Chris Staniowski
Manning Elliot Partnership
Langlands,
Pallet Hill
Penrith, Cumbria
CA11 0BY

Date: 19.06.2024
Project No: GEO2024-6332
Project Name: Cleator Mills, Cumbria
Project Title: Contamination Validation Report

Dear Chris,

Introduction

Geo Environmental Engineering Ltd (GEO) were commissioned by the Consultant, Manning Elliot Partnership, on behalf of the Client, Genr8 North Ltd to carry out validation inspections and reporting for remediation works which has been completed on land at Cleator Mills in Cleator Moor, Cumbria A site location plan is attached.

It is understood that the site is being developed as a Speedy Hire Plant Depot.

Previous Reporting Details and Summary

GEO have previously completed the following reports for the site which should be read in conjunction:

- Phase 1: Desk Top Study (Preliminary Environmental Risk Assessment), ref: 2023-5775, dated: 26.05.2023.
- Phase 2: Ground Investigation Report, ref: 2023-5775, dated 22.06.2023.
- Supplementary Ground Investigation and Remediation Strategy, ref: 2024-6332, dated: 23.05.2024.

The ground investigation encountered made ground on site to depths of between c.0.45m and c.0.80m bgl. The made ground was typically granular and comprised occasional fused slag, silty sandy gravel of aggregate with occasional brick, glass, metal, plastic, clinker, timber, asphalt and ash with pockets of reworked gravelly clay. Evidence of minor hydrocarbon contamination (slight odour) was encountered within the made ground in the north western part of the site. No evidence of organic contamination was noted elsewhere.

Laboratory screening of made ground samples indicated low concentrations of organic and inorganic contaminants and no significant risks were identified with respect to human health. The report recommended removal of any soils impacted by hydrocarbon (petroleum) contamination as good practice to protect the workforce and the wider environment.

A piece of board containing Amosite and Chrysotile was detected within the shallow granular made ground in the western part of the site. It is likely that the source of the asbestos board was the roof materials from the former building. Loose asbestos fibres were not detected. The report included the following comment regarding asbestos contamination on the site:

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North East:
Office 16, The Eagle Building, 201 High Street East, Sunderland, SR1 2AX
Telephone: 07883 440 186
Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

"care should be taken to ensure that ACMs are not exposed at the surface or disturbed where they could become airborne and inhaled. Where the ACM materials (board) are buried at depth, the risk is considered negligible to the end user. Basic protection measures may be required ensure that the future end users (human health) are not put at risk, and the Principal Contractor should ensure that their health and Safety Management plan takes into account the presence of possible asbestos board in the made ground to maintain the safety of site operatives."

Supplementary investigations were completed in May 2024 to investigate the area to the west of the building where hydrocarbon contamination and asbestos was encountered. The investigation comprised trial pits and surface sampling. The investigation encountered made ground to a maximum depth of c.0.62m bgl which comprised gravel of aggregate, brick and concrete with occasional pockets of reworked clay. This was underlain by natural soils comprising red brown sandy gravel and cobbles.

No evidence of hydrocarbon contamination was encountered in any of the trial pits. Chemical screening confirmed very low levels of organic compounds and the risk to end users and possible environmental receptors from hydrocarbon contamination in this area was dismissed.

Visual inspection of the surface soils by the GEO engineer and the site operatives identified 4 No. fragments of suspected asbestos board at the surface (these were provided the PC for appropriate disposal). Sampling of the surface deposits confirmed the presence of chrysotile asbestos fibre bundles and occasional microscopic insulation.

The report indicated a potential risk to human health from asbestos fibres within the shallow made ground where there is a potential for inhalation of dust. Remediation was recommended to mitigate these risks. The report recommended that:

'Given the proposed end use, encapsulating the fibres within the ground and capping it beneath hard standing (concrete) may be the safest and most appropriate form of remediation. This will break the pathway and mitigate the risks to human health. As such, it is recommended that where granular made ground is present across the western part of the site, it is fully encapsulated beneath concrete. A membrane or imported sub-base should be employed to prevent the concrete mixing with the underlying granular made ground during pouring.'

'Some made ground may need to be excavated to accommodate the required levels. Excess soils should be disposed of appropriately to a suitable facility that is accredited to accept soils impacted by asbestos wastes. None of the made ground should be left exposed at the surface.'

'Dust suppression techniques should be employed during any earthworks and the materials should not be crushed as this could release asbestos fibres into the air. The principal Contractor should be made aware that the materials in this part of the site have tested positive for asbestos fibres so that they can accommodate this in their risk assessments and method statements to mitigate the risks to their staff and sub-contractors.'

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Validation of Remediation Works

GEO attended site on the 3rd June 2024 to inspect the ground along the western part of the site where asbestos contamination had previously been identified. The made ground had been capped by concrete hardstand with a perimeter of compacted crushed quarry stone. The Site Manager confirmed that a plastic membrane had been installed throughout this part of the site prior to installing the hardstand to prevent intermixing with the underlaying materials. It is understood that the compacted gravel will be capped with additional imported quarry stone to 'dress' the site perimeter. Photographs of the concrete and gravel hardstand are attached to this report.

It is understood that site levels were reduced in order to accommodate the concrete and gravel hardstand. The soils were disposed of to an appropriate landfill. Waste transfer consignment notes are attached to confirm appropriate waste disposal compliance.

GEO consider that the remediation works have been completed to a satisfactory standard and that the risk to the end user from possible inhalation of dust has been negated. There are no buried utilities passing through this part of the site and, therefore, no risk to future utility workers.

General Comments

Consideration must be made for variations to occur in the ground conditions between the exploratory hole locations for which GEO holds no responsibility. It is therefore recommended that a "watching brief" be applied to ensure that if ground conditions vary from those identified during this investigation then advice should be sought from a suitably qualified and experienced Geo-Environmental Engineer.

The recommendations and opinions expressed in this report are based on the ground conditions observed. Consequently, GEO takes no responsibility for conditions that have not been revealed or which occur between them.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate regulatory authorities and/ or other key stakeholders, including warranty providers in order to seek their approval of the findings prior to undertaking any site works or development on site.

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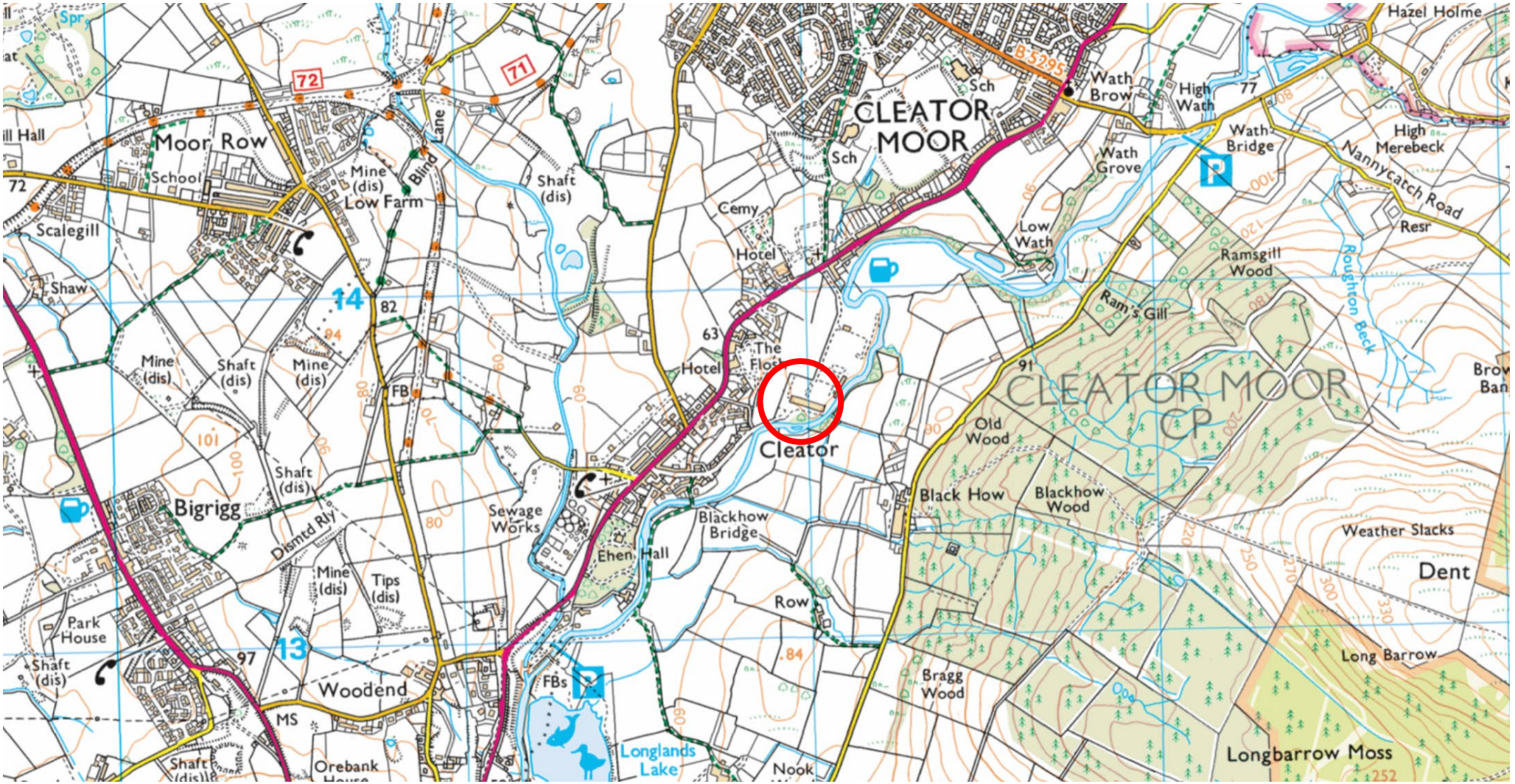
If there are any queries, please do not hesitate to contact Geo-Environmental Engineering Ltd.

Yours Faithfully

James Brock *BSc (Hons), MSc*
Associate - Geo Environmental Engineering Ltd
Mob: 07557 446 043

GEO Environmental Engineering

GEO2024-6332: Land at Cleator Mills, Cumbria – Site Location



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GEO2024-6332: Land at Cleator Mills, Cumbria – Remediation Area

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GEO2024-6332: Land at Cleator Mills, Cumbria – Validation Photographs

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FCC Environment

6 Sidings Court
White Rose Way
Doncaster
DN4 5NU
Tel: 01302303030
Fax: 01302303092

Customer
Provectus Soils Management Limited
Regent House
Bath Avenue
Wolverhampton
West MIdlands
WV1 4EG

Customer Account Number DPROV2
Customer Order Number
Waste Carrier's Reg No CBDU366668

Site
Edwin Richards Soil Treatment - Tel:

Ticket No 31965513
Enquiry No 2243013
Site No 2045
Landfill Tax Not Applicable
Vehicle Reg YS64MTZ
Round Number
Transfer Note CLEACA/27962
Source Trade

Waste Description
170605*Haz soils& stones c/w bonded asbest
os Cleator Mills Business Park Cleator Mil
lsCleatorCA23 3F

Comments
Replacement for 31962899, Wrong DW.

Time	Tally	Weight(kg)
11-Jun-2024 14:40:20		18200
11-Jun-2024 14:40:32		12560
Nett Weight		5640

VAT No.: 637 8808 92
LFT No.: 01675 2920 15000
Operator's Signature

Ticket 31965513 - 11-Jun-2024 14:42

Driver's Signature

Ticket 31965513 - 11-Jun-2024 14:42

It is the driver's responsibility to ensur
e that the details on this ticket are corr
ect.

us Waste Regulations 2005:
onsignment Note

S COPY *(Delete as appropriate)* - YELLOW: CARRIER'S COPY - BLUE: CONSIGNEE'S COPY

me, address,

3. The Waste will be taken to *(name, address, postcode)*:
Provectus Soil Treatment Facility
Portway Road
Rowley Regis B65 9DS B65 9DN

4. The waste producer was (if ~~different from 2)~~ *(name, address, postcode, telephone, email, fax.)*:
N/A
Waste Recycling Group (Central) Ltd
Edwin Richards Quarry
Portway Road - Rowley Regis
West Midlands - B65 9BT
Soil Treatment Facility
Permit Number - EPR HP3632RP

if continuation sheet used, tick here ☐

2. SIC code (2007) for the process giving rise to the waste: 41 . 20 / 1

ollected all the information given below must be completed for each EWC identified)

emical/biological components are in waste and their concentration are:		Physical form *(gas, liquid, solid, powder, sludge, mixed)*	Hazard code(s)	Container type, number & size
COMPONENT	CONCENTRATION % or mg/kg			
Soska	2%	Sol.cl	HP5 HP7	Bulk tipping

EWC) code identified

shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements

Part D: Consignor's Certificate

subsequent carriers.

s in part A2, A3 and B3
uirements. Where this
d collection number are:
/

I certify that the information in part A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advise of any special handling requirements.

I confirm I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1. Consignor Name:

On behalf of *(name, address, postcode, telephone, email, fax.)*:
Eskdale Environmental Services Ltd
Pacific House Business Centre Fletcher
Way Carlisle Cumbria CA3 0JS
07745164

Signature:

Date D D M M Y Y Y Y Time H H M M

H H M

n one waste type is collected all of the information given below is to be completed for each EWC code)

received Kg	EWC code accepted/rejected	Waste management operation (R or D code)
	Acc	D09

Date D D M M Y Y Y Y Time H H M M

S64 MTZ

Name:

On behalf of *(name, address, postcode, telephone, email, fax.)*:

ber

3 at the address
ultiple collection

Provectus Remediation Ltd
Edwin Richards Quarry, Portway Road,
Rowley Regis, Birmingham, B65 9DN

Signature:

Date D D M M Y Y Y Y Time H H M M

us Waste Regulations 2005: Consignment Note

WHITE: PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY *(Delete as appropriate)* - YELLOW: CARRIER'S COPY - BLUE: CONSIGNEE'S COPY

Part A: Notification Details

1. Consignment Note Code: CLEACA / 27962

2. The waste described below is to be removed from *(name, address, postcode, telephone, email, fax.)*:

3. The Waste will be taken to *(name, address, postcode)*:
Provectus Soil Treatment Facility
Portway Road
Rowley Regis B65 9DS B659DN

4. The waste producer was (if different from 2) *(name, address, postcode, telephone, email, fax.)*: N/A
Waste Recycling Group (Central) Ltd
Edwin Richards Quarry
Portway Road - Rowley Regis
West Midlands - B65 9BT
Soil Treatment Facility
Permit Number - EPR HP3632RP

Part B: Description of Waste

if continuation sheet used, tick here ☐

1. The process giving rise to the waste(s) was:

2. SIC code (2007) for the process giving rise to the waste: 41.20/1

3. Waste Details: (where more than one waste type is collected all the information given below must be completed for each EWC identified)

Description of waste	List of Wastes EWC code (6 digits)	QTY Kg	Chemical/biological components are in the waste and their concentration are: COMPONENT	CONCENTRATION % or mg/kg	Physical form *(gas, liquid, solid, powder, sludge, mixed)*	Hazard code(s)	Container type, number & size
Contaminated	170605	5640	Asbestos	2%	Solid	HP5 HP7	Bulk tipper lorry

The information given below is to be completed for each (EWC) code identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements

Part C: Carrier's Certificate

(If more than one carrier is used please attach schedule for subsequent carriers. If schedule of carriers is attached tick here ☐)

I certify that I today collected the consignment and that the details in part A2, A3 and B3 are correct and I have been advised of any specific handling requirements. Where this note comprises part of a multiple collection the round number and collection number are: /

1. Carrier Name:

On behalf of *(name, address, postcode, telephone, email, fax.)*:
BAF Contracting Ltd Clifton Mills
Clifton Cumbria CA10 3FA

2. Carrier Registration No./Reason for exemption:
CBDU36668

3. Vehicle Registration No. (or mode of transport if not road):

Signature:

Date DD/MM/YYYY Time HH:MM

Part D: Consignor's Certificate

I certify that the information in part A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advise of any special handling requirements.

I confirm I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1. Consignor Name:

On behalf of *(name, address, postcode, telephone, email, fax.)*:
Eskdale Environmental Services Ltd
Pacific House Business Centre Fletcher
Way Carlisle Cumbria CA2 7LJ

Signature:

Date DD/MM/YYYY Time HH:MM

Part E: Consignee's Certificate

(where more than one waste type is collected all of the information given below is to be completed for each EWC code)

Individual EWC code(s) received	Quantity of each EWC code received Kg	EWC code accepted/rejected	Waste management operation (R or D code)
170605	5640	Acc	D09

1. I received this waste at the address given in A3 on: Date DD/MM/YYYY Time HH:MM

2. Vehicle Registration No. (or mode of transport if not road):

3. Where waste is rejected please give details:

Name: T. Cooper

On behalf of *(name, address, postcode, telephone, email, fax.)*:
Provectus Remediation Ltd
Edwin Richards Quarry, Portway Road,
Rowley Regis, Birmingham, B65 9DS

I certify that waste permit/exempt waste operation number HP 36 32 RP authorises the management of the waste described in B at the address given in A3. Where the consignment forms part of a multiple collection as identified in part C, I certify that the total number of consignments forming the collection is:

Signature:

Date DD/MM/YYYY Time HH:MM

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Consultants
&
Drilling Experts

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