



Our Ref: B20947

Your Ref: 2016/90939

Chkd: SWE

Date: 11th August 2016

Martin Wood
Senior Environmental Health Officer
Kirklees Council – Environmental Health
Flint Street Depot
Flint Street
Huddersfield

Dear Martin

Re: Commercial Street, Slaithwaite, Amendment to the Remediation Strategy

I refer to your email dated 1st July 2016 and our recent telephone conversation.

We propose to address your comments by slightly amending the remediation strategy as follows:

1. Comment - Benzo(a)anthracene, Benzo(a)pyrene and Dibenzo(ah)anthracene exceedences.

Elevated concentrations of the three PAHs were noted in three locations across the site. Two were those already identified as 'hotspots' and listed for remediation. The third was TP5 which was slightly north of the area to be remediated. It is proposed to extend the area to be remediated to cover this additional hotspot, as shown in the attached figure.

The developer has indicated that they will be remediating the site by covering the areas affected, that will ultimately be gardens, with clean material, as recommended in the Remediation Strategy report dated February 2016. We also note your requirement for a geotextile layer to be placed at the base of the clean fill material.

2. Comment – consideration of the vapour pathways with regards to PAHs.

The only PAH which is normally volatile is naphthalene. The only areas where there was slightly elevated naphthalene were the hotspots previously identified (TP2 and WS1). Furthermore, both the results are from shallow samples, with the analysis undertaken nine years ago. Degradation is likely to have occurred reducing the concentrations in the intervening period.

Members

Stuart W Evans senior partner
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Registered Office:
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We have obtained additional near surface samples (0.1 – 0.3m bgl) from these areas and submitted these for naphthalene analysis to confirm that the naphthalene concentrations have declined to acceptable levels (as indicated in the Remediation Strategy report). The concentrations in both samples are less than the screening value used in the Phase 2 Geo-environmental Study (Ref. B20947/PH3 dated 10 February 2016) and we therefore conclude that remediation to address the risk from naphthalene vapours is not required. The laboratory testing certificate is attached for information. The sampling locations are as indicated on the attached remediation plan.

We trust that these amendments address your comments. Unless we receive further comments, we will proceed with the site remediation and submit a verification report once the works have been completed.

Yours sincerely

Sarah Longstaff
Hydrogeologist

Enc: Amended indicative excavation areas figure.
Laboratory certificate

Revised indicative excavation areas





Certificate of Analysis

Certificate Number 16-74949

05-Aug-16

Client JNP Group
Woodvale House
Woodvale Road
Brighouse
West Yorkshire
HD6 4AB

Our Reference 16-74949

Client Reference (not supplied)

Order No (not supplied)

Contract Title Commercial St, Whitworth

Description 2 Soil samples.

Date Received 03-Aug-16

Date Started 03-Aug-16

Date Completed 05-Aug-16

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Rob Brown
Business Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 16-74949

Client Ref

Contract Title Commercial St, Whitworth

Lab No	1033336	1033337
Sample ID	TP2	WS1
Depth		
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	24/07/16	24/07/16
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	0.5	< 0.1

Information in Support of the Analytical Results

Our Ref 16-74949

Client Ref

Contract Commercial St, Whitworth

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1033336	TP2 SOIL	24/07/16	GJ 250ml x2		
1033337	WS1 SOIL	24/07/16	GJ 250ml x2		

Key: G-Glass J-Jar

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months