	409050 422200
1	<b>Discharge Consents</b> Operator: YORKSHIRE WATER SERVICES LTD Property Type: Sewage Disposal Works Location: HALIFAX STW, HALIFAX, WEST YORKSHIRE Authority: Environment Agency, North East Region Catchment Area: Calder Reference: 2997 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 2nd June 1999 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Not Supplied Environment: Receiving Water: HEBBLE BROOKRevoked <b>Status: Not Supplied</b> Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	232	2	409650 422350
2	<b>Discharge Consents</b> Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra7510 Permit Version: 9 Effective Date: 24th March 2010 Issued Date: 24th March 2010 Revocation Date: 8th February 2022 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Calder And Hebble Brook <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A13NE (N)	240	2	409590 422370
2	<b>Discharge Consents</b> Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra7510 Permit Version: 8 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 23rd March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Calder And Hebble Brook <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A13NE (N)	240	2	409590 422370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 7  Effective Date: 13th September 2007  Issued Date: 13th September 2007  Revocation Date: 30th March 2008  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 4  Effective Date: 31st March 2008  Issued Date: 23rd March 2006  Revocation Date: 31st March 2009  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 6  Effective Date: 1st October 2006  Issued Date: 23rd March 2006  Revocation Date: 12th September 2007  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 5  Effective Date: 18th October 2005  Issued Date: 18th October 2005  Revocation Date: 30th September 2006  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370



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2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 3  Effective Date: 22nd March 2000  Issued Date: 22nd March 2000  Revocation Date: 31st December 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 2  Effective Date: 1st January 2001  Issued Date: 22nd March 2000  Revocation Date: 17th October 2005  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 1  Effective Date: 2nd June 1999  Issued Date: 2nd June 1999  Revocation Date: 21st March 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	240	2	409590 422370
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 10  Effective Date: 9th February 2022  Issued Date: 9th February 2022  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	252	2	409593 422381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 3679  Permit Version: 2  Effective Date: 14th December 1987  Issued Date: 14th December 1987  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder &amp; Hebble Brook  <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A13NE (N)	271	2	409600 422400
3	<p><b>Discharge Consents</b></p> <p>Operator: British Waterways Board  Property Type: Undefined Or Other  Location: Salterhebble Lock House Wakefield Road, Salterhebble, Halifax, West Yorkshire  Authority: Environment Agency, North East Region  Catchment Area: Calder And Hebble Navigation Canal  Reference: 1241  Permit Version: 2  Effective Date: 18th December 1998  Issued Date: 18th December 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Canal  Environment:  Receiving Water: Calder And Hebble Navigation  <b>Status: Revised Consent, by Notice (Section 37(1))</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	244	2	409470 422350
3	<p><b>Discharge Consents</b></p> <p>Operator: British Waterways Board  Property Type: Undefined Or Other  Location: Salterhebble Lock House Wakefield Road, Salterhebble, Halifax, West Yorkshire  Authority: Environment Agency, North East Region  Catchment Area: Calder And Hebble Navigation Canal  Reference: 1241  Permit Version: 1  Effective Date: 6th December 1960  Issued Date: 6th December 1960  Revocation Date: 17th December 1998  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Canal  Environment:  Receiving Water: Calder And Hebble Navigation  <b>Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961</b>  Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	244	2	409470 422350
4	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 3679  Permit Version: 2  Effective Date: 14th December 1987  Issued Date: 14th December 1987  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder &amp; Hebble Brook  <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	291	2	409300 422300

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5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 10  Effective Date: 9th February 2022  Issued Date: 9th February 2022  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 10  Effective Date: 9th February 2022  Issued Date: 9th February 2022  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 9  Effective Date: 24th March 2010  Issued Date: 24th March 2010  Revocation Date: 8th February 2022  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 9  Effective Date: 24th March 2010  Issued Date: 24th March 2010  Revocation Date: 8th February 2022  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290

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5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 8  Effective Date: 1st April 2009  Issued Date: 14th October 2008  Revocation Date: 23rd March 2010  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 8  Effective Date: 1st April 2009  Issued Date: 14th October 2008  Revocation Date: 23rd March 2010  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 7  Effective Date: 13th September 2007  Issued Date: 13th September 2007  Revocation Date: 30th March 2008  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 7  Effective Date: 13th September 2007  Issued Date: 13th September 2007  Revocation Date: 30th March 2008  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290

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5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 4  Effective Date: 31st March 2008  Issued Date: 23rd March 2006  Revocation Date: 31st March 2009  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 4  Effective Date: 31st March 2008  Issued Date: 23rd March 2006  Revocation Date: 31st March 2009  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 6  Effective Date: 1st October 2006  Issued Date: 23rd March 2006  Revocation Date: 12th September 2007  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 6  Effective Date: 1st October 2006  Issued Date: 23rd March 2006  Revocation Date: 12th September 2007  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290

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5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 5  Effective Date: 18th October 2005  Issued Date: 18th October 2005  Revocation Date: 30th September 2006  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 5  Effective Date: 18th October 2005  Issued Date: 18th October 2005  Revocation Date: 30th September 2006  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: WRA7510  Permit Version: 2  Effective Date: 1st January 2001  Issued Date: 22nd March 2000  Revocation Date: 17th October 2005  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 3  Effective Date: 22nd March 2000  Issued Date: 22nd March 2000  Revocation Date: 31st December 2000  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290

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5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 3  Effective Date: 22nd March 2000  Issued Date: 22nd March 2000  Revocation Date: 31st December 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 2  Effective Date: 1st January 2001  Issued Date: 22nd March 2000  Revocation Date: 17th October 2005  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: WRA7510  Permit Version: 1  Effective Date: 2nd June 1999  Issued Date: 2nd June 1999  Revocation Date: 21st March 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290
5	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: WRA7510  Permit Version: 1  Effective Date: 2nd June 1999  Issued Date: 2nd June 1999  Revocation Date: 21st March 2000  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	346	2	409220 422290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services  Property Type: Undefined Or Other  Location: Halifax, North Dene, Wpc Works  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2997  Permit Version: 3  Effective Date: 26th November 1986  Issued Date: 26th November 1986  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Calder  <b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	455	2	409100 422300
6	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: Undefined Or Other  Location: Halifax, North Dene, Wpc Works  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2997  Permit Version: 2  Effective Date: 14th December 1987  Issued Date: 25th November 1986  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Unspecified - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder  <b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	455	2	409100 422300
6	<p><b>Discharge Consents</b></p> <p>Operator: Halifax Corporation  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2997  Permit Version: 1  Effective Date: 6th November 1973  Issued Date: 6th November 1973  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Calder And Hebble Brook  <b>Status:</b> <b>Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	455	2	409100 422300
6	<p><b>Discharge Consents</b></p> <p>Operator: Halifax Corporation  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2997  Permit Version: 1  Effective Date: 6th November 1973  Issued Date: 6th November 1973  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Calder And Hebble Brook  <b>Status:</b> <b>Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	455	2	409100 422300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 3679  Permit Version: 2  Effective Date: 14th December 1987  Issued Date: 14th December 1987  Revocation Date: 1st June 1999  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder &amp; Hebble Brook  <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	583	2	409700 422700
7	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 3679  Permit Version: 1  Effective Date: 25th February 1983  Issued Date: 25th February 1983  Revocation Date: 13th December 1987  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Hebble Brook  <b>Status: Transferred from 1975 Regulations</b>  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	583	2	409700 422700
8	<p><b>Discharge Consents</b></p> <p>Operator: Mr Haydn Hiley  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 2  Effective Date: 26th July 2012  Issued Date: 26th July 2012  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100
8	<p><b>Discharge Consents</b></p> <p>Operator: Mr M. White  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 2  Effective Date: 26th July 2012  Issued Date: 26th July 2012  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p><b>Discharge Consents</b></p> <p>Operator: Christopher John Lumb  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 2  Effective Date: 26th July 2012  Issued Date: 26th July 2012  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100
8	<p><b>Discharge Consents</b></p> <p>Operator: Christopher John Lumb  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 1  Effective Date: 19th March 1985  Issued Date: 19th March 1985  Revocation Date: 25th July 2012  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100
8	<p><b>Discharge Consents</b></p> <p>Operator: Mr Haydn Hiley  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 1  Effective Date: 19th March 1985  Issued Date: 19th March 1985  Revocation Date: 25th July 2012  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100
8	<p><b>Discharge Consents</b></p> <p>Operator: Mr M. White  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Exley Hall Farm, Exley, Calderdale  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: C3873  Permit Version: 1  Effective Date: 19th March 1985  Issued Date: 19th March 1985  Revocation Date: 25th July 2012  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Soakaway At Exley Hall Farm  <b>Status: Transferred from COPA 1974</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	613	2	410200 422100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 9  Effective Date: 24th March 2010  Issued Date: 24th March 2010  Revocation Date: 8th February 2022  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 8  Effective Date: 1st April 2009  Issued Date: 14th October 2008  Revocation Date: 23rd March 2010  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 7  Effective Date: 13th September 2007  Issued Date: 13th September 2007  Revocation Date: 30th March 2008  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp</p> <p>Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 4  Effective Date: 31st March 2008  Issued Date: 23rd March 2006  Revocation Date: 31st March 2009  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 6  Effective Date: 1st October 2006  Issued Date: 23rd March 2006  Revocation Date: 12th September 2007  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 5  Effective Date: 18th October 2005  Issued Date: 18th October 2005  Revocation Date: 30th September 2006  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 3  Effective Date: 22nd March 2000  Issued Date: 22nd March 2000  Revocation Date: 31st December 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 2  Effective Date: 1st January 2001  Issued Date: 22nd March 2000  Revocation Date: 17th October 2005  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 1  Effective Date: 2nd June 1999  Issued Date: 2nd June 1999  Revocation Date: 21st March 2000  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	644	2	409710 422760
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: Not Given  Location: Salterhebble Inlet Work, Halifax Stw, HALIFAX, West Yorkshire  Authority: Environment Agency, North East Region  Catchment Area: Aire And Calder Navigation  Reference: 3679(SS)  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Screened sewage  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Hebble Brook  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	644	2	409750 422750
9	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Halifax Copley Stw Off Wakefield Road, Copley, Halifax, West Yorkshire, Hx3 0tp  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra7510  Permit Version: 10  Effective Date: 9th February 2022  Issued Date: 9th February 2022  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Calder And Hebble Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	659	2	409719 422773
10	<p><b>Discharge Consents</b></p> <p>Operator: North Dean Automotive Ltd  Property Type: Undefined Or Other  Location: North Dean Garage Stainland Road, Greetland, Halifax, West Yorkshire, Hx4 8ls  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2003  Permit Version: 1  Effective Date: 12th November 1965  Issued Date: 12th November 1965  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	736	2	409650 421350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Rochdale Road Cso Rochdale Road Opp Foxbridge Hse, Greetland, Halifax, West Yorkshire, Hx4 8ef  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra8442  Permit Version: 2  Effective Date: 31st March 2018  Issued Date: 26th March 2018  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	769	2	409678 421322
10	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hoult's Lane Cso Road End Junction Hoult's Lane, Rear Of 2 Hoult's Lane Greetland, Halifax, West Yorkshire, Hx4 8hn  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra8440  Permit Version: 2  Effective Date: 31st March 2018  Issued Date: 19th March 2018  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	769	2	409678 421322
10	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Rochdale Road Cso Rochdale Road Opp Foxbridge Hse, Greetland, Halifax, West Yorkshire, Hx4 8ef  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra8442  Permit Version: 1  Effective Date: 31st March 2005  Issued Date: 16th March 2005  Revocation Date: 30th March 2018  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	769	2	409670 421320
10	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hoult's Lane Cso Road End Junction Hoult's Lane, Rear Of 2 Hoult's Lane Greetland, Halifax, West Yorkshire, Hx4 8hn  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra8440  Permit Version: 1  Effective Date: 31st March 2005  Issued Date: 16th March 2005  Revocation Date: 30th March 2018  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	769	2	409671 421320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hoyles Memorial Gardens Cso Rochdale Road, West Vale, Halifax, West Yorkshire, Hx4 8al  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: Eprup3320ge  Permit Version: 2  Effective Date: 26th October 2017  Issued Date: 26th October 2017  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	795	2	409642 421288
11	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hoyles Memorial Gardens Cso Rochdale Road, West Vale, Halifax, West Yorkshire, Hx4 8al  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: Eprup3320ge  Permit Version: 1  Effective Date: 22nd March 2016  Issued Date: 22nd March 2016  Revocation Date: 26th October 2017  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: New issued under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	795	2	409642 421288
11	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Brow Bridge Cso Brow Bridge Off Stainland Rd, Greetland, Halifax, West Yorkshire, Hx4 8al  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra9266  Permit Version: 1  Effective Date: 4th September 2007  Issued Date: 4th September 2007  Revocation Date: 30th March 2018  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	803	2	409640 421280
11	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Brow Bridge Cso Brow Bridge Off Stainland Rd, Greetland, Halifax, West Yorkshire, Hx4 8al  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: Wra9266  Permit Version: 2  Effective Date: 31st March 2018  Issued Date: 26th February 2018  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	804	2	409644 421280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: West Vale Cso Saddleworth, Greetland, Halifax, West Yorkshire, Hx4 8ba  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: Eprsb3590wc  Permit Version: 1  Effective Date: 23rd September 2020  Issued Date: 23rd September 2020  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Black Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	951	2	409424 421127
12	<p><b>Discharge Consents</b></p> <p>Operator: Yorkshire Water Services Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Yws Unknown Sites Default Do Not Delete/Replace Site, Do Not Delete/Replace Site, Do Not Delete/Replace Site, Do Not Delete/Replace Site  Authority: Environment Agency, North East Region  Catchment Area: Calder  Reference: 2515  Permit Version: 1  Effective Date: 13th June 1969  Issued Date: 13th June 1969  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Calder And Tribs  <b>Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	959	2	409420 421120
13	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Yorkshire Water Services Ltd  Location: North Dean Sludge Treatment Facility, North Dean Waste Water Treatment Works, Stainland Road, Halifax, West Yorkshire, HX4 8LR  Authority: Environment Agency, North East Region  Permit Reference: JP3135MW  Original Permit Ref: Jp3135mw  Effective Date: Not Supplied  <b>Status: Valid</b>  Application Type: Application  App. Sub Type: New  Positional Accuracy: Manually positioned within the geographical locality  Activity Code: 5.3 A(1) (C) (II)  Activity Description: Other Waste Disposal; Non-Hazardous Waste &gt;50T/D By Physico-Chemical Treatment  Primary Activity: Y  Activity Code: 0.0 Associated Process  Activity Description: Associated Process  Primary Activity: N</p>	A13NE (NE)	10	2	409564 422135
14	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Wastecare Limited  Location: Halifax Battery Treatment Facility, Halifax Battery Treatment Facility, Units 1-6, North Dean Business Park, Stainland Road, Halifax, HX4 8LR  Authority: Environment Agency, North East Region  Permit Reference: VP3737QB  Original Permit Ref: Vp3737qb  Effective Date: 17th December 2020  <b>Status: Effective</b>  Application Type: Application  App. Sub Type: New  Positional Accuracy: Automatically positioned to the address  Activity Code: 5.6 A(1) a)  Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY &gt; 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED  Primary Activity: Y  Activity Code: 5.3 A(1) a) (ii)  Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT  Primary Activity: N</p>	A13SE (S)	67	2	409557 422018



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Yorkshire Water Services Limited            Location: Copley Sewage Sludge Treatment Plant - Epr/Up3634lf, Copley Sewage Treatment Works, Copley,, Halifax, West Yorkshire, HX30UA            Authority: Environment Agency, North East Region            Permit Reference: LP3339VV            Original Permit Ref: Up3634lf            Effective Date: 26th February 2014  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Located by supplier to within 10m            Activity Code: 5.4 A(1) (a) (ii)            Activity Description: DISPOSAL OF &gt; 50 T/D NON-HAZARDOUS WASTE (&gt; 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13NW (NW)	285	2	409330 422320
16	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Yorkshire Water Services Limited            Location: Copley Sewage Sludge Treatment Plant, Copley Sewage Treatment Works, Copley, Halifax, West Yorkshire, HX3 0UA            Authority: Environment Agency, North East Region            Permit Reference: WP3637UM            Original Permit Ref: Up3634lf            Effective Date: 23rd September 2008  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Manually positioned to the address or location            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N            Activity Code: 5.3 A(1) (C) (II)            Activity Description: Other Waste Disposal; Non-Hazardous Waste &gt;50T/D By Physico-Chemical Treatment            Primary Activity: Y</p>	A13NW (NW)	396	2	409228 422377
16	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Yorkshire Water Services Limited            Location: Copley Sewage Sludge Treatment Plant, Copley Sewage Treatment Works, Copley, West Yorkshire, HX3 0UA            Authority: Environment Agency, North East Region            Permit Reference: UP3634LF            Original Permit Ref: Up3634lf            Effective Date: 31st January 2007  <b>Status: Superseded By Variation</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Manually positioned within the geographical locality            Activity Code: 5.3 A(1) (C) (II)            Activity Description: Other Waste Disposal; Non-Hazardous Waste &gt;50T/D By Physico-Chemical Treatment            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13NW (NW)	404	2	409219 422379
17	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Shell Salterhebble            Location: Salterhebble Hill, HALIFAX, West Yorkshire, HX3 0QE            Authority: Calderdale Metropolitan Borough Council, Environmental Health            Permit Reference: 134            Dated: 6th November 1998            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/14 Petrol filling station  <b>Status: Permitted</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	804	3	409770 422910
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Hebble Concrete Co            Location: Bandwalk Industrial Walk, Saddleworth Road, Greetland, HALIFAX, West Yorkshire, HX            Authority: Calderdale Metropolitan Borough Council, Environmental Health            Permit Reference: Not Given            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG3/1Blending, packing, loading and use of bulk cement  <b>Status: Authorisation revoked</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SW (S)	919	3	409537 421155

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Nearest Surface Water Feature</b>	A13NE (NE)	10	-	409590 422124
19	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Sewage Treatment Works Location: North Dean Bridge, /Sowerby Bridge A58 Calder 07C Authority: Environment Agency, North East Region Pollutant: Oils - Other Fuel Oil Note: Not Supplied Incident Date: 29th December 1994 Incident Reference: 153752 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	15	2	409600 422100
20	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Foul Sewer Location: Mouth/Source Hebble Brook Af Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 25th March 1993 Incident Reference: 141902 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	74	2	409600 422200
21	<b>Pollution Incidents to Controlled Waters</b> Property Type: Industrial: Other Location: North Dean Industrial Estate Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Other Note: River Calder; No Pollution Found; No Fish Killed Incident Date: 9th July 1998 Incident Reference: SL980605 Catchment Area: Calder Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	157	2	409700 422000
22	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Rising Main Location: WEST VALE Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: River Calder; No Pollution Found; No Fish Killed Incident Date: 24th November 1998 Incident Reference: SL981014 Catchment Area: Groundwater Receiving Water: Groundwater Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	207	2	409700 422295
22	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Rising Main Location: WEST VALE Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: Calder & Hebble Navigation; Fish Killed: No Information Incident Date: 25th November 1998 Incident Reference: SL990053 Catchment Area: Calder And Hebble Navigation Canal Receiving Water: Canal Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	211	2	409700 422300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works            Location: Battyeford Bridge, /Rastrick Bridge Calder 05C            Authority: Environment Agency, North East Region            Pollutant: Miscellaneous - Foam            Note: Not Supplied            Incident Date: 7th June 1991            Incident Reference: 123126            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	223	2	409405 422295
23	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works            Location: Battyeford Bridge, /Rastrick Bridge Calder 05C            Authority: Environment Agency, North East Region            Pollutant: Miscellaneous - Foam            Note: Not Supplied            Incident Date: 7th June 1991            Incident Reference: 123123            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	226	2	409400 422295
23	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works            Location: Rastrick Bridge, /North Dean Bridge Calder 06C            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Not Supplied            Incident Date: 29th July 1992            Incident Reference: 135184            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	228	2	409405 422300
23	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works            Location: Rastrick Bridge, /North Dean Bridge Calder 06C            Authority: Environment Agency, North East Region            Pollutant: Unknown            Note: Not Supplied            Incident Date: 25th July 1994            Incident Reference: 152645            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	230	2	409400 422300
24	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Rastrick Bridge, /North Dean Bridge Calder 06C            Authority: Environment Agency, North East Region            Pollutant: Unknown            Note: Not Supplied            Incident Date: 30th July 1992            Incident Reference: 135202            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (W)	232	2	409300 422200
25	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Mouth/Source Hebble Brook Af            Authority: Environment Agency, North East Region            Pollutant: Contaminated Groundwater            Note: Not Supplied            Incident Date: 7th February 1989            Incident Reference: 8553            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	276	2	409500 422395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Other General Premises                      Location: Elland Road Bridge /, / Road Brdg A6026 Calder 66                      Authority: Environment Agency, North East Region                      Pollutant: Oils - Creosote                      Note: Not Supplied                      Incident Date: 12th November 1990                      Incident Reference: 116651                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	280	2	409500 422400
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works                      Location: Rastrick Bridge, /North Dean Bridge Calder 06C                      Authority: Environment Agency, North East Region                      Pollutant: Sewage - Treated Effluent                      Note: Not Supplied                      Incident Date: 15th May 1992                      Incident Reference: 132972                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	283	2	409305 422295
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works                      Location: Weir Brookfoot/Footbridge Calder 57                      Authority: Environment Agency, North East Region                      Pollutant: Unknown                      Note: Not Supplied                      Incident Date: 23rd February 1990                      Incident Reference: 108025                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	287	2	409300 422295
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown                      Location: Rd Bridge A6026/Viaduct Calder 68                      Authority: Environment Agency, North East Region                      Pollutant: Oils - Unknown                      Note: Not Supplied                      Incident Date: 26th July 1989                      Incident Reference: 101836                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	287	2	409305 422300
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works                      Location: CALDER                      Authority: Environment Agency, North East Region                      Pollutant: Other Sewage                      Note: Fish Killed: No Information                      Incident Date: 19th January 1995                      Incident Reference: SL950202                      Catchment Area: Calder                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	291	2	409300 422300
27	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works                      Location: BRIGHOUSE                      Authority: Environment Agency, North East Region                      Pollutant: Other Sewage                      Note: Fish Killed: No Information                      Incident Date: 9th February 1995                      Incident Reference: SL950259                      Catchment Area: Calder                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A18SW (N)	378	2	409500 422500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Other General Premises            Location: North Dean Bridge, /Sowerby Bridge A58 Calder 07C            Authority: Environment Agency, North East Region            Pollutant: Chemicals - Paints / Dyes            Note: Not Supplied            Incident Date: 22nd April 1993            Incident Reference: 143433            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	390	2	409700 422500
29	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Industrial Effluent            Note: Not Supplied            Incident Date: 17th February 1994            Incident Reference: 149927            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	452	2	409100 421900
30	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown            Location: Halifax Road            Authority: Environment Agency, North East Region            Pollutant: Unknown            Note: Not Supplied            Incident Date: 7th March 1989            Incident Reference: 8704            Catchment Area: Not Given            Receiving Water: Not Given            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	466	2	409600 422595
30	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: North Dean Bridge, /Sowerby Bridge A58 Calder 07C            Authority: Environment Agency, North East Region            Pollutant: Oils - Tars/Bitumen            Note: Not Supplied            Incident Date: 1st July 1994            Incident Reference: 152382            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	471	2	409600 422600
31	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Todmorden/Source Calder Afu            Authority: Environment Agency, North East Region            Pollutant: Unknown            Note: Not Supplied            Incident Date: 26th April 1990            Incident Reference: 109854            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	486	2	409700 422600
32	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Fire Water            Location: Hebble Brook, Halifax Sewage Treatment Works, HALIFAX            Authority: Environment Agency, North East Region            Pollutant: Miscellaneous - Other            Note: Watercourse :Hebble Brook/Ogden Clough; From Ovenden Brook To River Calder            Incident Date: Not Supplied            Incident Reference: SL980413            Catchment Area: Calder Tributaries            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	571	2	409600 422700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown            Location: Mouth/Source Hebble Brook Af            Authority: Environment Agency, North East Region            Pollutant: Oils - Unknown            Note: Not Supplied            Incident Date: 14th December 1990            Incident Reference: 118057            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	677	2	409705 422795
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Storm Overflow            Location: Hebble Brook, Down Stream Of Sewage Treatment Works, Salterhebble            Authority: Environment Agency, North East Region            Pollutant: Sewage - Storm Overflow            Note: Watercourse :Hebble Brook/Ogden Clough; From Ovenden Brook To River Calder            Incident Date: Not Supplied            Incident Reference: SL980178            Catchment Area: Calder Tributaries            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	677	2	409700 422795
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Other General Premises            Location: Aire &amp; Calder Navigation            Authority: Environment Agency, North East Region            Pollutant: Mud/Clay/Soil            Note: Not Supplied            Incident Date: 17th July 1991            Incident Reference: 124482            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	681	2	409700 422800
34	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Stainland Road            Authority: Environment Agency, North East Region            Pollutant: Miscellaneous - Vehicle Washings And De Waxing            Note: Not Supplied            Incident Date: 13th January 1989            Incident Reference: 8453            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	730	2	409800 421400
34	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Construction/Demolition            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Mud/Clay/Soil            Note: Not Supplied            Incident Date: 17th November 1989            Incident Reference: 105292            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	737	2	409805 421395
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Domestic/Residential            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Surface Water            Note: Not Supplied            Incident Date: 8th June 1992            Incident Reference: 133676            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	791	2	409705 421305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises                      Location: Mouth/Source Black Brook Af                      Authority: Environment Agency, North East Region                      Pollutant: Heating Oil                      Note: Not Supplied                      Incident Date: 25th October 1993                      Incident Reference: 148493                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 2 - Significant Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	795	2	409700 421300
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown                      Location: Todmorden/Source Calder Afu                      Authority: Environment Agency, North East Region                      Pollutant: Unknown                      Note: Not Supplied                      Incident Date: 30th November 1989                      Incident Reference: 105821                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	796	2	409705 421300
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises                      Location: Mouth/Source Black Brook Af                      Authority: Environment Agency, North East Region                      Pollutant: Heating Oil                      Note: Not Supplied                      Incident Date: 4th November 1993                      Incident Reference: 148612                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 2 - Significant Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	800	2	409700 421295
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown                      Location: Mouth/Source Black Brook Af                      Authority: Environment Agency, North East Region                      Pollutant: Oils - Diesel (Including Agricultural)                      Note: Not Supplied                      Incident Date: 24th October 1993                      Incident Reference: 148469                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 2 - Significant Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	801	2	409705 421295
36	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown                      Location: Mouth/Source Hebble Brook Af                      Authority: Environment Agency, North East Region                      Pollutant: Organic Wastes: Other Suspended Solids                      Note: Not Supplied                      Incident Date: 8th April 1991                      Incident Reference: 121190                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	802	2	409800 422900
37	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises                      Location: Mouth/Source Black Brook Af                      Authority: Environment Agency, North East Region                      Pollutant: Unknown                      Note: Not Supplied                      Incident Date: 7th April 1994                      Incident Reference: 150526                      Catchment Area: Not Given                      Receiving Water: Freshwater Stream/River                      Cause of Incident: Not Given                      Incident Severity: Category 3 - Minor Incident                      Positional Accuracy: Located by supplier to within 100m</p>	A9SW (SE)	820	2	410001 421401

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: Not Supplied            Incident Date: 22nd October 1993            Incident Reference: 148459            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SW)	837	2	409200 421300
39	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Not Supplied            Incident Date: 14th October 1992            Incident Reference: 137780            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	882	2	409400 421200
39	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Unknown Sewage            Note: Not Supplied            Incident Date: 6th July 1989            Incident Reference: 101029            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	886	2	409405 421195
39	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Unknown Sewage            Note: Not Supplied            Incident Date: 14th June 1990            Incident Reference: 111661            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	887	2	409400 421195
40	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: Mouth/Source Black Brook Af            Authority: Environment Agency, North East Region            Pollutant: Unknown Sewage            Note: Not Supplied            Incident Date: 19th April 1993            Incident Reference: 142902            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	892	2	409700 421200
41	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Foul Sewer            Location: Elland Road Bridge / / Road Brdg A6026 Calder 66            Authority: Environment Agency, North East Region            Pollutant: Sewage - Storm Overflow            Note: Not Supplied            Incident Date: 29th April 1991            Incident Reference: 121811            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Not Given            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A9SW (SE)	907	2	410001 421301



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Foul Sewer Location: Rastrick Bridge, /North Dean Bridge Calder 06C Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Not Supplied Incident Date: 29th April 1991 Incident Reference: 121810 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	912	2	410001 421296
41	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Foul Sewer Location: Rastrick Bridge, /North Dean Bridge Calder 06C Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Not Supplied Incident Date: 29th April 1991 Incident Reference: 121809 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	914	2	410006 421296
42	<b>Pollution Incidents to Controlled Waters</b> Property Type: Industrial Premises Location: Mouth/Source Black Brook Af Authority: Environment Agency, North East Region Pollutant: Washery Effluent Note: Not Supplied Incident Date: 18th July 1994 Incident Reference: 152544 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	981	2	409400 421100
42	<b>Pollution Incidents to Controlled Waters</b> Property Type: Industrial Premises Location: Mouth/Source Black Brook Af Authority: Environment Agency, North East Region Pollutant: Washery Effluent Note: Not Supplied Incident Date: 15th July 1994 Incident Reference: 152556 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	986	2	409400 421095
43	<b>Pollution Incidents to Controlled Waters</b> Property Type: Industrial Premises Location: Mouth/Source Black Brook Af Authority: Environment Agency, North East Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 22nd November 1994 Incident Reference: 153784 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	998	2	409300 421100
	<b>River Quality</b> Name: River_Calder GQA Grade: River Quality D Reach: Hebble_Brook_Black_Broo Estimated Distance (km): 1.1 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13NE (N)	30	2	409548 422161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>River Quality</b> Name: River_Calder GQA Grade: River Quality D Reach: Halifax_Outfall_Hebble_Broo Estimated Distance (km): .4 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13NW (NW)	65	2	409494 422162
	<b>River Quality</b> Name: Hebble_Brook/Ogden_Clough GQA Grade: River Quality C Reach: Ovenden_Brook_River_Calde Estimated Distance (km): 4.7 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NE (N)	161	2	409550 422289
	<b>River Quality</b> Name: Calder_&_Hebble_Navigatio GQA Grade: River Quality D Reach: Salterhebble_Elland_Bridg Estimated Distance (km): 2.1 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A13NE (N)	161	2	409550 422289
	<b>River Quality</b> Name: Calder_&_Hebble_Navigatio GQA Grade: River Quality D Reach: Sowerby_Bridge_Marin_Salterhebb Estimated Distance (km): 3.4 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A13NE (N)	161	2	409550 422289
	<b>River Quality</b> Name: River_Calder GQA Grade: River Quality C Reach: Copley_Halifax_Outfal Estimated Distance (km): .4 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A12NE (NW)	390	2	409155 422265
	<b>River Quality</b> Name: River_Calder GQA Grade: River Quality C Reach: Warley_Clough_Cople Estimated Distance (km): 3.2 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A12NW (W)	732	2	408778 422159
	<b>River Quality</b> Name: Black_Brook GQA Grade: River Quality B Reach: Holywell_Brook_River_Calde Estimated Distance (km): 1.4 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A8SE (S)	787	2	409843 421357
	<b>River Quality</b> Name: River_Calder GQA Grade: River Quality C Reach: Black_Brook_Brookfoo Estimated Distance (km): 1.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9SW (SE)	920	2	410007 421290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: River Calder                      Reach: Hebble Brook Black Brook                      Estimated Distance: 1.10                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 10m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied</p>	A13SE (SE)	175	2	409693 421969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: River Calder                      Reach: Halifax Outfall Hebble Brook                      Estimated Distance: 0.40                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 10m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade E - Poor                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade D - Fair                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied</p>	A13SE (SE)	175	2	409693 421969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Black Brook                      Reach: Holywell Brook River Calder                      Estimated Distance: 1.40                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 10m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied</p>	A8NE (SE)	720	2	409850 421435

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Black Brook                      Reach: Barsey Clough Holywell Brook                      Estimated Distance: 2.70                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 10m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied</p>	A8NE (SE)	720	2	409850 421435
46	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - North East Region, Yorkshire Area                      Incident Date: 23rd August 2010                      Incident Reference: 815796                      Water Impact: Category 2 - Significant Incident                      Air Impact: Category 4 - No Impact                      Land Impact: Category 4 - No Impact                      Positional Accuracy: Located by supplier to within 10m                      Pollutant: Storm Sewage</p>	A13NE (N)	249	2	409588 422379
47	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - North East Region, Yorkshire Area                      Incident Date: 27th April 2013                      Incident Reference: 1107130                      Water Impact: Category 2 - Significant Incident                      Air Impact: Category 4 - No Impact                      Land Impact: Category 4 - No Impact                      Positional Accuracy: Located by supplier to within 10m                      Pollutant: Sewage Materials: Final Effluent</p>	A13NW (NW)	314	2	409252 422279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 16th November 2007 Incident Reference: 545586 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Final Effluent	A13NW (NW)	314	2	409250 422276
47	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 8th November 2006 Incident Reference: 448961 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Final Effluent	A13NW (NW)	317	2	409236 422260
47	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 9th March 2011 Incident Reference: 864499 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Final Effluent	A13NW (NW)	323	2	409242 422281
47	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 24th April 2007 Incident Reference: 489250 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Final Effluent	A13NW (NW)	338	2	409219 422273
48	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 19th October 2002 Incident Reference: 115846 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A18SE (N)	601	2	409683 422721
48	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 12th August 2005 Incident Reference: 337864 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Storm Sewage	A18SE (N)	603	2	409683 422723
48	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 24th August 2006 Incident Reference: 429998 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A18SE (N)	638	2	409706 422755

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	<p><b>Water Abstractions</b></p> <p>Operator: Cyclotech Environmental Ltd  Licence Number: 2/27/12/314  Permit Version: 101  Location: Black Brook-Greetland  Authority: Environment Agency, North East Region  Abstraction: Mineral Products: Mineral Washing  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 1  Yearly Rate (m3): 270  Details: Cyclotech Environmental Ltd, Greetland, Halifax  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st June 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	730	2	409800 421400
49	<p><b>Water Abstractions</b></p> <p>Operator: Cyclotech Environmental Ltd  Licence Number: 2/27/12/314  Permit Version: 101  Location: Black Brook-Greetland  Authority: Environment Agency, North East Region  Abstraction: Mineral Products: Mineral Washing  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Cyclotech Environmental Ltd, Greetland, Halifax  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st June 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	730	2	409800 421400
50	<p><b>Water Abstractions</b></p> <p>Operator: Canal And River Trust  Licence Number: Ne/027/0012/048  Permit Version: 1  Location: Hebble Brook At Salterhebble Halifax  Authority: Environment Agency, North East Region  Abstraction: Navigation: Supply to a Canal for Throughflow  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 26th March 2021  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A18NE (N)	904	2	409871 422984
51	<p><b>Water Abstractions</b></p> <p>Operator: John Horsfall &amp; Sons (Greetland) Ltd  Licence Number: 2/27/12/016  Permit Version: 100  Location: Borehole - Millstone Grit - Greetland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 582  Yearly Rate (m3): 68180  Details: West Vale Works, Greetland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 7th December 1965  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	975	2	409470 421100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Pennine Yarn Dyeing Ltd            Licence Number: 2/27/12/327            Permit Version: 1            Location: River Calder - Bridge End Works            Authority: Environment Agency, North East Region            Abstraction: Textiles &amp; Leather: Non-Evaporative Cooling            Abstraction Type: Water may be abstracted from a single point            Source: Surface            Daily Rate (m3): 300            Yearly Rate (m3): 75000            Details: Bridge End Works, Saddleworth Road, Elland.            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 16th October 1999            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A9SE (SE)	1253	2	410500 421250
	<p><b>Water Abstractions</b></p> <p>Operator: Pennine Yarn Dyeing Ltd            Licence Number: 2/27/12/096            Permit Version: 100            Location: Catchpit - Bridge End Works Elland            Authority: Environment Agency, North East Region            Abstraction: Textiles And Leather: General Use (Medium Loss)            Abstraction Type: Water may be abstracted from a single point            Source: Surface            Daily Rate (m3): 273            Yearly Rate (m3): 56825            Details: Bridge End Works, Elland            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 9th May 1984            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (SE)	1376	2	410700 421300
	<p><b>Water Abstractions</b></p> <p>Operator: The Old Crossleyans Club            Licence Number: 2/27/12/320            Permit Version: 100            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): 50            Yearly Rate (m3): 7650            Details: The Old Crossleyans Club, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 April            Authorised End: 31 October            Permit Start Date: 11th August 1998            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A22SW (NW)	1404	2	408590 423160
	<p><b>Water Abstractions</b></p> <p>Operator: The Old Crossleyans Club            Licence Number: 2/27/12/320            Permit Version: 100            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: The Old Crossleyans Club, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 11th August 1998            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1404	2	408590 423160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Crossleyans Club Ltd            Licence Number: 2/27/12/338/R01            Permit Version: 1            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: Crossleyans Club Ltd, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 April            Authorised End: 31 March            Permit Start Date: 1st April 2015            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1410	2	408587 423165
	<p><b>Water Abstractions</b></p> <p>Operator: Crossleyans Club Ltd            Licence Number: 2/27/12/338/R01            Permit Version: 1            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: Crossleyans Club Ltd, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 April            Authorised End: 31 October            Permit Start Date: 1st April 2015            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1410	2	408587 423165
	<p><b>Water Abstractions</b></p> <p>Operator: The Old Crossleyans Club            Licence Number: 2/27/12/338            Permit Version: 1            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: The Old Crossleyans Club, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 5th December 2007            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1410	2	408587 423165
	<p><b>Water Abstractions</b></p> <p>Operator: The Old Crossleyans Club            Licence Number: 2/27/12/338            Permit Version: 1            Location: Borehole - Millstone Grit - Halifax            Authority: Environment Agency, North East Region            Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: The Old Crossleyans Club, Standeven House, Broomfield Avenue, Halifax            Authorised Start: 01 April            Authorised End: 31 October            Permit Start Date: 5th December 2007            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1410	2	408587 423165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Century Dyeworks (Elland) Ltd  Licence Number: 2/27/12/183  Permit Version: 100  Location: Borehole - Millstone Grit - Elland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 182  Yearly Rate (m3): 40914  Details: Century Road, Ellen  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 17th March 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SW (SE)	1419	2	410780 421340
	<p><b>Water Abstractions</b></p> <p>Operator: Hawkhead Bray &amp; Son Ltd  Licence Number: 2/27/12/075  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, North East Region  Abstraction: General Industrial  Abstraction Type: Not Supplied  Source: Surface  Daily Rate (m3): 9  Yearly Rate (m3): 2728  Details: Licence Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(N)	1670	2	409600 423800
	<p><b>Water Abstractions</b></p> <p>Operator: Hawkhead Bray &amp; Son Ltd  Licence Number: 2/27/12/076  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, North East Region  Abstraction: General Industrial  Abstraction Type: Not Supplied  Source: Groundwater  Daily Rate (m3): 20  Yearly Rate (m3): 6137  Details: Millstone Grit Licence Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(N)	1675	2	409700 423800
	<p><b>Water Abstractions</b></p> <p>Operator: J Holdsworth &amp; Company Ltd  Licence Number: 2/27/12/005  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, North East Region  Abstraction: General Industrial  Abstraction Type: Not Supplied  Source: Groundwater  Daily Rate (m3): 20  Yearly Rate (m3): 6360  Details: Millstone Grit Licence Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(N)	1870	2	409600 424000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Sia Fibril Ltd  Licence Number: 2/27/12/265  Permit Version: 101  Location: Borehole - Millstone Grit - Greetland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Company Premises At Greetland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st August 2001  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A1SW (SW)	1875	2	408190 420750
	<p><b>Water Abstractions</b></p> <p>Operator: Freudenberg Nonwovens Ltd  Licence Number: 2/27/12/265  Permit Version: 100  Location: Borehole - Millstone Grit - Greetland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 1227  Yearly Rate (m3): 368180  Details: Company Premises At Greetland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 17th December 1969  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A1SW (SW)	1875	2	408190 420750
	<p><b>Water Abstractions</b></p> <p>Operator: Elland Golf Club  Licence Number: 2/27/12/341  Permit Version: 1  Location: Borehole - Coal Measures - Elland  Authority: Environment Agency, North East Region  Abstraction: Golf Courses: Spray Irrigation - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Elland Golf Club, Elland  Authorised Start: 01 April  Authorised End: 31 October  Permit Start Date: 1st April 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(S)	1883	2	409700 420200
	<p><b>Water Abstractions</b></p> <p>Operator: Elland Golf Club  Licence Number: 2/27/12/323  Permit Version: 100  Location: Borehole - Coal Measures - Elland  Authority: Environment Agency, North East Region  Abstraction: Golf Courses: Spray Irrigation - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 45  Yearly Rate (m3): 6750  Details: Elland Golf Club, Elland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 16th October 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(S)	1883	2	409700 420200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Binns &amp; Sons (Greetland) Limited  Licence Number: 2/27/12/114  Permit Version: 100  Location: Spring  Authority: Environment Agency, North East Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 8  Yearly Rate (m3): 2568  Details: Brian Royd Mills, Greetland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 20th January 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A6SW (SW)	1889	2	407900 421100
	<p><b>Water Abstractions</b></p> <p>Operator: Binns &amp; Sons (Greetland) Ltd  Licence Number: 2/27/12/114  Permit Version: 100  Location: Spring - Greetland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Brian Royd Mills, Greetland  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 20th January 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A6SW (SW)	1889	2	407900 421100
	<p><b>Water Abstractions</b></p> <p>Operator: Sia Fibril Ltd  Licence Number: 2/27/12/128  Permit Version: 101  Location: Borehole - Millstone Grit - Greetland  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Ellistone Lane, Greetland, Nr. Halifax  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st August 2001  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A1SW (SW)	1954	2	408180 420650
	<p><b>Water Abstractions</b></p> <p>Operator: Freudenberg Nonwovens Ltd  Licence Number: 2/27/12/128  Permit Version: 100  Location: Borehole  Authority: Environment Agency, North East Region  Abstraction: Textiles And Leather: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 682  Yearly Rate (m3): 181840  Details: Ellistone Lane, Greetland, Nr. Halifax  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 20th January 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A1SW (SW)	1954	2	408180 420650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Calderdale Mbc  Licence Number: 2/27/12/214  Permit Version: 101  Location: River Calder - Sowerby Bridge  Authority: Environment Agency, North East Region  Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss)  Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Former Sterne Mills, Sowerby Bridge, West Yorkshire  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 27th March 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A21SW (NW)	1974	2	407870 423200
	<p><b>Water Abstractions</b></p> <p>Operator: Calderdale Mbc  Licence Number: 2/27/12/214  Permit Version: 101  Location: River Calder - Sowerby Bridge  Authority: Environment Agency, North East Region  Abstraction: Metal: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Former Sterne Mills, Sowerby Bridge, West Yorkshire  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 27th March 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A21SW (NW)	1974	2	407870 423200
	<p><b>Water Abstractions</b></p> <p>Operator: Siddall &amp; Hilton Limited  Licence Number: 2/27/12/214  Permit Version: 100  Location: River Calder  Authority: Environment Agency, North East Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints  Source: Surface  Daily Rate (m3): 6111  Yearly Rate (m3): 2150000  Details: The Standard Wire Company Limited, Sterne Mills, Sowerby Bridge, West Yorkshire  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st May 1996  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A21SW (NW)	1974	2	407870 423200
	<p><b>Water Abstractions</b></p> <p>Operator: Siddall &amp; Hilton Ltd  Licence Number: 2/27/12/214  Permit Version: 100  Location: River Calder - Sowerby Bridge  Authority: Environment Agency, North East Region  Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss)  Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: The Standard Wire Company Limited, Sterne Mills, Sowerby Bridge, West Yorkshire  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st May 1996  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A21SW (NW)	1974	2	407870 423200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Siddall & Hilton Ltd Licence Number: 2/27/12/214 Permit Version: 100 Location: River Calder - Sowerby Bridge Authority: Environment Agency, North East Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Standard Wire Company Limited, Sterne Mills, Sowerby Bridge, West Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st May 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1974	2	407870 423200
	<b>Water Abstractions</b> Operator: Siddall & Hilton Limited Licence Number: 2/27/12/214 Permit Version: 100 Location: River Calder Authority: Environment Agency, North East Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Standard Wire Company Limited, Sterne Mills, Sowerby Bridge, West Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st May 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1974	2	407870 423200
	<b>Groundwater Vulnerability Map</b> Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: Superficial: <3m Thickness: Superficial: No Data Recharge:	A13NW (S)	0	4	409547 422102
	<b>Groundwater Vulnerability - Soluble Rock Risk</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13NW (S)	0	4	409547 422102
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13NW (S)	0	4	409547 422102
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	0	2	409548 422096
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	7	2	409586 422126
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	40	2	409619 422134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	41	2	409617 422140
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	42	2	409617 422142
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	44	2	409618 422144
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	46	2	409606 422164
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	46	2	409602 422168
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	60	2	409635 422147
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	61	2	409632 422152
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	63	2	409632 422158
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	66	2	409626 422172
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	67	2	409626 422174
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	91	2	409568 422220
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	123	2	409676 422201
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	124	2	409441 422200
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	149	2	409402 422202
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	149	2	409403 422203
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	149	2	409399 422199



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	150	2	409397 422198
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	152	2	409391 422195
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	153	2	409389 422194
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	154	2	409696 422000
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	154	2	409697 422000
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	155	2	409530 422278
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	156	2	409383 422191
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	158	2	409398 422211
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	159	2	409379 422190
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	163	2	409371 422187
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	165	2	409656 421958
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	165	2	409369 422186
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	171	2	409359 422183
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	171	2	409520 422292
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	172	2	409519 422293
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	173	2	409519 422294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	176	2	409353 422182
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	178	2	409515 422297
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	180	2	409514 422299
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	181	2	409484 422286
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	182	2	409420 422257
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	182	2	409512 422300
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	184	2	409405 422249
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	184	2	409472 422284
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	184	2	409477 422286
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	184	2	409343 422179
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	184	2	409404 422249
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	184	2	409407 422251
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	187	2	409339 422178
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	188	2	409456 422280
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	188	2	409557 422319
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	189	2	409323 422139

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	189	2	409460 422284
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	189	2	409335 422175
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	189	2	409507 422306
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	190	2	409394 422249
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	191	2	409321 422138
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	191	2	409323 422148
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	191	2	409333 422174
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	191	2	409319 422131
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	191	2	409327 422159
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	191	2	409698 421952
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	191	2	409444 422278
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	191	2	409331 422171
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	192	2	409700 421953
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	192	2	409442 422279
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	193	2	409329 422170
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	193	2	409503 422309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	195	2	409442 422282
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	196	2	409538 422323
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	196	2	409501 422311
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	198	2	409556 422327
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	198	2	409499 422313
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	200	2	409442 422287
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	201	2	409545 422328
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	203	2	409306 422118
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	203	2	409497 422317
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	205	2	409303 422117
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	208	2	409300 422114
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	210	2	409444 422300
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	215	2	409293 422114
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	216	2	409686 421916
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	220	2	409288 422116
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	220	2	409694 421916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	221	2	409695 421916
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	221	2	409705 421921
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	224	2	409541 422352
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	225	2	409691 421909
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	227	2	409281 422118
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	228	2	409280 422118
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	232	2	409570 422361
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	234	2	409570 422364
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	243	2	409595 422372
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	244	2	409596 422373
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	245	2	409265 422126
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	245	2	409265 422126
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	245	2	409553 422374
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	248	2	409559 422378
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (N)	249	2	409570 422379
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	249	2	409559 422378

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	8	2	409588 422126
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	123	2	409676 422201
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> Type: Flood Water Storage Areas Reference: Not Supplied	A13NW (S)	0	2	409547 422102
	<b>Flood Water Storage Areas</b> Type: Flood Water Storage Areas Reference: Not Supplied	A13NW (N)	160	2	409494 422269
	<b>Flood Water Storage Areas</b> Type: Flood Water Storage Areas Reference: Not Supplied	A13SE (SE)	195	2	409710 421957
	<b>Flood Defences</b> None				
52	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 503.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A13NE (NE)	19	5	409599 422126
53	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 193.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hebble Brook Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	86	5	409549 422212
54	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 69.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	86	5	409549 422212
55	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 600.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NE (NE)	129	5	409680 422206
56	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 134.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	149	5	409498 422258
57	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	149	5	409498 422258

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 172.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	162	5	409497 422272
59	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 215.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A13NW (NW)	183	5	409370 422218
60	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (NW)	183	5	409370 422218
61	<b>OS Water Network Lines</b> Watercourse Form: Lock or flight of locks Watercourse Length: 20.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	191	5	409574 422322
62	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (NW)	192	5	409368 422227
63	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	193	5	409563 422323
64	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: suspendedOrElevated Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	195	5	409554 422324
65	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 66.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	199	5	409543 422326
66	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 63.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	244	5	409487 422357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 2	A13NW (N)	244	5	409487 422357
68	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 97.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	248	5	409597 422377
69	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1134.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hebble Brook Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	252	5	409587 422381
70	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 2	A13NW (N)	260	5	409507 422381
71	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 2	A13NW (N)	280	5	409506 422401
72	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	293	5	409505 422414
73	<b>OS Water Network Lines</b> Watercourse Form: Lock or flight of locks Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	318	5	409521 422443
74	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	334	5	409520 422460
75	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 2473.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	343	5	409465 422455



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 287.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	348	5	409519 422473
77	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A14SW (SE)	366	5	409896 421913
78	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 571.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A14SW (SE)	366	5	409896 421913
79	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 183.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	383	5	409189 422309
80	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 208.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	383	5	409189 422309
81	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 102.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	402	5	409107 422134
82	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 31.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A14SW (E)	406	5	409968 421967
83	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	428	5	409080 422122
84	<b>OS Water Network Lines</b> Watercourse Form: Lock or flight of locks Watercourse Length: 20.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A14SW (SE)	438	5	409945 421856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	447	5	409061 422073
86	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	453	5	409054 422101
87	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	453	5	409054 422099
88	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 566.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A14SW (SE)	454	5	409951 421837
89	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	456	5	409052 422112
90	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 2	A12NE (W)	462	5	409046 422119
91	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	462	5	409046 422119
92	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	463	5	409044 422097
93	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	470	5	409039 422130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 59.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	470	5	409039 422130
95	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 135.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	505	5	409008 422171
96	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	554	5	408994 422304
97	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 164.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	590	5	409651 422715
98	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 52.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Halifax Branch Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	590	5	409651 422715
99	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	603	5	408929 422268
100	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	603	5	408933 422281
101	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	603	5	408933 422281
102	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	614	5	408924 422288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 465.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	618	5	408915 422275
104	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	623	5	408918 422297
105	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 119.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	654	5	408894 422324
106	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 105.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7NE (SW)	693	5	409162 421480
107	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 313.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	713	5	409270 421405
108	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 617.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Aire and Calder Primacy: 1	A8NE (SE)	719	5	409833 421428
109	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	738	5	409742 422849
110	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	759	5	409768 422865
111	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	770	5	409781 422872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 172.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	772	5	409531 421301
113	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	772	5	409531 421301
114	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 86.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NW (W)	772	5	408791 422384
115	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	773	5	409532 421301
116	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	773	5	409785 422874
117	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 197.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	783	5	409553 421291
118	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	788	5	409795 422887
119	<b>OS Water Network Lines</b> Watercourse Form: Transfer Watercourse Length: 79.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	795	5	409802 422892
120	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	835	5	410015 421392

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	839	5	410010 421384
122	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 136.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NW (W)	858	5	408715 422427
123	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 54.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	876	5	410053 421367
124	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 84.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	903	5	409419 421176
125	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 61.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	908	5	409817 423005
126	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	915	5	409327 421179
127	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	921	5	409326 421173
128	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	921	5	410106 421347
129	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 31.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	924	5	410089 421333

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 954.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Calder Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	930	5	410075 421317
131	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: Underground Permanent: True Watercourse Name: Black Brook Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	935	5	409441 421142
132	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 611.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	951	5	409432 421127
133	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	973	5	410141 421309
134	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 484.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Calder and Hebble Navigation Catchment Name: Aire and Calder Primacy: 1	A9SW (SE)	976	5	410148 421310
135	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 300.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SW (NW)	992	5	408601 422501

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	<b>BGS Recorded Landfill Sites</b> Site Name: Old Sludge Lagoon Location: Stainlow Road, HALIFAX, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13NE (NE)	81	-	409653 422156
137	<b>BGS Recorded Landfill Sites</b> Site Name: Detritus and Screenings Tip Location: North Dean, HALIFAX, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13SE (E)	146	-	409713 422035
138	<b>BGS Recorded Landfill Sites</b> Site Name: New Sludge Lagoon Location: Stainlow Road, HALIFAX, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A13SE (SE)	180	-	409702 421970
139	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Stainland Road, Greetland Name: North Dean STW Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34924 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A13NW (S)	0	2	409547 422102
140	<b>Historical Landfill Sites</b> Licence Holder: Yorkshire Water Authority Location: Off Stainland Road, Salterhebble, Halifax Name: Copley Sewage Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04136 First Input Date: 31st December 1988 Last Input Date: 31st December 1989 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0702 BGS Ref: Not Supplied Other Ref: 4700/1418, C1707	A13NW (W)	37	2	409474 422113
141	<b>Historical Landfill Sites</b> Licence Holder: Yorkshire Water Authority Location: Stainland Road, West Vale, Halifax Name: Stainland Road Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04089 First Input Date: Not Supplied Last Input Date: 24th March 1993 Specified Waste Type: Deposited Waste included Inert and Industrial Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0563 BGS Ref: Not Supplied Other Ref: 4700/0479	A13NE (E)	78	2	409659 422136



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Stainlow Road, Halifax, West Yorkshire            Name: Old Sludge Lagoon (No.1)            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD31867            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Deposited Waste included Liquid Sludge            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: 818            Other Ref: Not Supplied</p>	A13NE (NE)	82	2	409654 422157
143	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: North Dean, Halifax, West Yorkshire            Name: Detritus and Screenings Tip            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD31866            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: 817            Other Ref: Not Supplied</p>	A13SE (E)	146	2	409714 422036
144	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Stainlow Road, Halifax, West Yorkshire            Name: New Sludge Lagoon (No.2)            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD31868            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: 819            Other Ref: Not Supplied</p>	A13SE (SE)	184	2	409729 421990
145	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Wakefield Road, Copley, Halifax            Name: Copley Sewage Works            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD34851            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: Not Supplied            Other Ref: Not Supplied</p>	A13NW (NW)	184	2	409392 422240
146	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Adjacent Bank Field Grange, Saddleworth Road, Greetland            Name: Holly Mount            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD34969            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: Not Supplied            Other Ref: Not Supplied</p>	A8SW (S)	818	2	409374 421268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: C Heath and Son            Location: West Vale, Halifax, West Yorkshire            Name: Woodside Lock            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD05854            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: 60761            Regis Ref: YQ3/L/CHE001            WRC Ref: Not Supplied            BGS Ref: Not Supplied            Other Ref: WML/939</p>	A9SW (SE)	840	2	410006 421381
148	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: J Hirst            Location: Siddal, Halifax            Name: Jubilee Road            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD34909            First Input Date: 31st January 1983            Last Input Date: 31st December 1983            Specified Waste: Deposited Waste included Inert Waste            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: 4700/0711            BGS Ref: Not Supplied            Other Ref: C1814</p>	A19NW (N)	905	2	409896 422976
149	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Longland Plant            Location: Stainland Road, Bacup            Name: Onecliffe Mills            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD04093            First Input Date: 31st July 1984            Last Input Date: 24th April 1991            Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste            Type:            EA Waste Ref: 0            Regis Ref: Not Supplied            WRC Ref: 4700/0600            BGS Ref: Not Supplied            Other Ref: 4700/0459</p>	A8SW (S)	961	2	409389 421122
150	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 103367            Location: North Dean Business Park, Stainland Road, Halifax, West Yorkshire, HX4 8LR            Operator Name: Wastecare Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: HCl Waste Transfer Station  <b>Licence Status: Surrendered</b>            Issued: 7th November 2011            Last Modified: 6th June 2014            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 16th September 2020            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	53	2	409570 422040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 101980            Location: North Dean Business Park, Stainland Road, Halifax, West Yorkshire, HX4 8LR            Operator Name: Wastecare Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: WEEE treatment facility  <b>Licence Status: Surrendered</b>            Issued: 3rd November 2010            Last Modified: 21st December 2020            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 19th August 2021            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	53	2	409570 422040
150	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 405986            Location: Units 1-6, North Dean Business Park, Stainland Rd, Halifax, West Yorkshire, HX4 8LR            Operator Name: Wastecare Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: WEEE treatment facility  <b>Licence Status: Issued</b>            Issued: 17th December 2020            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	72	2	409578 422023
151	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 101670            Location: North Dean Business Park, Halifax, West Yorkshire, HX4 8LR            Operator Name: Berrett Mr Matthew            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: Inert &amp; excavation Waste TS + treatment  <b>Licence Status: Issued</b>            Issued: 22nd September 2010            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	83	2	409498 422184
152	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 60781            Location: Land Adjacent To Salterhebble Locks, Stainland Road, Salterhebble, Halifax, West Yorkshire, HX3 0TP            Operator Name: British Waterways Board            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Issued</b>            Issued: 15th March 1994            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	156	2	409517 422274

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 60761            Location: Land/ Premises At, Calder Street, West Vale, Halifax, West Yorkshire, HX4 8AQ            Operator Name: C Heath &amp; Son            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, Yorkshire Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Issued</b>            Issued: 6th June 1991            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	964	2	409996 421235
	<p><b>Local Authority Landfill Coverage</b></p> <p>Name: Calderdale Metropolitan Borough Council            - Has supplied landfill data</p>		0	3	409547 422102
154	<p><b>Local Authority Recorded Landfill Sites</b></p> <p>Location: Colpey Sewage Works            Reference: Not Supplied            Authority: Calderdale Metropolitan Borough Council, Environmental Health  <b>Last Reported Status: Unknown</b>            Types of Waste: Excavation, Old Manhole, Stop Tap Covers            Date of Closure: Not Supplied            Positional Accuracy: Positioned by the supplier            Boundary Quality: Moderate</p>	A13NW (NW)	355	3	409287 422375
155	<p><b>Local Authority Recorded Landfill Sites</b></p> <p>Location: Jubilee Road, Siddal, Halifax            Reference: Not Supplied            Authority: Calderdale Metropolitan Borough Council, Environmental Health  <b>Last Reported Status: Unknown</b>            Types of Waste: Topsoil            Date of Closure: Not Supplied            Positional Accuracy: Positioned by the supplier            Boundary Quality: Moderate</p>	A19NW (NE)	992	3	409954 423047
156	<p><b>Potentially Infilled Land (Non-Water)</b></p> <p>Bearing Ref: NE            Use: Unknown Filled Ground (Pit, quarry etc)            Date of Mapping: 1983</p>	A13NE (NE)	221	-	409666 422332
157	<p><b>Potentially Infilled Land (Non-Water)</b></p> <p>Bearing Ref: S            Use: Unknown Filled Ground (Pit, quarry etc)            Date of Mapping: 1983</p>	A8NW (S)	479	-	409533 421595
158	<p><b>Potentially Infilled Land (Non-Water)</b></p> <p>Bearing Ref: SE            Use: Unknown Filled Ground (Pit, quarry etc)            Date of Mapping: 1990</p>	A9NW (SE)	754	-	410214 421689
159	<p><b>Potentially Infilled Land (Non-Water)</b></p> <p>Bearing Ref: NW            Use: Unknown Filled Ground (Pit, quarry etc)            Date of Mapping: 1983</p>	A17SE (NW)	791	-	409096 422772
160	<p><b>Potentially Infilled Land (Non-Water)</b></p> <p>Bearing Ref: NE            Use: Unknown Filled Ground (Pit, quarry etc)            Date of Mapping: 1990</p>	A19SW (NE)	817	-	410194 422664
161	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)            Date of Mapping: 1895</p>	A13NE (N)	255	-	409587 422385
162	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)            Date of Mapping: 1908</p>	A8NE (S)	569	-	409582 421508
163	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)            Date of Mapping: 1956</p>	A19SW (NE)	600	-	410028 422524

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956</p>	A8SE (S)	726	-	409571 421350
165	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956</p>	A18NE (N)	867	-	409789 422971
166	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956</p>	A17SW (NW)	994	-	408634 422571
167	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Yorkshire Water Services Ltd Licence Reference: 479 Site Location: Halifax Water Pollution Works, Stainland Road, Greetland, HALIFAX, West Yorkshire, HX4 8LR Licence Easting: 409700 Licence Northing: 422100 Operator Location: West Riding House, 67 Albion Street, LEEDS, West Yorkshire, LS1 5AA Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1990 Preceded By: 479 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Screenings/Grit/Sludge Prohibited Waste: Industrial Effluent Treatment Sludge Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes Settlement Sludges From Primary Tanks</p>	A13SE (E)	113	2	409700 422100
167	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Yorkshire Water Authority Licence Reference: 479 Site Location: Halifax Water Pollution Works, Stainland Road, Greetland, HALIFAX, West Yorkshire, HX4 8LR Licence Easting: 409700 Licence Northing: 422100 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st December 1984 Preceded By: Not Given Licence: Superseded By: 479 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials \$ Sewage Screenings/Grit Prohibited Waste: Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes</p>	A13SE (E)	113	2	409700 422100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: Joseph Redford Ltd                      Licence Reference: 351                      Site Location: Hollyns Warehouse, Greetland, Halifax, West Yorkshire                      Operator Location: As Site Address                      Authority: Environment Agency - North East Region, Ridings Area                      Site Category: Transfer                      Max Input Rate: Very Small (Less than 10,000 tonnes per year)                      Waste Source: No known restriction on source of waste                      Restrictions:                      Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled                      Dated: 17th January 1983                      Preceded By: Not Given                      Licence:                      Superseded By: Not Given                      Licence:                      Positional Accuracy: Approximate location provided by supplier                      Boundary Quality: Not Supplied                      Authorised Waste: Asbestos Based Thermal Insulation                      Max.Waste Permitted By Licence</p>	A8SW (S)	674	2	409500 421400
169	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: C Heath &amp; Son                      Licence Reference: 939                      Site Location: Solar Works, Calder Street, West Vale, Halifax, West Yorkshire, Hx4 8ha                      Operator Location: As Site Address                      Authority: Environment Agency - North East Region, Ridings Area                      Site Category: Transfer                      Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)                      Waste Source: No known restriction on source of waste                      Restrictions:                      Licence Status: Operational as far as is knownOperational                      Dated: 1st June 1991                      Preceded By: Not Given                      Licence:                      Superseded By: Not Given                      Licence:                      Positional Accuracy: Manually positioned to the address or location                      Boundary Quality: Not Supplied                      Authorised Waste: Max.Storage Permitted By Licence                      Max.Waste Permitted By Licence                      Paper/Cardboard                      Polystyrene                      Polythene                      Textiles                      Timber                      Uncontam. General Com./Ind. Incl.                      Prohibited Waste: Poisonous, Noxious, Polluting Wastes</p>	A9SW (SE)	885	2	409950 421300
170	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: British Waterways - Aire &amp; Calder Nav                      Licence Reference: 1418                      Site Location: Salterhebble Low Basin, Halifax, West Yorkshire                      Operator Location: Lock Lane, CASTLEFORD, West Yorkshire, WF10 2LH                      Authority: Environment Agency - North East Region, Ridings Area                      Site Category: Storage                      Max Input Rate: Very Small (Less than 10,000 tonnes per year)                      Waste Source: Only waste produced on site                      Restrictions:                      Licence Status: Operational as far as is knownOperational                      Dated: 1st March 1994                      Preceded By: Not Given                      Licence:                      Superseded By: Not Given                      Licence:                      Positional Accuracy: Located by supplier to within 100m                      Boundary Quality: Not Supplied                      Authorised Waste: Dredged Canal Silt                      Max.Waste Permitted By Licence                      Prohibited Waste: Liable To Cause Environmental Hazards                      Poisonous, Noxious And Polluting N.O.S                      Waste N.O.S.</p>	A13NW (N)	151	2	409520 422270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Calderdale Health Authority            Licence Reference: 1008            Site Location: Royal Halifax Infirmary, Free School Lane, Halifax, West Yorkshire            Operator Location: Royal Halifax Infirmary, Free School Lane, Halifax, West Yorkshire            Authority: Environment Agency - North East Region, Ridings Area            Site Category: Incineration            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 1st February 1992            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Approximate location provided by supplier            Boundary Quality: Not Supplied            Authorised Waste            Clinical Wastes            Com./Ind. Waste As Paper/Cardboard            Cytotoxic Drugs            Domestic Waste            Prohibited Waste            Laboratory Reagents            Poisonous, Noxious And Polluting N.O.S</p>	A18NW (N)	986	2	409400 423100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Bayford &amp; Co Ltd            Location: Station Lane Stainland Road, Halifax, West Yorkshire, HX4 8LP            Reference: 1034907            Type: Lower Tier            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	83	6	409443 422039



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Millstone Grit Group [See Also Migr]	A13NW (S)	0	1	409547 422102
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (S)	0	1	409547 422102
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	7	1	409500 422102
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	76	1	409503 421998
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	125	1	409679 422199
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	140	1	409452 421950
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13SW (SW)	163	1	409373 422000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 200 - 300 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	189	1	409739 422225
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A13SW (S)	194	1	409513 421872
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13SE (E)	285	1	409851 422000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (N)	314	1	409486 422432
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 200 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (N)	314	1	409500 422435
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (N)	315	1	409486 422432

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A14SW (E)	360	1	409930 422000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	371	1	409600 422500
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	387	1	409688 422500
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	391	1	409446 422499
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A18SW (N)	399	1	409430 422502
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A18SE (NE)	404	1	409738 422500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A14NW (E)	413	1	410000 422102
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A14SW (E)	427	1	410000 422000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	466	1	410050 422052
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (NE)	503	1	409983 422424
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	507	1	409000 422102
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	507	1	410086 422017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A12SE (W)	508	1	409000 422079
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	520	1	409000 422211
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	542	1	410122 422022
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	568	1	410134 421957
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A8NE (SE)	575	1	409805 421574
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	575	1	410161 422071

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A12NE (W)	591	1	408956 422309
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NE (NW)	602	1	409000 422421
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A17SE (NW)	634	1	409000 422477
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A17SE (NW)	648	1	409000 422500
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A19SE (NE)	813	1	410293 422513
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A8SE (S)	833	1	409684 421257

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	848	1	409327 422942
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A18NE (N)	870	1	409559 423000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	873	1	408681 422378
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A12NW (W)	923	1	408612 422323
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A19NW (N)	929	1	409902 423000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A17SW (W)	935	1	408651 422472

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A18NE (N)	962	1	409846 423053
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A7SE (SW)	964	1	409000 421261
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A8SE (S)	966	1	409803 421151
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A17SW (NW)	966	1	408630 422500
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A9NE (SE)	970	1	410442 421651
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A17SW (NW)	986	1	408607 422500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Calder And Hebble Inn            Location: Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 72891            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Millstone Grit Group            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	211	1	409638 422332
174	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Exley Hall Quarry            Location: Upper Exley, Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 73574            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Pennine Lower Coal Measures Formation            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	317	1	409900 422058
175	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Calder And Hebble Inn            Location: Upper Exley, Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 72890            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Millstone Grit Group            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	321	1	409674 422436
176	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Dean Top Delf            Location: Greetland, Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 91196            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Rough Rock            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A8NE (S)	502	1	409671 421596
177	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Dean Top Delf            Location: Greetland, Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 91195            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Rough Rock            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A8NW (S)	512	1	409515 421562
178	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Elland Tunnel            Location: Southowram, Halifax, West Yorkshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 91197            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Millstone Grit Group            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	565	1	410031 421759

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	<b>BGS Recorded Mineral Sites</b> Site Name: Park Gate Coal Pit Location: Upper Exley, Halifax, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 73573 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	815	1	410187 422669
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (S)	0	7	409547 422102
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	76	1	409503 421998
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	409679 422199
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	140	1	409452 421950
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	17	1	409496 422080
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	409679 422199
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	140	1	409452 421950
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	201	1	409338 422207
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	8	1	409551 422133
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	26	1	409607 422126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	71	1	409459 422147
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	108	1	409651 422208
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	122	1	409568 421962
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	131	1	409663 422227
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	141	1	409691 422212
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	145	1	409433 421956
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	162	1	409452 422250
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	167	1	409708 421992
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	175	1	409354 422012
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	185	1	409547 421891
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	189	1	409739 422225
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	201	1	409338 422207
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	210	1	409310 422023
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	215	1	409653 421901
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	225	1	409363 422268
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	17	1	409496 422080
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	409679 422199
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	140	1	409452 421950
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	201	1	409338 422207
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	409678 422201
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	131	1	409433 421975
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	189	1	409739 422225
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	409547 422076
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	409547 422102
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	409547 422076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Halifax Commercial Vehicle Repairs Ltd            Location: Unit 3 North Dean Business Park, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8LR            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	18	-	409513 422120
180	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: T M Haulage &amp; Excavation            Location: North Dean Business Park, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8LR            Classification: Road Haulage Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13NW (NW)	19	-	409513 422120
181	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Oilswell Ltd            Location: Unit 2, North Dean Business Pk, Stainland Rd, Greetland, Halifax, West Yorkshire, HX4 8LR            Classification: Oil Fuel Distributors  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	43	-	409571 422052
181	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: J D T Foods Ltd            Location: Unit 2 North Dean Business Park, Stainland Rd, Halifax, West Yorkshire, HX4 8LR            Classification: Oil Recycling &amp; Disposal Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	43	-	409571 422052
181	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pulsonic Technologies            Location: North Dean Business Pk, Stainland Rd, Greetland, Halifax, West Yorkshire, HX4 8LR            Classification: Flow Measurement Systems - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	53	-	409551 422031
182	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Townson Thornber            Location: Railway Sidings, Station Lane, Greetland, Halifax, West Yorkshire, HX4 8LP            Classification: Oil Fuel Distributors  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	82	-	409444 422040
182	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bayford Oils            Location: Station Lane, Greetland, Halifax, West Yorkshire, HX4 8LP            Classification: Oil Fuel Distributors  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	82	-	409444 422040
182	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bayford            Location: Station Lane, Greetland, Halifax, West Yorkshire, HX4 8LP            Classification: Oil Companies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	82	-	409444 422040
183	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Domestic Electric            Location: 80, Chevinedge Crescent, Halifax, West Yorkshire, HX3 9EQ            Classification: Washing Machines - Servicing &amp; Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	354	-	409852 422351
184	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hanson Haigh Transport            Location: 24, Bankhouse Lane, Halifax, West Yorkshire, HX3 0QJ            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	466	-	409550 422595
185	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Clarehill Plastics            Location: 16, Exley Bank, Halifax, West Yorkshire, HX3 9LH            Classification: Tanks, Vats &amp; Cisterns  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SE (NE)	495	-	409836 422551

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: J O Fairbank            Location: 5, Bank Top, Greetland, Halifax, West Yorkshire, HX4 8HL            Classification: Dairies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	499	-	409384 421593
187	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: N C Wallace            Location: 2, Bank Top, Greetland, Halifax, West Yorkshire, HX4 8HL            Classification: Woodburning Stoves  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	503	-	409447 421576
187	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Flamez            Location: 2, Bank Top, Greetland, Halifax, HX4 8HL            Classification: Fireplaces &amp; Mantelpieces  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	503	-	409445 421576
188	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: C N C Services Ltd            Location: Clayhouse La, Greetland, Halifax, West Yorkshire, HX4 8AW            Classification: Woodworking Machinery  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SW (S)	660	-	409402 421424
189	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: J D T Oils            Location: 72, Rochdale Road, Greetland, Halifax, West Yorkshire, HX4 8HE            Classification: Recycling Centres  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	712	-	409267 421407
189	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A B C Fire Protection            Location: Rochdale Rd, Greetland, Halifax, West Yorkshire, HX4 8HE            Classification: Firefighting Equipment  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SW (SW)	743	-	409238 421386
190	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Quillnorth Ltd            Location: Copley Wood, Copley Lane, Halifax, West Yorkshire, HX3 0TJ            Classification: Blinds, Awnings &amp; Canopies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	719	-	409059 422658
191	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Richard Baldwin Motorhomes            Location: Wakefield Road, Copley, Halifax, West Yorkshire, HX3 0TP            Classification: Caravans - Servicing &amp; Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	722	-	408960 422567
192	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: H R G            Location: Halifax, HX3 0TP            Classification: Road Haulage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	728	-	408907 422509
192	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Spray-Tec (Halifax) Ltd            Location: Star Garage, Wakefield Road, Copley, HALIFAX, West Yorkshire, HX3 0TP            Classification: Car Body Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	730	-	408906 422511
192	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Star Garage            Location: Star Garage, Wakefield Road, Copley, Halifax, West Yorkshire, HX3 0TP            Classification: Car Body Repairs  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SE (NW)	730	-	408906 422511
192	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Copley Engineering Ltd            Location: Wakefield Road, Copley, Halifax, HX3 0TP            Classification: Engineers - General  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	733	-	408928 422545

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jamieson'S Blinds            Location: 54, Exley Lane, Elland, West Yorkshire, HX5 0SW            Classification: Blinds, Awnings &amp; Canopies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	730	-	410282 421886
193	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jamiesons Blinds            Location: 54, Exley Lane, Elland, West Yorkshire, HX5 0SW            Classification: Blinds, Awnings &amp; Canopies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	730	-	410282 421886
193	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jamieson'S            Location: 54, Exley Lane, Elland, West Yorkshire, HX5 0SW            Classification: Blinds, Awnings &amp; Canopies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	730	-	410282 421886
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Park Garage            Location: Park Garage, Rochdale Road, Greetland, Halifax, HX4 8AL            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	741	-	409658 421346
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Park Garage            Location: Park Garage, Rochdale Road, Greetland, Halifax, HX4 8AL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	741	-	409658 421346
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: D Pitchforth Ltd            Location: Park Garage, Rochdale Road, Greetland, Halifax, West Yorkshire, HX4 8AL            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	742	-	409658 421345
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Brow Bridge Garage            Location: 16, Rochdale Road, Greetland, Halifax, HX4 8AL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	766	-	409657 421320
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Brow Bridge Garage            Location: 16, Rochdale Road, Greetland, Halifax, West Yorkshire, HX4 8AL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	766	-	409659 421321
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: North Dean Automotive Ltd            Location: Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8LS            Classification: Car Body Repairs  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	766	-	409659 421321
195	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ralph Douglas            Location: Lower Skircoat Green, Halifax, West Yorkshire, HX3 0TG            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A17SE (NW)	752	-	409103 422731
196	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Odourgone            Location: 20, Green Park Avenue, Halifax, West Yorkshire, HX3 0SR            Classification: Fumigation Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NW (N)	763	-	409408 422875
197	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ace Domestic Cleaners            Location: 185, Backhold Drive, Halifax, West Yorkshire, HX3 9DX            Classification: Cleaning Services - Domestic  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	774	-	410064 422731

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Prospect Furniture Ltd            Location: Prospect Mills, Alfred Street, Greetland, Halifax, West Yorkshire, HX4 8LT            Classification: Office Furniture &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	785	-	409803 421342
199	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Elland Cemetery            Location: Exley La, Elland, West Yorkshire, HX5 0SW            Classification: Cemeteries &amp; Crematoria  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	798	-	410300 421751
200	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hodgson Heating Ltd            Location: 4, Copley Wood View, New Lane, Skircoat Green, Halifax, West Yorkshire, HX3 0TE            Classification: Catering Equipment - Servicing &amp; Repairs  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	803	-	409055 422760
201	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Shell (Uk) Ltd            Location: Salterhebble Hill, Halifax, West Yorkshire, HX3 0QE            Classification: Petrol Filling Stations - 24 Hour  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	804	-	409770 422910
201	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Shell            Location: Salterhebble Hill, Halifax, HX3 0QE            Classification: Petrol Filling Stations  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	817	-	409769 422924
201	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Shell Select            Location: Salterhebble Hill, Halifax, HX3 0QE            Classification: Petrol Filling Stations - 24 Hour  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	817	-	409769 422924
202	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Calder Valley Grab &amp; Tip Hire Ltd            Location: ACORNS, LOWER SKIRCOAT GREEN, HALIFAX, HX3 0TG            Classification: Waste Disposal Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	830	-	408999 422752
203	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Graham Brenkley            Location: 3, Goldfields Way, Greetland, Halifax, West Yorkshire, HX4 8LA            Classification: French Polishing  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	832	-	408808 421640
203	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A Sweeney            Location: 15, Moorlands Court, Greetland, Halifax, West Yorkshire, HX4 8LF            Classification: Precision Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	835	-	408821 421616
204	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Transaxle Services            Location: Bankhouse Lane, Halifax, West Yorkshire, HX3 0QL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	834	-	409705 422954
204	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fires &amp; Fireplaces            Location: 336, Salterhebble Hill, Halifax, West Yorkshire, HX3 0QT            Classification: Fireplaces &amp; Mantelpieces  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	839	-	409731 422954



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Butterflies            Location: 69, Park Lane, Halifax, West Yorkshire, HX3 9LE            Classification: Cleaning Services - Domestic  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	840	-	410172 422722
206	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Andy Thornton Ltd            Location: Victoria Mills, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8AD            Classification: Reclamation Centres  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	856	-	409619 421224
207	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Clapham Agricultural Engineering Ltd            Location: 132, Rochdale Road, Greetland, Halifax, HX4 8HR            Classification: Agricultural Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	864	-	409029 421362
208	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Dent Knight            Location: 10, Moorlands Court, Greetland, Halifax, West Yorkshire, HX4 8LF            Classification: Car Body Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	865	-	408818 421566
209	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Car Scraping Scrap Yards In Halifax            Location: West Vale Civic Hall, Rochdale Road, Greetland, Halifax, HX4 8AH            Classification: Car Breakers &amp; Dismantlers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	867	-	409746 421237
210	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: G B R S Ltd Within St Johns Church            Location: Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Clocks &amp; Watches - Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	869	-	409817 421258
210	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Watches R Us            Location: St. Johns, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Clocks &amp; Watches - Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	869	-	409817 421258
210	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tik Tik            Location: St. Johns, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Clocks &amp; Watches - Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	869	-	409817 421258
211	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: T R &amp; P A Shaw            Location: 3, Cedar Grove, Greetland, Halifax, West Yorkshire, HX4 8HT            Classification: Plant &amp; Machinery Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	879	-	408932 421420
212	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Convenience Distribution Group Ltd            Location: Old Railway Goods Yard, Exley Lane, Elland, West Yorkshire, HX5 0SW            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A9NE (SE)	898	-	410383 421693
213	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Habitat Unique Ltd            Location: The Long Mill, Rochdale Road, Greetland, Halifax, HX4 8AL            Classification: Lighting Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	901	-	409538 421173
214	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Marron Design            Location: 7-9, Maude Street, Greetland, Halifax, West Yorkshire, HX4 8AJ            Classification: Clothing &amp; Fabrics - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	911	-	409697 421180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Engineerium Ltd            Location: Lambert Street, Greetland, Halifax, West Yorkshire, HX4 8AA            Classification: Engineers - General  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	933	-	409718 421163
214	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lambert Street Garage            Location: Lambert Street, Greetland, Halifax, HX4 8AA            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	936	-	409709 421157
215	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sheard Packaging            Location: Solar Works, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Boxes &amp; Cartons  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	916	-	409976 421279
215	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S Sheard            Location: Solar Works, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	916	-	409976 421279
216	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Principle Furniture            Location: 14, Skircoat Green, Halifax, West Yorkshire, HX3 0RX            Classification: Office Furniture &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	917	-	409124 422929
217	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Clean World            Location: 72-74, Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8AG            Classification: Dry Cleaners  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	918	-	409636 421163
218	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bag It Up Ltd            Location: 3a, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Recycling Centres  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	926	-	409877 421221
218	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sheard Packaging Ltd            Location: Solar Mill, Calder Street, Greetland, Halifax, West Yorkshire, HX4 8AQ            Classification: Boxes &amp; Cartons  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A9SW (S)	930	-	409896 421224
219	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hebble Concrete Co            Location: Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8AG            Classification: Concrete Products  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	951	-	409757 421153
219	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Smith Construction Services            Location: 25, Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8AG            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	999	-	409764 421105
220	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Barry Smithies            Location: Rochdale Rd, Greetland, Halifax, West Yorkshire, HX4 8LJ            Classification: Car Dealers - Used  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SE (S)	953	-	409825 421172
221	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Carpets &amp; Rugs @ 47            Location: 47, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8BD            Classification: Carpets &amp; Rugs - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	958	-	409576 421117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: West Vale Laundry Services            Location: 55, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8BD            Classification: Laundries &amp; Launderettes  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	973	-	409566 421102
221	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Marshall Gas Services Ltd            Location: 61a, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8BD            Classification: Boilers - Servicing, Replacements &amp; Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	982	-	409557 421092
221	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Marshall Gas Services Ltd            Location: West Vale Chambers, 61, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8BD            Classification: Boilers - Servicing, Replacements &amp; Repairs  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A3NE (S)	987	-	409556 421088
221	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: E Binns &amp; Sons Ltd            Location: 63-69, Stainland Road, Greetland, Halifax, West Yorkshire, HX4 8BD            Classification: Engineers - General  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A3NE (S)	994	-	409548 421080
222	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Deep Clean            Location: 72, Backhold Drive, Halifax, HX3 9DT            Classification: Carpet, Curtain &amp; Upholstery Cleaners  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	959	-	410114 422924
223	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: R C L Express            Location: 41, Highfield Avenue, Greetland, Halifax, West Yorkshire, HX4 8JD            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	962	-	408734 421518
224	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Halifax Panelcraft            Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ            Classification: Car Body Repairs  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	962	-	409406 421118
224	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wood Carr            Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	966	-	409387 421117
224	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Woodcarr Joiners &amp; Shopfitters            Location: Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8LZ            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	968	-	409386 421115
225	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: R Manchester            Location: 23, Chapel Lane, Halifax, West Yorkshire, HX3 0QN            Classification: Lawnmowers &amp; Garden Machinery - Sales &amp; Service  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	965	-	409761 423077
226	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: R &amp; J Car Sales            Location: GREETLAND, ELLAND, HX4 8LZ            Classification: Car Dealers - Used  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	977	-	409379 421107

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	<b>Contemporary Trade Directory Entries</b> Name: Greetland Auto Sales Location: Saddleworth Rd, Greetland, Halifax, West Yorkshire, HX4 8LZ Classification: Car Dealers - Used Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	984	-	409308 421112
226	<b>Contemporary Trade Directory Entries</b> Name: Greetland Auto Sales Location: Saddleworth Rd, Greetland, Halifax, West Yorkshire, HX4 8LZ Classification: Car Dealers - Used Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	984	-	409308 421112
226	<b>Contemporary Trade Directory Entries</b> Name: Sunside Services Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Classification: Garage Services Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A8SW (S)	987	-	409337 421104
226	<b>Contemporary Trade Directory Entries</b> Name: Sunside Location: Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8LZ Classification: Tyre Dealers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A8SW (S)	990	-	409340 421100
226	<b>Contemporary Trade Directory Entries</b> Name: Barry Smithies Location: Saddleworth Road, Greetland, Halifax, West Yorkshire, HX4 8LZ Classification: Car Dealers - Used Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A8SW (S)	990	-	409340 421100
227	<b>Contemporary Trade Directory Entries</b> Name: Brookes Cleaners Location: 336, Skircoat Green Road, Halifax, West Yorkshire, HX3 0LX Classification: Laundries & Launderettes Status: <b>Active</b> Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	992	-	409113 423008
228	<b>Fuel Station Entries</b> Name: Bayford And Co Halifax Hgv Location: Stainland Road , Greetland , Halifax, West Yorkshire, HX4 8LP Brand: Unbranded Premises Type: Not Applicable Status: <b>Obsolete</b> Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	83	-	409443 422040
229	<b>Fuel Station Entries</b> Name: Shell Salterhebble Location: Salter Hebble Hill , , Halifax, West Yorkshire, HX3 0QE Brand: SHELL Premises Type: Petrol Station Status: <b>Open</b> Positional Accuracy: Automatically positioned to the address	A18NE (N)	804	-	409770 422910
230	<b>Fuel Station Entries</b> Name: Copley Hall Service Station Location: Wakefield Road , , Halifax, West Yorkshire, HX3 0UA Brand: Obsolete Premises Type: Not Applicable Status: <b>Obsolete</b> Positional Accuracy: Automatically positioned to the address	A17SW (NW)	891	-	408738 422545
231	<b>Fuel Station Entries</b> Name: Sunside Service Station Location: Saddleworth Road , Greetland , Halifax, West Yorkshire, HX4 8LZ Brand: UNBRANDED Premises Type: Petrol Station Status: <b>Closed</b> Positional Accuracy: Manually positioned to the address or location	A8SW (S)	986	-	409352 421102
232	<b>Points of Interest - Commercial Services</b> Name: Halifax Commercial Vehicle Repairs Ltd Location: Unit 3 Mjb Excavations, North Dean Business Park, Stainland Road, Elland, HX4 8LR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	18	8	409513 422119

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	<b>Points of Interest - Commercial Services</b> Name: T M Haulage & Excavation Location: North Dean Business Park, Stainland Road, Greetland, Halifax, HX4 8LR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (NW)	19	8	409513 422120
233	<b>Points of Interest - Commercial Services</b> Name: H R G Location: Star Garage, Wakefield Road, Copley, Halifax, HX3 0TP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	728	8	408907 422509
233	<b>Points of Interest - Commercial Services</b> Name: Star Garage Location: Star Garage, Wakefield Road, Copley, Halifax, HX3 0TP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	730	8	408906 422511
233	<b>Points of Interest - Commercial Services</b> Name: Star Garage Location: Star Garage, Wakefield Road, Copley, Halifax, HX3 0TP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	730	8	408906 422511
234	<b>Points of Interest - Commercial Services</b> Name: D Pitchforth Ltd Location: Park Garage, Rochdale Road, Greetland, Elland, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	741	8	409658 421346
234	<b>Points of Interest - Commercial Services</b> Name: Park Garage Location: Park Garage, Rochdale Road, Greetland, Elland, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	741	8	409658 421346
234	<b>Points of Interest - Commercial Services</b> Name: Park Garage Location: Rochdale Road, Greetland, Halifax, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	742	8	409658 421345
234	<b>Points of Interest - Commercial Services</b> Name: Park Garage Location: Park Garage, Rochdale Road, Greetland, Halifax, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	742	8	409658 421345
234	<b>Points of Interest - Commercial Services</b> Name: D Pitchforth Ltd Location: Rochdale Road, Greetland, Halifax, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	742	8	409658 421345
234	<b>Points of Interest - Commercial Services</b> Name: Park Garage Location: Park Garage, Rochdale Road, Greetland, Halifax, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	742	8	409658 421345
234	<b>Points of Interest - Commercial Services</b> Name: North Dean Automotive Ltd Location: Stainland Road, Greetland, Halifax, HX4 8LS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	766	8	409659 421321
234	<b>Points of Interest - Commercial Services</b> Name: Brow Bridge Garage Location: 16 Rochdale Road, Greetland, Halifax, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	766	8	409659 421321

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	<b>Points of Interest - Commercial Services</b> Name: Brow Bridge Garage Location: 16-18 Rochdale Road, Greetland, Elland, HX4 8AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	766	8	409657 421320
235	<b>Points of Interest - Commercial Services</b> Name: Odourgone Location: 20 Green Park Avenue, Halifax, HX3 0SR Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A18NW (N)	763	8	409408 422875
236	<b>Points of Interest - Commercial Services</b> Name: North Dean Automotive Ltd Location: North Dean Mills, Stainland Road, Elland, HX4 8LS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	780	8	409821 421355
237	<b>Points of Interest - Commercial Services</b> Name: Car Wash Location: Salterhebble Hill, Halifax, HX3 0QE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NE (N)	804	8	409770 422910
237	<b>Points of Interest - Commercial Services</b> Name: Transaxle Services Location: Bankhouse Lane, Halifax, HX3 0QL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	834	8	409705 422954
237	<b>Points of Interest - Commercial Services</b> Name: Transaxle Services Location: Bankhouse Lane, Halifax, HX3 0QL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	834	8	409705 422954
238	<b>Points of Interest - Commercial Services</b> Name: Ralph Douglas Location: Acorns, Lower Skircoat Green, Halifax, HX3 0TG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	825	8	409004 422750
239	<b>Points of Interest - Commercial Services</b> Name: Shell Salterhebble Location: Salterhebble Hill, Halifax, HX3 0QE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NE (N)	840	8	409795 422941
240	<b>Points of Interest - Commercial Services</b> Name: Sheard Packaging Location: Solar Works, Calder Street, Greetland, Halifax, HX4 8AQ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A9SW (SE)	916	8	409976 421279
241	<b>Points of Interest - Commercial Services</b> Name: Lambert Street Garage Location: Lambert Street, Greetland, Halifax, HX4 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	933	8	409718 421163
241	<b>Points of Interest - Commercial Services</b> Name: Lambert Street Garage Location: Lambert Street, Greetland, Halifax, HX4 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	933	8	409709 421161
242	<b>Points of Interest - Commercial Services</b> Name: Deep Clean Vehicle Valeting Location: Brook Mills, Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	956	8	409490 421118

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	<b>Points of Interest - Commercial Services</b> Name: Halifax Panelcraft Location: West Vale Garage, Saddleworth Road, Greetland, Elland, HX4 8LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	963	8	409405 421117
243	<b>Points of Interest - Commercial Services</b> Name: Sunside Service Station Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	986	8	409352 421102
243	<b>Points of Interest - Commercial Services</b> Name: Car Wash Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	986	8	409352 421102
243	<b>Points of Interest - Commercial Services</b> Name: Barry Smithies Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	990	8	409340 421100
243	<b>Points of Interest - Commercial Services</b> Name: Sunside Service Station Ltd Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	990	8	409340 421100
243	<b>Points of Interest - Commercial Services</b> Name: Sunside Service Station Ltd Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	990	8	409340 421100
244	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	45	8	409489 422040
244	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	53	8	409490 422029
244	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (SW)	63	8	409486 422020
244	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (SW)	63	8	409475 422028
244	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (SW)	64	8	409501 422012
245	<b>Points of Interest - Manufacturing and Production</b> Name: North Dean Business Park Location: HX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	76	8	409589 422024

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
245	<b>Points of Interest - Manufacturing and Production</b> Name: Business Park Location: HX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	116	8	409589 421980
246	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: HX3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	457	8	409671 422577
247	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: HX3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	464	8	409196 422441
247	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	472	8	409189 422445
247	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	474	8	409185 422444
248	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	609	8	409618 421473
248	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	609	8	409618 421473
249	<b>Points of Interest - Manufacturing and Production</b> Name: Shaft Location: HX5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	710	8	410162 421692
250	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	728	8	409397 421356
250	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	729	8	409392 421356
251	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	732	8	408928 422544
251	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	732	8	408928 422544



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	785	8	409819 421349
252	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	785	8	409819 421349
252	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	794	8	409801 421332
252	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	795	8	409801 421331
253	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	837	8	409710 422956
253	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	837	8	409711 422956
253	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	840	8	409785 422943
254	<b>Points of Interest - Manufacturing and Production</b> Name: Shaft Location: HX5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	854	8	410313 421658
255	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	870	8	409962 421323
255	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	870	8	409962 421323
256	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: HX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	889	8	409577 421187
256	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	902	8	409536 421172

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	902	8	409536 421172
257	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	898	8	409707 421196
257	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	898	8	409703 421195
258	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	942	8	409736 423058
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	950	8	409506 421124
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	950	8	409506 421124
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	973	8	409512 421101
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	973	8	409512 421101
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	989	8	409511 421085
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	990	8	409511 421084
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	996	8	409547 421078
259	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	997	8	409547 421077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
260	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	958	8	409407 421122
260	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: HX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A8SW (S)	960	8	409406 421120
261	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	969	8	408988 421263
262	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NW (N)	15	8	409545 422132
262	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NW (N)	15	8	409546 422132
263	<b>Points of Interest - Public Infrastructure</b> Name: Recycling Business Location: HX4 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	57	8	409563 422033
263	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	85	8	409631 422036
263	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	86	8	409637 422038
264	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	212	8	409530 422337
264	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	215	8	409529 422340
264	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	247	8	409588 422377
264	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	281	8	409496 422399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
264	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	285	8	409490 422402
265	<b>Points of Interest - Public Infrastructure</b> Name: Greetland Junction Location: HX4 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	227	8	409643 421883
266	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	333	8	409522 422459
266	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	335	8	409514 422459
267	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	342	8	409227 422293
267	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Pump House Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	346	8	409222 422292
267	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NW (NW)	365	8	409229 422332
267	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	400	8	409220 422375
268	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	343	8	409581 422473
268	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	344	8	409578 422474
268	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18SE (N)	353	8	409650 422475
269	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX4 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	427	8	409934 421860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	474	8	409672 422594
270	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18SE (N)	480	8	409687 422597
271	<b>Points of Interest - Public Infrastructure</b> Name: Cemetery Location: HX4 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	548	8	409278 421581
272	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	577	8	408971 422308
272	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	581	8	408965 422306
272	<b>Points of Interest - Public Infrastructure</b> Name: Sludge Tanks Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	618	8	408956 422375
272	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12NE (W)	643	8	408913 422343
272	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX3 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	657	8	408894 422332
273	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX4 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	582	8	409638 421504
273	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX4 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	583	8	409642 421504
274	<b>Points of Interest - Public Infrastructure</b> Name: Elland Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	750	8	410250 421757
274	<b>Points of Interest - Public Infrastructure</b> Name: Elland Cemetery Location: HX5 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	750	8	410250 421757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
274	<b>Points of Interest - Public Infrastructure</b> Name: Cemetery Location: HX5 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	754	8	410286 421827
275	<b>Points of Interest - Public Infrastructure</b> Name: Shell UK Location: Salterhebble Hill, Halifax, HX3 0QE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	804	8	409770 422910
275	<b>Points of Interest - Public Infrastructure</b> Name: Shell Salterhebble Location: Salterhebble Hill, Halifax, HX3 0QE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	804	8	409769 422910
275	<b>Points of Interest - Public Infrastructure</b> Name: Shell Salterhebble Location: Salterhebble Hill, Halifax, HX3 0QE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	804	8	409770 422910
275	<b>Points of Interest - Public Infrastructure</b> Name: Shell Salterhebble Location: Salterhebble Hill, Halifax, HX3 0QE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	804	8	409769 422910
275	<b>Points of Interest - Public Infrastructure</b> Name: Shell Location: Salterhebble Hill, Halifax, HX3 0QE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	805	8	409770 422911
276	<b>Points of Interest - Public Infrastructure</b> Name: Calder Valley Grab & Tip Hire Ltd Location: The Acorns Lower Skircoat Green, Copley Lane, Halifax, HX3 0TG Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A17SE (NW)	830	8	408999 422752
277	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	835	8	410006 421386
277	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	837	8	410009 421385
277	<b>Points of Interest - Public Infrastructure</b> Name: Refuse Tip Location: HX4 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	898	8	410032 421328
278	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: HX4 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	889	8	409435 421189
279	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	897	8	409875 422976

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
279	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: HX3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	898	8	409873 422977
280	<b>Points of Interest - Public Infrastructure</b> Name: Charles Heath & Son Location: Solar Works, Calder Street, Greetland, Halifax, HX4 8AQ Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A9SW (SE)	916	8	409976 421279
280	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Works Location: HX4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9SW (SE)	972	8	409926 421192
281	<b>Points of Interest - Public Infrastructure</b> Name: Sunside Service Station Location: Saddleworth Road, Greetland, Halifax, HX4 8LZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (S)	986	8	409352 421102
282	<b>Points of Interest - Recreational and Environmental</b> Name: Play Area Location: HX3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	404	8	409951 422284
283	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	692	8	409688 421403
283	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Nr Rochdale Road, HX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	693	8	409712 421408
284	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	787	8	408880 422572
284	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Kings Lea, HX3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	788	8	408880 422573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
285	<b>Ancient Woodland</b> Name: North Dean Wood Reference: 1102918 Area(m <sup>2</sup> ): 215605.23 Type: Ancient and Semi-Natural Woodland	A13SW (SW)	170	9	409447 421919
286	<b>Ancient Woodland</b> Name: North Dean Wood Reference: 1102918 Area(m <sup>2</sup> ): 146316.83 Type: Plantation on Ancient Woodland	A12SE (W)	442	9	409065 422075
287	<b>Ancient Woodland</b> Name: Elland Park Wood Reference: 1103072 Area(m <sup>2</sup> ): 181267.18 Type: Plantation on Ancient Woodland	A14NE (E)	969	9	410525 422349
288	<b>Areas of Adopted Green Belt</b> Authority: Calderdale Metropolitan Borough Council Plan Name: Replacement Calderdale Unitary Development Plan Status: <b>Adopted</b> Plan Date: 25th August 2006	A13NW (S)	0	10	409547 422102
289	<b>Areas of Unadopted Green Belt</b> Authority: Calderdale Metropolitan Borough Council Plan Name: Proposal Map Status: <b>Submission Draft</b> Plan Date: 11th January 2019	A13NW (S)	0	10	409547 422102



Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Bradford Metropolitan City Council - Environmental Health Environment Agency - Head Office Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services	January 2020 June 2020 October 2017 October 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - North East Region	April 2022	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North East Region	March 2013	
<b>Integrated Pollution Controls</b> Environment Agency - North East Region	January 2009	
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North East Region	April 2022	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Kirklees Metropolitan Borough Council - Environmental Health Department Bradford Metropolitan City Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	April 2014 October 2014 October 2014	Variable Variable Variable
<b>Local Authority Pollution Prevention and Controls</b> Kirklees Metropolitan Borough Council - Environmental Health Department Bradford Metropolitan City Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	April 2014 October 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Kirklees Metropolitan Borough Council - Environmental Health Department Bradford Metropolitan City Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	April 2014 October 2014 October 2014	Variable Variable Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	June 2022	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North East Region	December 1998	
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North East Region	July 2015	
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North East Region	March 2013	
<b>Registered Radioactive Substances</b> Environment Agency - North East Region	June 2016	As notified
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>Substantiated Pollution Incident Register</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2022 April 2022	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - North East Region	July 2022	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North East Region	October 2017	
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2022	Bi-Annually
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	May 2022	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	May 2022	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	May 2022	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	May 2022	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	May 2022	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	July 2022	Quarterly
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water Suitability</b> Environment Agency - Head Office	February 2016	Annually
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	November 2002	As notified
<b>Historical Landfill Sites</b> Environment Agency - Head Office	April 2022	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North East Region	January 2009	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2022 April 2022	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2022 April 2022	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services	October 2018 October 2018 October 2018	
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	
<b>Registered Landfill Sites</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2006 March 2006	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2018 April 2018	
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	June 2015 June 2015	
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	January 2022	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	August 2001	
<b>Planning Hazardous Substance Enforcements</b> Kirklees Metropolitan Borough Council - Planning Services Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council	August 2015 February 2016 February 2016	Variable Variable Variable
<b>Planning Hazardous Substance Consents</b> Kirklees Metropolitan Borough Council - Planning Services Bradford Metropolitan City Council - Planning Department Calderdale Metropolitan Borough Council	August 2015 February 2016 February 2016	Variable Variable Variable

Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	As notified
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	December 2015	As notified
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2022	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	June 1998	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	As notified
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	July 2022	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	June 2022	Quarterly
<b>Gas Pipelines</b> National Grid	October 2021	Bi-Annually
<b>Points of Interest - Commercial Services</b> PointX	June 2022	Quarterly
<b>Points of Interest - Education and Health</b> PointX	June 2022	Quarterly
<b>Points of Interest - Manufacturing and Production</b> PointX	June 2022	Quarterly
<b>Points of Interest - Public Infrastructure</b> PointX	June 2022	Quarterly
<b>Points of Interest - Recreational and Environmental</b> PointX	June 2022	Quarterly
<b>Underground Electrical Cables</b> National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	February 2021	Bi-Annually
<b>Areas of Adopted Green Belt</b> Bradford Metropolitan City Council Calderdale Metropolitan Borough Council Kirklees Metropolitan Borough Council	October 2020 October 2020 October 2020	Quarterly Quarterly Quarterly
<b>Areas of Unadopted Green Belt</b> Bradford Metropolitan City Council Calderdale Metropolitan Borough Council Kirklees Metropolitan Borough Council	October 2020 October 2020 October 2020	Quarterly Quarterly Quarterly
<b>Areas of Outstanding Natural Beauty</b> Natural England	January 2021	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2021	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	January 2021	Bi-Annually
<b>National Parks</b> Natural England	February 2018	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2021	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Calderdale Metropolitan Borough Council - Environmental Health</b> Northgate House, Northgate, Halifax, West Yorkshire, HX1 1UN	Telephone: 01422 357257 Fax: 01422 392238 Website: www.calderdale.gov.uk
4	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	<b>Health and Safety Executive</b> 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	<b>The Coal Authority - Property Searches</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	<b>Calderdale Metropolitan Borough Council</b> Crossley House, Crossley Street, Halifax, West Yorkshire, HX1 1TP	Telephone: 01422 357257 Fax: 01422 392238 Website: www.calderdale.gov.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



# Historical Mapping Legends

## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

**Quarry**   **Gravel Pit**   **Sand Pit**  
**Clay Pit**   **Shingle**   **Refuse Heap**  
**Sloping Masonry**   **Flat Rock**  
**Marsh**   **Reeds**   **Osiers**  
**Rough Pasture**   **Furze**   **Wood**  
**Mixed Wood**   **Brushwood**   **Orchard**  
**Fir**   **Ford**   **Stepping Stones**  
**Ferry**   **Waterfall**   **Lock**  
**Trig. Station**   **Altitude at Trig. Station**  
**B.M. 325.9**   **Bench Mark**   **Surface Level**  
**Arrow denotes flow of water**   **Antiquities (site of)**  
**Cutting**   **Embankment**  
**Railway crossing Road**   **Level Crossing**   **Road crossing Railway**  
**Railway crossing River or Canal**   **Road over single stream**   **Road over River or Canal**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Administrative County & Civil Parish Boundary**  
**County Borough Boundary (England)**  
**County Burgh Boundary (Scotland)**  
**Co. Boro. Bdy.**  
**Co. Burgh Bdy.**  
**BP BS** Boundary Post or Stone   **P.C.B** Police Call Box  
**B.R.** Bridle Road   **P** Pump  
**E.P** Electricity Pylon   **S.P** Signal Post  
**F.B.** Foot Bridge   **Sl** Sluice  
**F.P.** Foot Path   **Sp.** Spring  
**G.P** Guide Post or Board   **T.C.B** Telephone Call Box  
**M.S** Mile Stone   **Tr.** Trough  
**M.P M.R** Mooring Post or Ring   **W** Well

## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

**Inactive Quarry, Chalk Pit or Clay Pit**   **Active Quarry, Chalk Pit or Clay Pit**  
**Rock**   **Boulders**  
**Cliff**   **Slopes**   **Top**  
**Roofed Building**   **Glazed Roof Building**  
**Sloping Masonry**   **Archway**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Bench Mark**   **Antiquity (site of)**  
**Cave Entrance**   **Triangulation Station**   **Electricity Pylon**  
**Electricity Transmission Line**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Civil Parish Boundary**  
**Admin. County or County Bor. Boundary**  
**London Borough Boundary**  
**Symbol marking point where boundary mereing changes**  
**BH** Beer House   **P** Pillar, Pole or Post  
**BP, BS** Boundary Post or Stone   **PO** Post Office  
**Cn, C** Capstan, Crane   **PC** Public Convenience  
**Chy** Chimney   **PH** Public House  
**D Fn** Drinking Fountain   **Pp** Pump  
**EI P** Electricity Pillar or Post   **SB, S Br** Signal Box or Bridge  
**FAP** Fire Alarm Pillar   **SP, SL** Signal Post or Light  
**FB** Foot Bridge   **Spr** Spring  
**GP** Guide Post   **Tk** Tank or Track  
**H** Hydrant or Hydraulic   **TCB** Telephone Call Box  
**LC** Level Crossing   **TCP** Telephone Call Post  
**MH** Manhole   **Tr** Trough  
**MP** Mile Post or Mooring Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MS** Mile Stone   **W** Well  
**NTL** Normal Tidal Limit   **Wd Pp** Wind Pump

## Large-Scale National Grid Data 1:2,500 and 1:1,250

**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Triangulation Station**   **Antiquity (site of)**  
**Electricity Transmission Line**   **Electricity Pylon**  
**B.M. 231.60m** Bench Mark   **Buildings with Building Seed**  
**Roofed Building**   **Glazed Roof Building**  
**Civil parish/community boundary**  
**District boundary**  
**County boundary**  
**Boundary post/stone**  
**Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**  
**Bks** Barracks   **P** Pillar, Pole or Post  
**Bty** Battery   **PO** Post Office  
**Cemy** Cemetery   **PC** Public Convenience  
**Chy** Chimney   **Pp** Pump  
**Cis** Cistern   **Ppg Sta** Pumping Station  
**Dismtd Rly** Dismantled Railway   **PW** Place of Worship  
**EI Gen Sta** Electricity Generating Station   **Sewage Ppg Sta** Sewage Pumping Station  
**EI P** Electricity Pole, Pillar   **SB, S Br** Signal Box or Bridge  
**EI Sub Sta** Electricity Sub Station   **SP, SL** Signal Post or Light  
**FB** Filter Bed   **Spr** Spring  
**Fn / D Fn** Fountain / Drinking Ftn.   **Tk** Tank or Track  
**Gas Gov** Gas Valve Compound   **Tr** Trough  
**GVC** Gas Governor   **Wd Pp** Wind Pump  
**GP** Guide Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MH** Manhole   **Wks** Works (building or area)  
**MP, MS** Mile Post or Mile Stone   **W** Well

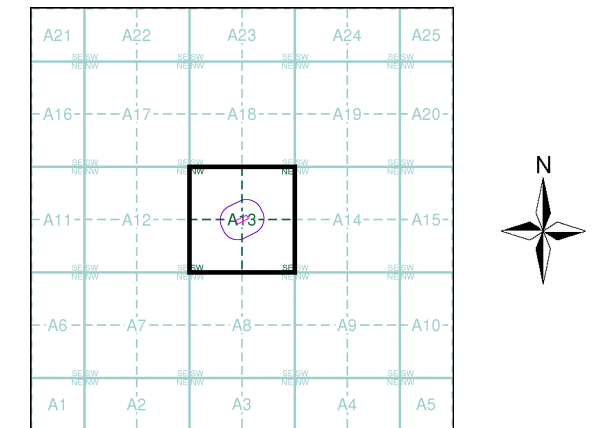
# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1907	3
Yorkshire	1:2,500	1919 - 1922	4
Yorkshire	1:2,500	1933	5
Ordnance Survey Plan	1:1,250	1960	6
Additional SIMs	1:1,250	1960 - 1980	7
Ordnance Survey Plan	1:2,500	1961	8
Supply of Unpublished Survey Information	1:1,250	1974	9
Supply of Unpublished Survey Information	1:1,250	1975 - 1976	10
Additional SIMs	1:1,250	1986 - 1989	11
Ordnance Survey Plan	1:1,250	1989	12
Large-Scale National Grid Data	1:1,250	1993	13
Historical Aerial Photography	1:2,500	1999	14

## Historical Map - Segment A13



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

## Site Details

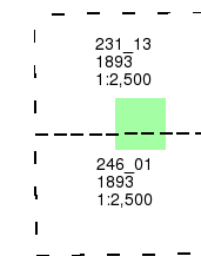
Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

**Landmark®**  
 INFORMATION GROUP

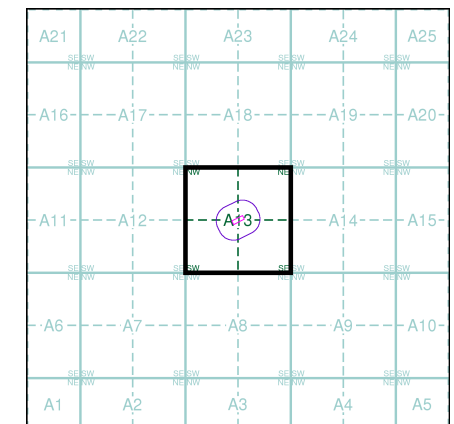
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

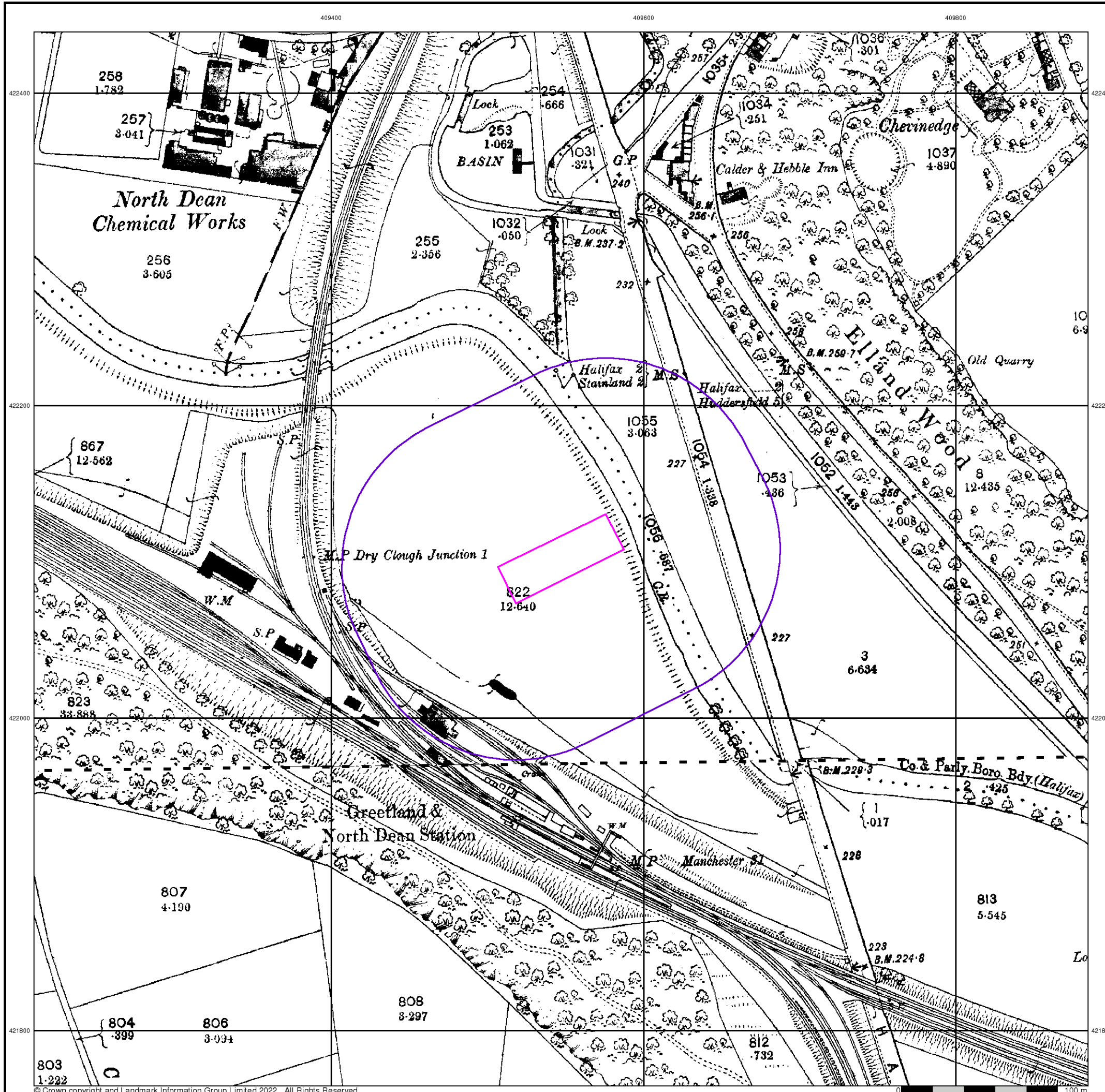


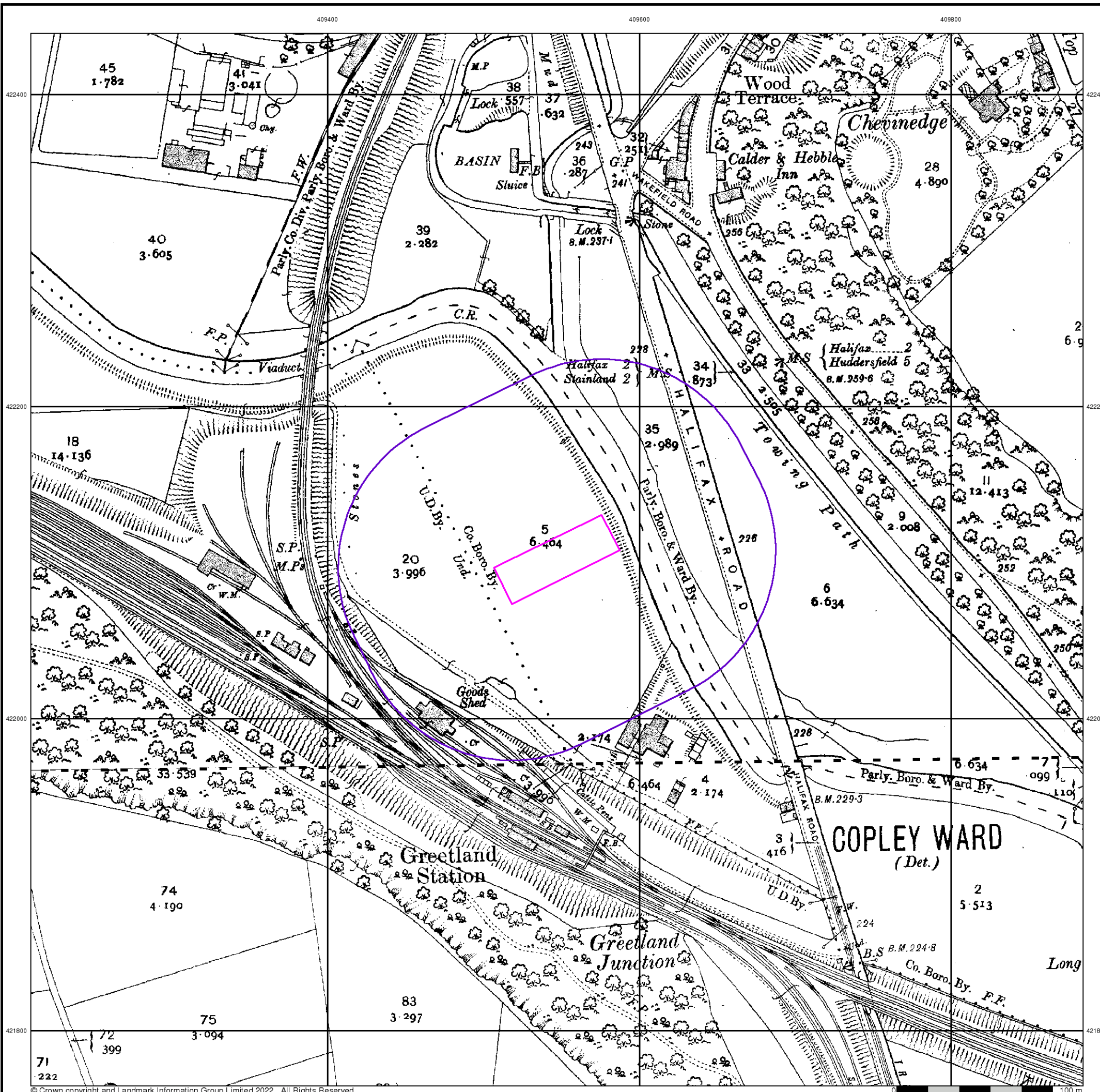
### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

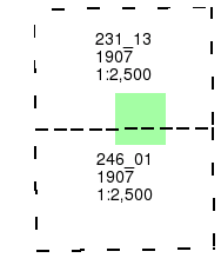




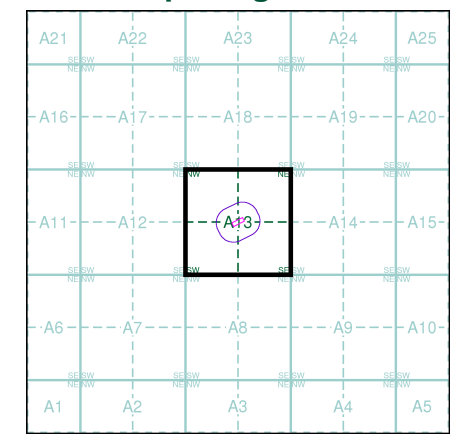
**Yorkshire**  
**Published 1907**  
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



**Order Details**  
 Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

**Site Details**  
 Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

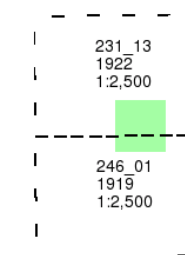
## Yorkshire

Published 1919 - 1922

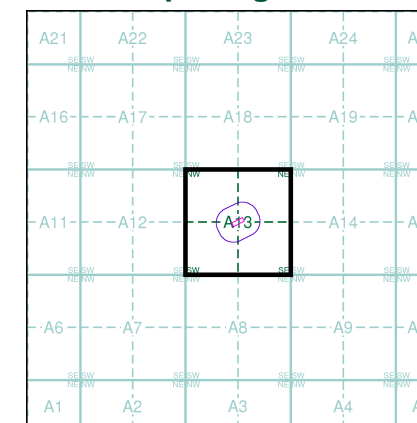
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

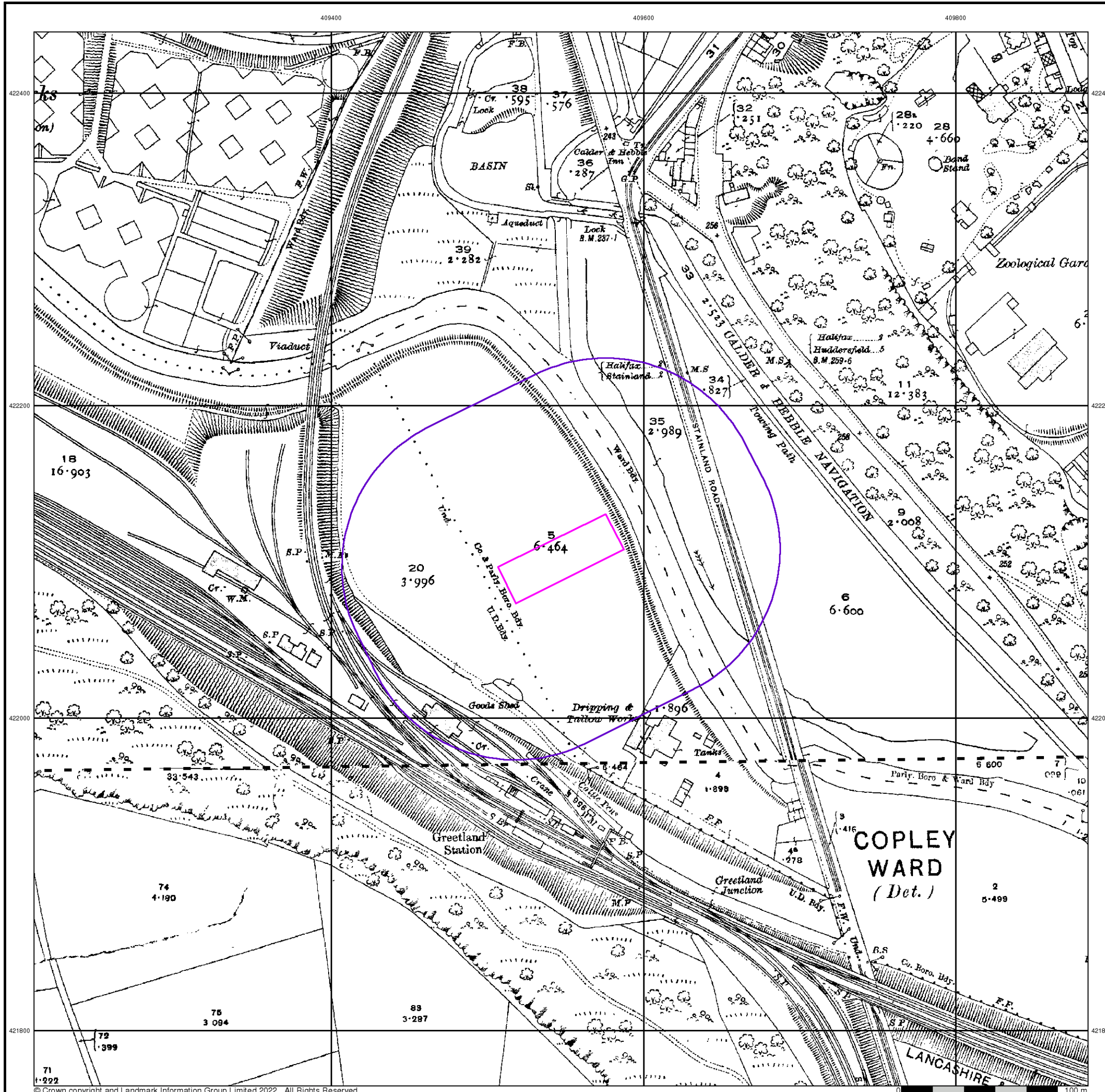


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

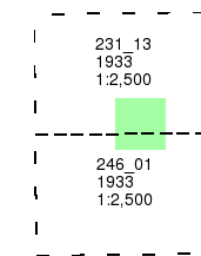
### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

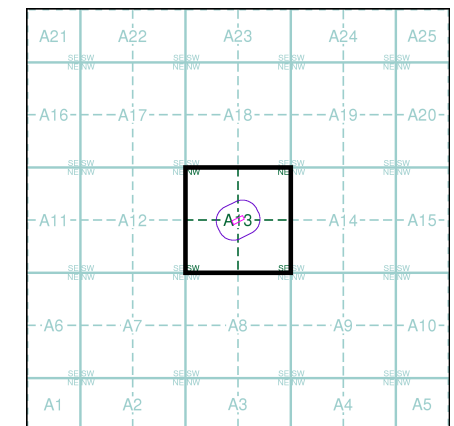


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

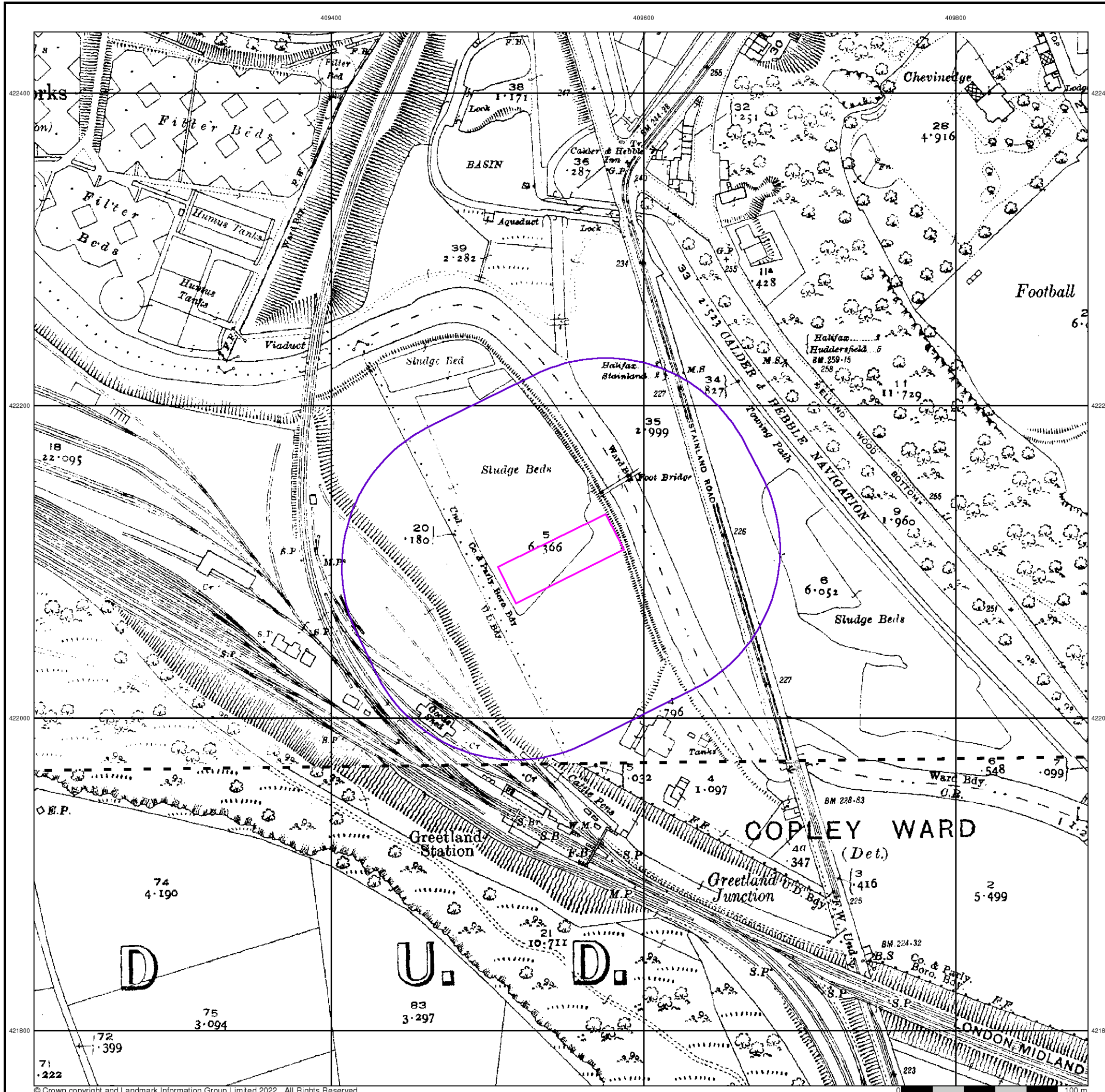


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR



## Ordnance Survey Plan

Published 1960

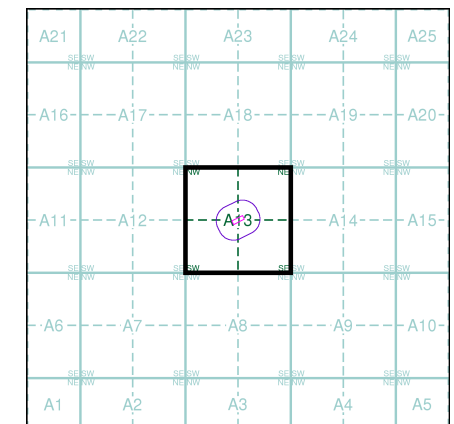
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

SE0922SW 1960 1:1,250	SE0922SE 1960 1:1,250
SE0921NW 1960 1:1,250	SE0921NE 1960 1:1,250

### Historical Map - Segment A13

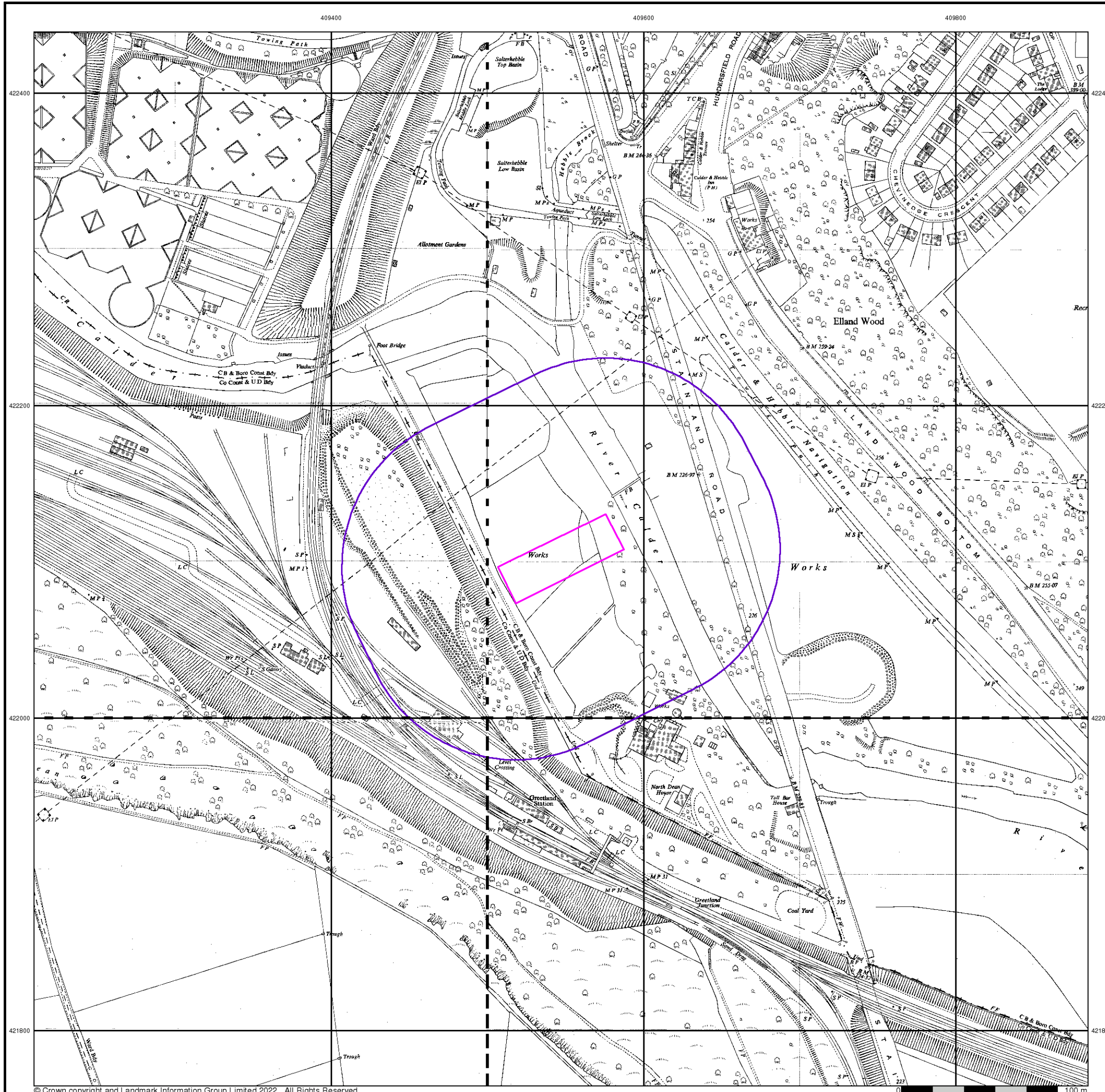


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



## Additional SIMs

Published 1960 - 1980

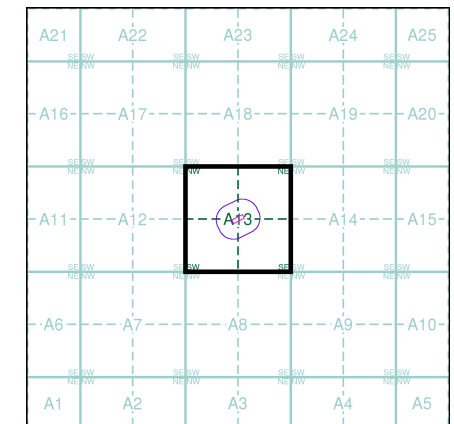
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

SE0922SW 1980 1:1,250	SE0922SE 1979 1:1,250
SE0921NW 1960 1:1,250	SE0921NE 1979 1:1,250

## Historical Map - Segment A13

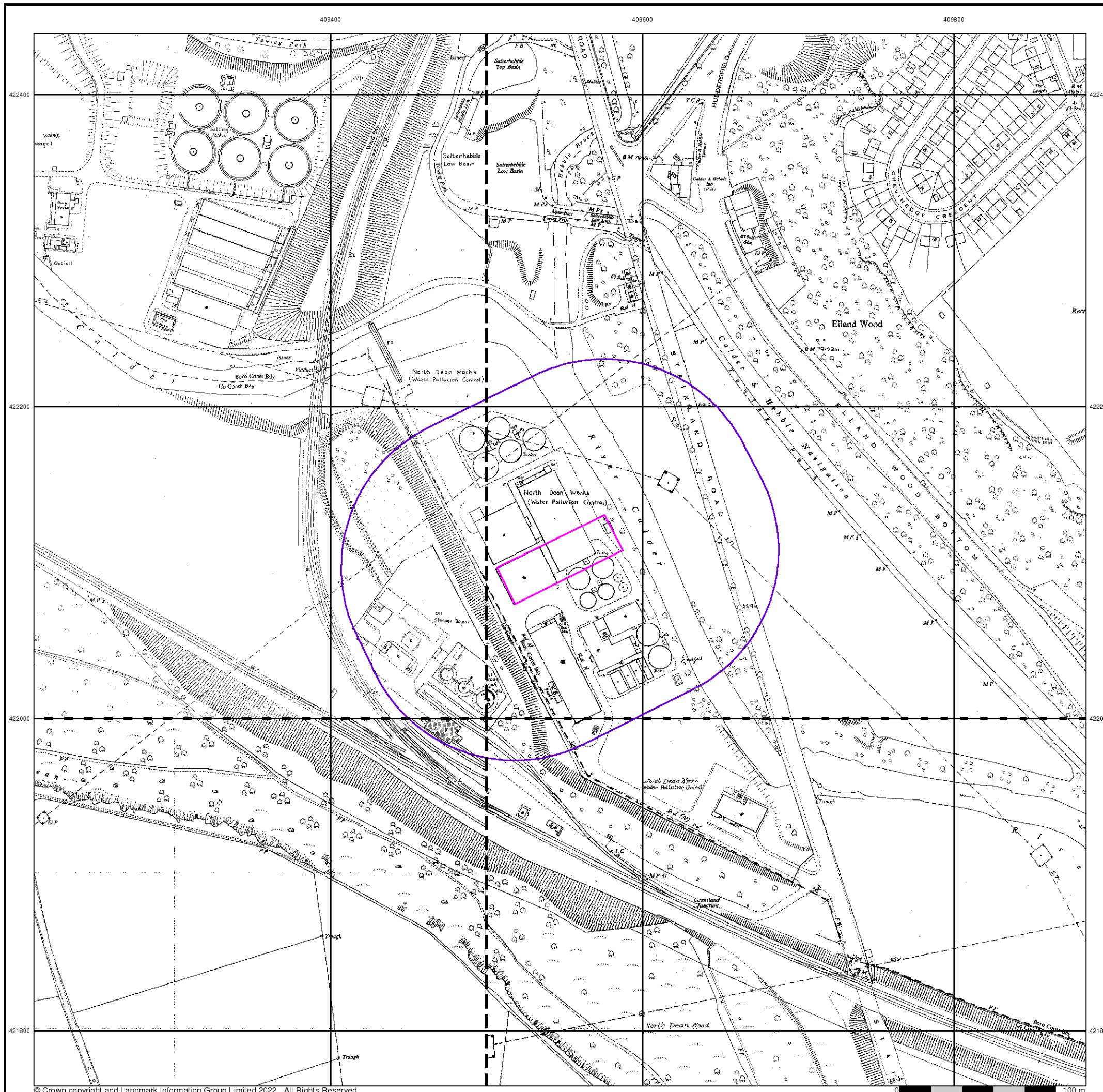


## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



## Ordnance Survey Plan

Published 1961

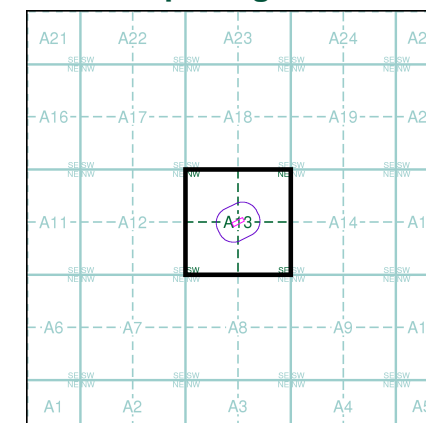
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

SE0922	1961	1:2,500
SE0921	1961	1:2,500

### Historical Map - Segment A13

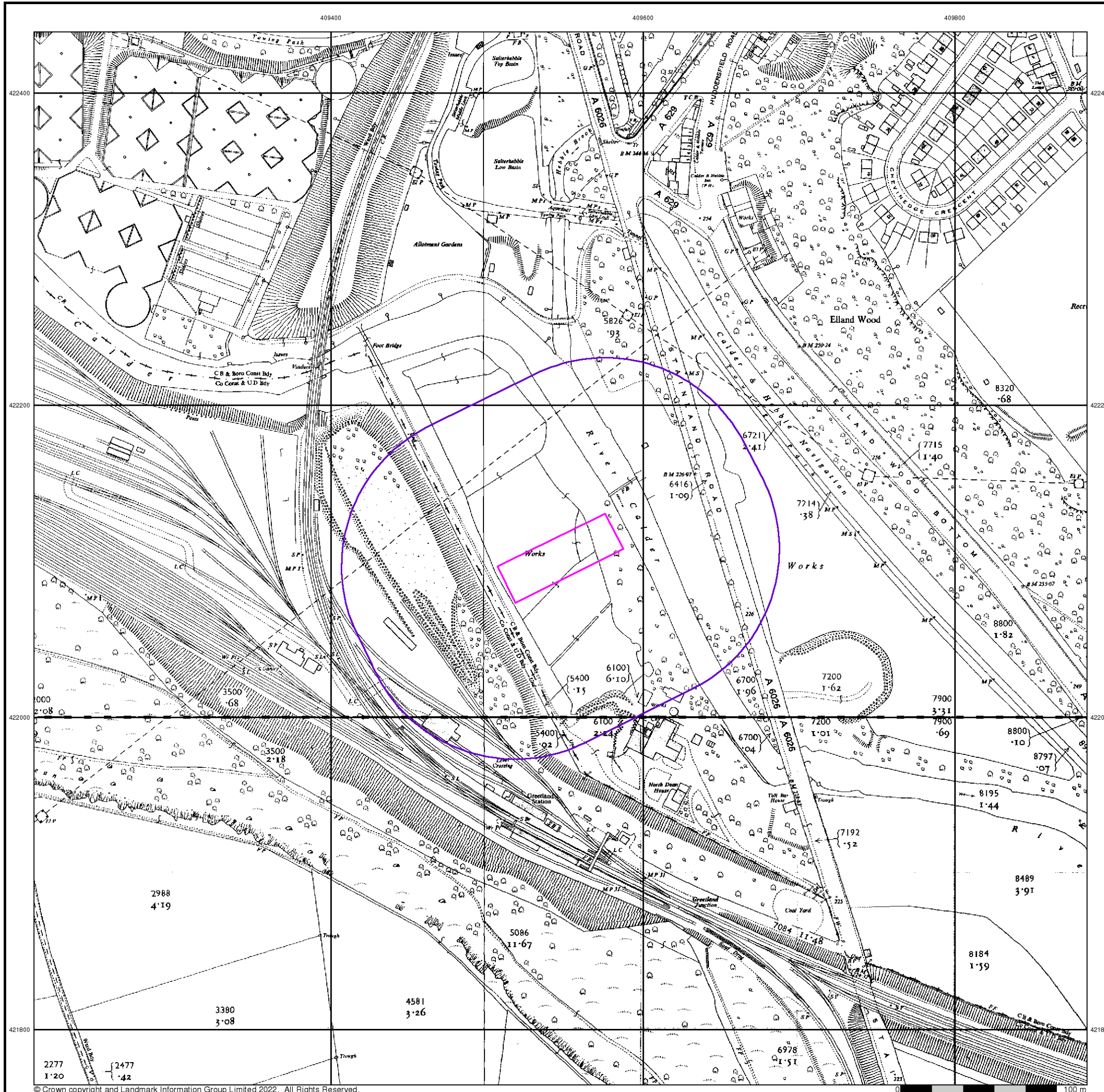


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR





## Supply of Unpublished Survey Information

Published 1974

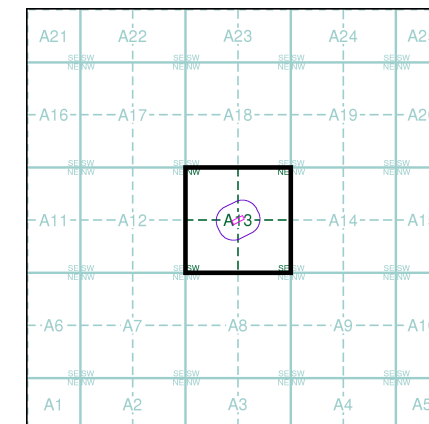
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

SE0922SW 1974 1:1,250	SE0922SE 1974 1:1,250
SE0921NW 1974 1:1,250	

### Historical Map - Segment A13

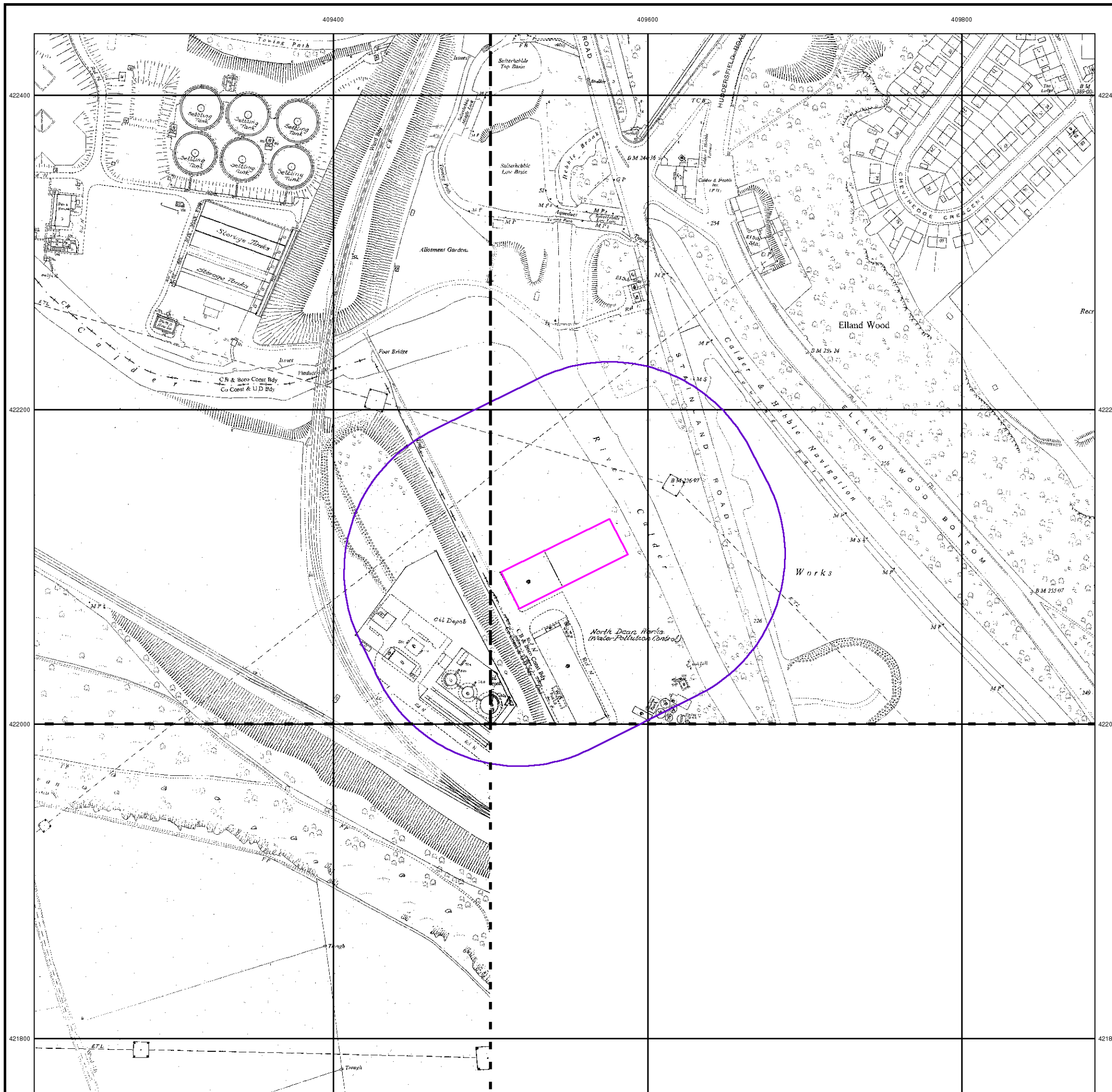


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



## Supply of Unpublished Survey Information

Published 1975 - 1976

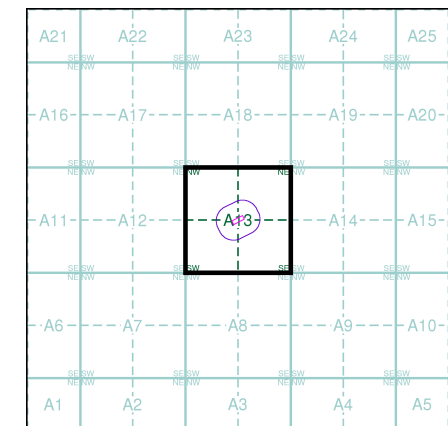
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

SE0922SW 1976 1:1,250	SE0922SE 1975 1:1,250
-----------------------------	-----------------------------

### Historical Map - Segment A13

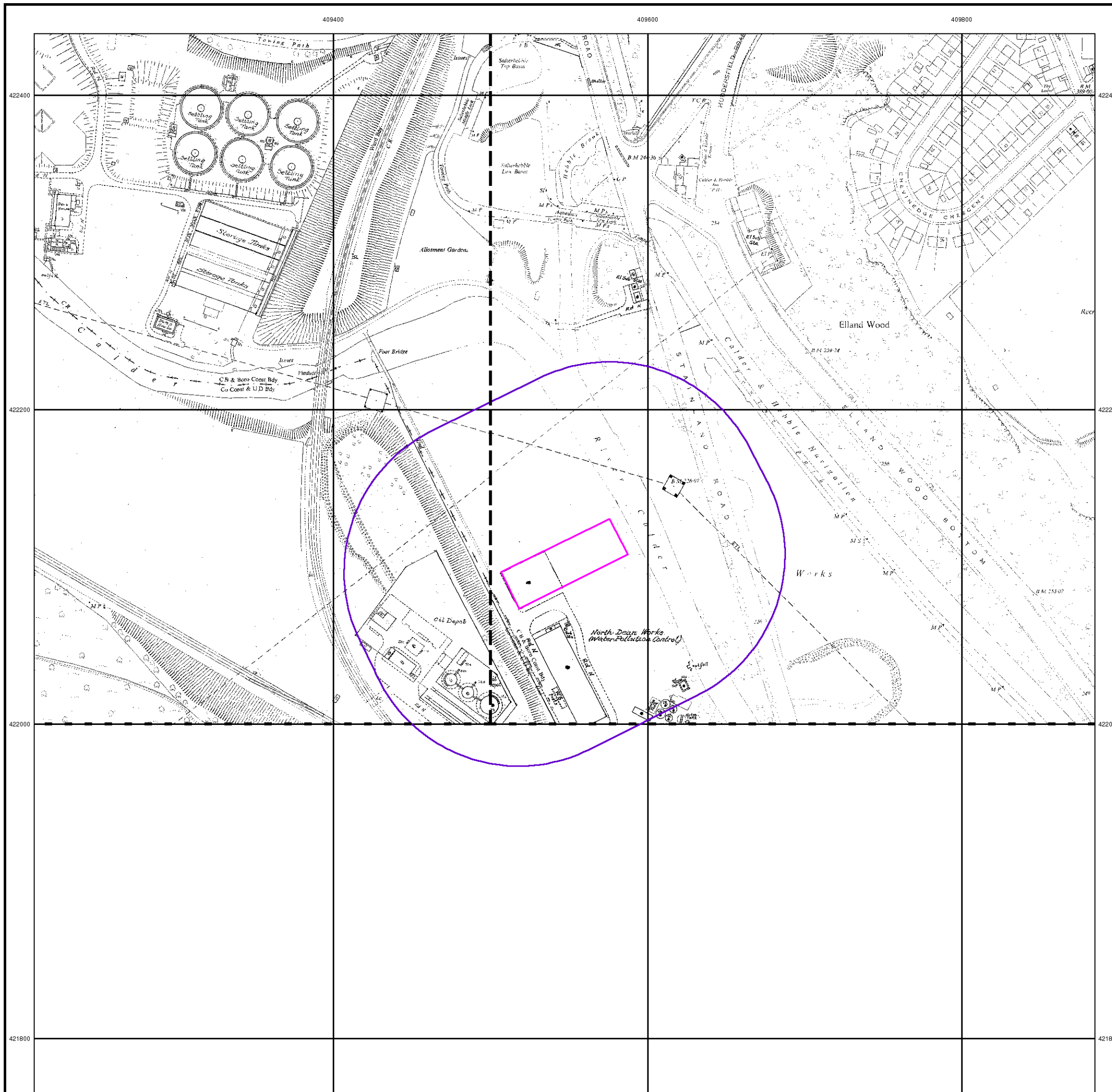


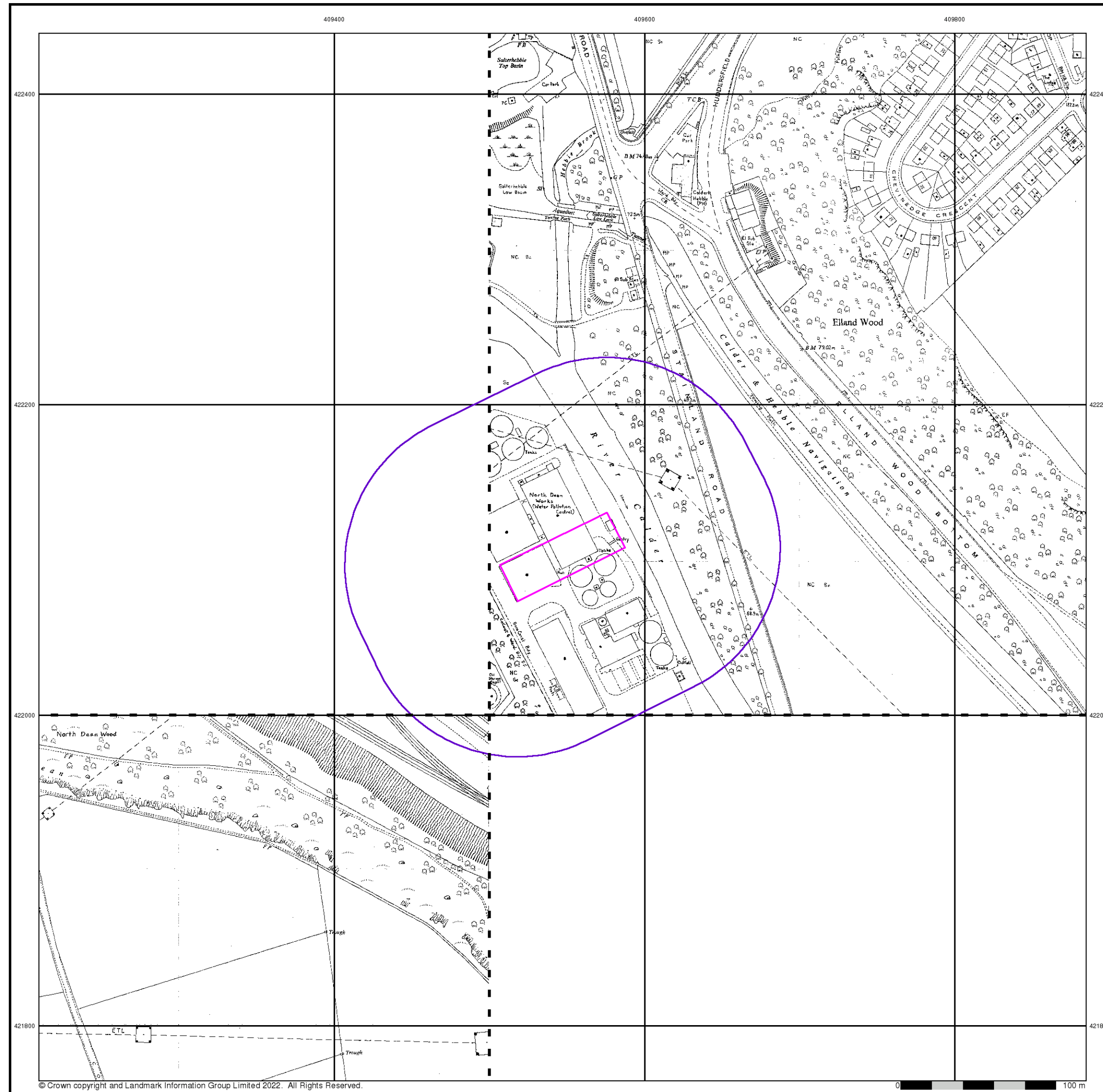
### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR





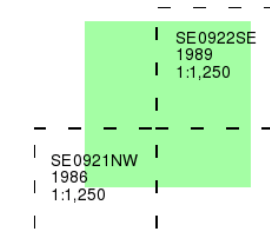
## Additional SIMs

Published 1986 - 1989

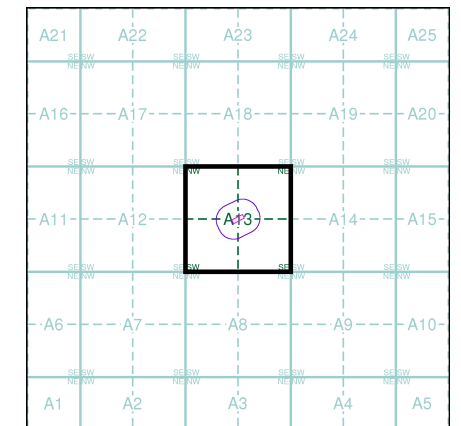
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

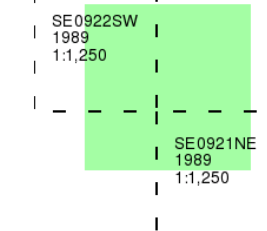
## Ordnance Survey Plan

Published 1989

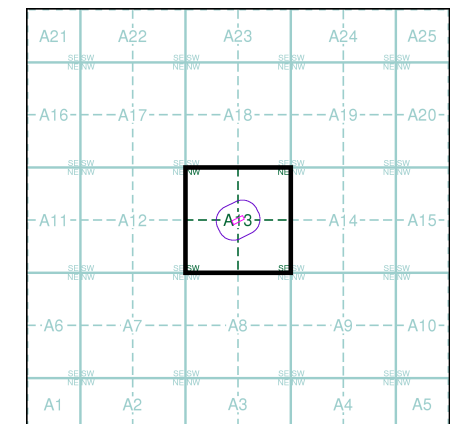
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

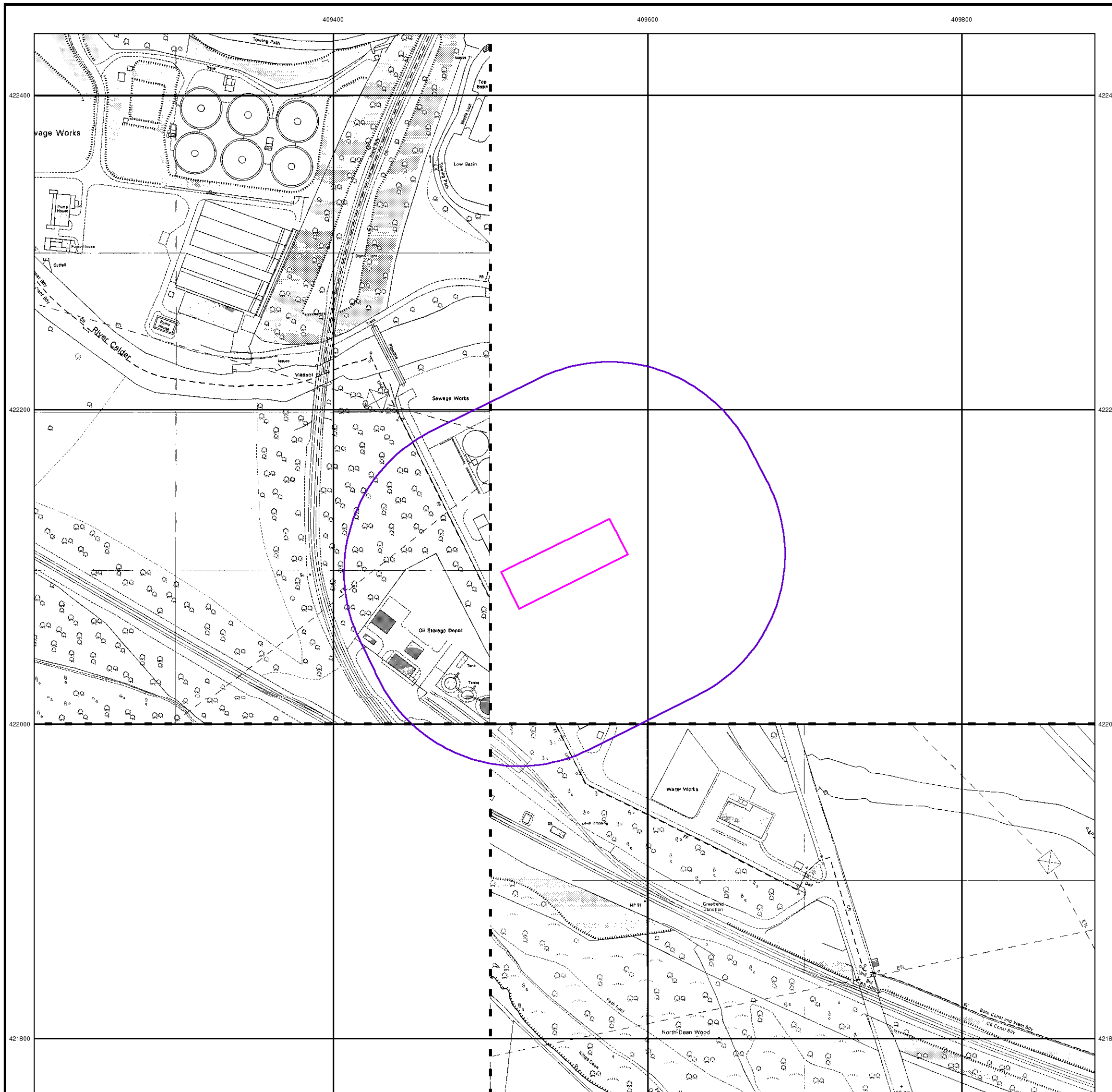


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



## Large-Scale National Grid Data

Published 1993

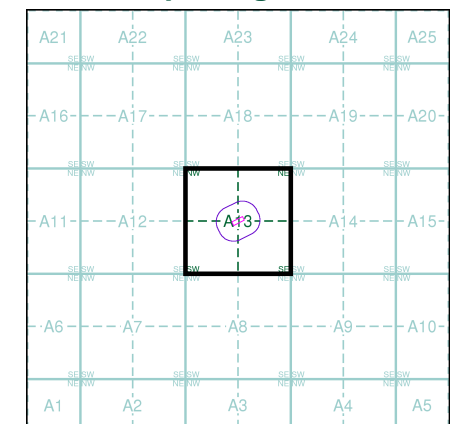
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

SE0922SW 1993 1:1,250	SE0922SE 1993 1:1,250
SE0921NW 1993 1:1,250	SE0921NE 1993 1:1,250

### Historical Map - Segment A13

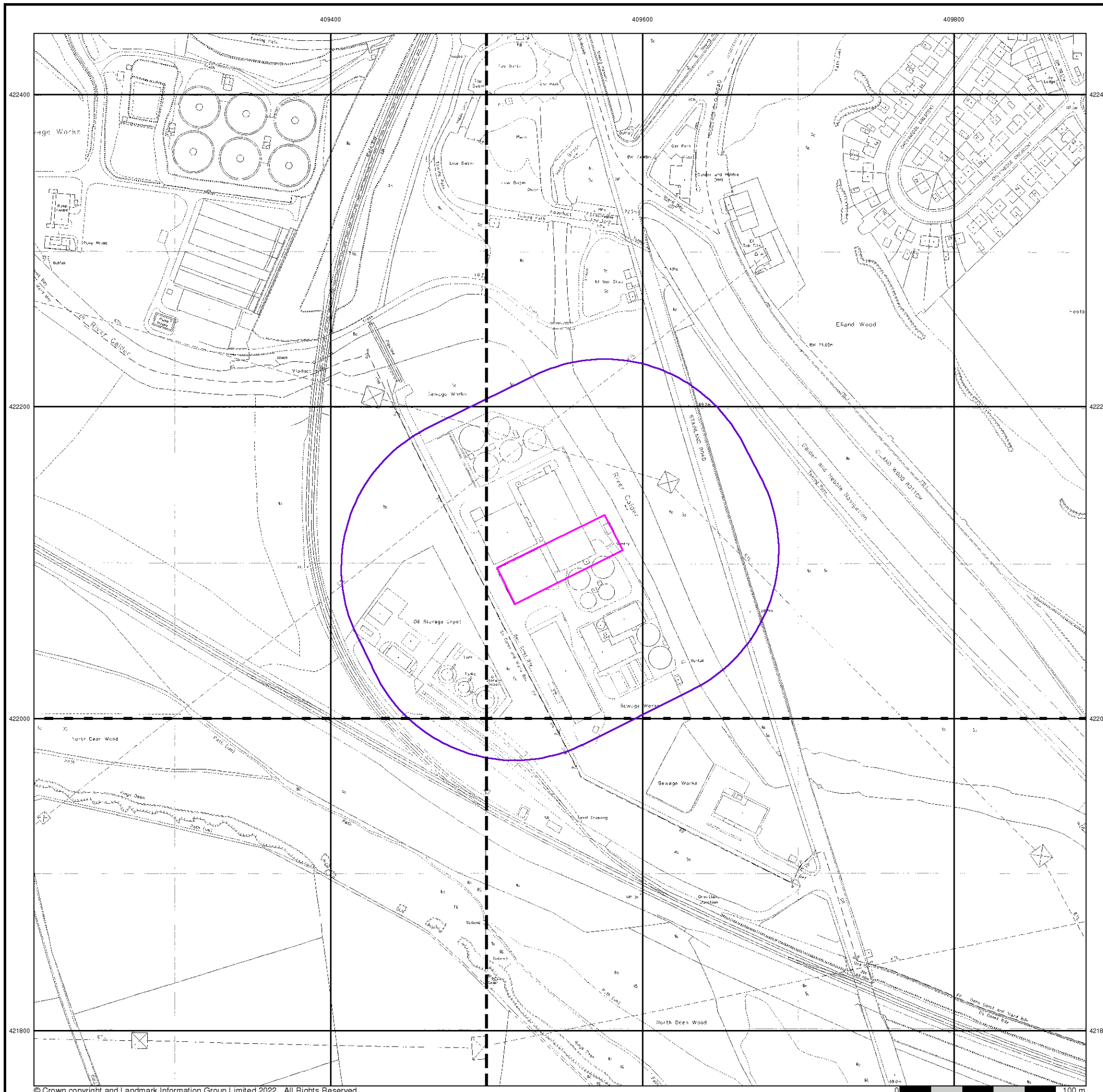


### Order Details

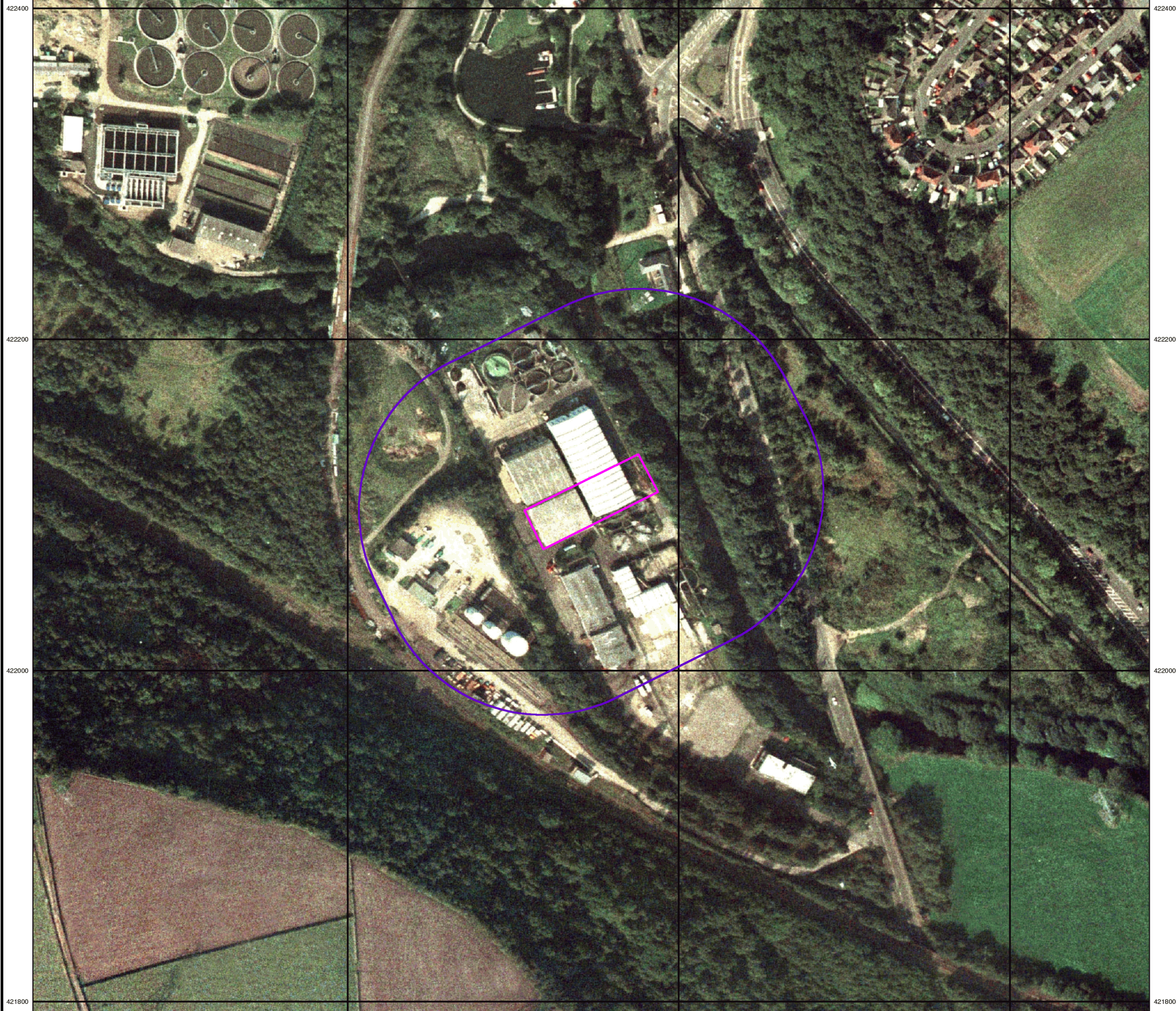
Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



409400 409600 409800



# Envirocheck®

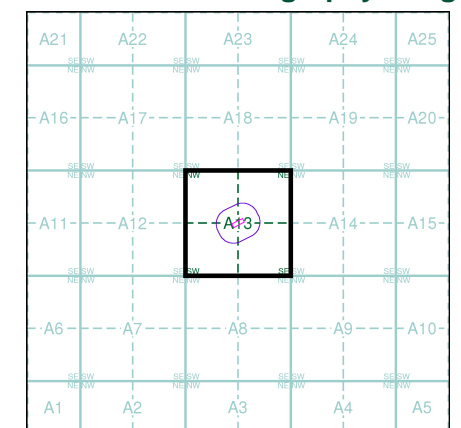
LANDMARK INFORMATION GROUP®

## Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

### Historical Aerial Photography - Segment A13



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 100

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

**Landmark®**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	<b>-285</b> Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

## Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		
	Bracken		Heath
	Rough Grassland		
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

## 1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

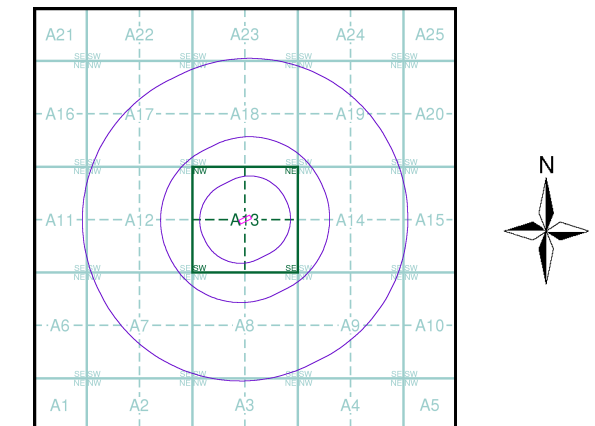
# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1908	5
Yorkshire	1:10,560	1930	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1967 - 1969	10
Halifax	1:10,000	1975	11
Ordnance Survey Plan	1:10,000	1978	12
Ordnance Survey Plan	1:10,000	1982 - 1983	13
Huddersfield	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	2000	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Historical Map - Slice A



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

**Landmark**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

# Russian Military Mapping Legends

## 1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Fireproof Building		Prominent Fireproof Building
	Non-fireproof Building		Non-fireproof Building (non-dwelling)
	Factory, mill, and flour mill, with chimneys		Factory, mill, and flour mill, without chimneys
	Power Station, drawn to scale		Hydroelectric Power Station
	Radio Station, drawn to scale		Telephone Station, drawn to scale
	Abandoned Open-pit Mine or Quarry		Open-pit Salt Mine
	Pit		Oil Deposit or Well
	Oil Seepage		Natural Gas Tank
	Tailings Pile		Fuel Storage Tanks
	Bench Mark		Drill Hole
	Burial Mound		Triangulation Point on Burial Mound
	Single-track Railroad		Double-track Railroad
	Small Bridge		Pipe (Culvert)
	Tunnel		Railroad and Station Building
	Coniferous Forest		Deciduous Forest
	Mixed Forest		Lawns
	Citrus Orchard		Wet Ground
	Scattered Vegetation		

**243,8** Values for prominent elevations  
**186.0** Numbers for spot elevations, depth soundings, contour lines, etc.  
**0,2** Velocity of the current, width of river bed, depth of river  
**180/12** Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

### Russian Alphabet (For reference and phonetic interpretation of map text)

<b>А а (A)</b>	<b>З з (Z)</b>	<b>П п (P)</b>	<b>Ч ч (CH)</b>
<b>Б б (B)</b>	<b>И и (I)</b>	<b>Р р (R)</b>	<b>Ш ш (SH)</b>
<b>В в (V)</b>	<b>Й й (Y)</b>	<b>С с (S)</b>	<b>Щ щ (SHCH)</b>
<b>Г г (G)</b>	<b>К к (K)</b>	<b>Т т (T)</b>	<b>Ъ (-)</b>
<b>Д д (D)</b>	<b>Л л (L)</b>	<b>У у (U)</b>	<b>Ы (Y)</b>
<b>Е е (E)</b>	<b>М м (M)</b>	<b>Ф ф (F)</b>	<b>Ь (')</b>
<b>Ё ё (YO)</b>	<b>Н н (N)</b>	<b>Х х (KH)</b>	<b>Э э (E)</b>
<b>Ж ж (ZH)</b>	<b>О о (O)</b>	<b>Ц ц (TS)</b>	<b>Ю ю (YU or IU)</b>
			<b>Я я (YA or IA)</b>

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Partly Demolished Buildings		Demolished Buildings
	Built-Up Area with Fireproof Buildings Predominant		Built-Up Area with Non-Fireproof Buildings Predominant
	Individual Fireproof Building		Prominent Industrial Building
	Individual Dwelling, Fireproof		Ruins of an Individual Dwelling
	Factory or Mill Chimney		Factory or Mill with Chimney
	Factory or Mill without Chimney		Mine or Open Pit Mine
	Operating Shaft or Mine		Non-Operating Shaft or Mine
	Salt Mine		Tailings Pile
	Pit		Stone Quarry
	Gas Pump or Service Station		Fuel Storage or Natural Gas Tank
	Oil or Natural Gas Derrick		Small Hydroelectric Power Station
	Power Station		Transformer Station
	Cemetery		Burial Mound (height in metres)
	Triangulation Point on Burial Mound		Triangulation Point
	Bench Mark		Telegraph Office
	Telephone Station		Radio Station
	Radio Tower		Airfield or Seaplane Base
	Landing Strip		Cut
	Fill		Km Post
	Plantings		Width of Road
	Steep Grade		Highway under Construction
	Improved Dirt Road (former truck road)		Small Bridge
	Pipe (Culvert)		Tunnel
	Dismantled Railroad		Double-track Railroad with First Class Station
	Railroad Under Construction		Shore Embankment
	River or Ditch with Embankment		Water Gauge
	Direction and velocity of current		Water Level Mark
	Well		Water Reservoir or Rain Water Pit
	Spring		Isobath with value
	Heavy (Index) Contour Line		Contour Line and Value
	Half Contour Line		Spot Elevation Value
	Coniferous		Deciduous
	Mixed		Scrub

## Key to Numbers on Mapping

### SE02SE\_Halifax

No.	Description
47	Police Station/Headquarters
60	Railway Station (Freight)
64	Railway Station (Passenger)
68	Sewage Works
69	Sewage Works

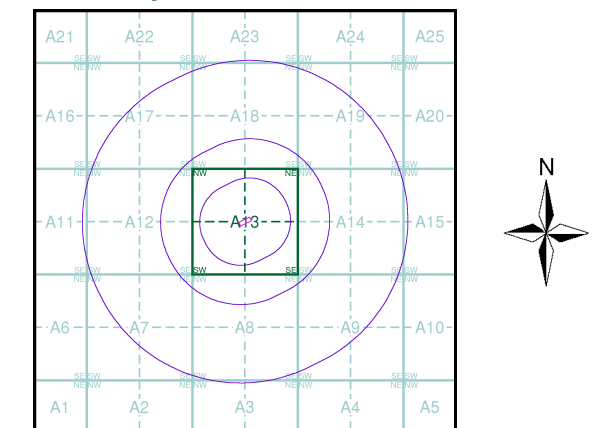
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## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1908	5
Yorkshire	1:10,560	1930	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1967 - 1969	10
Halifax	1:10,000	1975	11
Ordnance Survey Plan	1:10,000	1978	12
Ordnance Survey Plan	1:10,000	1982 - 1983	13
Huddersfield	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	2000	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Russian Map - Slice A



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

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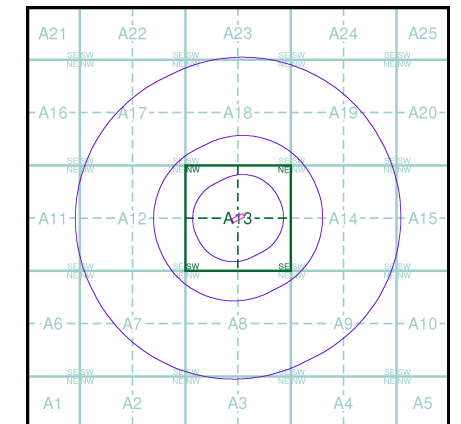


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#### Map Name(s) and Date(s)

23100	1854	1:10,560
24600	1854	1:10,560

#### Historical Map - Slice A

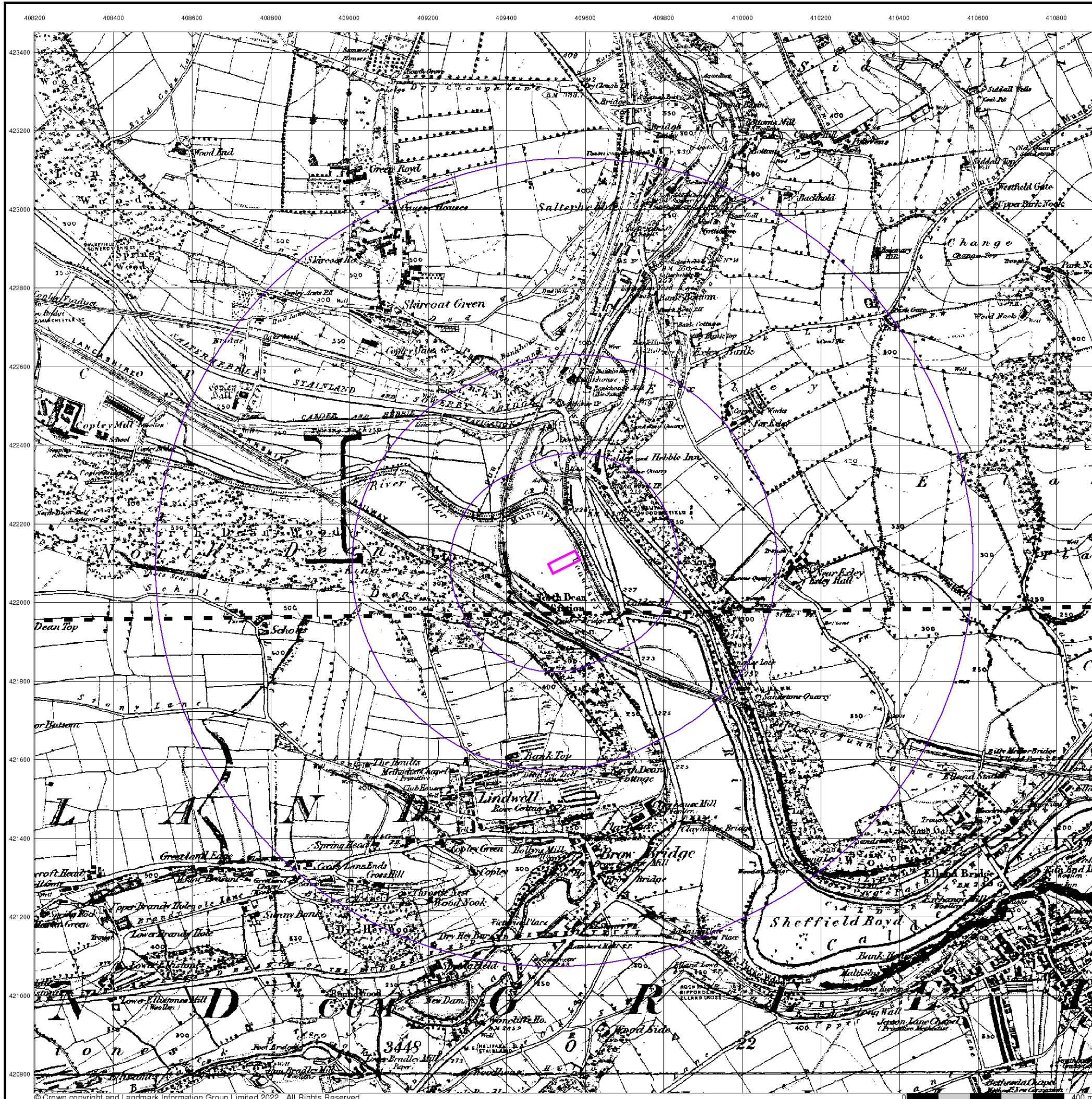


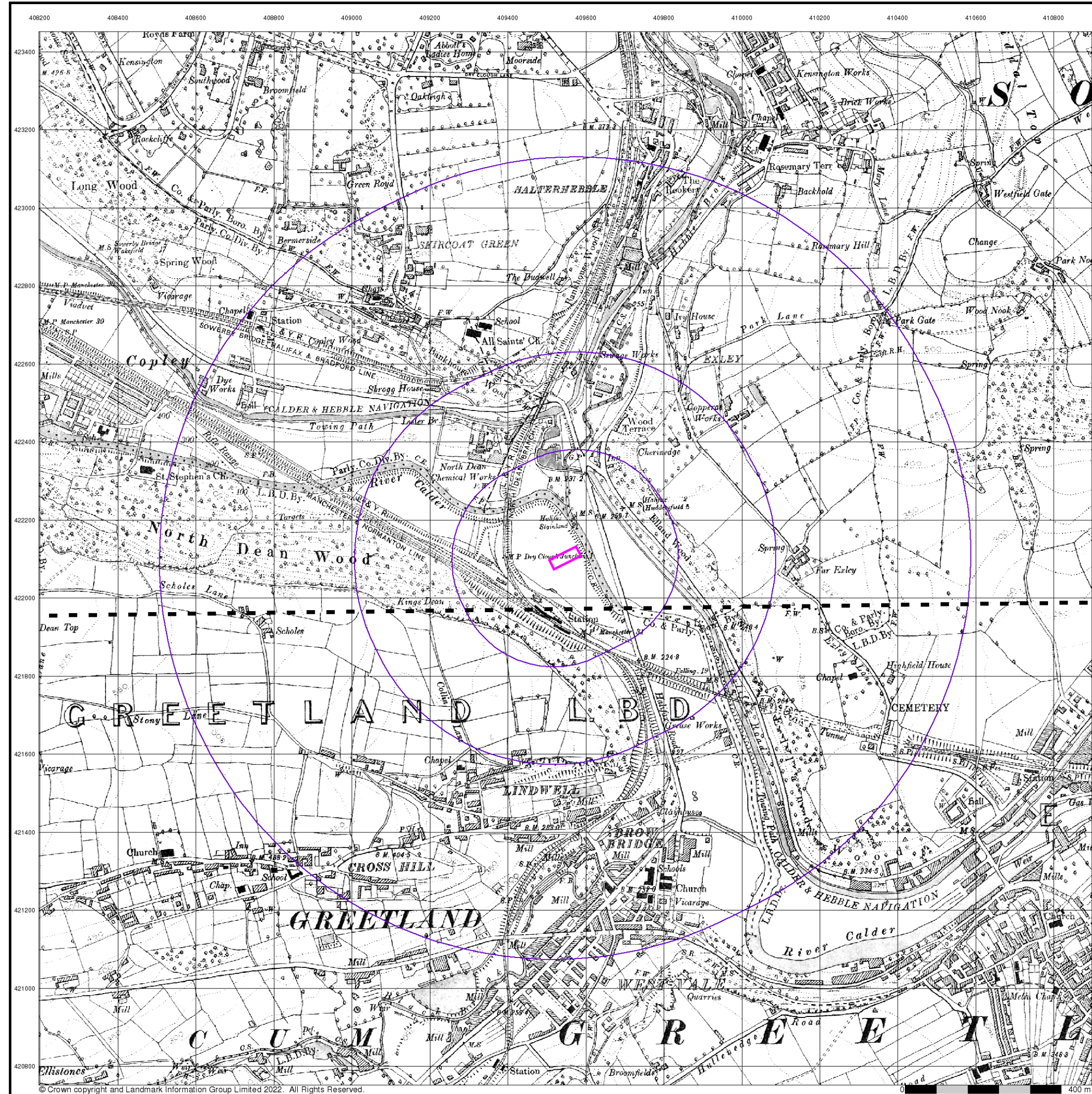
#### Order Details

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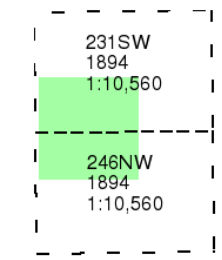
Yorkshire

Published 1894

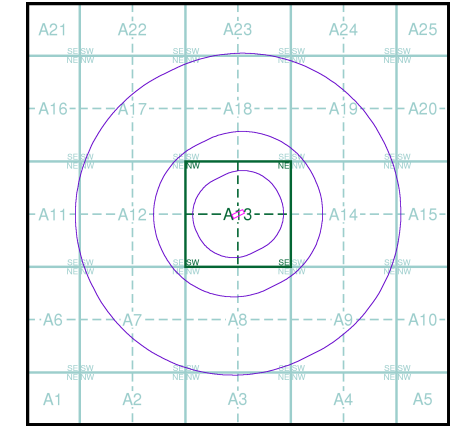
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

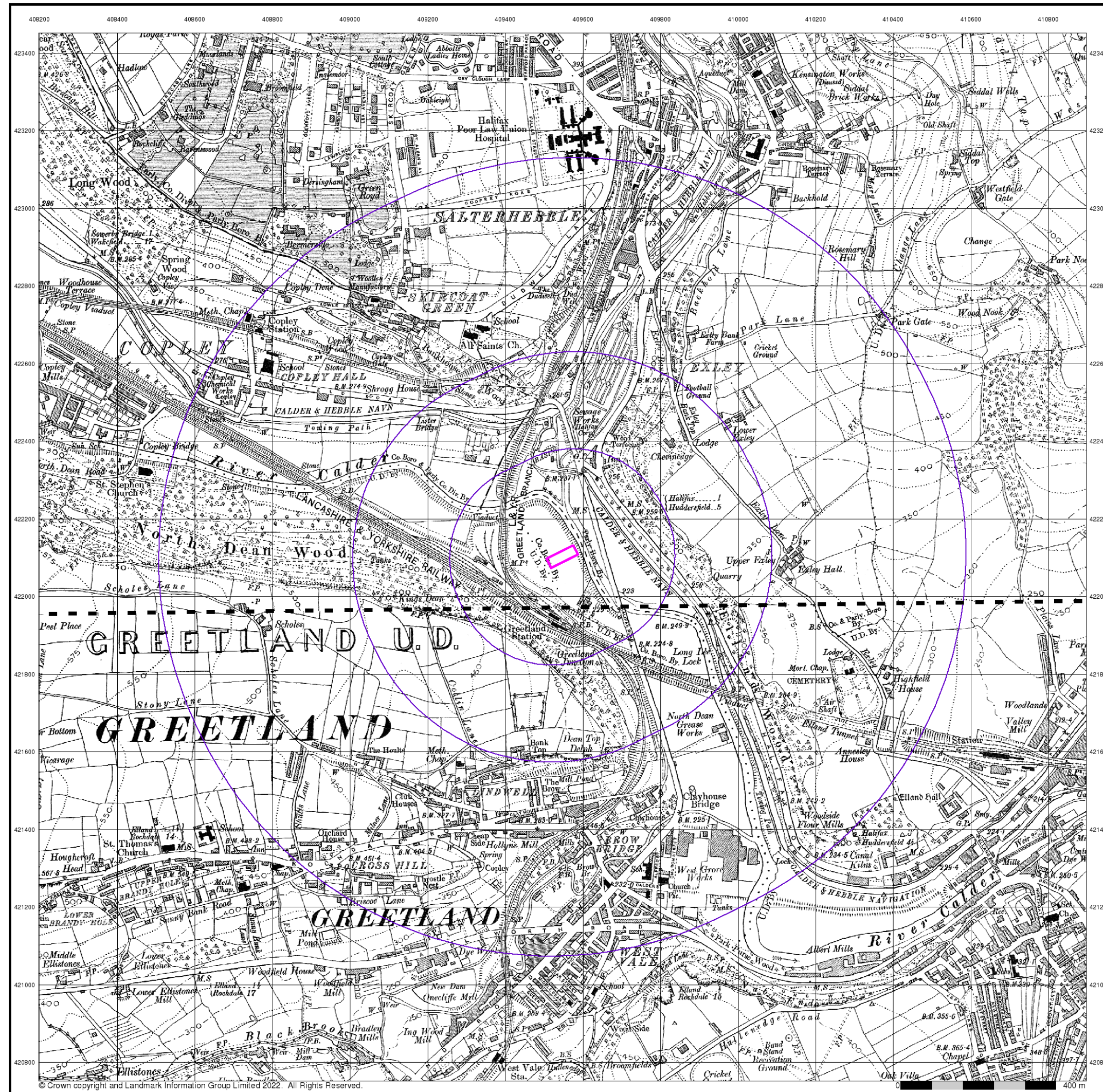
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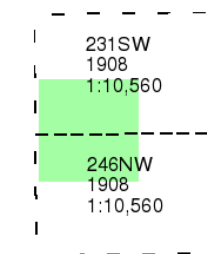
**Yorkshire**

**Published 1908**

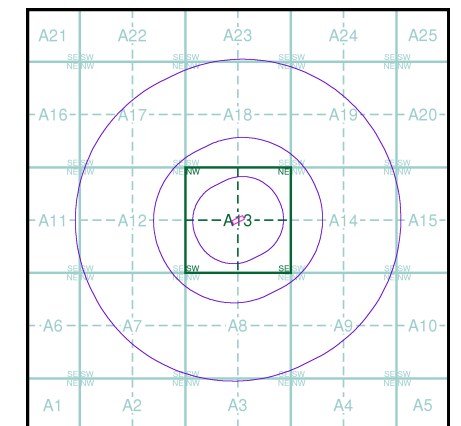
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

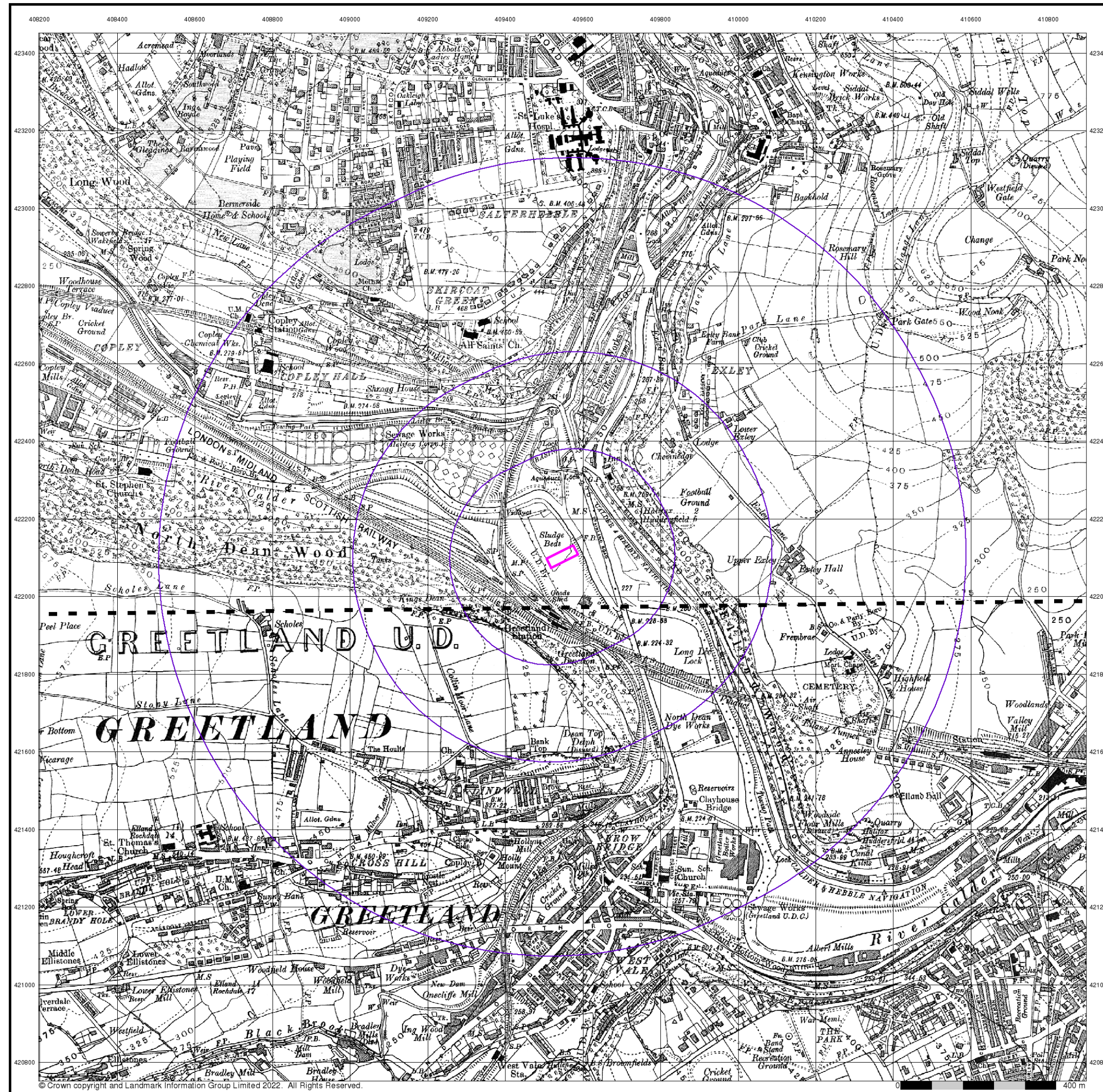
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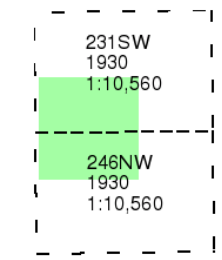
## Yorkshire

Published 1930

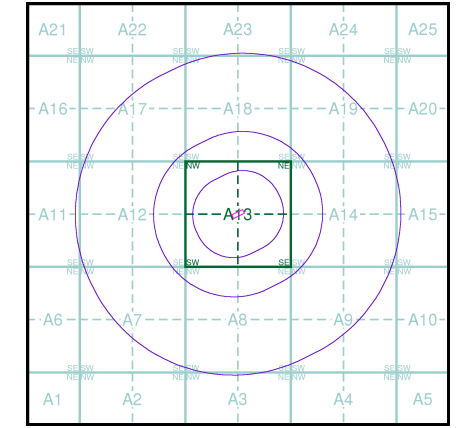
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



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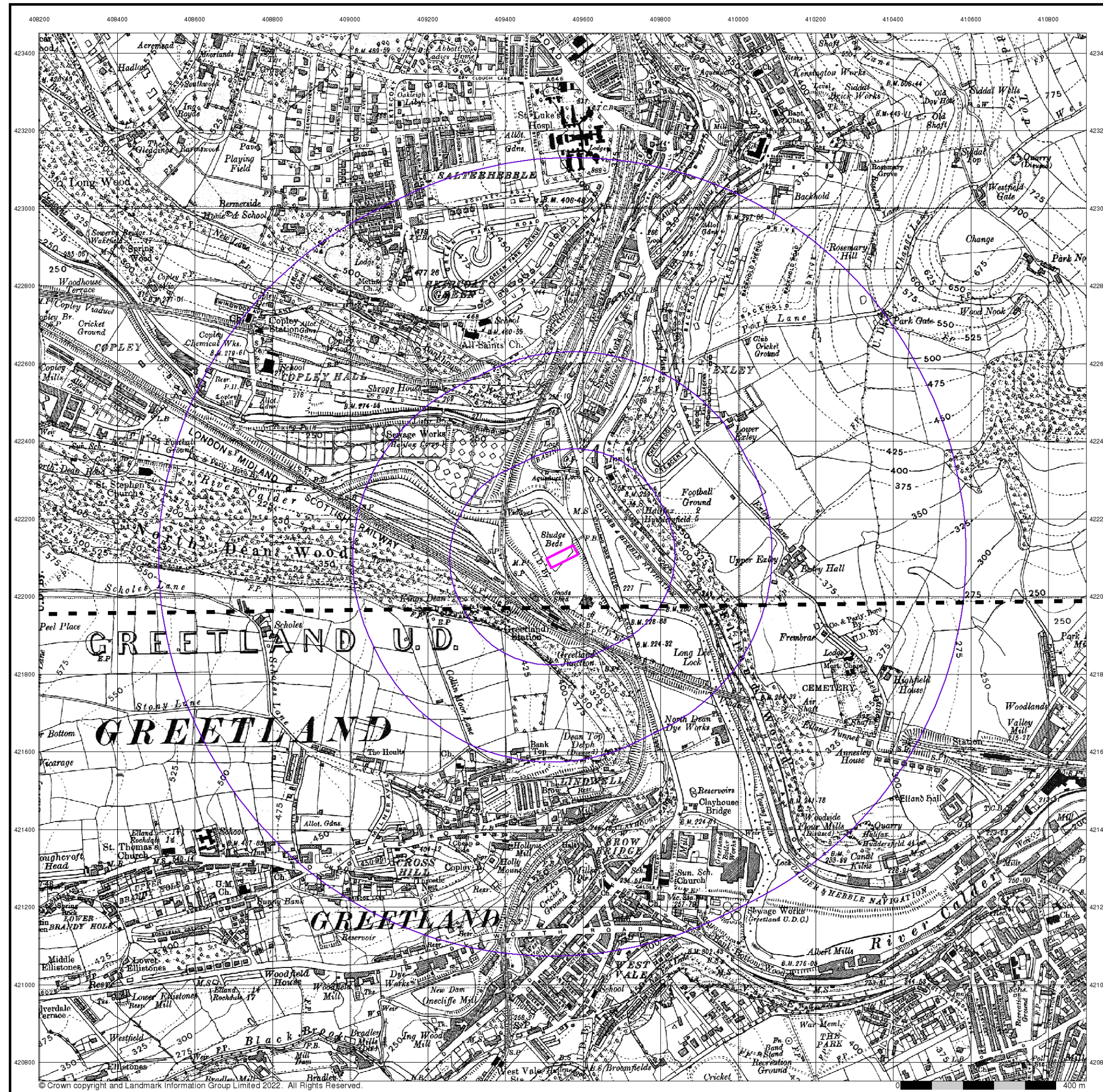
### Site Details

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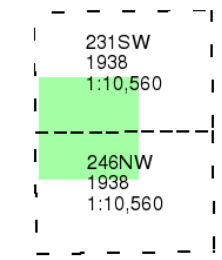
Yorkshire

Published 1938

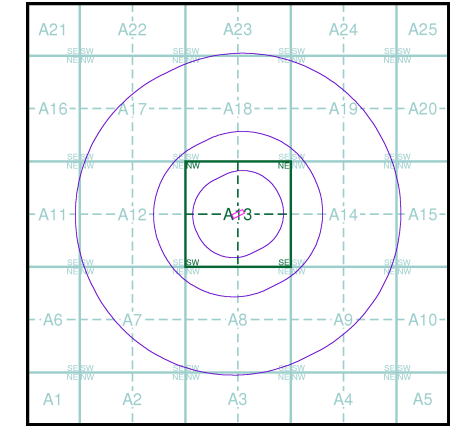
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

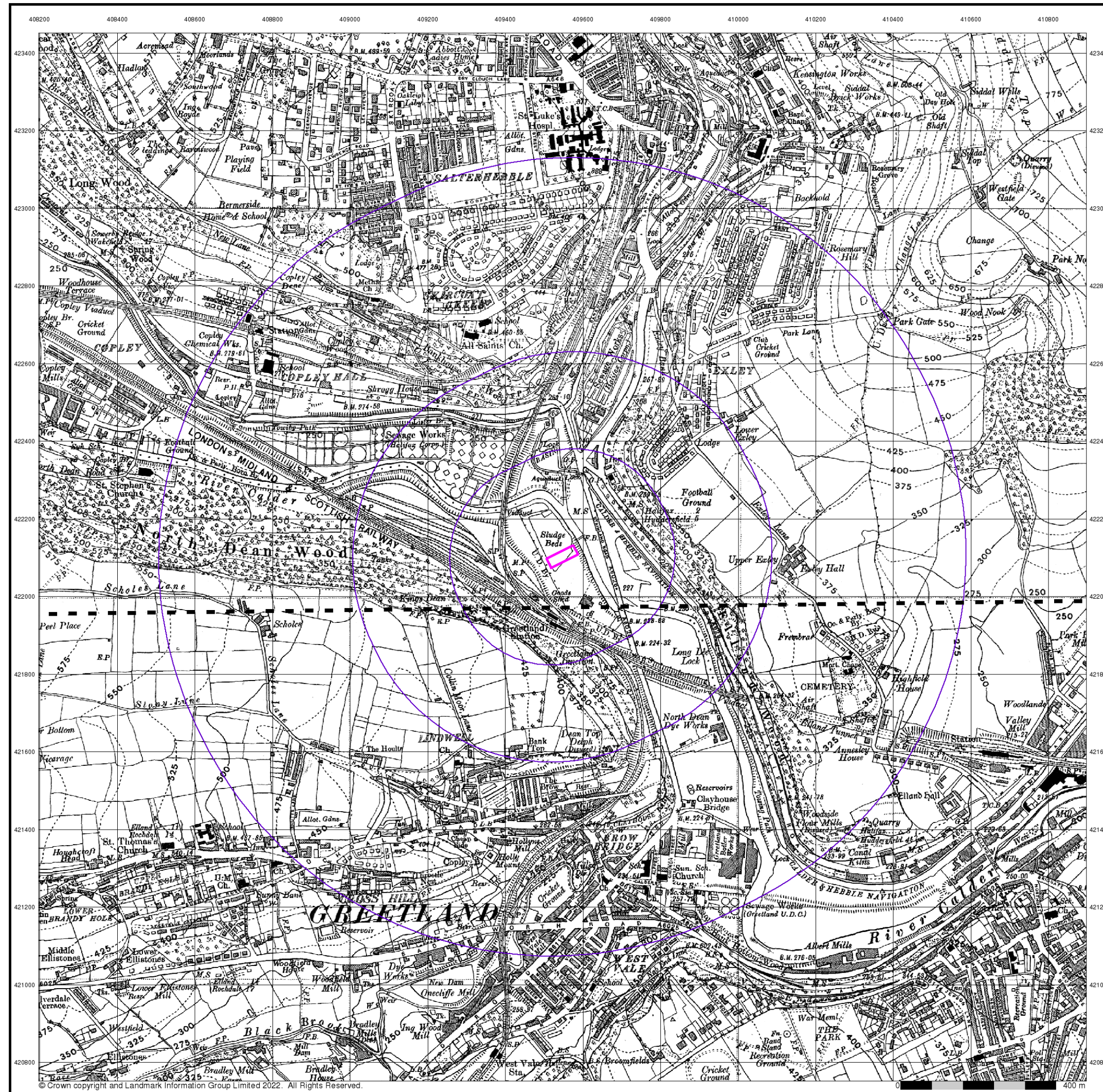
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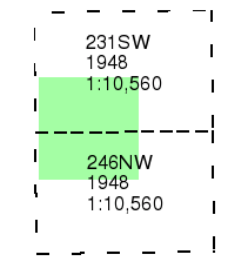
## Yorkshire

Published 1948

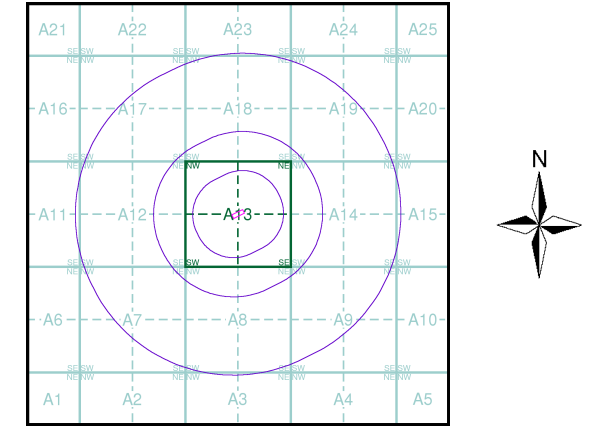
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

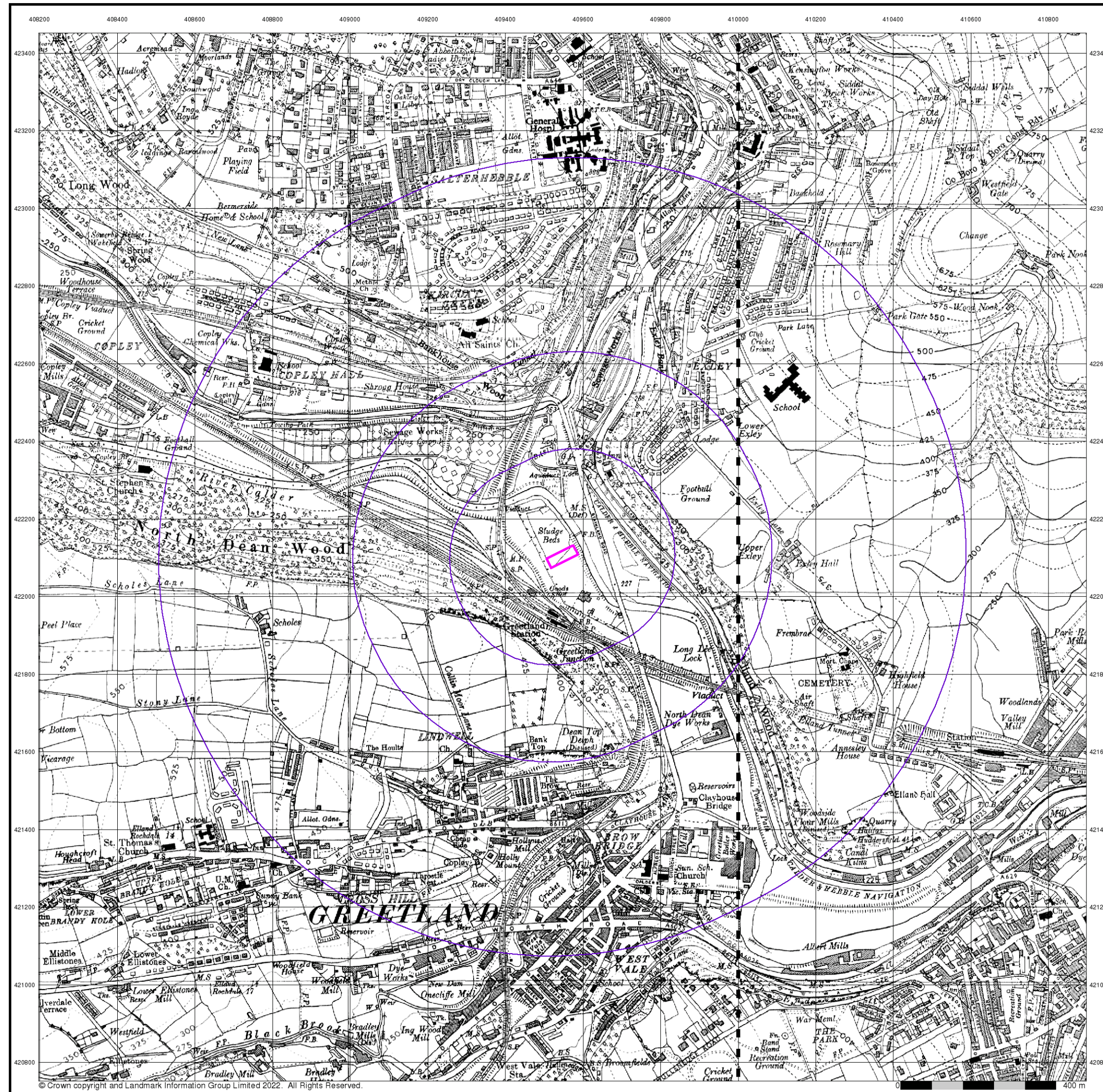
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 Site Area (Ha): 0.2  
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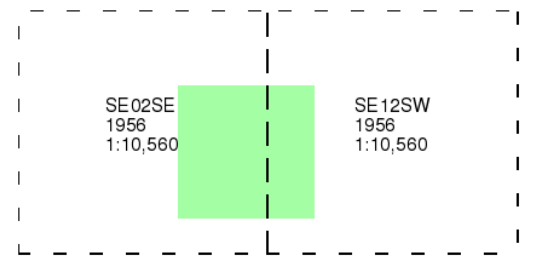
## Ordnance Survey Plan

Published 1956

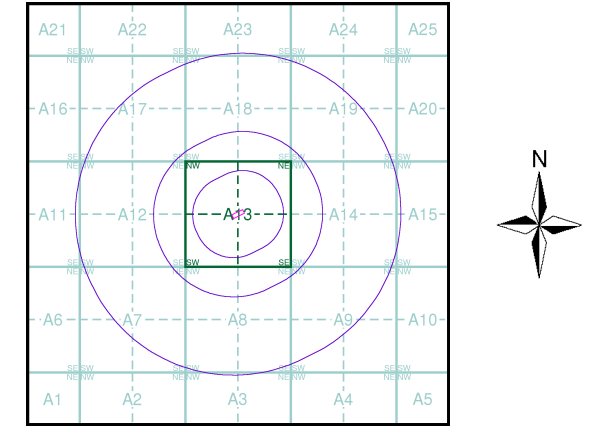
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
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### Site Details

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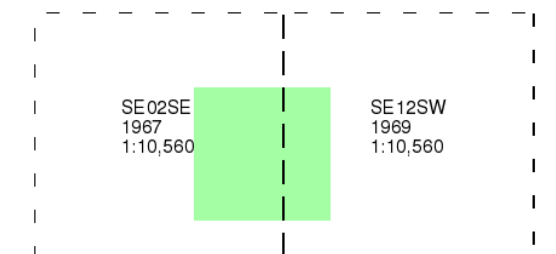
## Ordnance Survey Plan

Published 1967 - 1969

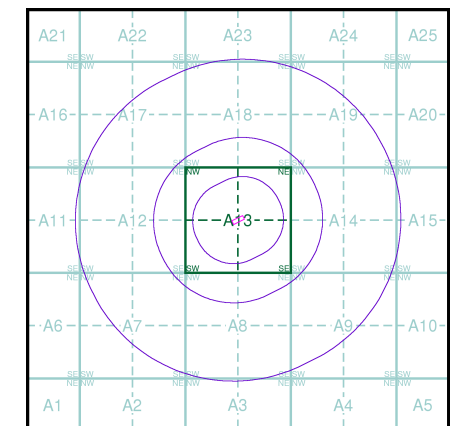
Source map scale - 1:10,000

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### Map Name(s) and Date(s)



### Historical Map - Slice A

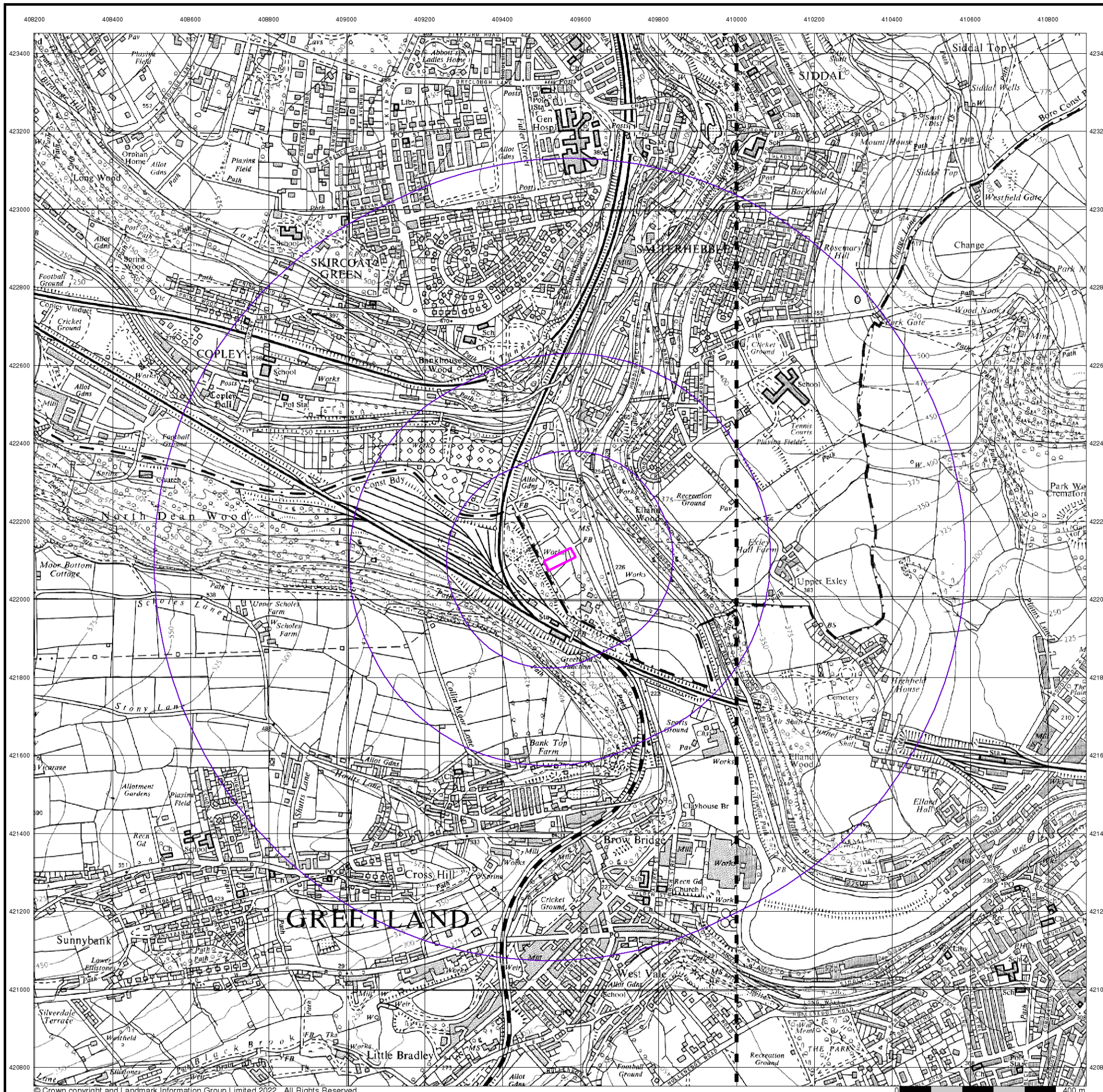


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## Halifax

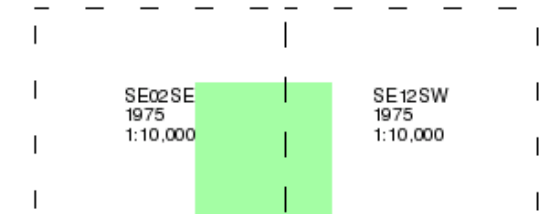
Published 1975

Source map scale - 1:10,000

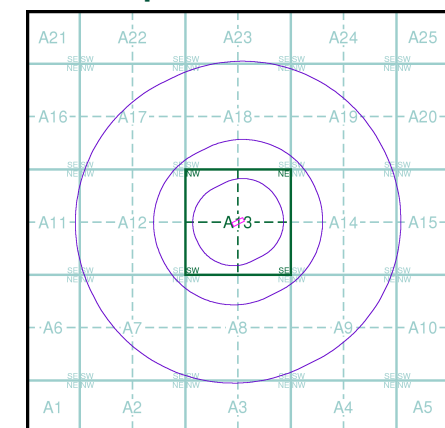
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

### Map Name(s) and Date(s)



### Russian Map - Slice A

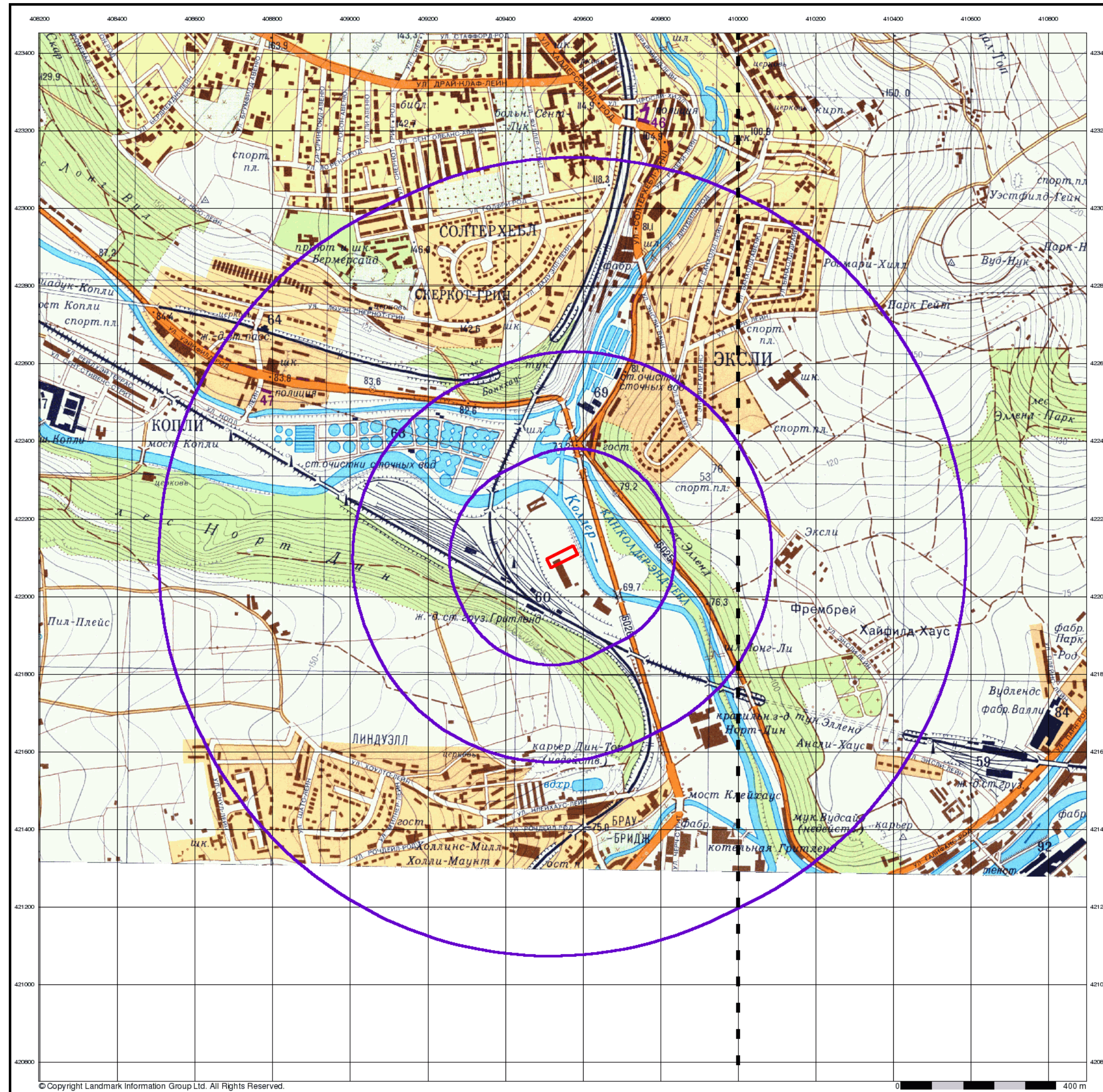


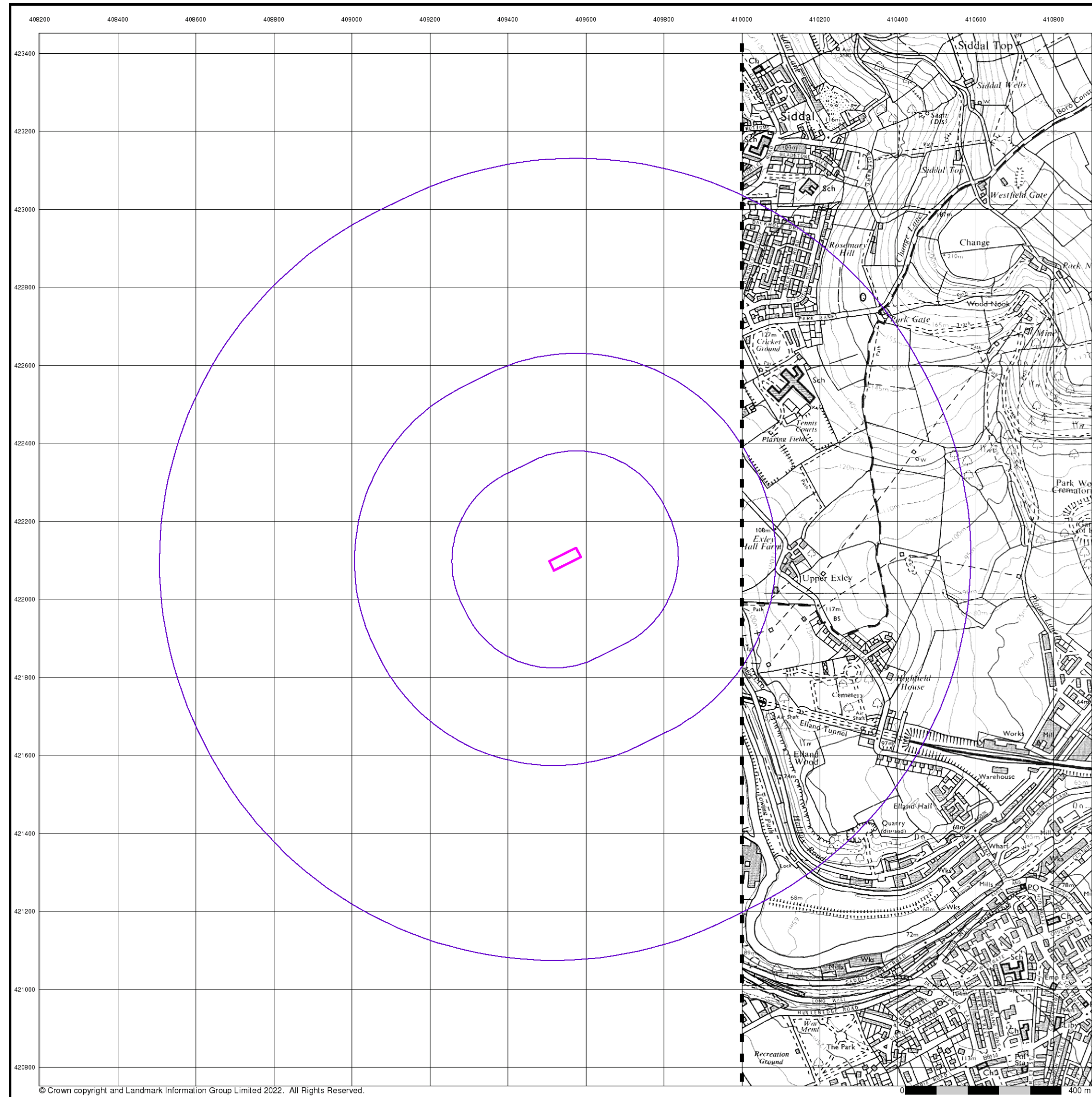
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### Site Details

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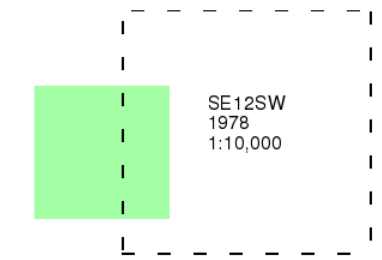




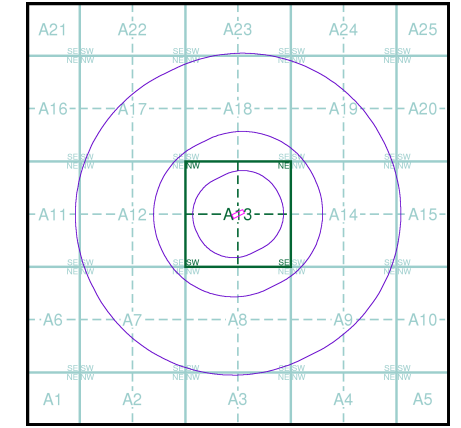
## Ordnance Survey Plan Published 1978 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



**Order Details**  
 Order Number: 299586741\_1\_1  
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**Site Details**  
 Calder Remediation Ltd, North Dean Waste Recovery Facility,  
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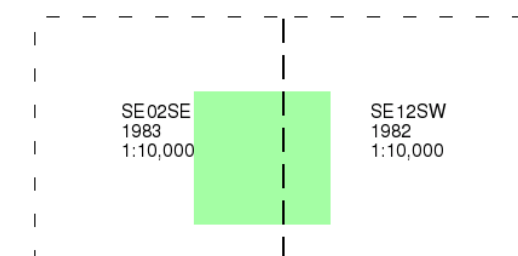
## Ordnance Survey Plan

Published 1982 - 1983

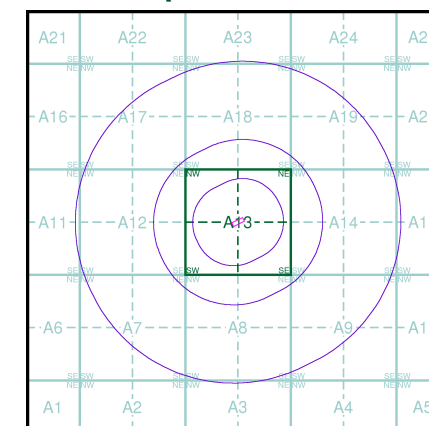
Source map scale - 1:10,000

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### Map Name(s) and Date(s)



### Historical Map - Slice A

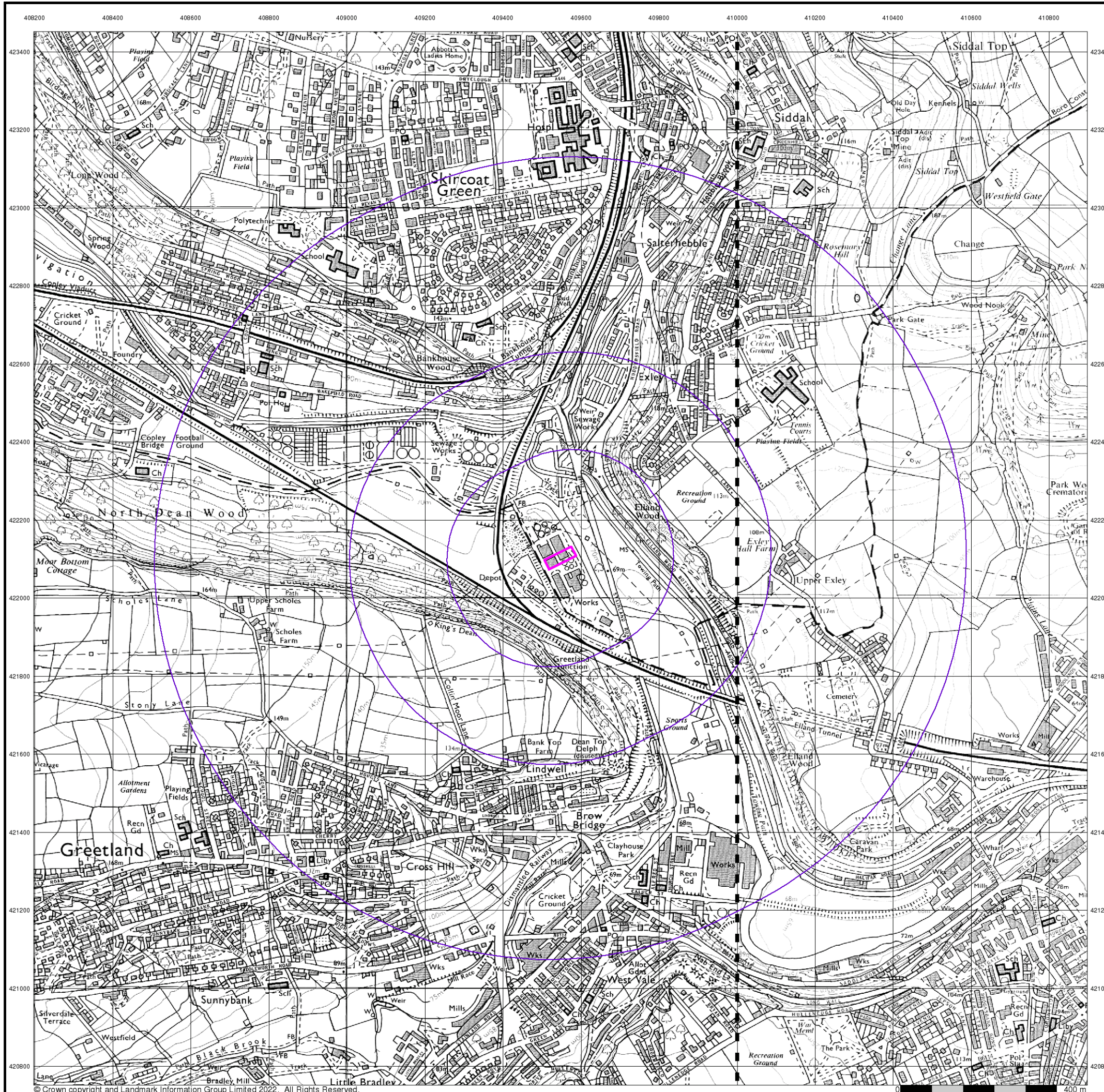


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 Site Area (Ha): 0.2  
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Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR



## Huddersfield

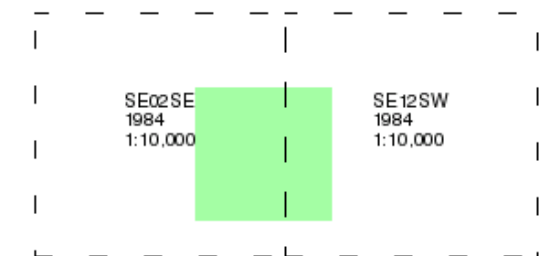
Published 1984

Source map scale - 1:10,000

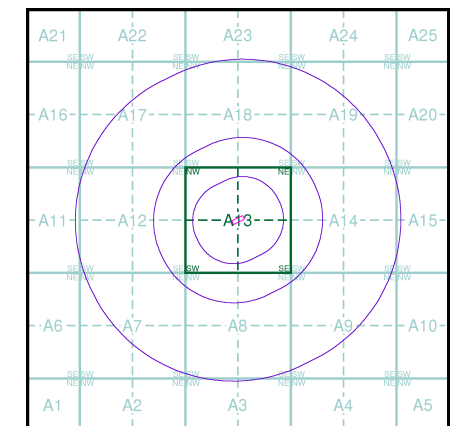
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

### Map Name(s) and Date(s)



### Russian Map - Slice A

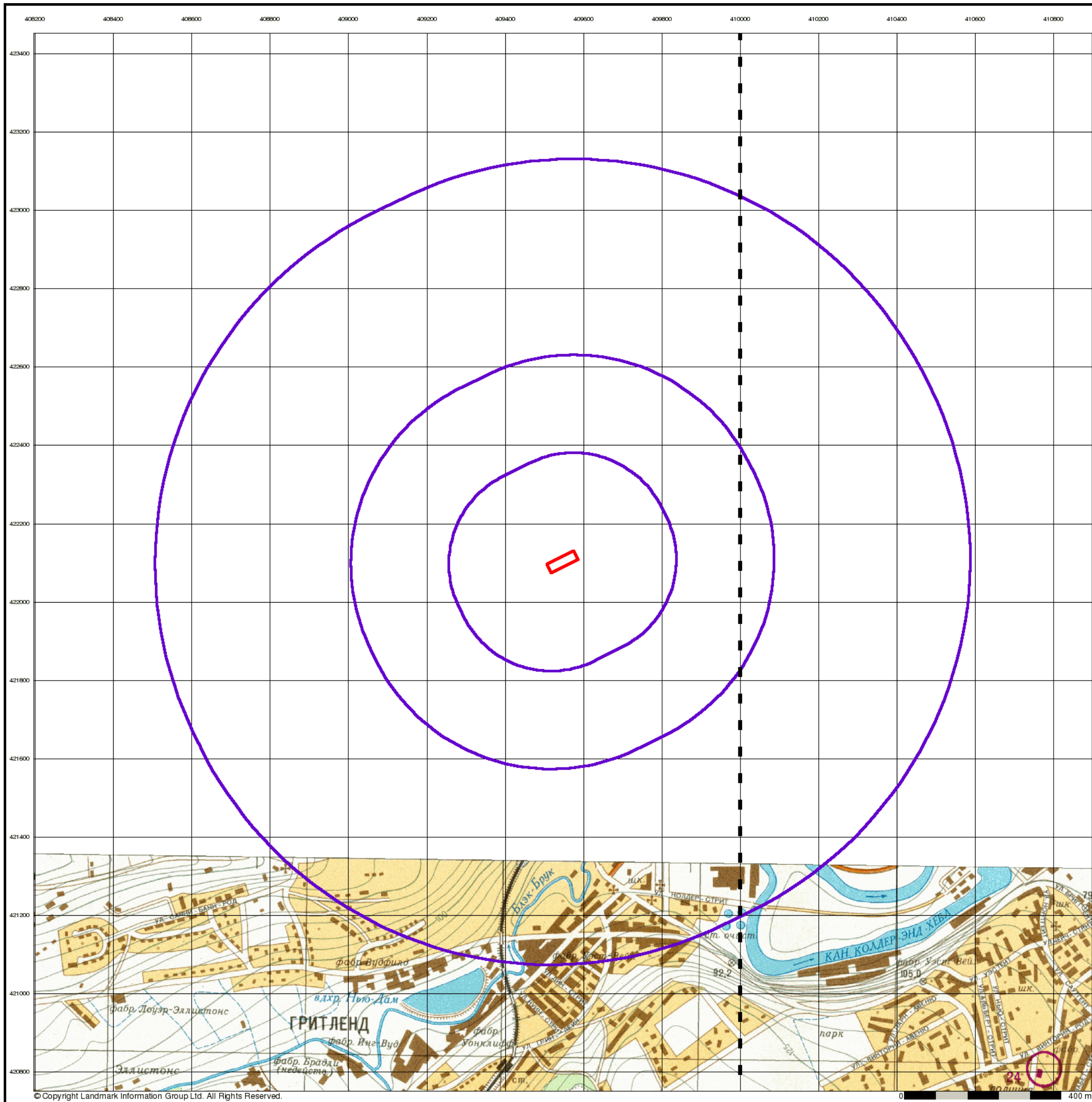


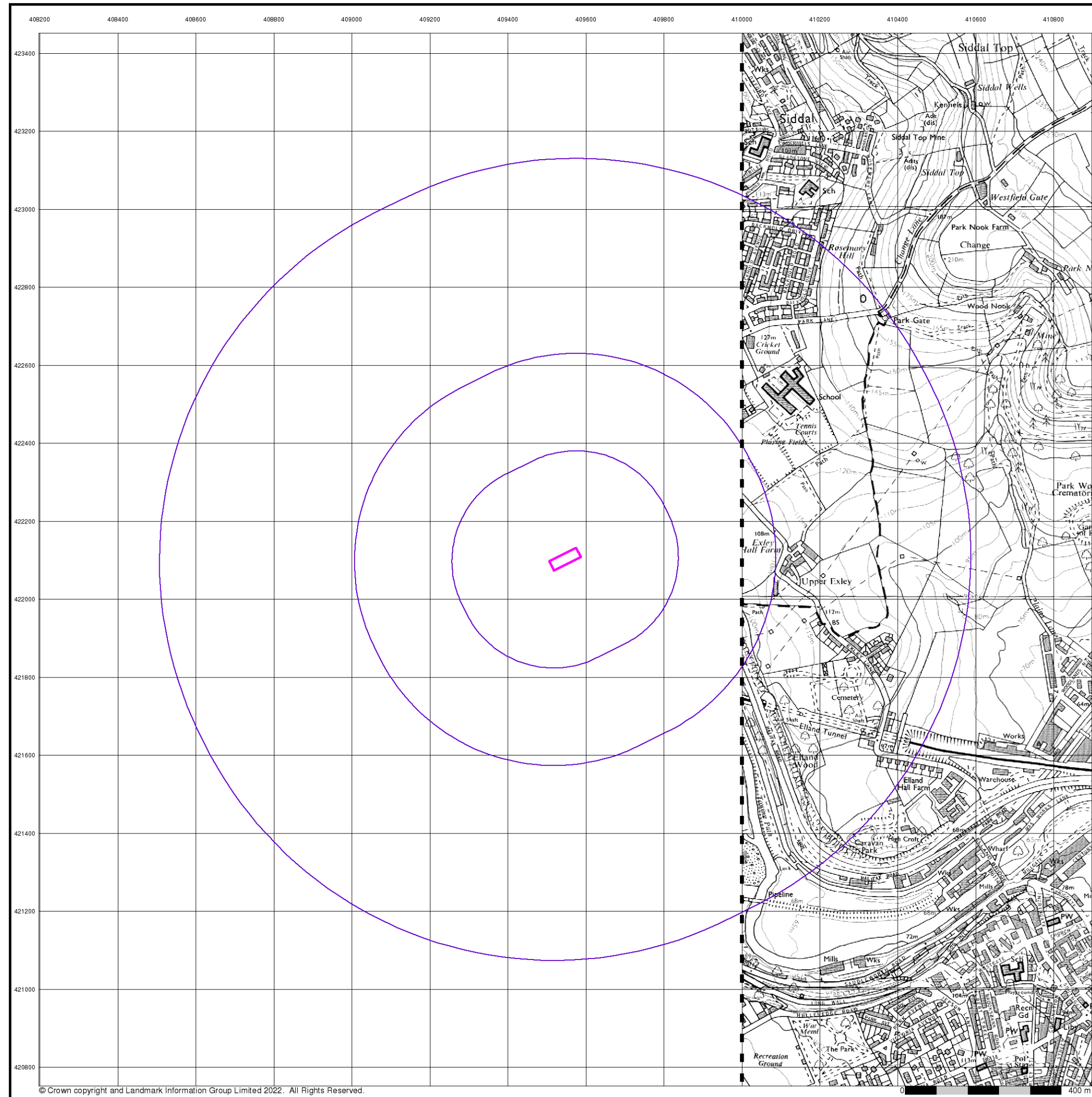
### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR





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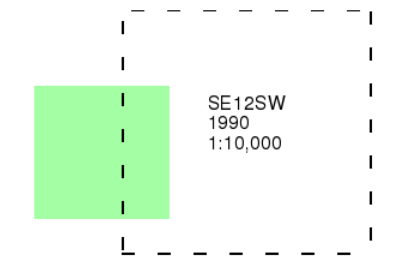
## Ordnance Survey Plan

Published 1990

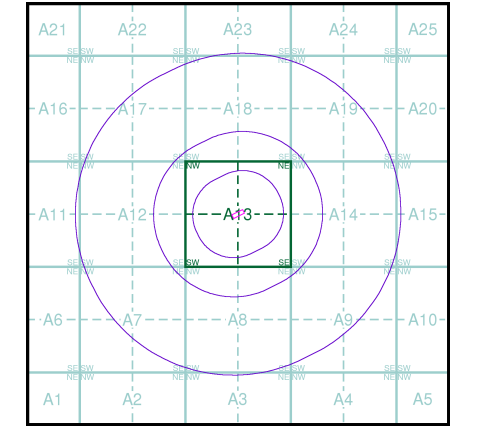
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

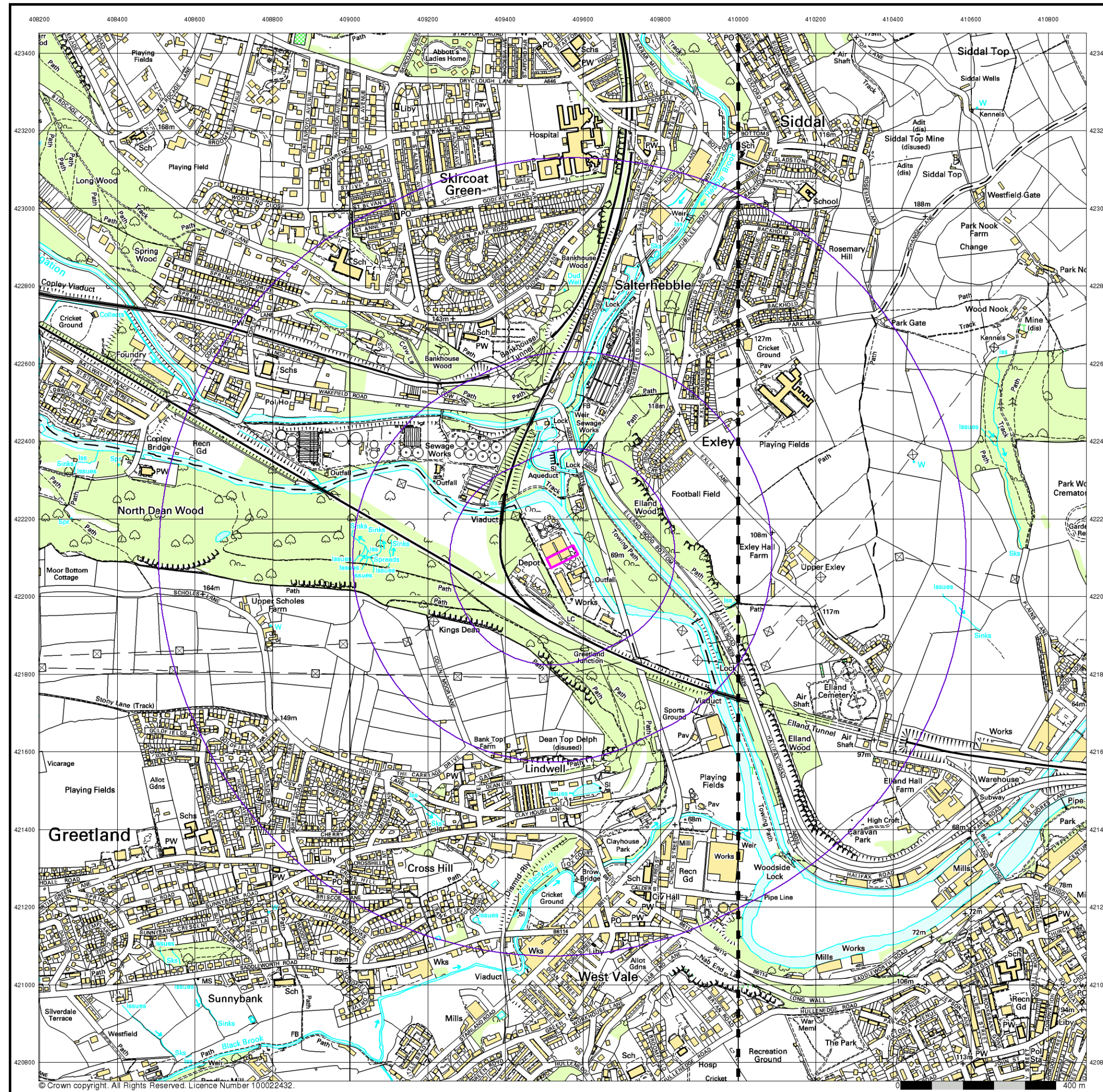


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR



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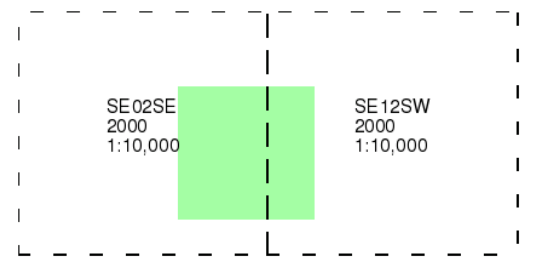
## 10k Raster Mapping

Published 2000

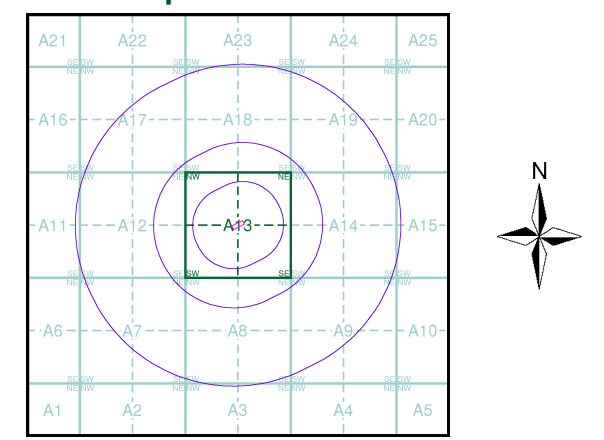
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

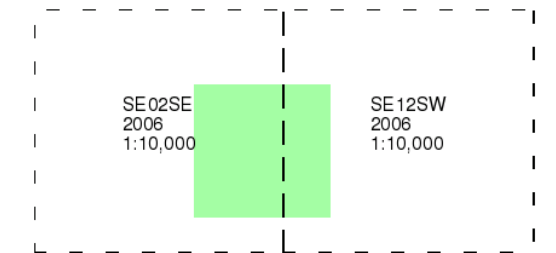
Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR

**Landmark**  
 ● LANDMARK INFORMATION GROUP

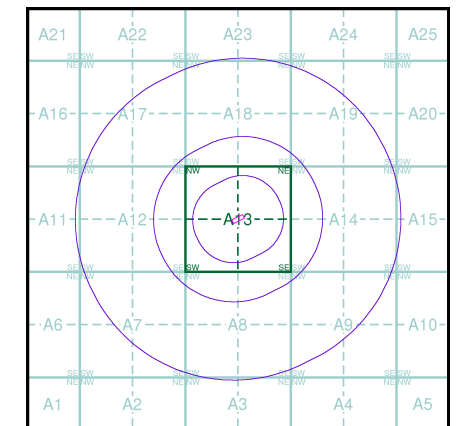
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

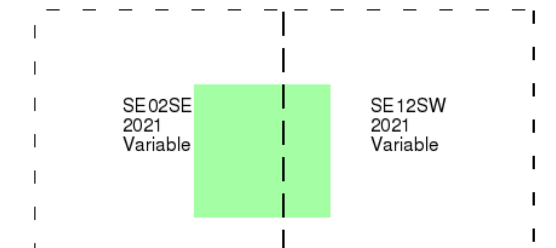
Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR



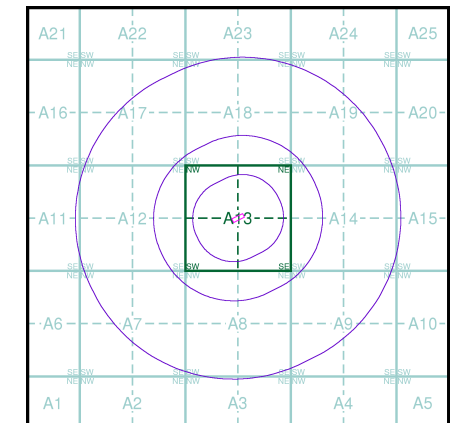
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VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

### Map Name(s) and Date(s)



### Historical Map - Slice A

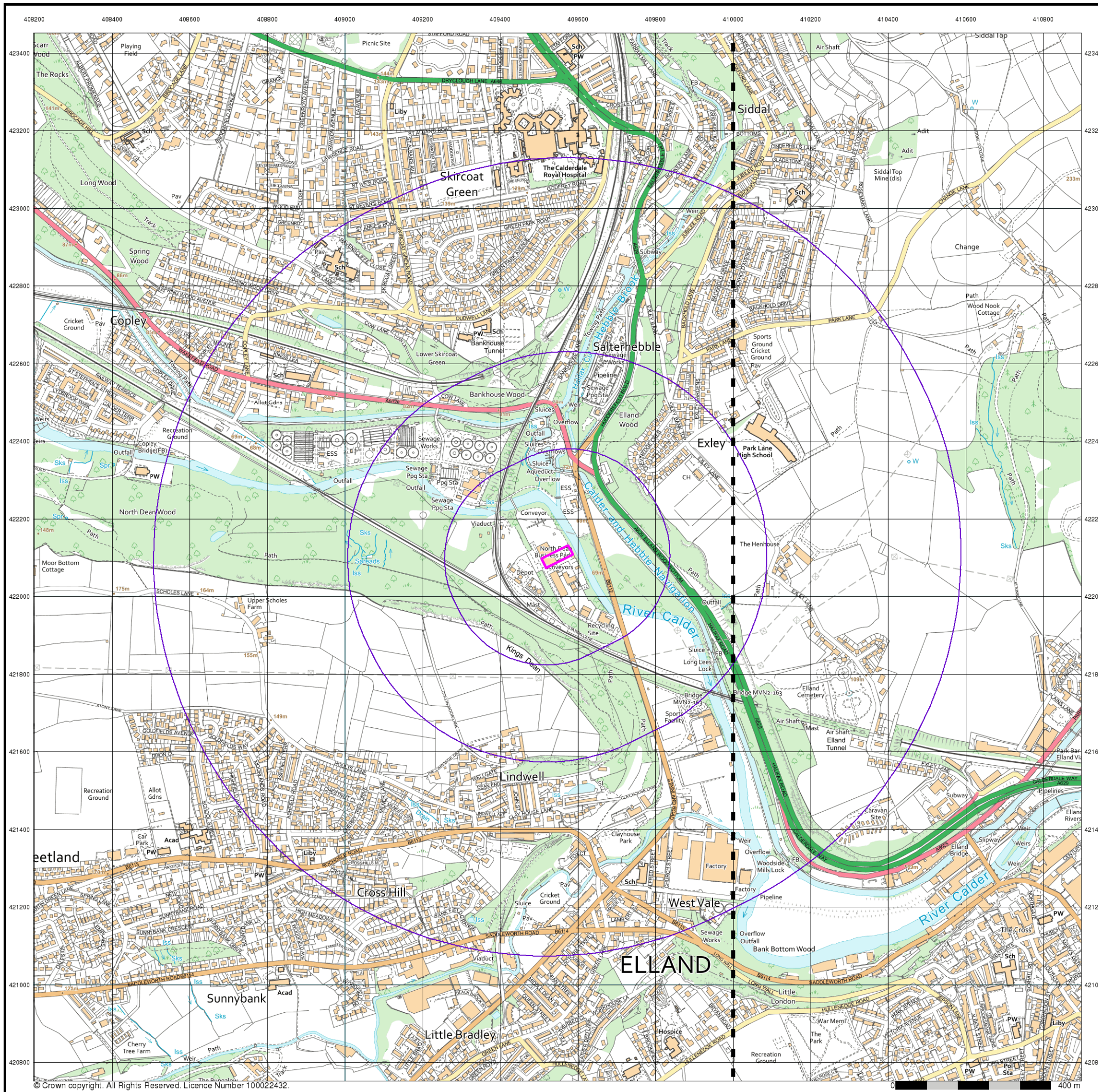


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
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 Search Buffer (m): 1000

### Site Details

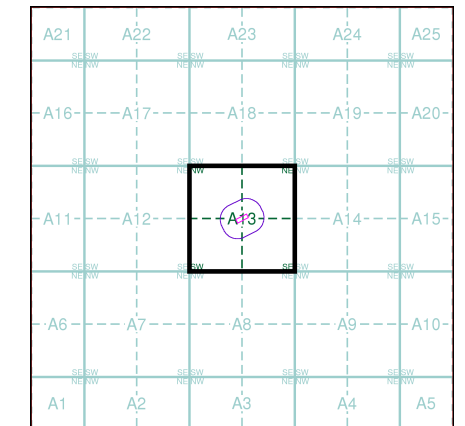
Calder Remediation Ltd, North Dean Waste Recovery Facility, North Dean Business Park, Stainland Road, ELLAND, Halifax, HX4 8LR





- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
  - Pylon
  - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

## Site Sensitivity Map - Segment A13

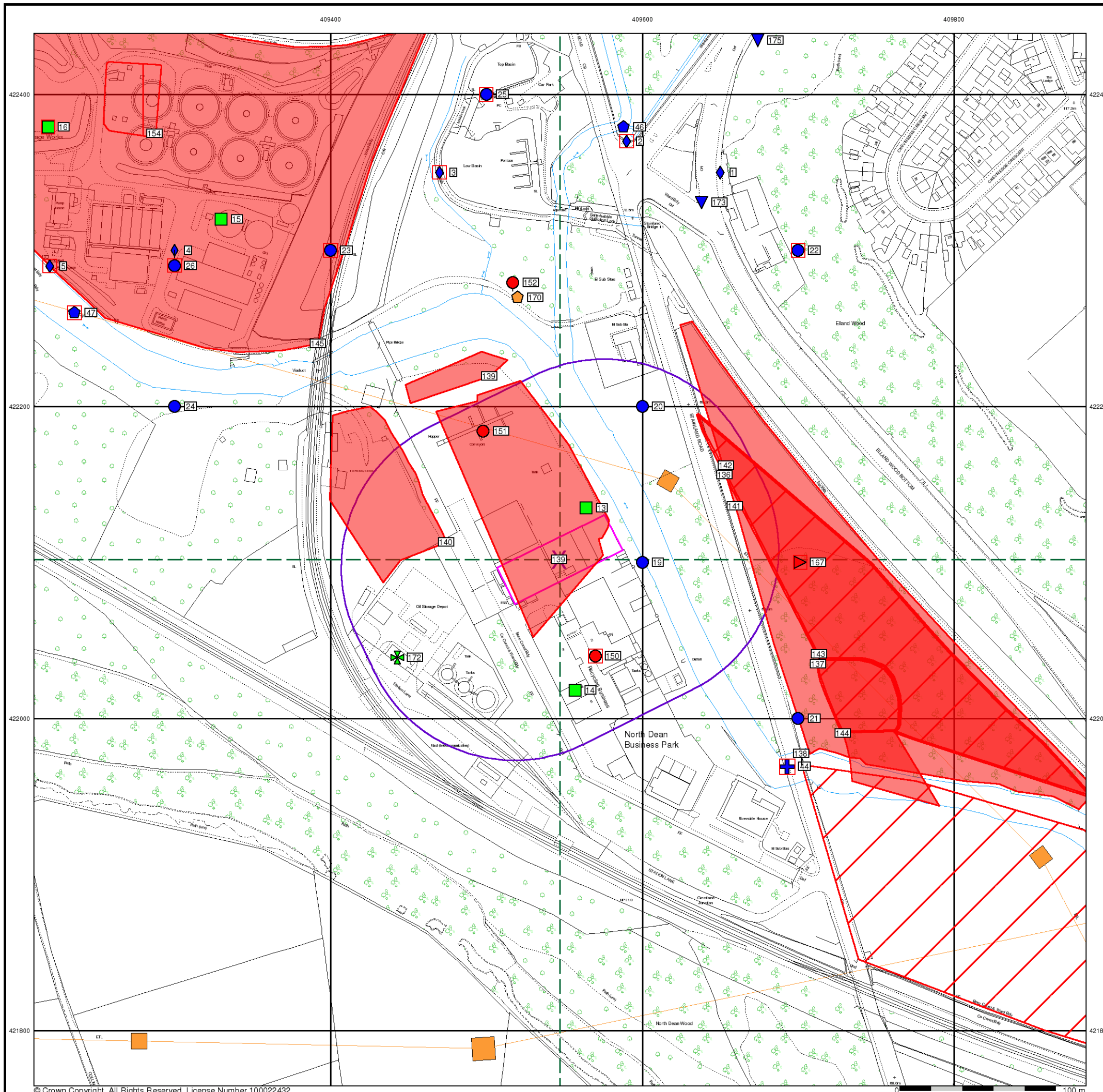


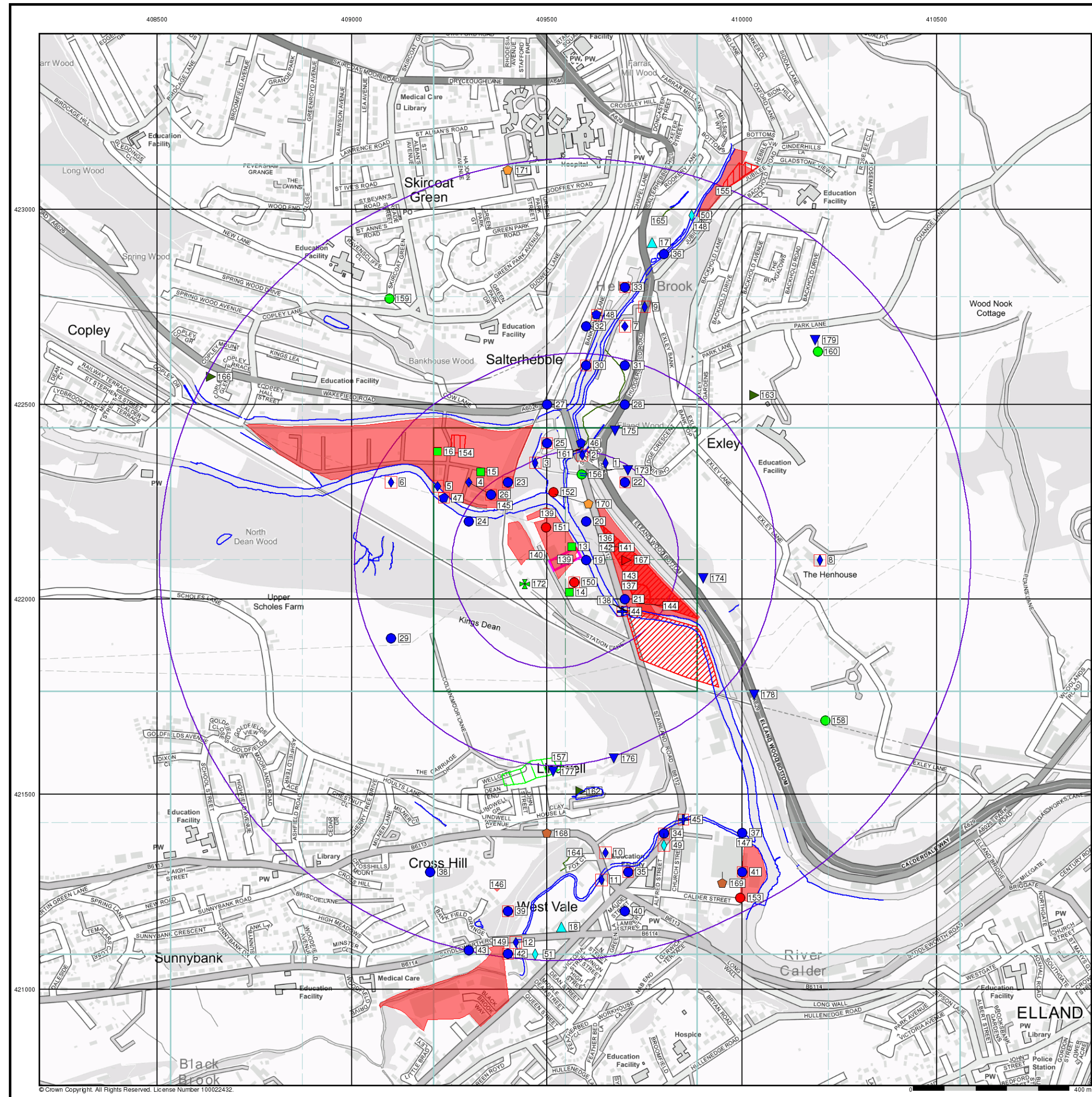
## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Plot Buffer (m): 100

## Site Details

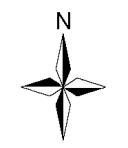
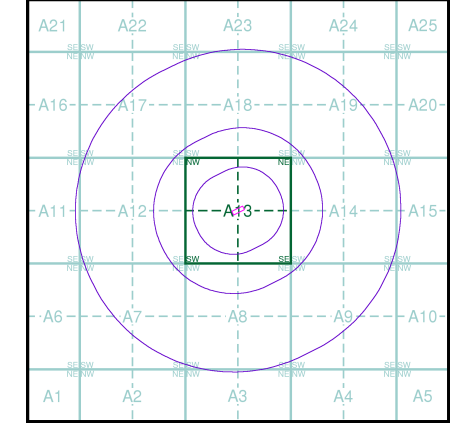
Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR





- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
  - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
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  - Licensed Waste Management Facility (Landfill Boundary)
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  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
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  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site

### Site Sensitivity Map - Slice A

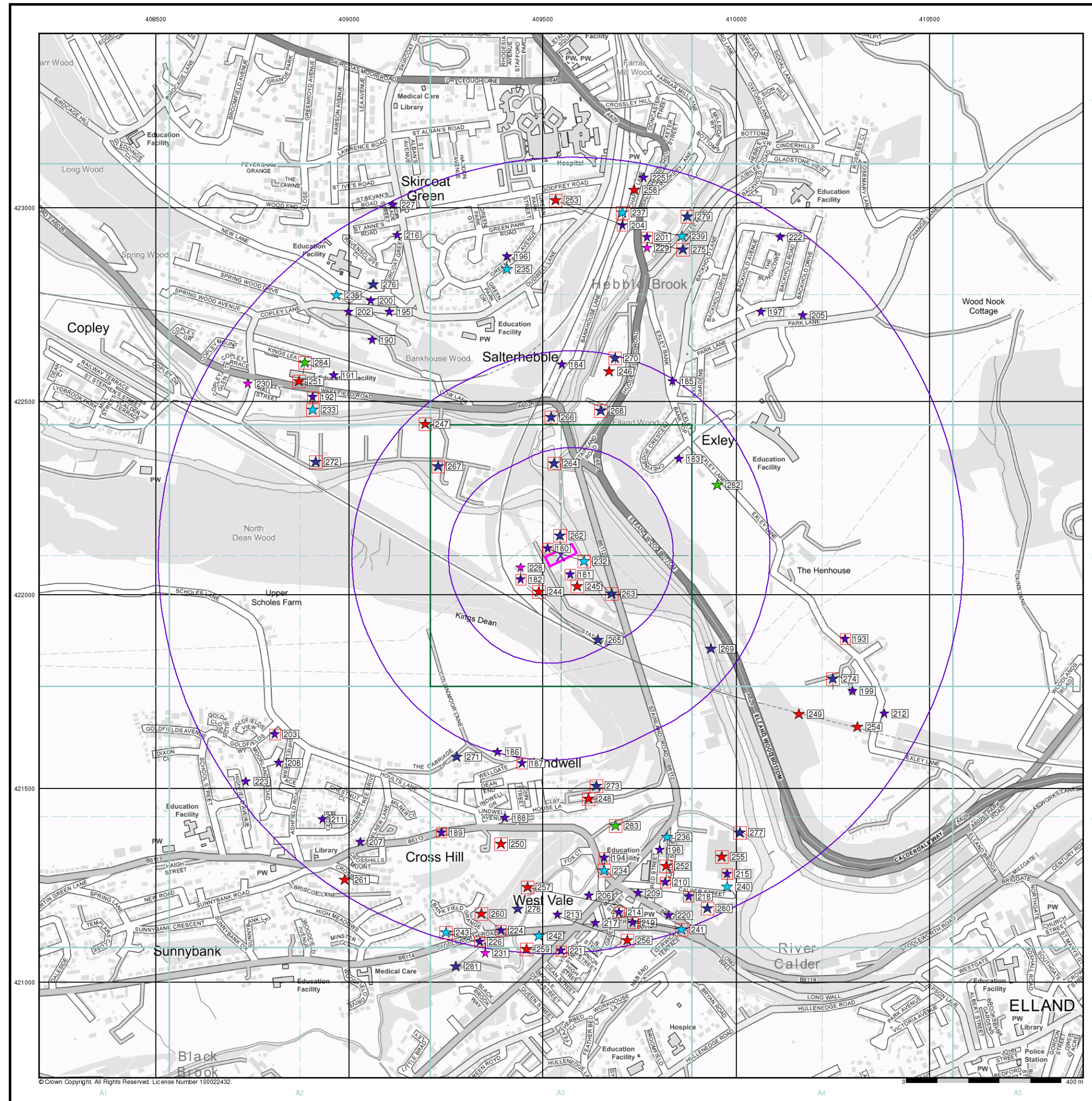


**Order Details**

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

**Site Details**

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



## Industrial Land Use Map

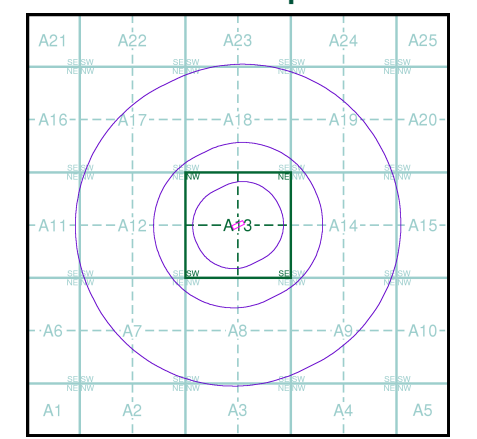
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

## Industrial Land Use Map - Slice A



### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

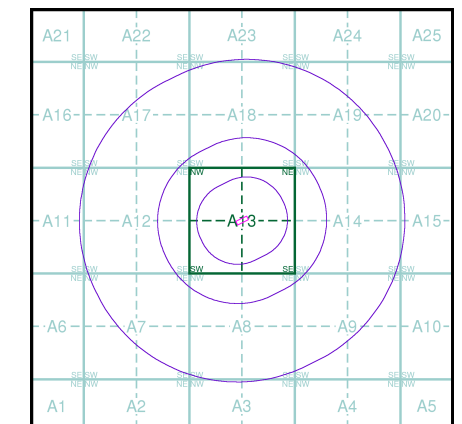
### General

- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

### Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- ▨ Area Benefiting from Flood Defence
- Flood Water Storage Areas
- - - Flood Defence

### Flood Map - Slice A

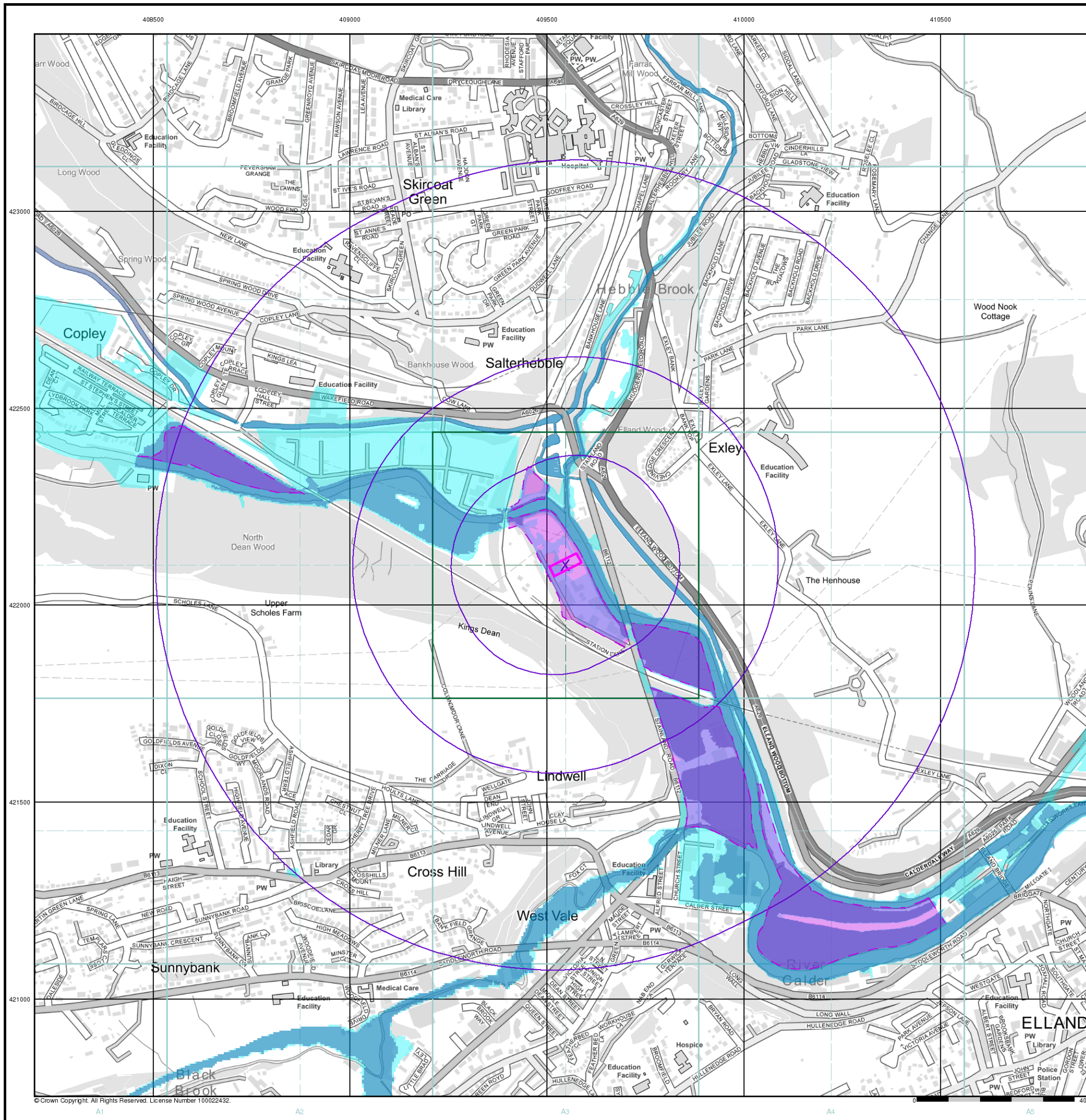


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



### General

- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Map ID
- Several of Type at Location

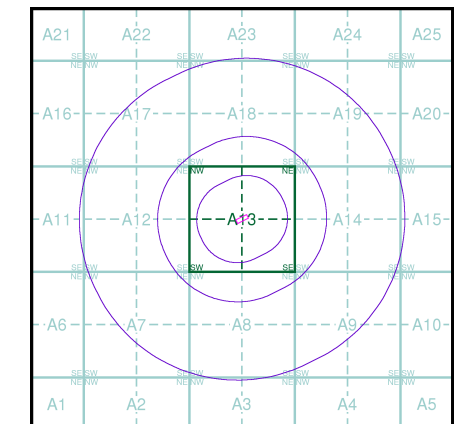
### Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

### Borehole Map - Slice A

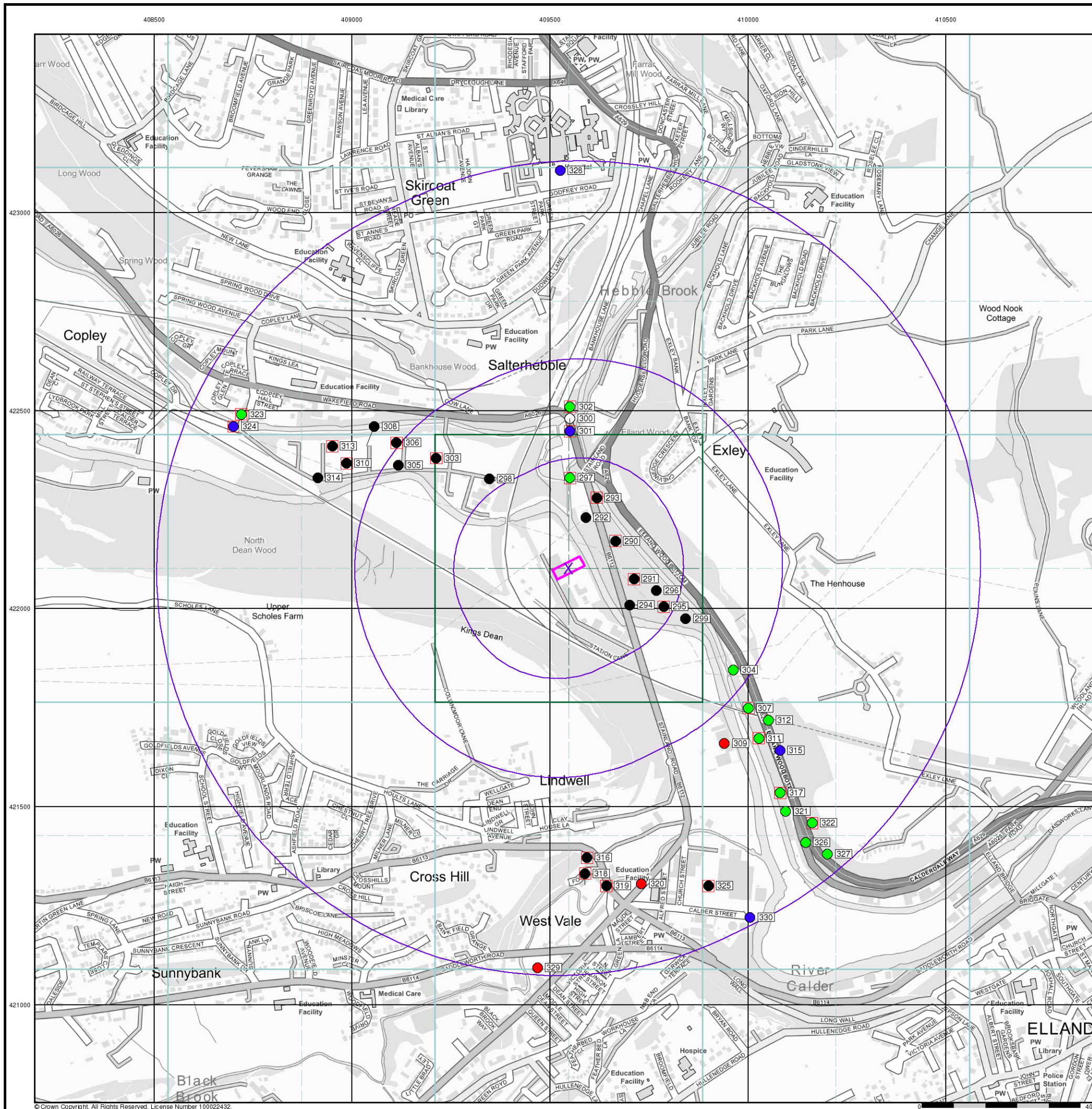


### Order Details

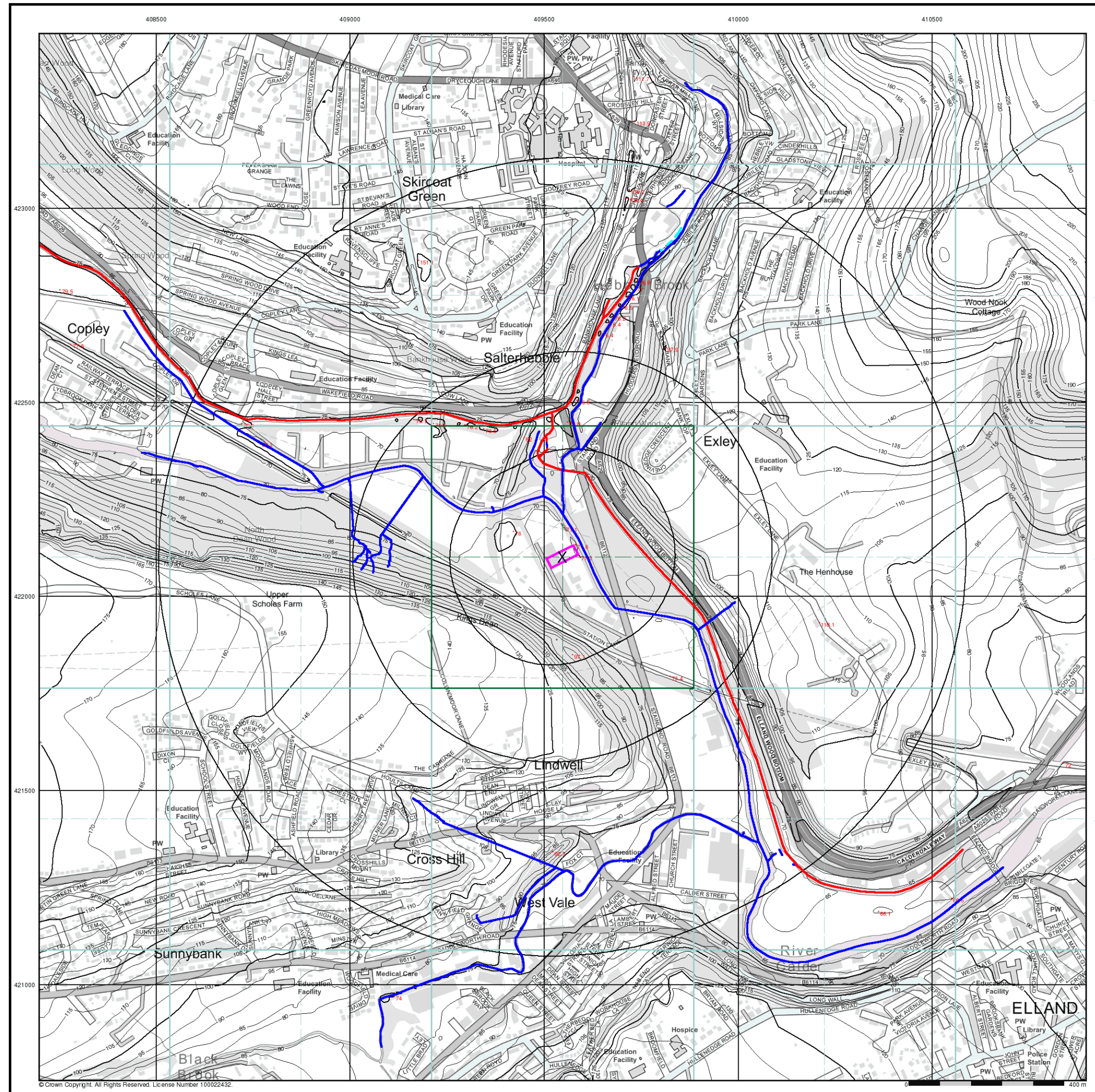
Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

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## General

- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

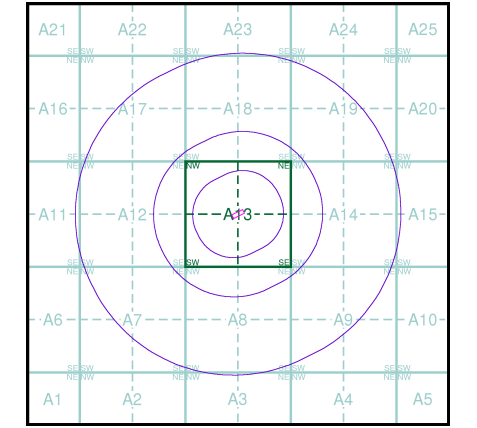
## OS Water Network Data

- |                |                           |
|----------------|---------------------------|
| — Canal        | — Drain                   |
| — Reservoir    | — Other                   |
| — Foreshore    | — Lake                    |
| — Marsh        | — Transfer                |
| — Tidal River  | — Lock Or Flight Of Locks |
| — Inland River | — Sea                     |

## Contours (height in meters)

- Standard Contour — MLW — Mean Low Water
- Master Contour — MHW — Mean High Water
- Spot Height 167.3

## OS Water Network Map - Slice A



## Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

**Landmark**  
 ● INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

### Risk of Flooding from Surface Water

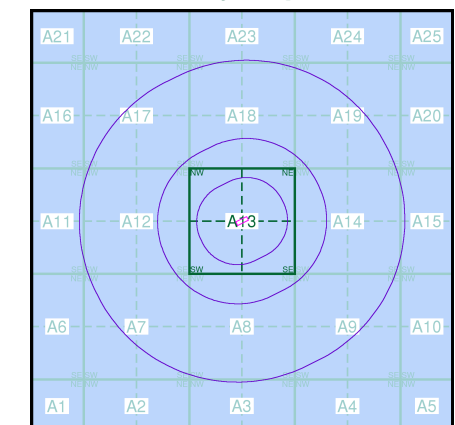
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

### Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

### EANRW Suitability Map - Slice A

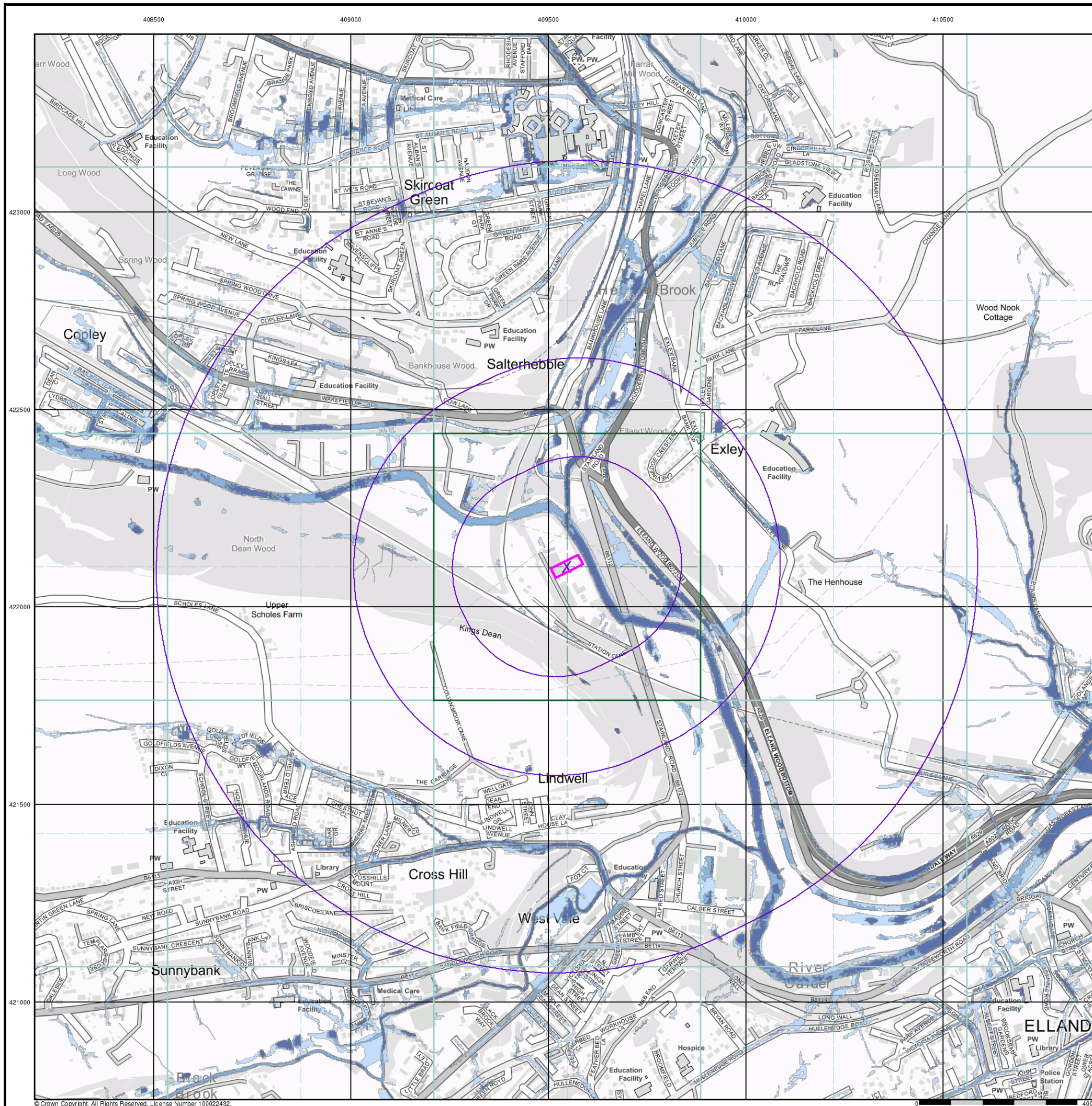


### Order Details

Order Number: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



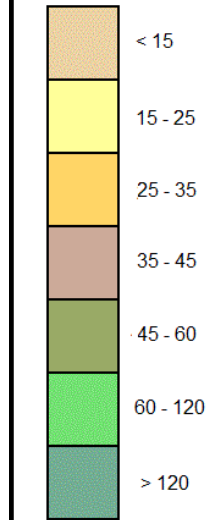
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## General

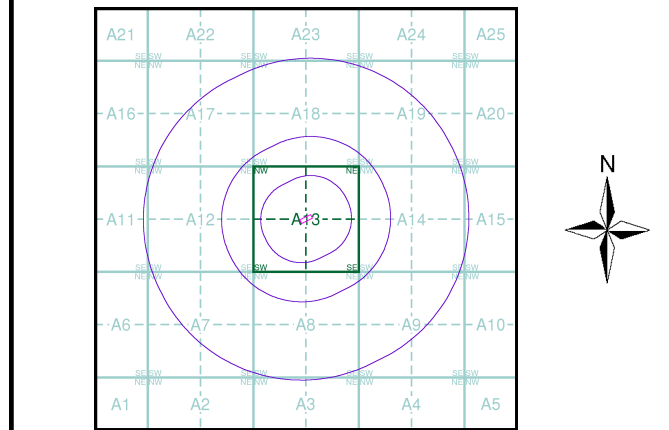
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

## Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



## Estimated Soil Chemistry Arsenic - Slice A

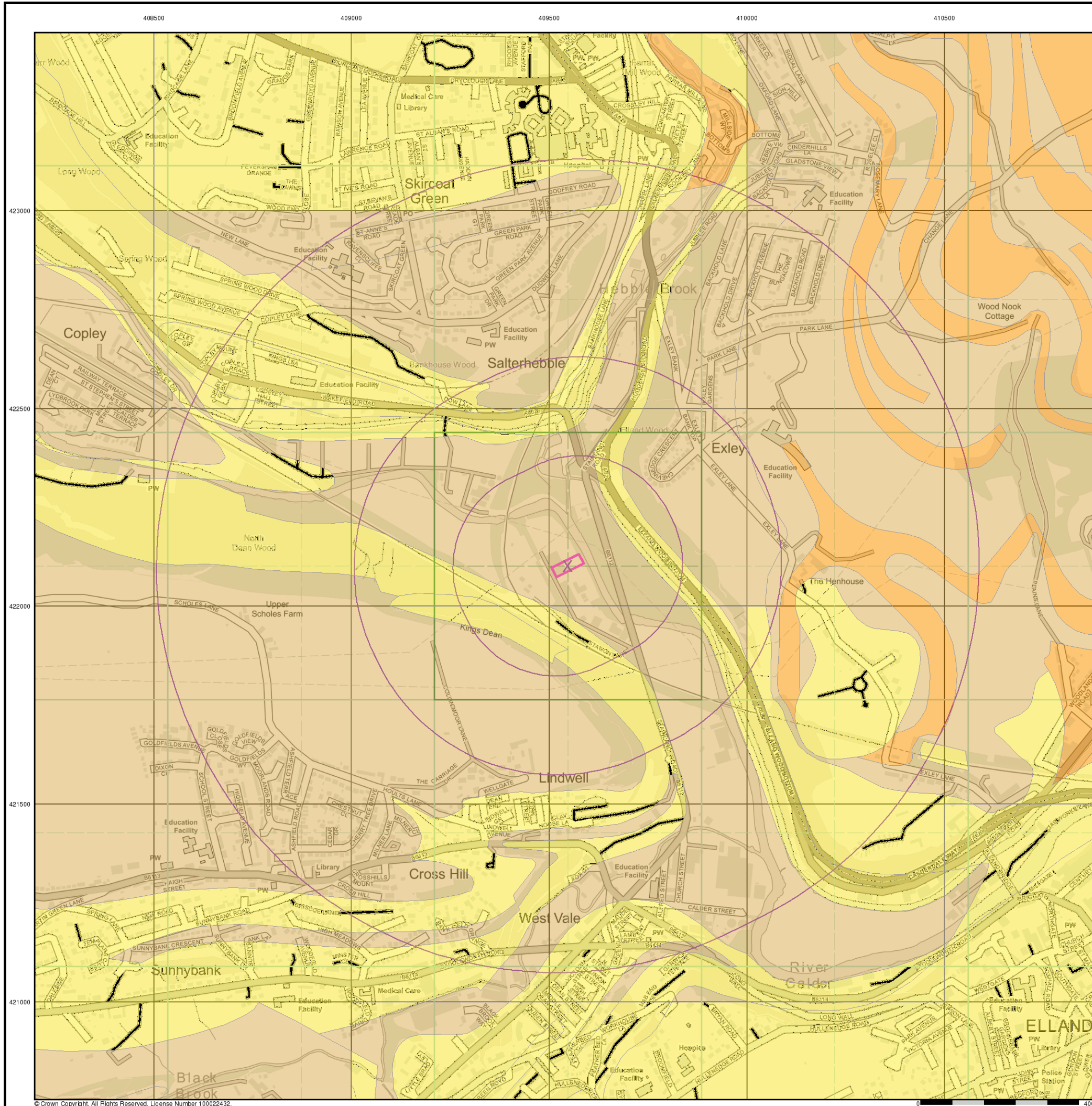


## Order Details

Order Details: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



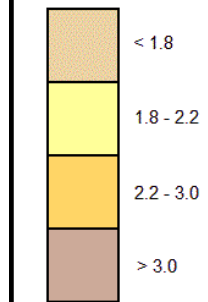


## General

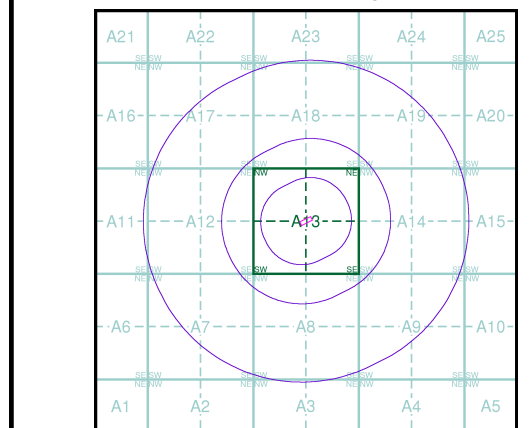
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

## Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



## Estimated Soil Chemistry Cadmium - Slice A

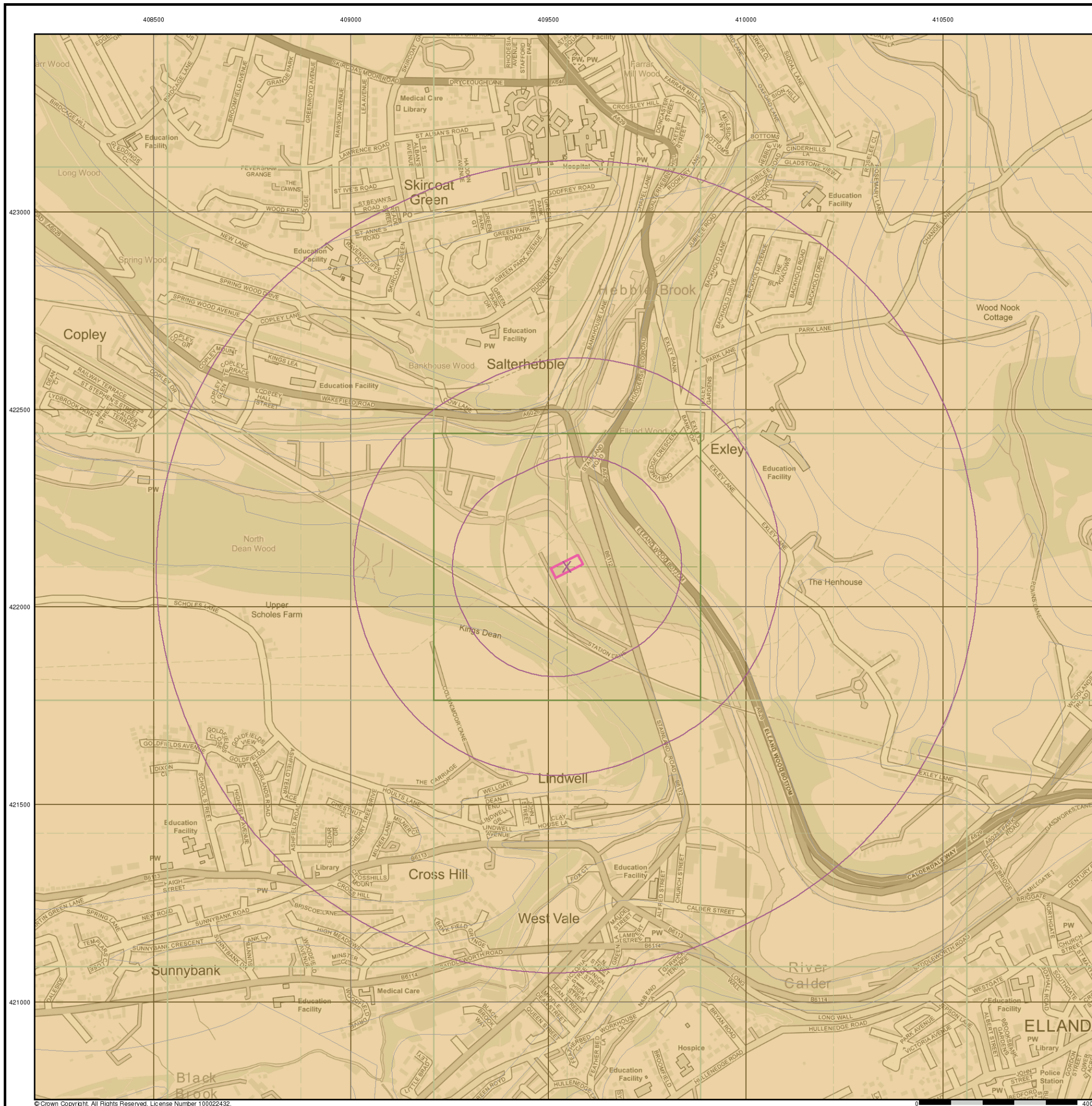


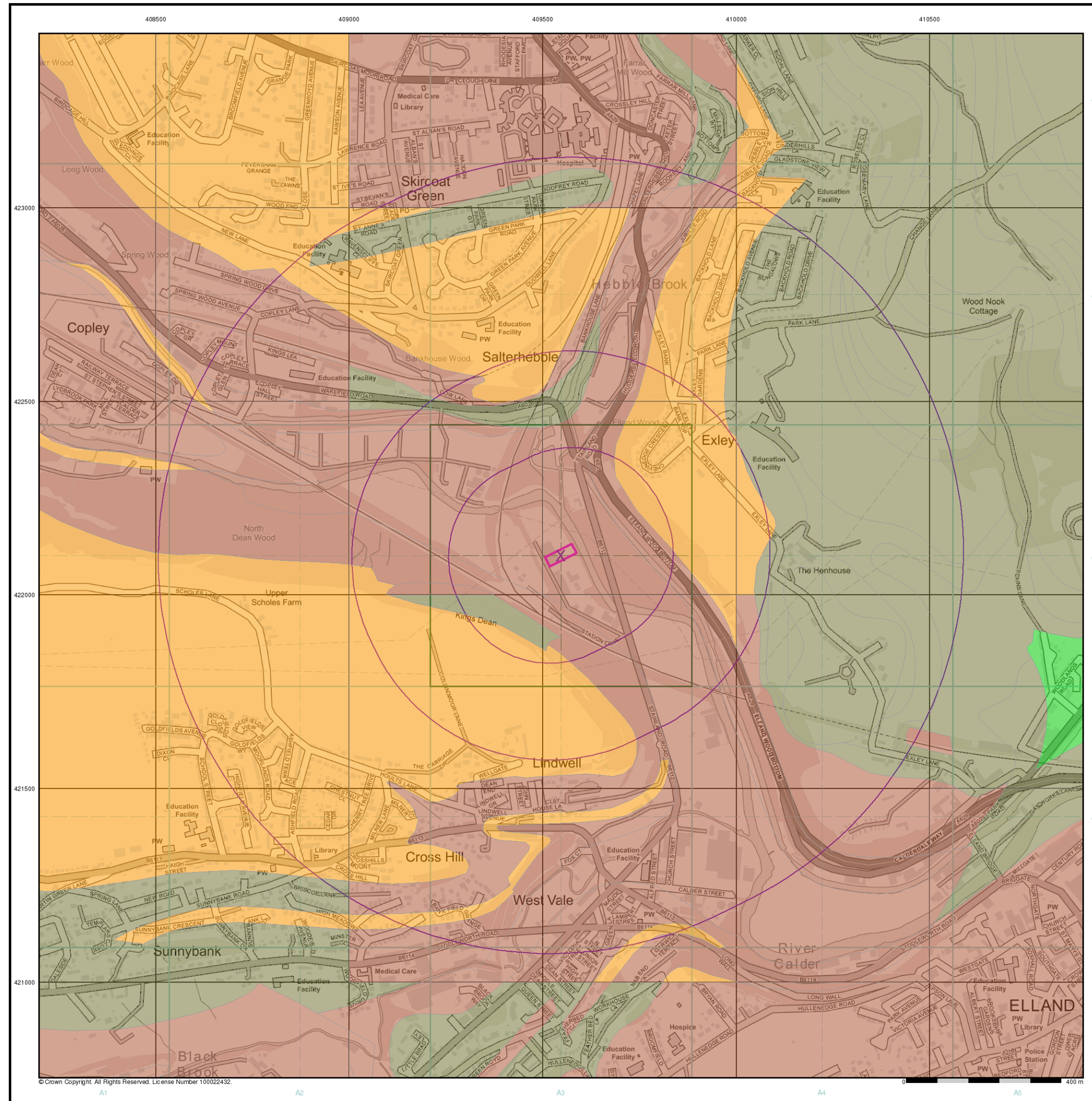
## Order Details

Order Details: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



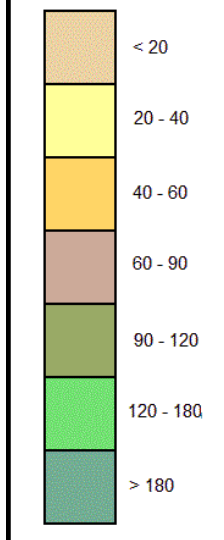


### General

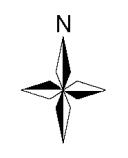
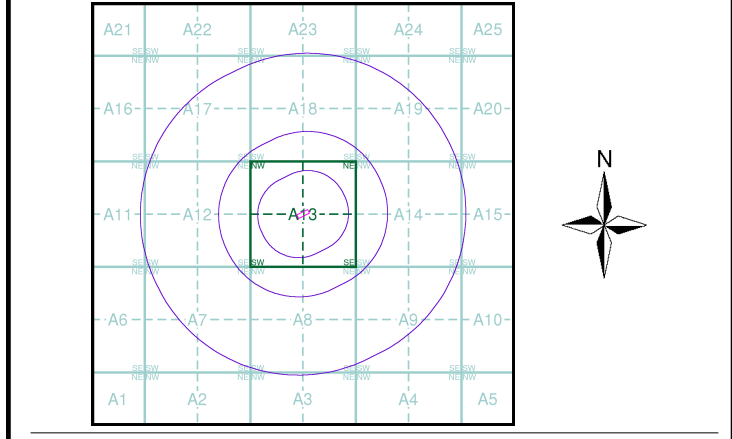
- ✕ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

### Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



### Estimated Soil Chemistry Chromium - Slice A

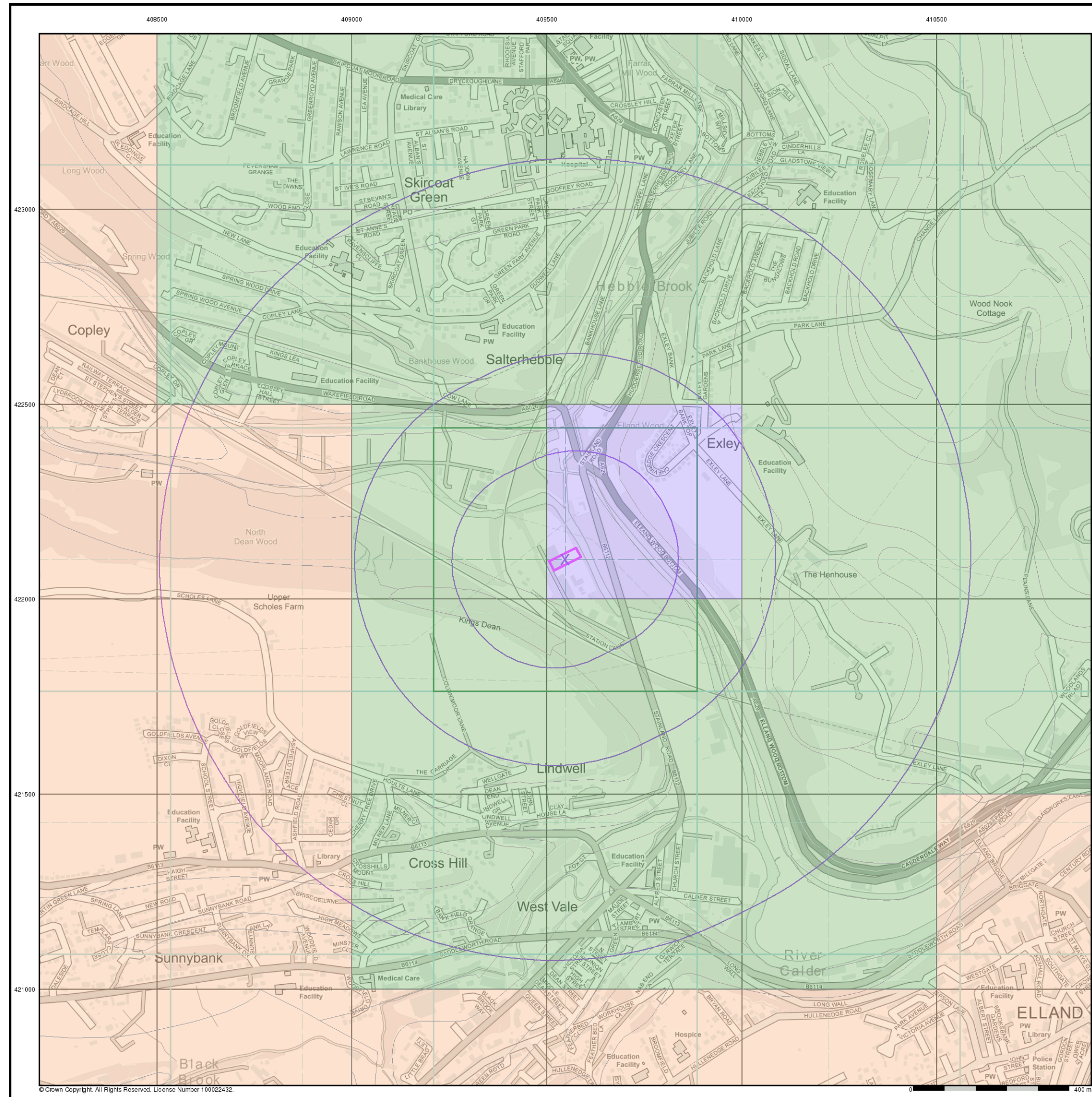


### Order Details

Order Details: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

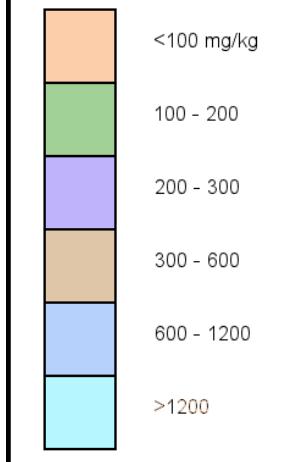


### General

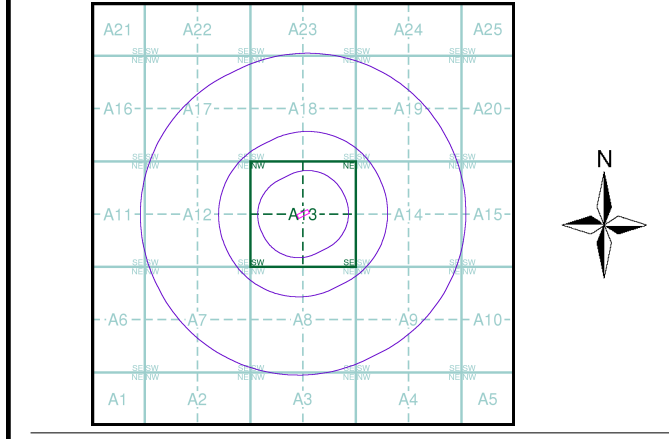
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

### Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



### Estimated Soil Chemistry Lead - Slice A



### Order Details

Order Details: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

### Site Details

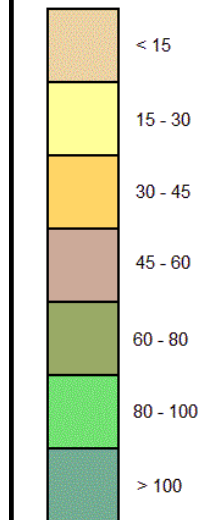
Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR

## General

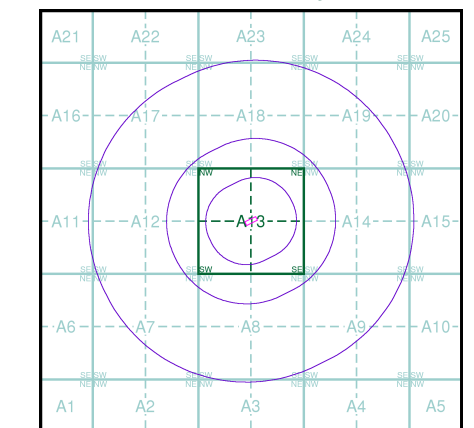
○ Specified Site    
 ○ Specified Buffer(s)    
 X Bearing Reference Point

## Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



## Estimated Soil Chemistry Nickel - Slice A

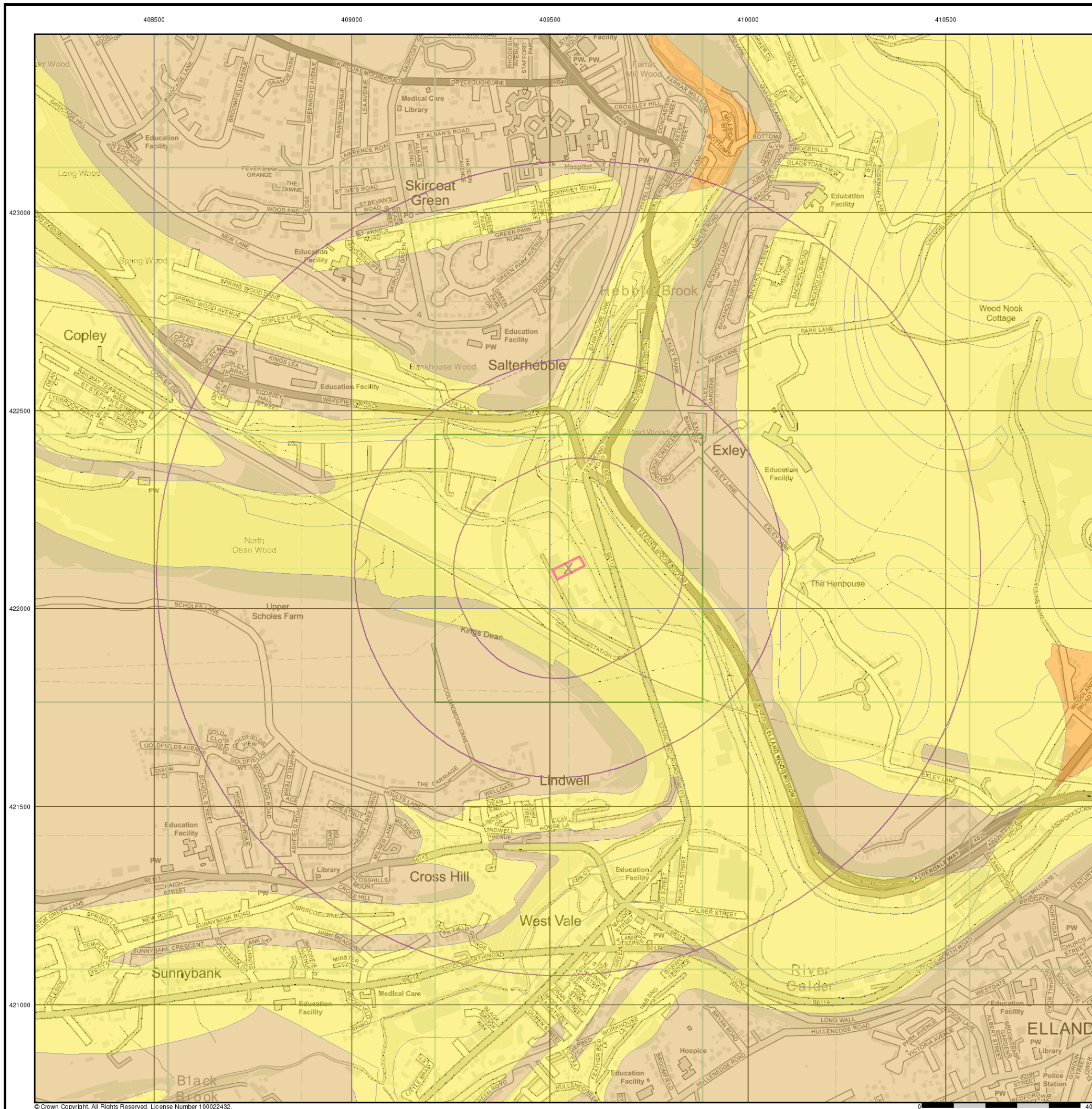


## Order Details

Order Details: 299586741\_1\_1  
 Customer Ref: ASC 2022.01  
 National Grid Reference: 409550, 422100  
 Slice: A  
 Site Area (Ha): 0.2  
 Search Buffer (m): 1000

## Site Details

Calder Remediation Ltd, North Dean Waste Recovery Facility,  
 North Dean Business Park, Stainland Road, ELLAND, Halifax,  
 HX4 8LR



# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix F: Non-Technical Summary**

CRL\_2022.01/001-4 v1 February 2023

<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Waste Installation EP Application – Appendix F: Non-Technical Summary</b> <b>Document reference: CLR_2022.01/001-5_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: PSC@environment-agency.gov.uk
<b>Author</b>	Rebecca Hodkinson EHS Consultant



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Company Registered in England No. 11506654

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# 1 Non-Technical Summary

## 1.1 Introduction

Calder Remediation Ltd (the 'applicant') has requested that Reva Environmental Ltd (the 'agent') prepares an Environmental Permit (EP) application, for a new waste installation at North Dean Business Park, Halifax, HX4 8LR.

This Non-Technical Summary provides an overview of the application.

There is a permitted facility currently in operation at this location; the EP holder is MJB Plant Hire and Excavations Ltd. A partial surrender application has been submitted in parallel with this ASC application, to surrender the area of land that will be leased to the applicant. The reference for that partial surrender is EPR/HP3296EW/A002.

## 1.2 Application Objective

The applicant wishes to apply for a new bespoke installation EP for the site. The objective of this application is to ultimately operate two activities allowing the recovery of hazardous soils. These are:

- The remediation of asbestos-containing soils and rubble arising from the redevelopment of brownfield sites across the UK. The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. It does not include the treatment of waste containing hazardous levels of fibrous asbestos. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It includes all asbestos containing materials at hazardous levels above 0.1% w/w. Levels below 0.1% w/w will be deemed non-hazardous and not suitable for treatment.
- The remediation of waste soils containing elevated levels of hydrocarbon. This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four, covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

Further details of the two activities are provided in this application. In addition to these listed (installation) activities, provision is also to be made for the receipt, bulking and onward transfer of specified asbestos waste without treatment. This will be a small scale activity (a Waste Operation), very much ancillary to the proposed activities above.

This application seeks to set out details of the use of the site, and suggests that if needed, a pre-operational condition be used to make sure that the new activity does not commence until cessation of the existing activity by the current EP holder and partial surrender of the existing EP. Flexibility is requested to enable a smooth transition between the two operators and the two EPs such that there is no unnecessary delay in commencement of operations.

The facility will likely be developed in two phases, with the asbestos-containing soils recovery activity commencing initially. The second phase will be the operation of bio-piles to remove hydrocarbons from the hazardous soils. Whilst operations will be commenced in two phases, this application is for both, in order to futureproof the EP. All documents and assessments completed for this application are based on the full scope of operations proposed.



The application seeks to allow the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing soils treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be carried out in the yard area. There will be four (covered) treatment bays each able to hold up to 700 tonnes. These are processed on a two-to-four-week cycle depending on treatment; up to 100,000 tonnes per year.
- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2550 tonnes at any one time, across 6 bays within the building. An additional two covered output bays for screened materials will provide storage of a further 480 tonnes. The latter are emptied daily as the materials are produced and tested prior to transfer off site. An asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity.
- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This would be limited to specified waste codes, received from third party waste contractors, and storage within the building in the covered skip referred to above. The waste codes are as proposed in Table SS4 of this document and relate to both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D14) or recovery (R13) activities;
- Management of process effluent from listed activities AR1 and AR2 by way of drainage channel and a sump, and transfer off site for testing and disposal or recovery depending on the quality; and
- Management of uncontaminated surface (roof and clean yard) water.

### **1.3 Pollution Prevention**

Existing measures already in place across the wider site (including maintenance and inspection regimes and relevant operational procedures) will be applied to the new activities. Best available techniques (BAT) will be implemented for the new activities and will include (but not be limited to):

- Containment of raw materials will be (in bulk) outside the EP boundary, within the adjacent building, with dilution taking place in the bowser or dispensing unit within the EP boundary. The bowser will be subject to regular inspection and repair, and placed within the warehouse building when not in use;
- Dedicated incoming waste storage areas, either within the building where all waste is on impermeable hard-standing, or within a bio-pile (covered bio-remediation bay) on impermeable hardstanding, with a fixed cover and under negative pressure;
- Spillage materials will be available and appropriate to the potential spill. Staff will be trained in the use of these materials and any spent materials will be disposed of appropriately;

- Negative pressure and local exhaust ventilation (LEV) on the two picking stations for activity AR1, filtered for particulates (emission points A1 and A2);
- Negative pressure and LEV on the bio-remediation enclosure, filtered for particulates and VOCs (emission point A3);
- A drainage channel across the doorway of the asbestos warehouse building will collect any run-off from the storage of waste and direct it to a sump (point E1). This will be pumped out for transfer off site for disposal; and
- The existing drainage system has been designed to capture clean/uncontaminated surface water. A fixed roof over the bio-piles will enable rainwater run-off to be collected and directed to the existing surface water drainage system. Management of process effluent from the bio-piles will be via surface drainage channel to sump (point E2) and pumping out of this for transfer off-site for disposal or recovery.

A full BAT assessment has been produced for the purposes of the application; this describes the measures that will be in place and confirms that they accord with the requirements of the BAT guidance for this type of facility.

## 2 Application Contents

An application has been made to the EA for a new waste installation EP to include the proposed activities. The application comprises the following documents, in accordance with the EP Regulations and sector guidance.

- EA Application Form – Parts A, B2, B3 and F1. The application form is provided at the front of the EP application document.
- Supporting Statement. This has been written to provide an explanation of the application to the EA and to provide signposts to supporting documentation that is required by the application forms.
- A copy of the pre-application screening request response from the EA outlining the habitat and nature sites that fall within a specified distance from the application site and therefore need consideration as receptors.
- Copies of relevant qualifications for the technically competent manager for the facility, confirming the applicant's ability as an operator.
- A summary of the environmental management system (EMS) that is held by the applicant and which will be implemented at the site. Whilst not certified at the point of submission, the EMS has been written in accordance with ISO 14001: 2015. The summary comprises the EMS Manual Table of Contents and a cover document that addresses the sections in the EA guidance on managements systems for permitted sites.
- A set of site plans detailing the location of the facility, the proposed layout, the drainage, and the site setting (in relation to local receptors). The layout includes the waste treatment activities, waste storage, EP boundary, and the locations of air emission points A1, A2 and A3 (from Local Exhaust Ventilation (LEV) systems).
- A site condition report (SCR) describing the area of the site and the surrounding land uses, both historical and current. This report considers the environmental setting and pollution potential of the previous and proposed activities.

- An environmental risk assessment for the proposed new activities. This follows the EA's source-pathway-receptor methodology to identify potential risks and assess the potential impacts of those risks following implementation of suitable control/mitigation measures. It incorporates assessment of the habitat sites identified in the pre-application conservation screening.
- A copy of the Best Available Techniques (BAT) Assessment. This seeks to confirm that the proposed additional activities accord with the best techniques (as defined by the EU Commission and the EA) to ensure pollution prevention and control. It includes copies of safety data sheets (SDS) for the chemicals used for the asbestos picking line and the biological treatment in the bio-remediation bays. It addresses each of the relevant BAT conclusions in turn and demonstrates that the facility can and will comply with them.

# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix G: Environmental Risk Assessment**

CRL\_2022.01/001-5 v1 February 2023

<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Installation EP Application</b> <b>Appendix G: Environmental Risk Assessment</b> <b>Document reference: CRL_2022.01/001-6_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: PSC@environment-agency.gov.uk
<b>Author</b>	Rebecca Hodkinson EHS Consultant



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Company Registered in England No. 11506654

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## 1 Introduction

Calder Remediation Ltd (the 'applicant') has requested that Reva Environmental Ltd (the 'agent') prepares an Environmental Permit (EP) application, for a new installation at North Dean Business Park, Halifax, HX4 8LR.

At the time of writing this ERA, there is a permitted facility currently in operation at this location; the EP holder is MJB Plant Hire and Excavations Ltd. A partial surrender application has been submitted in parallel with this ASC application, to surrender the area of land that will be leased to the applicant. The reference for that partial surrender is EPR/HP3296EW/A002.

This ERA has been written in support of the application for a new bespoke installation EP at the site.

The new application seeks to allow the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing soils treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year. Activity Ref. AR1.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be out in the yard area. There will be four (covered) treatment bays each able to hold up to 700 tonnes. These are processed on a two-to-four-week cycle depending on treatment; up to 100,000 tonnes per year. Activity Ref. AR2.
- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2000 tonnes at any one time, across 6 bays within the building. An additional two covered output bays for screened materials will provide storage of a further 600 tonnes. The latter are emptied daily as the materials are produced and tested prior to transfer off site. A covered asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity. Activity Ref. AR3.
- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This would be limited to specified waste codes, received from third party waste contractors, and storage within the building in the covered skip referred to above. The waste codes are as proposed in Table SS4 of this document and relate to both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products. Activity Ref. AR4.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D15) or recovery (R13) activities;
- Management of process effluent from listed activities AR1 and AR2 using drainage channels and collection sumps and transfer off site for testing and disposal or recovery depending on the quality; and
- Management of uncontaminated surface (roof and clean yard) water.

Question 6 of EA application form Part B2 requires the provision of an environmental risk assessment (ERA). A qualitative risk assessment has been generated for the facility and the risk assessment methodology follows a source-pathway-receptor model. It also includes consideration of the habitat

sites that have been identified in the EA's pre-application screening advice (a copy of which is provided in Appendix A of the new application).

The qualitative risk assessment is presented in Table ERA1.

## 1.1 Site Layout and Setting

The site is in a commercial/industrial area, at National Grid Reference SE 09529 22095. It is approximately 3 km to the south of Halifax town centre. It sits in a commercial area and occupies land that was a water treatment works. It is bounded to the south by a WasteCare (battery treatment) facility, to the north and east by the River Calder, and to the west by a railway line and an oil storage depot.

The site comprises an area of land with a warehouse in the western portion and an open yard area immediately adjacent in the eastern portion. Access to the site is shared with the landowner but the EP site boundary is limited to the warehouse and the yard area. The warehouse is a steel framed portal building with a concrete base and walls to approximately 2 m and a clad metal roof and upper walls. It is separate from the adjacent building which lies outside of the EP boundary and has lockable doors for security. Vehicular access is from Station Road which runs along the western boundary; the access door is on the eastern side of the building which opens onto the yard.

Once vehicles have accessed the site via Station Lane, they will bring waste material and unload either into a designated bay in the warehouse, or into a (fixed covered) bio-remediation bay in the yard area. Exit from the EP area is via the same route.

Roof drainage and uncontaminated yard area surface water run-off is captured in a surface water drainage system which discharges to the River Calder.

The surrounding area is shown on **Drawing CRL-ND22-EP03 Site Setting** and summarised in Table ERA1.

**Table ERA1: Site Setting**

Direction	Local Setting
Northern Boundary	<ul style="list-style-type: none"> <li>• MJB Excavations and Plant Hire lies immediately to the north and fills the northern extend of North Dean Business Park</li> <li>• The River Calder runs parallel with the site to the north at approximately 150 m</li> <li>• A sewage works lies to the north, immediately beyond the River Calder, at approximately 200 m at its closest point</li> <li>• The Calder and Hebble Navigation (canal – a Local Wildlife Site)) runs parallel with the River Calder to the north, the other side of the sewage works. Beyond this is Wakefield Road (A6026)</li> <li>• The town of Exley is to the northeast, beyond the river, the canal, and the A629 Halifax Road. The closest part of the residential area is at 250 m</li> <li>• Park Lane High School is in Exley and is approximately 500 m to the northeast</li> <li>• A large residential area (Skircoat) lies beyond Wakefield Road, and includes two schools, the closest of which is 500 m to the north of the site</li> <li>• The Calderdale Royal Hospital is also located in this area, at 900 m to the north</li> <li>• To the northwest, beyond the sewage works there is a recreation ground which lies in the intersection between the River Calder and the</li> </ul>



	<p>railway line. To the north of the same run of railway line, beyond the sewage works and the canal there are allotment gardens, at 750 m from the site</p>
Eastern Boundary	<ul style="list-style-type: none"> <li>• The River Calder runs parallel with the site, immediately to the east</li> <li>• Wakefield Road crosses Stainland road to the northeast, then Stainland road runs north to south at approximately 100 m to the east</li> <li>• The Calder and Hebble Navigation (canal) runs parallel with the River Calder to the east, the other side of Stainland Road, at approximately 200 m</li> <li>• There are several small areas of residential properties (including a farmhouse) beyond the A629 Halifax Road, the closest of which is The Henhouse at 500.</li> <li>• There is a cemetery (Elland Cemetery) beyond Halifax Road, to the southeast at 700 m</li> <li>• The majority of the land to the east of the site is open fields and some areas of woodland, with a network of public footpaths</li> <li>• The closest ecological site is Elland Park Wood (an Ancient Woodland and Local Wildlife Site) which lies at 175 m at its closest point</li> </ul>
Southern Boundary	<ul style="list-style-type: none"> <li>• Other commercial and industrial units lie immediately to the south, within the same business park. This extends approximately 250 m to the south where it is curtailed by the railway line that runs west to east</li> <li>• The southern border of the business park is an area of grassland with trees beyond which is Station Lane, the access road to the business park</li> <li>• There is a large area of grassland and woodland (the eastern extent of North Dean Wood) which borders the other side of the railway line, as far as Lindwell which is a mixed residential and commercial area lying at approximately 500 m at its closest point</li> <li>• Beyond Lindwell is another residential area, Cross Hill which borders the town of Elland. Elland lies at 1 km to the south of the site, beyond Saddleworth Road (B6114)</li> <li>• The River Calder bends to the east at just outside of 1 km to the south of the site</li> </ul>
Western Boundary	<ul style="list-style-type: none"> <li>• Other commercial and industrial units lie to the west, the other side of station lane</li> <li>• The western edge of the park is bordered by the railway line (and viaduct portion at approximately 180 m from the site)</li> <li>• Beyond the railway line to the west, extending for more than 1 km is North Dean Wood. This is a public open area with a network of footpaths and areas of woodland and is designated as Ancient Woodland.</li> </ul>

The site is underlain by the Millstone Grit Group, as shown on the BGS 1:625,000 Solid Geology mapping. The site is situated on a combined secondary superficial aquifer, identified as being high vulnerability. It is on a productive bedrock aquifer (secondary aquifer – A) and a productive superficial aquifer (secondary aquifer – A) with well-connected fractures (a ‘high’ pollutant speed). The thickness of the superficial aquifer is less than 3 m and the pollutant speed is high.

It is not within a nitrate vulnerable zone (NVZ), nor is it within a Groundwater Source Protection Zone (SPZ), in fact there are none designated within 1 km of the site.

According to the groundwater flooding map (in Annex SCR2), there is the potential for groundwater flooding to occur at the surface. Whilst the datasheet suggests that the site is surrounded by areas designated as being at risk of extreme flooding from Rivers or sea without defences, the surface water flooding map identifies the site as being not at risk of flooding; the closest designation is the River Calder to the east which is designed as being high risk.

The site is within the area regulated by Calderdale Metropolitan Borough Council. This local authority has a number of Air Quality Management Areas (AQMAs), all of which have been declared for NOx.

## 1.2 Sensitive Receptors

### 1.2.1 General

Key sensitive receptors are considered to be those within 1 km of the site; the potential impact to these from certain sources will depend on the weather conditions. Figure ERA1 presents the wind rose for the area, for 2021, sourced from Bingley No.2 weather station.

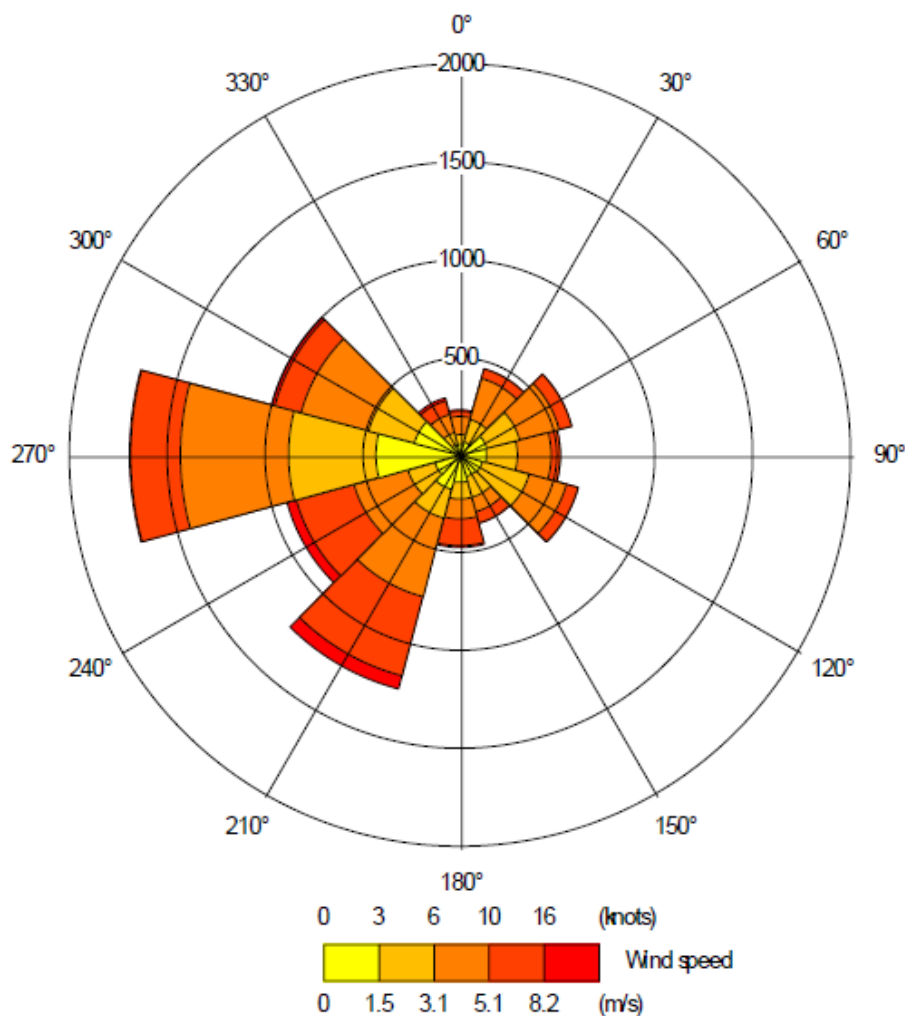


Figure ERA1: Wind Rose

This station is located 13.7 km to the north of the EP site and best represents the weather at the EP site. The other site considered was Emley Moor No.2, 16.2 km to the south-east of the site; both stations are similar in altitude, however, the data capture was highest for the Bingley site.

The perceived impact at receptors located down-wind are likely to be more than at those located cross or up-wind for certain sources like dust, litter, odour, noise. Some receptors are more sensitive than others, for example a residential area is likely to be more sensitive than an industrial estate.

**Table ERA2: Sensitive Receptors within 1 km**

Receptor	Distance at closest point	Direction	Receptor Type	Relative Risk of Impact
Residential Properties on the edge of Exley	250 m	Northeast	Residential properties – potential all-day presence	Moderate
Residential properties beyond A629 – The Henhouse	500 m	East	Residential properties – potential all-day presence	Moderate
Allotment gardens	750 m	North	Open space, transient use all day	Low
Park Lane Highschool, Exley	500 m	Northeast	Education properties –All-day presence during term time	Moderate
River Calder	150 m	North	River	Low
North Dean Wood (a LWS and Ancient Woodland	175 m	South	Public open space, transient use all day	Moderate
Workers in other premises in the Industrial Estate	Immediately adjacent	North and South	Commercial/industrial workplace, all day presence	Moderate
Calder and Hubble Navigation	200 m	East	Active canal public way with adjacent footpath	Moderate

The operator retains a list of the key sensitive receptors and contact details for each (where applicable) so that they can be alerted to an incident.

### 1.2.2 Nature Conservation Sites

The pre-application screening advice from the EA identifies the following sites within the specified distance criteria from the facility.

- Special Area of Conservation (SAC) – South Pennine Moors. This is an area spanning approximately 65,000 hectares and 10 unitary authorities. The primary reason for the designation is as a habitat for upland dry heath which occupies the lower slopes of the moors on mineral soils or where peat is thin. It occurs in transitions to acid grassland, wet heath and blanket bogs. The moors support a rich invertebrate fauna, especially moths, and important bird assemblages (source: jncc.gov.uk).

It is considered that the moorland would be sensitive to dust, litter, odour, pests, noise and fire, given its designation for dry heath and fauna.

- Special Protection Area (SPA) – South Pennine Moors Phase II. The site includes the major moorland blocks of the South Pennines from Ilkley in the North to Leek and Matlock in the South. It covers extensive tracts of semi-natural moorland habitats including upland heath and blanket mire. The diver mosaic of habitats contributes greatly to the ornithological interest, which comprises birds of prey and waders, breeding moorland and moorland fringe birds. Of national importance are the breeding populations of Merlin and Golden Plover for which the moors serve an important role in maintaining these (source: Natural England).

It is considered that this part of the moorland would also be sensitive to dust, litter, odour, pests, noise and fire, given its designation for dry heath and fauna.

- Local Nature Reserve (LNR) – Scarr and Long Woods. These are two areas of publicly owned woodland, measuring 12 hectares and located within the urban fringe of Halifax, between Copley and Skircoat. They form part of the typical escarpment oak woodland and support a rich diversity reminiscent of ancient woodland. Public footpaths run through each woodland, and Scarr wood offers a number of bouldering and climbing routes (source: Calderdale Council).

Whilst these woods are not understood to support designated habitats for wildlife, they do support woodland and are used transiently by the public. They are therefore considered to be sensitive to dust, litter, odour and fire.

- Local Wildlife Sites (LWS) – Elland Park Wood, Calder and Hubble Navigation, North Dean Wood, Scarr and Long Woods, and Rochdale Canal. LWSs are areas of land that are deemed especially important for their wildlife. Elland Park Wood is a large area of semi-natural acid and neutral ancient woodland; Scarr and Long Woods are described above; the Calder and Hubble Navigation is a broad inland waterway (canal); North Dean Wood is an area of oak and birch wood on the hillside outside Greetland, housing an extensive network of footpath and a variety of plant and birdlife; Rochdale Canal is an inland waterway and hosts a variety of plants and wildlife habitats. Whilst outside of the SAC and SSSI screening distance for the CRL application, it is noted that parts of the Rochdale Canal are designated as both (in 2000).

It is considered that these sites would be sensitive to dust, litter, odour, pests, noise and fire, given their designation for their importance for wildlife.

- Ancient Woodland – Elland Park Wood, Long Wood, and North Dean Wood. Ancient Woodland takes hundreds of years to establish and is defined as an irreplaceable habitat. It can be a valuable natural asset, supporting wildlife (including rare and threatened species), but also in terms of soils and carbon capture and storage. Wood pasture is land that has been managed through grazing. It is often made up of a mixture of habitats that support wildlife and is home to veteran and ancient trees (source: Woodland Trust)

It is considered that the woodland would be sensitive to dust, litter, odour, pests, noise and fire.

These, and other sensitive receptors as listed in Table ERA2, are identified on **Drawing CRL-ND22-EP03 Site Setting**.

Table ERA3: Risk Assessment

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
Releases of particulate matter (dusts)	Local human population/presence- the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Nuisance - dust on cars, clothing etc.	Transportation through air then inhalation or deposition	Med	Med	Med	Permitted wastes are dusty; although they arrive in articulated vehicles, waste is stored at the site and receptors are sensitive to dust deposition and inhalation; proximity of closest residential receptors and transiently used paths/routes	Wastes are delivered in enclosed vehicles. No raw materials used are dusty. Wastes are stored in the building (closed on all sides) under tarpaulin, or in the yard area (also under cover). Both processes are inherently damp, and this is maintained with misting systems. Air extraction is in place over the asbestos treatment process (picking cabins) and the bio-remediation bays and is filtered for particulates. Filters subject to regular maintenance and service and replaced regularly. Doors to the building remain closed outside of loading/offloading times. A bowser is available for dampening of waste and of material (product) stockpiles and yard/road if required. Road sweepers are also available. Daily visual monitoring of dust levels is carried out by the site team.	L
		Harm to human health - respiratory irritation and illness; harm to ecological features through toxic contamination or smothering		M	M	M			L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
Releases of asbestos-containing materials/dusts from waste storage and processing	Workers/contractors at the site; local human population/presence- the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Harm to human health - respiratory irritation and illness; harm to ecological receptors	Transportation through air then inhalation	M	H	M	Waste is asbestos containing however not fibrous asbestos (this is not permitted); arrive in articulated vehicles, waste is stored at the site and receptors are sensitive to dust deposition and inhalation; proximity of closest residential receptors and transiently used paths/routes	Wastes are delivered in enclosed vehicles. Treatment is within the building and the picking cabin benefits from a pre and post-dust suppression spray. The picking cabin is under LEV which is filtered for dusts prior to release. A bowser is available for dampening of waste and of material (product) stockpiles and yard/road if required. Road sweepers are also available. Daily visual monitoring of dust levels is carried out by the site team.	L
Fire from storage and/or processing of waste	Local human population/presence- the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists / vandals.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches	L	H	M	The impact of a fire on the immediate local area can be significant, and the pollution requiring short to medium term remediation. The wastes are not combustible	The waste is not hugely combustible. Waste turnaround is high (<2 weeks), storage of untreated waste is all within the building. Regular inspections and maintenance of key process plant and equipment (following planned preventative maintenance programme). Thermal cut outs on applicable	L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Pollution of water or land from run-off of contaminated fire water. Harm to ecological features through toxic contamination or smothering						equipment (e.g. electrical drives and inverters). All reasonable precautions will be taken to prevent the outbreak of fire. In the first instance site staff will extinguish the fire where possible, if required the fire brigade will be contacted. Pollution control measures including impermeable hardstanding and sealed drainage system which further provide protection in terms of storage capacity for fire water. Water would be tested prior to discharge following fire to identify if it can be discharged.	
Litter	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological	Nuisance, loss of amenity and harm to wildlife (disturbance)	Air transport then deposition	L	M	M	It is acknowledged that local residents and habitat receptors are often sensitive to litter emissions however permitted wastes are not litter-generating. Waste	Doors to the building remain closed outside of loading/offloading times; waste bays within the building benefit from retractable tarpaulin covers which remain over all but the bay being processed; bio piles are under a fixed roof,	L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south						that could generate litter will be limited to office and welfare facilities so small scale and managed in standard bins.	also with a tarpaulin frontage and under negative pressure	
Waste and mud on local roads	Local human population/presence- the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate. Access to the site is off Station Lane to the south and which runs along the western boundary; this joins Stainland Road (B6112) at approximately 250 m from the site entrance	Nuisance, loss of amenity, road traffic accidents	Vehicles entering and leaving the site	L	M	M	Road safety, local residents often sensitive to mud on roads.	During wet weather, daily inspection will identify if there are any areas of build-up of mud on internal and local roads and any issues will be cleared as soon as practicable; the facility and site roads are constructed of concrete; jet wash facilities are available on site to remove mud from tyres within the site boundary; road sweepers are also available; any complaints will be recorded and an investigation will be undertaken and findings acted upon.	L



Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
Odour	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Nuisance, loss of amenity	Air transport then inhalation	M	M	M	Residents and public area users are often sensitive to odour, permitted waste types have low potential for odour	Doors to the building remain closed outside of loading/offloading times; waste bays within the building benefit from retractable tarpaulin covers which remain over all but the bay being processed; bio piles are under a fixed roof, also with a tarpaulin frontage and under negative pressure; air extraction at the bio-piles operates at all times and the extract filtered for VOCs; daily qualitative monitoring of odour is carried out by the site team.	L
Noise and vibration	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and	Nuisance, loss of amenity; harm to ecological features through disturbance	Noise through the air and vibration through the ground	M	M	M	Residents often sensitive to noise and vibration, closest residents are 250 m from the site; the site is within an existing operational industrial area.	Screening operations are within a fully enclosed building. Any complaints will be recorded, and an investigation will be undertaken and finding acted upon. Audible high-level alarms on process plant are within the confines of the building.	L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	Ancient Woodland) at approximately 175 m to the south								
Scavenging animals (e.g., rats) and scavenging birds	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity. Harm to ecological features through predation	Air and over land	L	M	M	Location of site relative to canal and river; permitted wastes and raw materials are unlikely to attract scavenging animals and birds; waste received is all non-biodegradable	Doors to the building remain closed outside of loading/offloading times; waste bays within the building benefit from retractable tarpaulin covers which remain over all but the bay being processed; bio piles are under a fixed roof, also with a tarpaulin frontage and under negative pressure. Pest control measures are in place.	L
Pests (e.g., flies)	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological	Harm to human health, nuisance and loss of amenity; Harm to ecological features	Air and over land	L	M	M	Location of site relative to canal and river; permitted wastes and raw materials are unlikely to attract pests; waste	Doors to the building remain closed outside of loading/offloading times; waste bays within the building benefit from retractable tarpaulin covers which remain over all but the bay being processed; bio piles are under a fixed roof, also with a tarpaulin frontage and	L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	through predation					received is all non-biodegradable	under negative pressure. Pest control measures are in place.	
Spillage of liquids	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	Harm to human health and animal health	Via drains, surface water run-off	L	M	M	Permitted wastes do not include liquids	Incoming waste stored within the building on impermeable hardstanding with sealed drainage to sump; bio-piles also have impermeable base with drainage channel and sump (sealed drainage system); raw materials stored in locked cage area within the building, in small quantities and in proprietary containers; diluted mix held in bowser for bio-remediation process will be stored within the building when not in use; visual inspection of sump and drainage integrity, accessed only by trained personnel.	L
Flooding of site	Local human population/presence - the closest residential	Waste and/or raw materials washed off site	Flood waters flowing over land and	M	M	M	Permitted waste types include hazardous; site is	Incoming waste is stored above ground either within the covered bio-piles or within the	L

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at approximately 175 m to the south	may contaminate downstream receptors	soaking into the ground				not within a surface water flood plain but is at risk of groundwater flooding	fully enclosed building; both areas, and the yard between benefit from impermeable hardstanding; protection is therefore afforded from groundwater flooding; raw materials are stored within the building in proprietary containers	
Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land	Local human population/presence - the closest residential receptors are at 250 m to the northeast of the site (Exley); the closest commercial receptors are the other units on the estate; ecological sites – the closest is North Dean Wood (a LWS and Ancient Woodland) at	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vand als. Pollution of water or land. Harm to ecological features	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	<span style="color: orange;">M</span>	<span style="color: red;">H</span>	<span style="color: red;">H</span>	The impact of a fire on the immediate local area can be significant, and the pollution requiring short to medium term remediation; The wastes are not combustible	Site is secure by palisade fencing and lockable gates; there is a fire alarm and CCTV. During operational hours access is only granted to authorised vehicles and visitors; pollution control measures including impermeable hardstanding and surface water / effluent management infrastructure provides protection in terms of providing storage capacity for fire water. Water will be tested prior to discharge following fire	<span style="color: green;">L</span>

Hazard	Receptor	Harm	Pathway	Likelihood of Exposure; Consequence; Magnitude of Risk			Justification of Magnitude	Control Measures	Residual Risk
	approximately 175 m to the south	through toxic contamination or smothering						to identify if it can be discharged.	

## 2 Conclusion

Further details on the control measures are provided in the BAT Assessment completed for the variation application (Appendix H of the variation application, ref. CRL\_2022.01/001-7). These include details on:

- Waste pre-acceptance
- Waste acceptance
- Waste storage, handling and dispatch
- Use of raw materials (chemicals, water)
- Treatment validation
- Emissions monitoring

On the basis of this and the assessment above, which follows the H1 approach for risk assessment, it is considered that the control measures that are either already in place at the site for the current permitted activities or are proposed to be implemented for the new activities are appropriate.

The ERA is a live document and will be subject to regular review throughout the life of the permitted operations. It will also be amended, if required, following any significant change to operations, an incident resulting in an environmental impact, and/or any substantiated complaints.

# **EP Waste Installation Application EPR/GP3245QY**

## **Appendix H: BAT Assessment**

CRL\_2022.01/001-6 v1 February 2023

<b>Project details</b>	Environmental Permit Application EPR/GP3245QY/A001 North Dean Waste Recovery Facility
<b>Applicant details</b>	Calder Remediation Ltd North Dean Business Park Stainland Halifax HX4 8LR
<b>Report details</b>	<b>Installation EP Application</b> <b>Appendix H: BAT Assessment</b> <b>Document reference: CRL_2022.01/001-7_v1</b>
<b>Report date</b>	2 February 2023
<b>Submitted to</b>	Permitting and Support Centre Environmental Permitting Team Environment Agency Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF Email: <a href="mailto:PSC@environment-agency.gov.uk">PSC@environment-agency.gov.uk</a>
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## 1 Introduction

### 1.1 General

Calder Remediation Ltd (the ‘applicant’) has requested that Reva Environmental Ltd (the ‘agent’) prepares an Environmental Permit (EP) application, for a new installation at North Dean Business Park, Halifax, HX4 8LR.

The site is in a commercial/industrial area, at National Grid Reference SE 09529 22095. It is approximately 3 km to the south of Halifax town centre. It sits in a commercial area and occupies land that was a water treatment works. It is bounded to the south by a WasteCare (battery treatment) facility, to the north and east by the River Calder, and to the west by a railway line and an oil storage depot. The site setting is described on **Drawing CRL-ND22-EP03 Site Setting** provided in **Appendix D** of this application. Access to the facility is off Station Lane.

The objective of the 2022 new EP application is to obtain a bespoke Waste Installation Environmental Permit (EP) which allows the applicant to carry out the following activities:

- Section 5.3 A(1)(a)(ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment of hazardous waste. This is the asbestos-containing soils and rubble treatment process that will be carried out in the warehouse building. The proposed throughput is up to 400 tonnes per day and 114,000 tonnes per year. Activity Ref. AR1.
- Section 5.3 A(1)(a)(i) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment of waste. This is the bioremediation (bio-piles) activity which will be out in the yard area. There will be four (covered) treatment bays each able to hold up to 700 tonnes. These are processed on a two-to-four-week cycle depending on treatment; up to 100,000 tonnes per year. Activity Ref. AR2.
- Section 5.6 A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the recovery activity (R13). The maximum storage capacity is proposed to be 2550 tonnes at any one time, across 5 bays within the building (Bay No.6 will be a quarantine bay). An additional two covered output bays for screened materials will provide storage of a further 480 tonnes. The latter are emptied daily as the materials are produced and tested prior to transfer off site. A covered asbestos skip is also kept within the building and provides 30 m<sup>3</sup> capacity. Activity Ref. AR3.
- Waste Operation – waste transfer station. Storage of asbestos waste pending transfer off site for disposal or recovery. This would be limited to specified waste codes, received from third party waste contractors, and storage within the building in the covered skip referred to above. The waste codes are as proposed in Table SS4 of this document and relate to both fibrous bagged asbestos and asbestos-containing material including hardcore and concrete, asbestos cement roof sheeting and other bonded products. Activity Ref. AR4.

Five directly associated activities (DAAs) are also proposed as follows:

- Bulking/handling and storage of the segregated asbestos waste;
- On site storage, and use, of raw materials;
- Storage of treated waste pending transfer off-site for disposal (D15) or recovery (R13) activities;
- Management of process effluent from listed activities AR1 and AR2 using drainage channels and collection sumps and transfer off site for testing and disposal or recovery depending on the quality; and

- Management of uncontaminated surface (roof and clean yard) water.

## 1.2 Process Description

The key process areas are described in the following sections and are presented on a process flow diagram and a set of site plans in **Appendix D** of the application. The scope of the EP is the remediation of contaminated soils arising from the redevelopment of brownfield sites across the UK.

### 1.2.1 Remediation of Asbestos-Containing Materials (Activity AR1)

The treatment process will be carried out in the building and comprises the removal of asbestos-containing materials from contaminated waste. This is achieved through a combination of screening and manual picking under a controlled atmosphere/environment. It does not include the treatment of waste containing hazardous levels of fibrous asbestos. The process is designed to reduce asbestos levels to below 0.1% and no longer visible. This enables the material which would otherwise require hazardous landfilling to be transferred off site for non-hazardous disposal or for use as a restoration material. It includes all asbestos containing materials at hazardous levels above 0.1% w/w. Levels below 0.1% w/w will be deemed non-hazardous and not suitable for treatment.

The waste materials will be brought to site and placed in one of the five storage bays within the warehouse (specified based on the waste source). A retractable tarpaulin system will allow all but the bay(s) being processed to be covered. A drainage channel across the doorway of the building and sump system will collect any run-off from the storage of the incoming wastes, for transfer off site.

A wheeled loading shovel loads the waste into a pre-screen which removed oversize materials at >75 mm fraction. These oversize materials are examined and either placed in the asbestos skip or cleared for re-use and placed in an external bay pending transfer off site. The remaining screened materials are transferred to a feed conveyor to the primary picking station within the building. A dust suppression system is fitted and there will be a spray point both before and after the picking activity; which one used will be determined during an initial visual assessment of the waste (particularly odorous or dusty waste will be subjected to the pre-spray). The spray will be a water-based dust and odour suppressant (diluted 'Wetstrip' surfactant) that will also serve to treat/remediate any hydrocarbon contamination or presence of invasive plant species.

In the picking station the materials are handpicked for asbestos-containing materials (ACMs) within a controlled environment. ACMs are dropped into a dedicated covered skip placed below the picking station cabin. An LEV system is included for reasons of occupational health and safety and is fitted with a HEPA filter for particulates. The remaining non-ACM materials are discharged from the picking station to the trommel screen where the larger fraction (brick, concrete, stone) is removed, and the soils fraction drops out and can be tested. The larger fraction moves via covered conveyor out of the building and into a secondary picking station where the waste is again handpicked for any obvious recyclable materials (e.g., plastic). A metallic separator over the output conveyor segregates out ferrous metals for recovery.

The screened treated soils are stockpiled in the yard area according to the input job, pending transfer off site for recovery. Large fractions are also stockpiled pending transfer for recovery.

### 1.2.2 Remediation of Hydrocarbon-Containing Soils (Activity AR2)

This bio-remediation activity will be carried out in the yard area to the east of the building and comprises the application of a micro-organism and nutrient formula to the waste (which will be in four covered bio-piles/treatment bays) followed by thorough mixing, to breakdown the hydrocarbon content. The process is designed to reduce hydrocarbon contamination levels to that which allows the material to be transferred off site for use as a restoration material.

The waste materials will be brought to site and placed in one of the four bio-piles (specified based on the waste source). The bio-remediation bays are under a fixed roof and a retractable tarpaulin system

is fitted to enable partial enclosure of the front of the piles. The roof ensures that rainwater can be kept away from the waste and can enter the existing surface water drainage system.

The incoming material is subject to screening in an Allu bucket attached to an excavator. At the point of deposit of the material from the screening bucket, nutrients and bacterial media are added manually from a bowser and high-pressure sprayer (diluted hydrogen peroxide and EU80/Oil Spill Eater II).

All loose materials in an active bio-pile will be graded up and replaced into the pile. The pile will comprise the material being pushed up against the back wall of the bays with a battered/sloped front. The roof height is the constraining factor in the height of the pile.

A drainage channel along the front of the bays and sump system will collect any effluent generated from the bio-remediation process, for transfer off site.

### **1.2.3 Asbestos Waste Transfer (Activity AR3)**

Provision is in place to receive specified asbestos waste at the site, without any treatment. It will be received in accordance with CRL waste acceptance procedures and will be placed in the asbestos skip in the warehouse building, with the ACMs segregated by Activity AR1. Following this bulking activity, the waste will be transferred off site to an appropriately licensed facility.

In summary, the key activities are as follows:

- Acceptance and storage of waste pending treatment;
- Physical treatment of asbestos-containing waste soils in the warehouse building, comprising a combination of screening and manual picking;
- Biological treatment of hydrocarbon-containing soils in a series of bio-piles, in a covered area of the yard; and
- Storage of separated fractions pending transfer off site for recovery or disposal.

## **1.3 Assessment of BAT**

Question 3 of EA Application Form Part B3 requires the provision of a best available techniques (BAT) assessment, to support the proposed operating techniques set out in this application. The activities have been assessed against indicative best available techniques (BAT), in accordance with the relevant sections of the following documents:

- Sector Guidance Note 5.06 “Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste”; and
- BAT Conclusions document (EU 2018/1147) for waste treatment, dated 10 August 2018

The BAT assessment has been written on the basis of information provided to the agent by the applicant. Specific reference to BATC techniques is provided against each applicable section.

## **2 TECHNIQUES FOR POLLUTION CONTROL**

### **2.1 In-Process Controls**

BAT recognises that the implementation of pre-acceptance and acceptance procedures for waste, waste storage and waste treatment will prevent the acceptance of unsuitable wastes and therefore limit the likelihood of adverse reactions or uncontrolled emissions. Systems and procedures are required to be in place to ensure that incoming wastes are subject to appropriate review and deemed suitable for the proposed treatment route.

It also requires that an operator should have in place systems and procedures to ensure that incoming wastes can be transferred to appropriate storage and in a safe manner, for example segregation of storage may be required where there are potential issues of incompatibility.

### **2.1.1 Pre-Acceptance Procedures**

BAT and appropriate measures guidance refers to the need for a screening step whereby the operator obtains information on the incoming waste. BAT2 of the BATC document sets out the required technique (a) to ensure technical (and legal) suitability of the waste treatment operations for a particular waste prior to its arrival at the site.

Materials accepted at the site have been subject to analysis before they are deemed suitable for treatment. Where there are elevated levels of asbestos these are accepted on site for processing in the asbestos picking line. The soils analysis also covers the chemical constituents of the materials (by way of WM3 compliant testing for landfill acceptance suitability). Where this testing identifies the need to further treat the soil by bioremediation this is also carried out at the site.

CRL will operate in accordance with a waste pre-acceptance procedure which outlines the following process:

- A soils analysis and asbestos qualification/quantification is to be supplied by the waste producer (client/customer).
- This will be assessed by a CRL technically competent person to determine the suitability of the waste stream for asbestos and/or bio-remediation treatment.
- A waste declaration document (WDD) is to be provided by the waste producer (client/customer). The WDD may also be accompanied by other documentation. The information provided must describe the nature and properties of the waste – this includes the type of process producing the waste, the quantity of waste to be delivered, and the hazards associated with the waste.
- The WDD and accompanying documentation will be checked by a technically competent person to ensure that the waste complies with the EP and the site's operational process capability and that it can be stored safely.

Waste pre-acceptance records are kept at the site for verification at the waste acceptance stage and for a minimum of 3 years.

### **2.1.2 Waste Acceptance Procedures**

BAT 2 of the BATC document sets out the required technique (b) to ensure that procedures are in place to confirm the characteristics of the waste are as identified at the pre-acceptance stage. Prior to acceptance of waste once it arrives at the site, CRL will ensure that it is accompanied by a written description (consignment note) of the waste describing:

- The physical and chemical composition of the waste (including EWC code)
- Hazard characteristics and handling precautions
- The quantity of waste (weight and/or number of containers) in the load
- Information specifying the original waste producer

The acceptance assessment will be a check that the waste arriving at the site is the same as described in the pre-acceptance information.

The applicant has a tracking system in place whereby each input job is assigned a unique job number. This job number is used to collate the client or other supplied soils testing and analysis to a central server at the pre-acceptance stage. Bookings for acceptance of that waste are then made against this

job number and all acceptance documentation (vehicle movements, consignment notes, weighbridge tickets etc.) will reference the number.

Upon arrival all waste containers are individually inspected for contents to ensure compliance. Unacceptable loads will be quarantined and/or rejected, a non-conformance report raised and the customer duly informed. Quarantined waste will then be either collected by the customer, delivered back to the customer or a suitable disposal outlet found within 5 working days of receipt. A bay within the asbestos warehouse building can be used as a quarantine area if required (Bay No.6).

All waste received at the site is placed in a dedicated bay (in the asbestos warehouse building) or pile (in the bio-remediation area), so remains traceable up to the point of treatment. The asbestos bays and the bio-remediation bays are numbered, and these are assigned to the job number, facilitating waste being tracked through the site and the dating of loads so as to enable the processing of older waste first, ensuring that proposed storage periods are not exceeded. This process accords with BAT2 (c), the aim of which is to track the location and quantity of waste at the site at any given time.

Once accepted, waste is offloaded in the relevant waste storage or treatment area; it is subject to visual checks to confirm that the waste conforms to the pre-acceptance and acceptance documentation and can be accepted for storage and treatment in accordance with the EP.

### **2.1.3 Waste Storage**

BAT2 (e) requires the setting up and implementing of an output quality management system, allowing assessment of the performance of the waste treatment, and compliance with relevant standards and/or quality protocols for the residues and treated waste materials. BAT4 sets out the techniques to be implemented in order to reduce the environmental risk associated with the storage of waste. BAT5 requires appropriate handling and transfer procedures to ensure safe movement of waste around the site.

The layout of the site activities, including waste storage areas, is shown on **Drawings CRL-ND22-EP02** and **CRL-ND22-EP02b** provided in Appendix D of the EP application. Waste is segregated within the warehouse building by 'job' i.e., the site from which the waste originates. Wastes are not mixed with each other. The same system applies to the bio-piles in the covered yard area. Batch processing is undertaken to avoid mixing of wastes from different sources. BAT2 (f) is therefore not applicable, as wastes will not be mixed or blended with each other. The asbestos bays (of which there are 5) and the bio-remediation bays (of which there are 4) are numbered and these are assigned to the job number. Appropriate labelling of the bays/piles is used to ensure that locations are clear to all operatives.

Handling of waste is minimised; for the asbestos treatment process waste is placed in one of the internal bays and remains here until it is emptied for the batch treatment processing. For the bio-remediation activity, waste is placed straight into one of the bio-piles in which treatment takes place. All waste operatives involved in the handling and transfer of waste are appropriately trained and qualified. They are also given training in the site EMS and refresher training at a regular interval and following any significant changes to the procedures.

All off-loading areas and storage areas at the site have an impermeable surface with a sealed drainage system which prevents any spillage escaping either into the existing (clean) surface water drainage system or off site. Instead, spillages can be captured within the area sump and pumped out for off-site disposal/recovery.

Quarantined waste can be stored in Bay 6 of the warehouse building if required. This ensures appropriate stand-off is retained between the quarantined waste and the storage of other wastes (pre-and post-treatment), to prevent spread of fire, mixing of incompatible wastes, and to allow access to fight any fire.

Section 2.3.1 of the Supporting Statement for the application presents the proposed EWC codes for wastes to be accepted. For clarity, the lists are reproduced here in Tables BAT1 – BAT3 to detail the storage/process location(s), the maximum volume to be stored at any one time, and the maximum storage duration.

**Table BAT1: Storage Arrangements for Permitted Wastes for AR1 and AR3**

EWC Code	Description	Storage Location	Max. Storage (t)	Storage Duration
<b>17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>				
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil			
17 05 03*	Soil and stones containing dangerous substances	Bays 1 - 5	2550	1 week
17 06	Insulation materials and asbestos-containing construction materials			
17 06 05*	Construction materials containing asbestos	Bays 1 - 5	2550	1 week
<b>19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTEWATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>				
19 13	Wastes from soil and groundwater remediation			
19 13 01*	Solid wastes from soil remediation containing dangerous substances	Bays 1 - 5	2550	1 week

**Table BAT2: Storage Arrangements for Permitted Wastes for AR2 and AR3**

EWC Code	Description	Storage Location	Max. Storage (t)	Storage Duration (months)
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>			
01 05	Drilling muds and other drilling waste			
01 05 05*	Oil-containing drilling muds and wastes	Bio-piles 1-4	2800	1
<b>05</b>	<b>WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL</b>			
05 01	Wastes from petroleum refining			
05 01 03*	Tank bottom sludges	Bio-piles 1-4	2800	1
05 01 06*	Oily sludges from maintenance operations of the plant or equipment	Bio-piles 1-4	2800	1
<b>06</b>	<b>WASTES FROM INORGANIC CHEMICAL PROCESSES</b>			
06 05	Sludges from on-site effluent treatment			
06 05 02*	Sludges from on-site effluent treatment containing dangerous substances	Bio-piles 1-4	2800	1
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>			
10 02	Wastes from the iron and steel industry			
10 02 07*	Solid wastes from gas treatment containing dangerous substances	Bio-piles 1-4	2800	1
10 02 13*	Sludges and filter cakes from gas treatment containing dangerous substances	Bio-piles 1-4	2800	1
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them			



EWC Code	Description	Storage Location	Max. Storage (t)	Storage Duration (months)
10 13 12*	Solid wastes from gas treatment containing dangerous substances	Bio-piles 1-4	2800	1
<b>13</b>	<b>OIL WASTES AND WASTES OF LIQUID FUELS</b>			
13 05	Oil/water separator contents			
13 05 01*	Solids from grit chambers and oil/water separators	Bio-piles 1-4	2800	1
13 05 02*	Sludges from oil/water separators	Bio-piles 1-4	2800	1
13 05 03*	Interceptor sludges	Bio-piles 1-4	2800	1
13 05 08*	Mixtures of wastes from grit chamber and oil/water separators	Bio-piles 1-4	2800	1
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>			
16 07	Wastes from transport tank, storage tank and barrel cleaning			
16 07 08*	Wastes containing oil	Bio-piles 1-4	2800	1
16 07 09*	Wastes containing other dangerous substances	Bio-piles 1-4	2800	1
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>			
17 01	Concrete, bricks, tiles and ceramics			
17 01 06*	Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances	Bio-piles 1-4	2800	1
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil			
17 05 03*	Soil and stones containing dangerous substances	Bio-piles 1-4	2800	1
17 06	Insulation materials and asbestos-containing construction materials			
17 06 05*	Construction materials containing asbestos	Bio-piles 1-4	2800	1
17 09	Other construction and demolition wastes			
17 09 03*	Other construction and demolition wastes (including mixed wastes) containing hazardous substances	Bio-piles 1-4	2800	1
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTEWATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>			
19 02	Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)			
19 02 04*	Premixed wastes composed of at least one hazardous waste	Bio-piles 1-4	2800	1
19 02 05*	Sludges from physico/chemical treatment containing hazardous substances	Bio-piles 1-4	2800	1
19 03	Stabilised/solidified wastes			
19 03 04*	Wastes marked as hazardous, partly stabilised other than 19 03 08	Bio-piles 1-4	2800	1
19 03 06*	Wastes marked as hazardous, solidified	Bio-piles 1-4	2800	1

EWC Code	Description	Storage Location	Max. Storage (t)	Storage Duration (months)
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified			
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances	Bio-piles 1-4	2800	1
19 13	Wastes from soil and groundwater remediation			
19 13 01*	Solid wastes from soil remediation containing dangerous substances	Bio-piles 1-4	2800	1
19 13 03*	Sludges from soil remediation containing hazardous substances	Bio-piles 1-4	2800	1
19 13 05*	Sludges from groundwater remediation containing hazardous substances	Bio-piles 1-4	2800	1

**Table BAT3: Storage Arrangements for Permitted Wastes for AR2 and AR3**

EWC Code	Description	Storage Location	Max. Volume (m <sup>3</sup> )	Storage Duration
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>			
17 06	Insulation materials and asbestos-containing construction materials			
17 06 01*	Insulation materials containing asbestos	ACM skip	30	1 week
17 06 05*	Construction materials containing asbestos	ACM skip	30	1 week

Site personnel carry out a daily walkaround and record any findings in the site daily diary. Checks include a visual inspection of all waste being stored. This is carried out at the end of each shift, and any possible issues identified are recorded, investigated and actioned.

Records will be maintained at the site relating to the pre-acceptance, acceptance, storage, treatment and transfer off-site of wastes. These records will be kept up to date on an on-going basis to reflect deliveries, on site treatment and despatches. The record system will include, as a minimum, the following:

- Date of arrival on site;
- Producer's details (incl. source, site);
- Quantity of waste;
- The nature and quantity of wastes held on site, including all hazards and identification of primary hazards; and
- Where the waste is physically located (shown on a site plan).

The recording system will be capable of reporting on all of the following:

- The total quantity of waste present on site at any one time;
- Indication of where the waste is located on site (waste bay or bio-pile ref.);
- Comparison of the quantity on site against the total allowed by the EP; and
- Comparison of time the waste has been on site against any limit specified in the EP.

These records will be maintained on the computer system within the site office and a backup copy of all computer records will be maintained off site. Records are kept for a minimum of 3 years.

#### 2.1.4 Waste Treatment – General Principals

IPPC S5.06 states that treatment involves a change in, or modification to, the characteristics of a substance to make it suitable for another means of disposal. The proposed treatment processes enable the majority of the waste to be recovered/recycled; the only exception being the effluent from the asbestos warehouse building, the effluent from the bio-remediation process, and the solid ACMs extracted via the asbestos treatment process. The key issues dealt with in BAT are as follows:

- Ensuring that the waste is suitable for the activity (this is covered by pre-acceptance procedures);
- Adequately characterising the waste (this is covered by acceptance procedures);
- Appropriately and safely storing the waste;
- Providing and maintaining suitable infrastructure;
- Ensuring operational control of the treatment processes; and
- Management of residues/outputs and disposal of effluents.

BAT2(g) requires the sorting of incoming solid waste to prevent unwanted material entering treatment processes. The two treatment activities are described in Section 1.2.1 and 1.2.2 above; the asbestos treatment process is a manual separation process with size separation of the residue via screening. The bio-remediation process is biological but there is a pre-screening step to remove visible unwanted / oversized materials.

The treatment plant and equipment each have an operating manual that sets out the designed operational parameters in relation to, for e.g., waste feed rate and cycle length. The operating procedures in the EMS Manual, combined with these, ensure that the waste is processed correctly and meets the post-treatment criteria for classification as non-waste.

The asbestos treatment plant is located within the warehouse building whilst the bio-remediation area is within a covered area of the yard. Both are shown on the general layout plan, **Drawing CRL-ND22-EP02** provided in **Appendix D** of this application.

BAT2(d) requires the setting up and implementing of an output quality management system, allowing assessment of the performance of the waste treatment, and compliance with relevant standards and/or quality protocols for the residues and treated waste materials. This is addressed for each treatment process as follows:

- The screened treated soil materials from the asbestos treatment process are stockpiled in one of 3 storage bays in the yard area. They are stored according to input job to retain traceability. These soil materials have been initially analysed in the pre-acceptance stage. Testing and monitoring of the process will take place during and at the end of each process cycle (batch) to monitor and verify the end result. Sampling is at a rate of 1 kg per 250 tonnes or 2 samples per job (whichever is the greatest), and samples are taken at random points within the material stockpile. For asbestos soil materials the testing is purely to determine that asbestos content is <0.1%. Samples are submitted to an accredited laboratory on a maximum 3-day turnaround.
- Testing and monitoring of the treated soils in the bio-remediation facility is carried out. These soil materials have been initially analysed in the pre-acceptance stage but further testing and monitoring of the process will take place during and at the end of each process cycle (batch) to monitor and verify the end result. Sampling is at a rate of 1 kg per 250 tonnes or 2 samples per cycle (whichever is the greatest), and samples are taken at random points within the treatment piles. Samples are submitted to an accredited laboratory on a maximum 5-day turnaround.

## 2.2 Emissions Control

BAT3 of the conclusions document requires the maintaining of an inventory of wastewater and waste gas streams as part of the EMS. For the proposed process, these are limited to waste storage and process effluent, and exhausts from the filtered local exhaust ventilation (LEV) systems. These are described in this section and shown on the Process Flow Diagram provided in **Appendix D** of the EP application.

### 2.2.1 Point Source Emissions to Air

BAT8 of the BATC document sets out the frequency of monitoring for channelled emissions to air. Point source emissions are those that result from the collection of gas from a vessel or area and are passed either via abatement or direct to a stack or vent.

None of the treatment process have active emissions; instead, both treatment processes benefit from a local exhaust ventilation (LEV) system. This comprises an extraction (negative pressure) from the covered bio-pile area and one from each of the two asbestos picking stations. The former includes filtration for both VOCs and particulates (carbon and HEPA filters); the latter both include filtration for particulates (HEPA).

Emissions from the filtered extracts are marked as Emission Points **A1**, **A2** and **A3** on the General Layout Plan.

Air extraction and LEV systems will be inspected daily for functionality and condition. This includes checking the integrity of joints, pipework, motors, fans, seals etc. Fabric filters (if applicable) will be removed and inspected weekly and changed as required but at a minimum quarterly. The details of the checks carried out are recorded.

### 2.2.2 Point Source Emissions to Surface Water and Sewer

The primary consideration is always to prevent releases of harmful substances to the aquatic environment, whether this is direct to the watercourse or via a sewage treatment works. Potential missions from the site are as follows:

- Rainwater falling on the roof and clean yard run-off. This is clean and will go to the existing surface water drain for discharge off site (or be harvested for use at the site).
- Effluent from the storage of 'damp' waste in the asbestos treatment warehouse building. This will be collected in a drainage channel across the front of the building which drains to an engineered sump.
- Effluent from the bio-remediation area. This will be collected in a drainage channel across the front of the bay which drains to an engineered sump.

The contents of these sumps are pumped out regularly and transferred off site for treatment. There is no direct discharge to foul sewer from any of the individual processing activities.

Full details of the drainage network at the site are provided on **Drawing CRL-ND22-EP04 Site Drainage Plan**.

### 2.2.3 Point Source Emissions to Groundwater

There are no direct discharges to groundwater from the site and its activities.

### 2.2.4 Fugitive Emissions to Air

BAT recognises that the level of detail relating to fugitive emissions should be in keeping with the risk of causing annoyance at sensitive receptors. Common sources of fugitive emissions are storage areas, waste loading and unloading activities, transferring/bulking up of materials from one vessel to

another, pipework and ductwork systems, poor building containment and extraction, wastewater storage, spillages and accidental loss of containment from failed plant and equipment.

Standard control measures at the site include the location of the treatment processes within the warehouse building (asbestos treatment plant) and under a fixed cover (bio-remediation plant). The activities undertaken include the movement of waste but both processes benefit from local exhaust ventilation (LEV) with appropriate filtration systems in place. The activities include waste storage so there is the potential for the emission of dust and odours; there is also the potential for dust generation produced through on-site vehicle movements. Internal roads are kept clean and if needed can be dampened down to prevent the generation of dust. Litter is unlikely to be a potential hazard from the storage of waste based on the type of wastes received.

Fugitive emissions to air are considered in the qualitative Environmental Risk Assessment provided in **Appendix G** of this application (ref. CRL\_2022.01/001-6).

### **2.2.5 Fugitive Emissions to Surface Water, Sewer and Groundwater**

Potential fugitive emissions are considered in the qualitative Environmental Risk Assessment and summarised here:

- Spillage of effluent drained from incoming waste during receipt, handling, and storage. Emissions are prevented through the implementation of acceptance and rejection procedures, spill kits, use of covered vehicles, vehicle speed limits within the site, bunding and sealed drainage channels across the asbestos warehouse building and across the bio-remediation bay, and regular inspection of containment measures.
- Spillage of raw materials from containers/tanks etc. or bunds. Diesel is used for the heavy plant (loader/forklift/bowser) however this is taken from a tank not within the EP boundary but in an adjacent building controlled by the landowner. Dosing materials for the treatment processes are contained within either 25 litre, 250 litre or 1,000 litre containers; these are all stored within a bunded secure area in the neighbouring warehouse building outside the EP boundary. These are used in a diluted form. Spillage procedures (and kits) are in place, and personnel are fully trained in spill response).

### **2.2.6 Odour**

BAT recognises that the level of detail relating to fugitive emissions e.g., odour should be in keeping with the risk of causing annoyance at sensitive receptors. BAT10 and BAT12 require the periodic monitoring of odour emissions but only for cases where an odour nuisance at sensitive receptors is expected and/or has been substantiated. BAT13 sets out some of the techniques to prevent or reduce odour emissions and notes that BAT is to use one or a combination of these.

Potential fugitive odour emissions are considered in the qualitative environmental risk assessment and summarised here:

- Odour from the storage of waste. The wastes have a low potential for odour however waste pending treatment is stored either in the fully enclosed asbestos warehouse building or within the bio-remediation facility, both of which benefit from an LEV system.
- Odour from the treatment of waste. The asbestos treatment takes place within an enclosed building; the bio-remediation process, whilst outside in the yard area, is undercover in an area maintained under negative pressure. The LEV system on the latter includes a carbon filter for VOC abatement as the waste in this area is hydrocarbon contaminated.
- Odour from the storage and use of raw materials. Dosing materials for the treatment processes are contained within either 25 litre, 250 litre or 1,000 litre containers; these are all stored within

a bunded secure area in the warehouse building which is fully enclosed. These materials are diluted prior to use, then are used in areas that both benefit from LEV systems.

The waste received at the asbestos treatment building is not inherently odorous however the dust suppression system on the primary picking cabin does use an agent that will address any light hydrocarbon contamination so will act as an odour mitigation measure. The bio-piles are potentially odorous but are under cover with a tarpaulin system along the front; they are maintained under negative pressure and the extract filtered for VOCs (carbon filter). Other odour management measures include quick processing times (i.e., minimised residence time), limits on storage duration, and the used of enclosed vehicles to transport the waste to site.

Regular olfactory monitoring is carried out, at set points around the site boundary, including one moveable point that is selected based on the wind direction at the time of the monitoring.

Any odour complaints are processed in accordance with the complaints procedure in the applicant's EMS which is to be implemented at the site. Odour emissions are considered in the qualitative Environmental Risk Assessment provided in **Appendix G** of this application (ref. CRL\_2022.01/001-6).

### 2.2.7 Dust

BAT recognises that the level of detail relating to fugitive emissions e.g., dust should be in keeping with the risk of causing annoyance at sensitive receptors. BAT14 sets out some of the techniques to prevent or reduce diffuse emissions to air and notes that BAT is to use an appropriate combination of these.

Potential fugitive dust emissions are considered in the qualitative environmental risk assessment and summarised here:

- Dust from the receipt, movement, storage, and treatment of waste. Permitted wastes are dusty however they arrive inherently damp and in covered vehicles and are placed immediately either into bays within the fully enclosed warehouse building, or undercover within the bio-remediation bays. Air extraction and particulate filtration is in place over both asbestos picking stations and the bio-remediation facility. Visual inspections are carried out to identify any dust emissions and a bowser is available for any dampening required.

The waste received, whilst potentially dust-raising, is generally damp. All incoming wastes are stored either in the warehouse building (which is enclosed on four sides) or bio-piles, the latter of which are in the yard area but are under cover with a tarpaulin cover system at the front. The bio-piles operate under negative pressure and the extract is filtered for particulates (compliant with the technique set out in BAT34). There is also active extraction over the two picking cabins, both of which benefit from particulate filtration. Material is moved through the asbestos treatment process by conveyors; where these are outside the building, they are covered to limit dust emissions. The PPM regime covers key plant to ensure damage/leaks are remediated in a timely manner; it also includes the regular cleaning of waste treatment and storage areas. Bank holidays would likely be utilised to carry out planned shutdown works; with the waste stock being run down to a minimum in the preceding week.

Other dust management measures include quick processing times (i.e., minimised residence time), limits on storage duration, limiting traffic speed on the site, and the used of enclosed vehicles to transport the waste to site. A bowser is available on the site for dampening on roads as required. A dust suppression spray is fitted to the front and back of the primary picking cabin and can be used if required on the asbestos treatment line; the bio-treatment process includes the application of a wet spray (for the treatment agent) hence keeping the waste mass damp.

If any complaints, these will be investigated. If substantiated, control measure will be reassessed and amended as required.

Regular site boundary walkovers are carried out and include the inspection of the fence and open areas for any sign of litter or dust escaping the operational areas. Litter picking will be carried out if the inspection deems it necessary.

Fugitive emissions to air are considered in the qualitative Environmental Risk Assessment provided in **Appendix G** of this application (ref. CRL\_2022.01/001-6).

## 2.3 Management

The applicant recognises that an effective management system is a key technique for ensuring that pollution prevention and control techniques are implemented and support compliance with BAT. Appropriate Measures guidance is that an operator must have a written management system; this is set out in detail in the BATC document (section 1.1 – BAT 1) which defines the features that an EMS should include. IPPC S5.06 notes that the EA strongly supports the operation of a formal environmental management system (EMS) and recommends certification to a recognised standard such as ISO 14001 or EMAS.

The applicant will operate the site in accordance with a set of internal documents and procedures that comprise the EMS. This has been written in accordance with ISO 14001 to facilitate certification in the future. A copy of the Table of Contents of the EMS Manual is provided in **Appendix C** of this application. As the EMS is not yet certified, an additional document has been produced that demonstrates that the EA guidance on management systems is satisfied by the EMS. This should be considered as a cover document for Appendix C and read alongside the EMS contents page.

It is also a requirement that the management of the site is controlled by a person who is a ‘fit and proper person’. Details of the applicant’s ability as an operator are provided in Section 2.2.2 of the Application Supporting Statement and certificates are provided in **Appendix B** of this application.

## 2.4 Raw Materials

BAT recognises that a proportion of raw materials (including auxiliary chemicals) used will end up as a waste or in the effluent. BAT11 of the BATC document requires the monitoring of annual consumption of water, energy and raw materials as well as the annual generation of residues and wastewater.

### 2.4.1 Raw Material Selection

Details of the raw materials used in support of the operation of the proposed facility are provided in **Table BAT4**. These do not include electricity and water (the main raw materials used at the site; these are addressed separately in other sections of this BAT Assessment) but the chemicals and other materials required to undertake the permitted activities.

**Table BAT4: Raw Materials**

Raw Material	Maximum Stored	Annual Use	Use and Hazards
Diesel	10,000 litres	120,000 litres	Fuel for heavy plant and jet washer, standard application. Note this is stored outside the EP boundary, at the landowner’s site.
Wetstrip (surfactant)	500 litres	6,000 litres	Spray for asbestos dust and odour suppressant system. SDS provided in Annex BAT1.
EU 80 / OSE II	3,750 litres	45,000 litres	Bio-remediation treatment agents. SDSs provided in Annex BAT1
Hydrogen Peroxide	2,000 litres	24,000 litres	Bio-remediation treatment agent. SDS provided in Annex BAT1

Activated carbon (held within filter units)	10 units (6 x pre-filter, 4 x LEV units)	646 units	LEV filter media, BAT (no current better suitable alternative). Quantity based on two pre-filters on the negative pressure unit being changed twice a week (210/year) in the asbestos plant, and four in the bio-remediation plant (420/year), and four carbon filters on the LEV system for the bio-remediation plant changed every quarter (16 per year).
HEPA Filters	2 units	4 units	LEV filter media, BAT (no better suitable alternative). Quantity based on one HEPA filter on each of the asbestos plant LEVs (A1 and A2) being changed every 6 – 12 months (4/year)
Hydraulic oil / lubricant	100 litres	1000 litres	Bulk lubricant for plant/machinery, standard application. Note this is stored outside the EP boundary, at the landowner's site.

The applicant will maintain a list of the raw materials in use and their properties (as set out in Table BAT4 above). In accordance with the standard requirements in the EP, a review of raw material use will be carried out at least every four years. This will seek to identify if there are suitable alternative materials that could reduce the environmental impact or identify opportunities to improve the efficiency of the existing raw material being used.

Safety Data Sheets (SDS) for the asbestos treatment mist spray, and the bio-remediation agents are provided in **Annex BAT1**.

### 2.4.2 Waste Minimisation

Waste minimisation is where a systematic approach is taken to reduce waste at source through an understanding of, and applying changes to, processes and activities in order to prevent and reduce waste. This section relates to ensuring efficient use of raw materials and other substances in order to reduce gaseous, liquid and solid emissions.

It is emphasised that the inherent purpose of the proposed activities is to facilitate the recovery of the waste material to the point of it being considered 'end-of-waste' and a product that can be used instead of its equivalent virgin material. Other than the asbestos segregated out by the treatment process, all other fractions of the incoming waste streams are recovered.

In accordance with the standard requirements in the EP, a waste minimisation audit will be carried out at least every four years. This will seek to analyse the use of raw materials, assess the opportunities for reductions and the generation of an action plan to implement identified improvements.

The quantity of chemicals used at the site are recorded, as set out in Section 2.4.1 above, and will be tracked during the lifetime of the EP and assessed at regular intervals.

### 2.4.3 Water Use

BAT19 and BAT35 set out techniques to optimise water consumption, to reduce the volume of wastewater generated, and to prevent or reduce emissions to soil and water. It is noted that BAT is to use an appropriate combination of these.

The site will be a medium scale user of water, which is primarily used for the misting system on the primary picking station in the warehouse and for the biological treatment of the soils in the bio-piles



(as it is mixed with the biological agent before use to achieve the correct dilution). Effluent from the two processes is collected in two separate drainage channels, each draining to a sump. This is sent off site for treatment and/or disposal.

An impermeable surface across the whole yard area, and in the warehouse building and under the bio-piles protects the underlying soils from any potential contamination. All treatment process are under cover to prevent rain water coming into contact with the waste, thereby reducing the potential quantity of waste water needing to be managed as effluent. Clean rainwater run-off is currently directed to surface water drain. The PPM programme includes inspection of surfacing and drainage in order to identify any damage and carry out remediation to prevent leakages. Whilst the two treatment activities include a wet spray application and this is mains supplied, the intention is to supplement this with clean roof water harvested from the bio-remediation bays and warehouse building roof.

Water use is metered from the mains supply; there is one sub-meter for the warehouse building within the EP boundary. The expected water use is 80 m<sup>3</sup> per month (960 m<sup>3</sup> per annum). Based on the maximum likely waste throughput for activities AR1 and AR2 for the same period (214,000 tonnes per annum), this is 0.004 m<sup>3</sup>/tonne. The EMS for the site requires the applicant to set annual Objectives and Targets, one of which is the reduction in water use per tonne of waste processed.

In order to minimise water use, dry clean up techniques are used where appropriate as a primary means of housekeeping. Where water hoses are used, these are fitted with trigger controls to avoid unnecessary water use.

In accordance with the standard requirements in the EP, a review of water use will be carried out at least every four years. This will seek to analyse the use of water, assess the opportunities for reductions and the generation of an action plan to implement identified improvements.

## **2.5 Waste Handling**

See Section 2.1 above for details of waste pre-acceptance, waste acceptance and waste storage.

## **2.6 Waste Recovery or Disposal**

The fundamental purpose of the facility is to recover materials from the incoming waste stream; this includes the recovery of oversize and screened aggregate and soils in the asbestos treatment process, and of soil in the bio-remediation process. The former also enables the recovery of any other fractions that are present and can be separated e.g., plastic, glass, metal.

Once treated, the waste streams are in a suitable condition to meet the requirements for non-waste status, and therefore to be transferred off-site as a product not a waste, for use as a recycled raw material.

Quality Protocols (frameworks developed by WRAP and the EA) explain when a waste derived material can be regarded as a non-waste product and no longer subject to waste controls. They aim to produce high quality products from waste materials to promote greater recovery and recycling. It is noted that there is currently no QP for aggregates from waste that is contaminated, only from inert waste, and no QP from soils. Reliance is therefore placed on the assessment below.

The applicant has considered available guidance on turning waste into a non-waste product or material in order to classify the output from the treatment process proposed for the site.

In order to demonstrate end of waste status, the applicant has carried out a self-assessment using the relevant guidance (EA, 'Check if your material is waste', updated 6 January 2022). This prompts the operator to identify whether:

- the material is a waste (it has been discarded)

- it was never a waste (it meets the ‘by-product’ test or the ‘re-use’ requirements)
- it has stopped being waste – it meets the ‘end of waste’ test.

In relation to the first bullet point, it is recognised that at the point of being received at the permitted site, the material is a waste. This is based on consideration of the 11 factors specified in the guidance, the results of which are set out below:

1. Burden. The material is unwanted by the producer.
2. Certainty of Use. Due to the contamination within the materials, without appropriate treatment there is no certainty that it can be used and is therefore deemed discarded.
3. Fit for Purpose. As for point 2, due to the contamination within the materials it cannot be used in its current form so has no value to the waste producer/holder or the material market, so must be considered discarded.
4. Specific Purpose. Due to the contamination within the materials, it cannot be used in its current form for a specific purpose and therefore has no benefit to the producer/holder, so must be considered discarded.
5. Value. Due to the contamination within the materials, it cannot be used in its current form for a specific purpose and therefore has a low economic value as it is a burden. It is therefore deemed discarded.
6. Management. This doesn’t apply in this case, as it refers to the material becoming unusable as a result of transportation. In this case transportation of the waste does not incur damage.
7. Environmental Harm. The material has been tested at the source and has been identified as being contaminated (either with asbestos, hydrocarbons, or both). There is therefore a greater risk of harm to the environment or human health if the material is not regulated as a waste.
8. Common Classification of Waste. The waste is commonly addressed and classified in the List of Waste Regulations. Whilst not a definitive reason for it being considered a waste, in this case it is commonly regarded as waste.
9. Disposal or Recovery. The material is accepted under a contractual agreement with the waste producer (developer/holder) as requiring recovery or disposal. This is evidence that it has been discarded and so is waste.
10. Fuel or Waste. The material is not used as a fuel in any circumstances therefore this factor does not apply in this case.
11. Return for a Refund. This is not applicable in this case; the material is not being returned.

The second bullet point refers to scenarios where the material is being reused for the same purpose it was originally ‘designed’, or no/minimal repair is required for reuse. There are other conditions for re-use, but all must apply and in this case none are applicable. This part of the assessment also covers whether the material can be considered a ‘by-product’ and defines criteria for where further use of the material is certain. This is also not considered to apply to the wastes subject to this EP application.

The third and last bullet point considers when the material, having been received and accepted as a waste, ceases to be a waste; this can be as the result of minor processing where materials have been through a recycling or other recovery operation and can meet all the conditions of the ‘end of waste’ test. Recycling or other recovery is where something has been done to the waste to remove any waste properties (e.g., contamination – in this case asbestos and/or hydrocarbon) and turn it into a useful material that can be used in place of another non-waste (virgin) material.

Article 6(1) of the Waste Framework Directive sets out the 4 conditions that must be met in order to achieve 'end of waste' status. These are considered as follows:

- a. The material, once the contamination has been removed, will be used for a specific and clear purpose. There are multiple uses for the material but in general it is processed further outside of the EP boundary by way of crushing and screening (to increase the value of the product) and is used for development projects e.g., roadways, construction, other. It is processed to meet Recycled 6F5 specification which complies with BS EN 13285.
- b. There is a genuine, and continuous, market for the use of 6F5 and its other recycled equivalents around the local area. The material is used on sites all year round. Existing customers for the material include the Local Authority and other local infrastructure projects such as highways. The demand is high throughout the year and as such, the market for the additional quantities that can be produced at the site is readily available.
- c. There are multiple uses for the material but in general it is used for development projects e.g., roadways, construction, other. It is processed to meet Recycled 6F5 specification. The material is suitable as a replacement for non-waste material.
- d. The waste has been fully recovered, no further treatment is required for the material to be reusable, all unwanted substances (i.e., asbestos and/or hydrocarbon contamination) have been removed. Therefore, use of the material will not have any adverse environmental or human health impacts. Samples are taken of the materials following treatment to ensure that treatment objectives have been achieved.

In addition to the above, the criteria in Article 6(2) must also be considered and relates to the use of quality protocols or resource frameworks to demonstrate end of waste status. The Quality Protocol (QP) regime is currently under review and those that can be amended and reissued as a 'resources framework' document are being so.

In principle, the criteria have been applied by the applicant as follows:

- The input waste could potentially impact the quality of the output; this is addressed by way of pre-acceptance procedures which include the analysis of the incoming waste for contamination levels. Only waste that can be treated at the facility will be accepted. Waste acceptance procedures at the point of receipt at the site ensure that what is being received accords with the pre-acceptance information.
- The treatment processes are both straightforward, but both include ongoing quality checks; for the asbestos process this is manual separation which is carried out in the primary picking cabin but again at the end of the process in the secondary picking cabin. For the bioremediation, this is the monitoring of process variables during the treatment cycle (moisture, temperature). For both, the output is subject to sampling and analysis to confirm treatment objectives have been met.
- The procedures in place to ensure that operations accord with best practice, legal requirements and technical guidance are part of the facility's EMS which is written in compliance with ISO 14001:2015.

## 2.7 Energy

BAT23 of the BATC document sets out the techniques to be implemented to ensure efficient use of energy. In accordance with this, CRL will implement an energy efficiency plan as part of its EMS. This will map out the energy users at the site by scale (specific energy consumption). This is led by the Aspects and Impacts Register which identifies energy use as one of the significant aspects and therefore requires its inclusion in the Objectives and Targets for the facility (improvement targets are

set). These are tracked and reviewed at least annually. A basic energy balance (flow diagram) forms part of the energy efficiency plan and depicts energy into the process and how it is used by different parts of the facility.

The requirements of BAT as set out in 5.06 depend on whether the operator is a participant to a Climate Change Agreement. CRL is not, and as such for the purposes of this BAT Assessment is required to demonstrate that it meets both the basic energy requirements set out in Sections 2.7.1 and 2.7.2 of BAT 2018, and the additional requirements in Section 2.7.3.

### **2.7.1 Basic Energy Requirements**

In accordance with the standard requirements in the EP, the applicant will provide an annual report on energy consumption relating to the use of electricity, oil and/or any other energy source. This will be submitted to the EA as required by the EP.

The site operates a series of straightforward processes which, whilst they enable the recovery of waste materials, do not seek to generate any energy or recover any heat energy as the waste. The techniques in place do not lend themselves to this.

The applicant has a scheduled maintenance programme that focuses on the key energy users (process plant, pumps, air compressors, motors etc.). This ensures that all plant and equipment is operating at its optimum efficiency.

### **2.7.2 Basic Energy Requirements (2)**

Electricity and diesel/gas oil usage is monitored at the site and reported as usage per tonne of waste processed. This is the Specific Energy Consumption (SEC) and is as follows:

- Diesel. This is used for mobile plant (forklift, loader, bowser). The facility is likely to use an estimated 10,000 litres per month. This is 120,000 litres per year. Based on the anticipated maximum waste throughput for the year of 214,000 tonnes, this is 0.56 litres/tonne.
- Electricity. A submeter is in place for the warehouse building within the EP boundary. The estimated usage (based on the electricity bills received historically) is 6000 kWh per month; this is 72,000 kWh per year. Based on the anticipated waste throughput for the year of 214,000 tonnes, this is 0.34 kWh/tonne.

The applicant's EMS requires the establishing of annual Objectives and Targets, and these include the reduction in energy use per tonne of waste processed from the previous calendar year.

### **2.7.3 Further Energy Efficiency Requirements**

There are limited opportunities for energy efficiency measures to be applied at the site, but several initiatives are proposed to minimise unnecessary energy usage, as follows:

- Several the roof panels on the warehouse are planned to be replaced with clear panels to allow natural light to fill the building and minimise the need for artificial lighting.
- Lighting within the buildings will be on a motion sensor.
- Outside lights will be on a day/night sensor.

## **2.8 Accidents**

BAT requires the applicant to have an accident management plan that identifies the likelihood and consequence of accidents and action to prevent and mitigate these. BAT guidance also sets out the general management requirements for operators under the EP regime. This is based on three components: the identification of hazards posed by the permitted activities; an assessment of the risks of accidents and possible consequences; and the implementation of measures to reduce the risk, as well as consideration of contingency measures in the event that accidents do occur.

BAT21 of the BATC document sets out a number of techniques for the prevention or limitation of environmental consequences of accidents and incidents. BAT is to use all of the techniques as part of the accident management plan.

The applicant will operate the site in accordance with an EMS which includes an Emergency Preparedness and Response procedure (see Section 4.2 of the EMS) that recognises that the operator has to establish and maintain procedures to identify the potential for, and respond to, accidents and emergency situations. It also includes measures to prevent and mitigate any environmental impacts that may be associated with those.

The EMS also includes consideration of accidents by way of emergency scenarios in the Aspects and Impacts Register (see Section 3.2 of the EMS). This is supported by emergency plans (i.e. business continuity). It is suggested that the typical environmental risks for the site are the potential for release of effluent from the incoming wastes, release of the waste itself via spillage of bulked materials during transport or as the result of mis-handling of waste; and mis-management of effluent. A summary of the EMS is provided in **Appendix C** of the EP application.

Processes will be in place for staff to report environmental incidents (including near misses). These would be handled in accordance with the non-conformance procedure. This applies to accidents, non-compliance raised during audits, breaches of any licence or permit limits, and complaints.

It is confirmed that the site is not a COMAH site.

## 2.9 Noise

BAT Guidance recognises that the level of detail relating to fugitive emissions e.g. noise and vibration should be in keeping with the risk of causing annoyance at sensitive receptors. BAT17 requires the setting up, implementation and regular review of a noise and vibration management plan as part of the EMS, but only for cases where a noise or vibration nuisance at sensitive receptors is expected and/or has been substantiated. BAT18 sets out some of the techniques to prevent or reduce such emissions and notes that BAT is to use one or a combination of these.

With regards to noise, the potential noise sources, the pathway for propagation, and the sensitivity of the receptors have been considered in the qualitative risk assessment (a copy of which is provided in **Appendix G** of the EP Application (ref. CRL\_2022.01/001-6)). Based on the sensitivity of the location as regards receptors that might be sensitive to noise, the proposed operations being covered (the asbestos plant within a fully enclosed warehouse building), within an existing industrial area, minimisation of the handling of waste, PPM being in place to ensure plant and machinery is operating correctly, equipment being operated by trained qualified staff, and the fact that the operation in terms of noise sources mirrors that already permitted at the site, a noise impact assessment is not deemed necessary. Operations are limited to permitted (by planning permission) operating hours which are 0700 to 1830 for all external activities. This ensures noise levels are kept to a minimum during the night time hours when background levels drop and residential receptors are more sensitive to noise.

Records will be retained of any complaints received, including those relating to noise. All complaints will be fully investigated, and action taken where substantiated. If required, a noise management plan will be generated and would form part of the EMS.

The location of sensitive receptors, relative to the site, is shown on **Drawing CRL-ND22-EP03: Site Setting**.

## 2.10 Monitoring

### 2.10.1 Emissions Monitoring

None of the treatment process have active emissions; instead, both treatment processes benefit from a local exhaust ventilation (LEV) system. This comprises an extraction (negative pressure) from the

covered bio-pile area and from the two asbestos picking stations. The former includes filtration for both VOCs and particulates (carbon and HEPA filters); the latter both include filtration for particulates (HEPA).

Emissions from the filtered extracts are marked as Emission Points **A1**, **A2** and **A3** on the Site Layout Plan.

BAT25 prescribes the BAT AEL (air emission limit) for dust from the mechanical treatment of waste as being between 2–5 mg/Nm<sup>3</sup> (where a fabric filter is in place). Points A1 and A2, whilst resulting from the ‘mechanical treatment’ of waste, are not proposed to be subject to routine six-monthly monitoring as the mechanical process is a manual picking activity as opposed to a shredder or granulator activity i.e., not in itself likely to cause dust emissions as there will be minimal aggravation of the waste.

BAT34 prescribes the BAT AEL (air emission limit) for dust and VOCs from the mechanical biological treatment of waste as being between 2–5 mg/Nm<sup>3</sup> and 5-40 mg/Nm<sup>3</sup> respectively. Point A3, whilst resulting from the mechanical biological treatment of waste is not proposed to be subject to routine six-monthly monitoring as the process is purely a hydrocarbon neutralisation activity; there is no significant moving of the waste nor aerobic activity i.e., not in itself likely to cause dust or VOC emissions.

The applicant does however commit to carrying out a round of monitoring at each emission point to air, as part of the commissioning process.

### **2.10.2 Environmental Monitoring Beyond Installation**

No monitoring is required beyond the EP boundary.

### **2.10.3 Monitoring of Process Variables**

Regular visual inspection will be carried out and recorded for the treatment plant and associated equipment and hardstanding.

Weekly sampling is carried out on the bio-piles, for moisture and temperature; this is in addition to the ongoing sampling that is carried out to determine that the process is working and when the treatment is ‘complete’.

### **2.10.4 Monitoring Standards**

For England and Wales, the Environment Agency has established its Monitoring Certification Scheme (MCERTS) to deliver quality environmental measurements. MCERTS provides for the product certification of monitoring systems (for example, instruments, analysers and equipment), the competency certification of personnel and the accreditation of laboratories under the requirements of European and International standards.

No effluent is discharged from the process to sewer or otherwise. The effluent collected from the bio-remediation process is collected via drainage channel to a sump and transferred off site for disposal or treatment. Any run-off from the waste bays in the warehouse building would also be collected via drainage channel to its own sump and transferred off site for disposal or treatment. Any other contaminated liquids that are collected by the drainage system (e.g. spillage or fire water) would be pumped out and transferred off site similarly.

## **2.11 Closure**

There will be a site closure plan for the site which details how the site would be decommissioned to return it to a satisfactory state upon the cessation of activities on the site.

It will cover the following:

- Plans showing the position of any underground pipework, culverts or other structures, the location of watercourses and drains, and the permeability of the underlying ground structure;

- Identification of potentially hazardous materials located in above or underground structures;
- Identification of how those structures will be decontaminated, in addition to consideration of any other hazards that dismantling the structures may pose; and
- Identification of any other pertinent issues that might need addressing at the point of decommissioning.

This will be subject to regular review and update, including after any significant changes to the site that could impact the context of the closure plan.

## 3 EMISSION BENCHMARKS

### 3.1 Emissions Inventory

In accordance with EA guidance, the nature and sources of foreseeable emissions will be identified.

Monitoring proposals with respect to Emission Points A1 – A3 are set out in Section 2.10.1 above.

Monitoring of emissions at the site is limited to the recording of the quantity and composition of waste transferred off the site, recorded as tonnes per month and the route (recovery or disposal) identified.

## 4 Impact Assessment

EA guidance indicates that an assessment is required to look at the significant environmental effects of foreseeable emissions. The EA guidance also indicates that the depth to which this assessment should go should be discussed with the Regulator.

It is considered that the nature of the proposed activities is such that emissions will be very limited and the overall environmental impact of the site will be minimal. As the site is operated with the purpose of recovering waste that would otherwise be disposed of, the site is having an overall positive impact on the environment. As such, it is not considered that an in-depth impact assessment is required.

The location of sensitive receptors, relative to the site, is shown on **Drawing CRL-ND22-EP03: Site Setting**. This defines the receiving environment in terms of potential receptors of pollution, and the potential impact is considered in the qualitative environmental risk assessment in **Appendix G** of the EP Application (ref. CRL\_2022.01/001-6).

A screening request was made to the EA at the pre-application stage. This identifies one site that is designated as a SAC (South Pennine Moors); this is also designated as a SPA and lies within 10 km of the site. Also identified within the 2 km screening distance is a Local Nature Reserve (Scarr & Long Woods) which, along with 4 other sites is also a Local Wildlife Site (LWS); and three ancient woodland sites. All identified habitats have been explicitly considered in the ERA. A copy of the EA screening advice is provided in **Appendix A**.

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Telephone: +44(0)1684 577171 E-mail: sales@biosystemseurope.co.uk

**Removal of Oil and Diesel**  
**Phenol Compounds**  
**Volatile Aliphatics**  
**Heavy Aliphatics and Aromatics**  
**Chlorinated and Bromated Hydrocarbons**

**EU 80** is a water soluble biological product that removes contamination from Soil, Waste water and Biological air filters. Effective treatment for emergency spills and brown field sites.

**EU 80** contains group 1 non-pathogenic micro-organisms and a high proportion of nutrients that quickly breakdown the contaminants. The bacteria are facultative and will adapt to most environments. Fastest results are achieved under aerobic conditions.

The bacteria have been isolated from contaminated sites and screened to select the most suitable strains. These are grown by single strain deep fermentation and freeze dried to ensure high quality and stability. After remediation has been completed the bacteria die back to naturally occurring levels.

Unique to EU80 are the strains of pseudomonas bacteria capable of breaking down long chain and chlorinated hydrocarbons. Because pseudomonas do not form spores EU80 is supplied as a water soluble powder with a twelve month shelf life. When mixed with water the product needs to be used within three weeks.

### **Treatment methods**

The type of application is based on analysis of the contamination combined with physical aspects such as buildings, access and time constraints. For a large site the outcome will usually be a mixture of several methods.

Hydrocarbon contamination whether simple short chain molecules or complex ring structures is a common problem and can be treated on site in the following ways.

**Windrows:** Where time is of importance and space is available, soil or sludge is sprayed with a solution of EU80 and placed into long piles. Ideally the material would be on top of a non-permeable barrier and surrounded by a shallow moat to collect rain water and prevent contamination spreading.

Turning the windrows will improve aeration and even out any hot spots. This speeds up remediation and gives a more consistent treatment.

Soil has good insulation properties and even in cold weather the process of biological breakdown will still proceed and generate heat.

A major factor for remediation is the bio availability of nutrients. The breakdown process requires trace amounts of Nitrate and Phosphates. EU80 meets this requirement by combining nutrients with the correct bacteria in a one shot water-soluble product.





**Injection:** For soil and ground water. This is the least invasive treatment and the best method to use near buildings, especially in residential areas and places of restricted access.

A solution of EU80 is injected into the ground under low pressure. The bacteria spread out and break down the contamination without disturbing the area or requiring large machinery. Sampling from the injection points gives a good indication of progress. For large sites apply over a five meter grid, for smaller areas and fuel spills requiring quicker results use a 1m pattern.

Due to the shortage of Oxygen this process takes on average four times longer to remediate the soil compared to windrow treatment.

However the reduction in cost per m<sup>3</sup> and the limited disruption to the client make this an attractive option.

**Manual spraying:** Cost effective for small areas. EU80 mixes easily with cold water at a rate of 1kg of EU80 to 5Litres of water.

Due to the high solubility this can be safely applied with most garden type spray equipment and sprayed onto the soil surface or excavation.

If contamination has entered buildings this can be treated by spraying the floor and affected walls. Especially suitable for such as cellars and garage examination pits.

### Application rates

For soil and sludge:

Medium contamination levels i.e. over 800 mg/Kg 125g per m<sup>3</sup>

Higher levels 250g per m<sup>3</sup>

Chlorinated Hydrocarbons 300g per m<sup>3</sup>

Application rates should be increased if the contamination contains anything with antimicrobial properties. Dilution is dependant on the soil type and moisture levels, the important factor is to give enough volume that makes it practical to apply at the above rates.

Contained water: Tank bunds, bilge water and extracted ground water.

100g per m<sup>3</sup>. For best results provide aeration through small bubble diffusers.

### Specification

Form:	Free flowing powder
Colour:	White
Solubility in water:	> 99.5 % @ 20 deg C
pH:	6.5 to 7.5
Pack type:	10 kg polythene lined container and 25kg bags

When used as directed **EU80** is a safe and completely biodegradable product. It is harmless to people, animals and the environment.



E-mail: [sales@biosystemseurope.co.uk](mailto:sales@biosystemseurope.co.uk)

Web: [www.biosystemseurope.co.uk](http://www.biosystemseurope.co.uk)



T&T Eco

# OSE II

## OIL SPILL EATER II

*the natural solution!*

OSE II is the Only Approved (Ecologically safe) Bioremediation agent for use on Land, Water & Sea by the UK's Marine Management Organisation (MMO)



<https://www.gov.uk/government/publications/approved-oil-spill-treatment-products>



## PRODUCT INFORMATION

Oil Spill Eater II (OSE II), is the world's most environmentally safe and cost effective bioremediation product, for the mitigation of hazardous waste, spills and contamination.

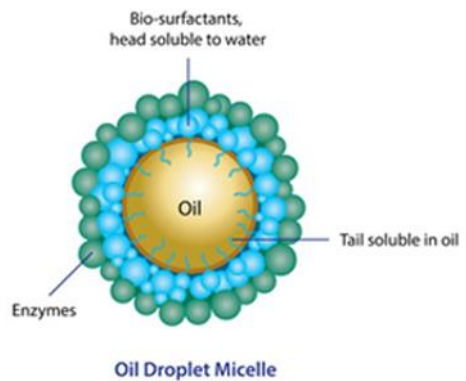
OSE II is an environmentally safe clean-up method because it uses nature's own bioremediation process to effectively eliminate hazardous materials.

OSE II is not a bacteria (bug), fertilizer or dispersant product. It is a biological enzyme that converts the waste into a natural food source for the native bacteria found in the environment. The end result is only CO2 and water.



### Hydrocarbon Bioremediation Product

OSE II will reduce clean-up costs and permanently eliminate the hazardous waste problem with no secondary clean-up required.



## So what exactly is a natural Bioremediation Process?

When OSE II is applied to an oil spill, the oil's molecular structure begins to breakdown immediately and in a short time, visually disappears.

Biosurfactants help by connecting with the oil molecules and breaking down the covalent and ionic bonds, creating small micelles (oil droplets).

The process rapidly reduces the toxicity of the oil, making it more bioavailable to indigenous bacteria that then utilize the oil as a food source.

OSE II contains nutrients which attract indigenous bacteria that rapidly colonise/grow in numbers, speeding up spill remediation.

OSE II does NOT contain any foreign bacteria or non indigenous organisms.

The bacteria rapidly consume the oil with the help of OSE II nutrients and enzymes until all is converted to CO2 and water, permanently removing the oil from the environment.



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T&T Eco

# OSE II

**OIL SPILL EATER II**  
*the natural solution!*

## Contamination clean-up managed and delivered with complete environmental benefits for WATER TREATMENT FACILITIES

A one step cleaning procedure; usually there is no need for additional cleaning processes, such as having to collect and dispose of effluent.

Oil spills are dealt with and visibly disappear quickly.

OSE II is a fire retardant: Mixture flammability is greatly reduced or completely diminished.

OSE II can treat underground spills.

OSE II can treat all types of hydrocarbon spills from jet fuel, lubricants and heavy fuel oils, including crude oil.

**...Final result is simply: CO2 and water**



## Application Methods

OSE II can be applied by surface spray apparatus, such as a small hand held tank, back pack, large mixing tanks with mechanical pumping devices, vessels with booms for spraying wide paths or spray devices on aeroplanes or helicopters. OSE II can be applied by educator systems from vessels, fire trucks etc.

Usual mixing ratio is 1:50 (1 ltr of OSE II mixed with 50 ltr of non chlorinated water).

Denser concentrations can be used for older or heavier spills to accelerate process.

Process cleaning time varies from a few hours to several weeks, depending on the type of hydrocarbon and spill.

## Typical Applications

- Oil Spills on Oceans, Lakes etc
- Asphalt and Concrete Spills
- Fuel Tank Cleaning
- Underground Spills
- Ship Deck Cleaning
- Ballast Water Tank Cleaning
- Bilge Tank Cleaning
- Oil Water Separator Cleaning
- Airport Tarmac and Apron Cleaning
- WWTP Oil Water Separator Tank Cleaning
- Clean Up of All Types of Oil Leakage



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# OSE II

## OIL SPILL EATER II

*the natural solution!*



### Physical Properties

Physical State	Liquid, the same density as water
Colour	Amber to Brown
Odour	Some smell of ferment
Density	Same as water
Vapour Density	Same as water
Dropping Point	Same as water
Ph	7.1

### Shelf Life

OSE II has a recommended shelf life of 5 years. After 5 years at optimum storage temperature, there is an approximate 10% decrease per year in product capability



### MAIN APPROVALS & LISTING

US Environmental Protection Agency, National Contingency Plan (EPA NCP List)

Australia Oil Spill Control Agent (OSCA registered)

UK Marine Management Organisation Approval (MMO Approval)



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## *US Safety Data Sheet*

*Issued: June 1, 2015*

### **1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY**

Product Name: **Oil Spill Eater II, OSEII**

Product Code, GHS code:  
(Export Code) 3821000000

Product Type: **Hydrocarbon Bioremediation Product**

Supplier: Oil Spill Eater International Corporation

Address: P.O. Box 515429  
Dallas, Texas 75251  
USA

Contact Numbers:

Telephone: (972) 669-3390

Fax: (469)241-0896

E-mail: [oseicorp@msn.com](mailto:oseicorp@msn.com)

Emergency Telephone Number: (972) 669-3390

Emergency Covers: 24 hours a day 7 days a week

### **2. HAZARDOUS IDENTIFICATION**

Human Health Hazards: **None.** Potentially toxic if more than 1 liter ingested.

Safety Hazards: Will not burn. Is, in fact, a fire retardant.

Environmental Hazards: **None. Protects environment; 100% biodegradable; no known allergens.**

### 3. COMPOSITION INFORMATION ON INGREDIENTS

Preparation Description:

A hydrocarbon bioremediation product containing all natural non hazardous ingredients.

**Contains:**

<u>Ingredient</u>		<u>CAS Number</u>
1) Water	80-90%	7732-18-5
2) Nitrogen (Urea)	0.01-0.09%	57 -13-6
3) Molasses	1-2%	None
4) Bio Surfactant	0.06-0.08%	68131-40-8
5) Sugar	1.5%-2%	50-99-7
6) Protease	0.01-0.03%	9000/90/2
7) Amylase	0.01-0.03%	9014-01-1
8) Malt	1-2%	8029-43-4

### 4. FIRST AID MEASURES

Symptoms and Effects:

Prolonged exposure would have minimal effect, if any at all.

First Aid - Inhalation:

Inhalation of vapors from this product pose no acute or chronic hazard.

First Aid - Skin:

Prolonged exposure to skin may cause some drying of the skin. Wash off with water.

First Aid - Eye:

Flush eyes with copious quantities of water. If irritation persists, seek medical attention.

First Aid - Ingestion:

If less than 59 ml / 2 ounces is ingested, no toxic symptoms should occur, to most humans Wash out mouth and seek medical attention if more than 59ml or 2 ounces *is ingested*.

Advice to Physicians:

Treat symptomatically. Wash skin or eyes thoroughly. Treat as you would for any large ingestion of mild soap or toothpaste.

### 5. FIRE FIGHTING MEASURES

Specific Hazards:

**OSE II is a fire retardant.** However, if applied to a burning fire, there can be a slight flash before fire goes out.

Extinguishing Media:

None required. Product is a fire retardant. Method - ASTM-D56.

Unsuitable Extinguishing Media:

None required. Product is a fire retardant.



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Protective Equipment: Proper protective equipment including breathing apparatus must be worn when approaching any fire.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Wash from skin or eyes as needed.

Personal Protection: Wear goggles if applying in windy conditions. Wear protective rubber gloves if applying directly in a prolonged situation.

Environmental Precautions: Wash down with water. Will help clean soil, drains, or water.

Clean-up methods - small spillage: Wash down with water. **Non-toxic to the environment.**

Clean-up methods - large spillage: Same as for small spills.

## 7. HANDLING AND STORAGE

Handling: When handling product in drums, safety footwear should be worn. However **No special handling procedures required.**

Storage: Keep in cool, dry area. Avoid direct sunlight and excessive heat.

Storage Temperatures: Do not store where temperature exceeds 120 F.

Recommended Materials: Polyethylene drums or PVC are acceptable.

Unsuitable Materials: None known.

Other Information: Product can freeze / thaw without any negative effect on product.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standards:	None established (Non toxic).
Hygiene Measures:	Wash hands before eating or drinking.
Respiratory Protection:	Not normally required.
Hand Protection:	Any plastic or rubber glove if needed; not normally required.
Eye Protection:	Wear safety glasses or goggles if applying in windy conditions.
Body Protection:	Not normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid with the same density of H <sub>2</sub> O.
Color:	Amber to brown.
Odor:	Some smell of ferment.
Vapor Pressure:	Same as H <sub>2</sub> O.1.0215
Density:	Same as H <sub>2</sub> O.1.0215
Vapor Density:	Same as H <sub>2</sub> O.1.0215
Dropping Point:	Same as H <sub>2</sub> O.
Flash Point:	Same as H <sub>2</sub> O in excess of 7000°F.
Flammability Limit - Lower:	Nonflammable.
Flammability Limit - Upper:	Nonflammable.
Auto-ignition Temperature:	Non-igniting.
Solubility in Water:	100%
N-octanol/water Partition Coefficient:	100% soluble - non partitioning
Elements Content:	None.



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## 10. STABILITY REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Temperatures in excess of 120° F and direct sunlight during storage or transporting.
Materials to Avoid:	Strong oxidizing agents. Hazardous
Decomposition Products:	None decomposes to CO and H <sub>2</sub> O.

## 11. TOXICOLOGICAL INFORMATION

Basis for Assessment:	Toxicity tests have been performed Determining OSE II is (virtually nontoxic).
Acute Toxicity - Oral:	Can become toxic if more than 60 ml or 2 ounces is ingested.
Acute Toxicity - Dermal:	None.
Eye Irritation:	Slight irritant alleviated by copious eye washing.
Skin Irritation:	Skin can dry slightly if prolonged direct exposure occurs.
Respiratory Irritation:	Virtually none.
Skin Sensitization:	Not expected to be a skin sensitizer.
(Sub)chronic Toxicity:	None expected.
Carcinogenicity:	Not a carcinogen.
Mutagenicity:	Not a mutagenic.
Human Effects:	None expected.
Other Information:	Not applicable.

## 12. ECOLOGICAL INFORMATION

Basis for Assessment:	Ecotoxicological data has been determined specifically for this product. Information given is for specific sensitive (aquatic) species in fresh and salt water.
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**Mobility:**

Liquid that floats on water and solubilizes rapidly. If it comes in contact with soil will percolate at the same rate as H<sub>2</sub>O and will biodegrade rapidly.

**Persistence | Degradability:**

Product completely biodegrades in water or soil environments and will not persist. 100% biodegradable as testing has confirmed

**Bioaccumulation:**

None

**Ecotoxicity:  
US EAP**

100% soluble.

**LC50 Brine shrimp:** >1,900 mg/l up to 10,000 mg/l.

**LC50 Fundulus Heterocletus**  
96 hour: 5,258 mg/l.

**Environment Canada**

**LC50 Rainbow Trout:**10,000 mg/l.

**OSEI with the city of Plano, TX**

**LC50 Fathead Minnows**  
(Pimephale promelas): 9,300 mg/l.

**Australia NATA test results:**

**IC10 (milky oyster,**  
Saccostrea echinata): 11.0  
(10.0-11.9)mg/l/48h

**EC50 (milky oyster,**  
Saccostrea echinata): 16.5  
(16.0-17.1)mg/l/48h

**NOEC (milky oyster,**  
Saccostrea echinata):  
10.0mg/l

**LOEC (milky oyster,**  
Saccostrea echinata):  
20.0mg/l

**EC10 (mussel, Mytilus**  
galloprovincialis):  
>20.0mg/l/72h

**EC50 (mussel, Mytilus**  
galloprovincialis):  
>20.0mg/l/72h

**NOEC (mussel, Mytilus**  
galloprovincialis):  
20.0mg/l

**LOEC (mussel, Mytilus**  
galloprovincialis):  
>20.0mg/l



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**13. DISPOSAL CONSIDERATIONS**

Waste Disposal:	No special disposal.
Product Disposal:	No special disposal.
Container Disposal:	No special disposal.
Local Legislation:	Not applicable.

**14. TRANSPORT INFORMATION**

Not dangerous for conveyance under UN, IMO, ADRIRID.

Marine Transport (IMO/IMDG): Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**IMDG Marine** No

**15. REGULATORY INFORMATION**

EC Classification:	Not Known.
EC Symbols:	Not Known.
EC Risk Phrases:	Not Known.
EINECS (EC):	Not Known.
TSCA (USA):	
Other Information:	US DOT class 55 Non-hazardous
Dangerous Constituents:	None.

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## 16. OTHER INFORMATION

Only bioremediation product successfully used to permanently remove oil on U.S. navigable waters under U.S. EPA Government observation.

### Government approvals or approved listings:

US EPA NCP # B53,  
New Zealand EPA SOS # 1001797,  
Australia #OBA  
Oil Spill Control agent Greek registration  
ID no:17554  
Gulf States MEMAC approval Ref:337/12-  
RHD,  
Philippine accreditation #PCG-14-06-112  
Nigeria NOSDRA cert: 189,  
Mexico Coatzacoalcos. Ver., a 30 de Julio de  
2014,  
Israel approval,  
UK approval #ODA 241/2015 ,  
Trinidad and Tobago approval#  
MEEA:12.1.5 Vol. XXXXII, South Korea cert  
no: S-007

### Uses and Restrictions:

Bioremediation product that converts hydrocarbons, chlorinated hydrocarbons, & most organic based material or waste to CO<sub>2</sub> and H<sub>2</sub>O.

### Technical Contact Point:

Steven Pedigo

### Technical Contact Number:

+1 (972) 669-3390

### Fax Number:

+1 (469) 241-0896

### E-Mail:

[oseicorp@msn.com](mailto:oseicorp@msn.com)

### SDS History:

Not Applicable

### Revisions Highlighted

None.

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***Last Revision of SDS Literature References***

SDS Created: June 2015

**Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.**

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals. ...End Of MSDS...

## SAFETY DATA SHEET

WETSTRIP

Page: 1

Compilation date: 06/06/2018

Revision date: 30/08/2018

Revision No: 2

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: WETSTRIP

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Cleaning product for professional use.

#### 1.3. Details of the supplier of the safety data sheet

Company name: Greyland Ltd  
Unit 9  
Fifth Avenue  
Tameside Park Industrial Estate  
Dukinfield  
Cheshire  
SK16 4PP  
Tel: +44 (0) 161 343 3830  
Fax: +44 (0) 161 343 0608  
Email: sales@greyland.co.uk

#### 1.4. Emergency telephone number

Emergency tel: +44 (0) 161 343 3830 (Mon - Fri 8:00am - 4:00pm)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319

Most important adverse effects: Causes serious eye irritation.

#### 2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation.

Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning

Precautionary statements: P264: Wash hands, forearms and face thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

# SAFETY DATA SHEET

WETSTRIP

Page: 2

contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

SODIUM LAURETH SULFATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
500-234-8	68891-38-3	-	Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315	1-10%

ALCOHOLS, C9-11, ETHOXYLATED

614-482-0	68439-46-3	-	Acute Tox. 4: H302; Eye Dam. 1: H318	<1%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water.

**Inhalation:** Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

[cont...]

# SAFETY DATA SHEET

WETSTRIP

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## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Not required for normal conditions of use.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses are not normally required. However their use is recommended where there is a risk of spray mist or splashing when using or handling product.

**Skin protection:** Wear appropriate clothing to prevent any possibility of skin contact.

[cont...]



# SAFETY DATA SHEET

WETSTRIP

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## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Pink

**Odour:** Characteristic odour

**Viscosity:** Non-viscous

**pH:** 11

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

#### ALCOHOLS, C9-11, ETHOXYLATED

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>300 - <2000	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

[cont...]

# SAFETY DATA SHEET

WETSTRIP

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**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

## Section 12: Ecological information

### 12.1. Toxicity

**Hazardous ingredients:**

**ALCOHOLS, C9-11, ETHOXYLATED**

FISH	96H LC50	1-10	mg/l
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### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

# SAFETY DATA SHEET

WETSTRIP

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## Section 16: Other information

### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.

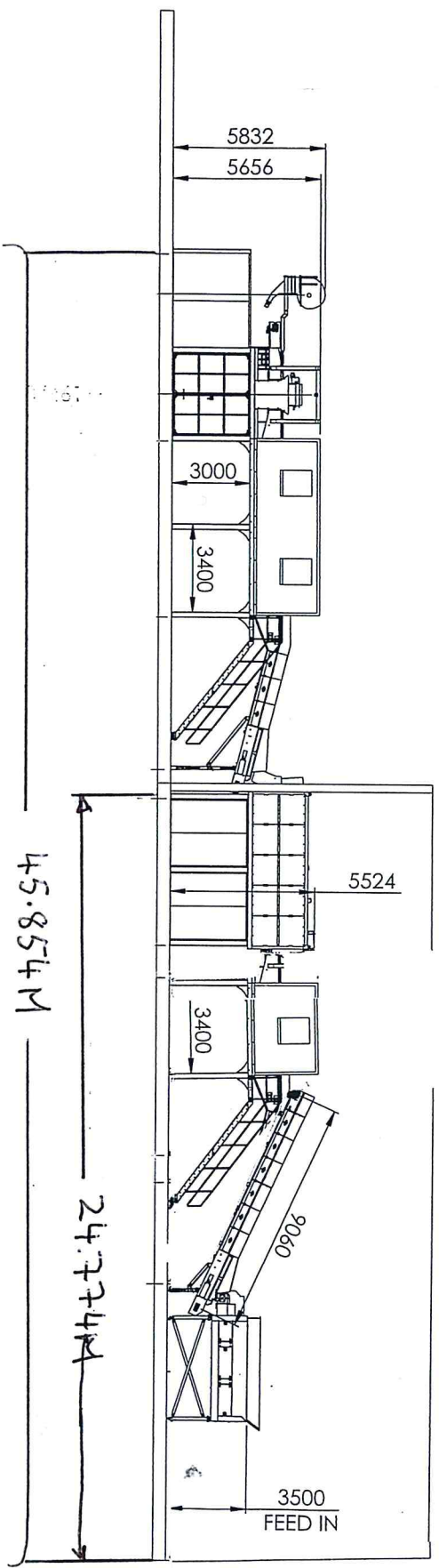
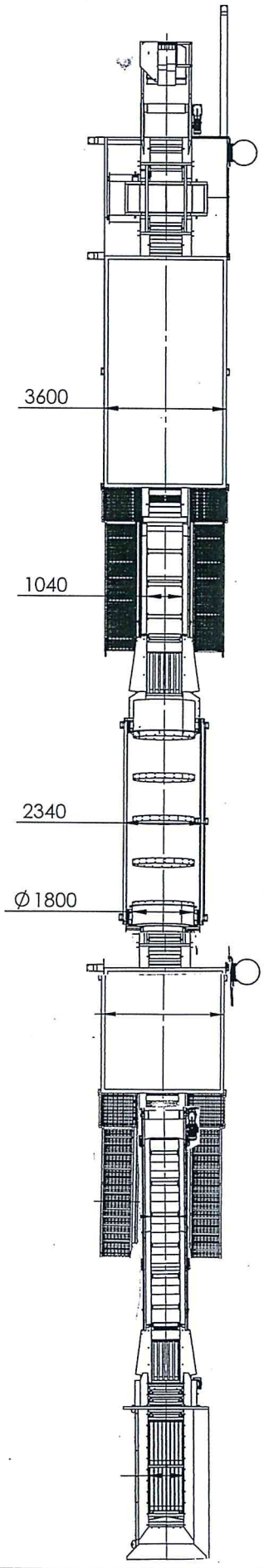
H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



Rev No.	1	2	3	4	5
Change Description					
ECO No.					
Date					
<p>REMOVE ALL BURRS AND SHARP EDGES UNLESS OTHERWISE SPECIFIED:          TOLERANCES (SEE EN 22769-1)          FABRICATION TOLERANCES:          LINEAR DIMENSIONS 100 TO 1000: ±1          LINEAR DIMENSIONS 1000 TO 10000: ±0.05          LINEAR DIMENSIONS OVER 10000: ±0.1          MACHINING TOLERANCES:          LINEAR DIMENSIONS 100 TO 1000: ±0.05          LINEAR DIMENSIONS 1000 TO 10000: ±0.1          LINEAR DIMENSIONS OVER 10000: ±0.15          DIAMETERS OVER 150: ±0.4</p>					
<p>TITLE: 294-S01          FINISH:          WEIGHT: 760997.88 kg          MODELED BY: D.DUFFY          DRAWN BY: D.DUFFY          DATE: 03/02/2017          DWG NO.: 294-S01          REVISION NO.: 0</p>					
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