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client details:

PRO-CONSTRUCTION LIMITED
4 MOUNTBATTEN PLACE
ROSYTH, KY11 2HL

project title:	GREYRIGGS CALIFORNIA, FALKIRK	drawing title:	EXTRACT FROM PUBLISHED GEOLOGICAL SURVEY MAP (DRIFT LITHOLOGY)
project no:	G2012/356	date:	09.05.13
drawing no:	G2012/356/S1/R/P/04	drawn by:	PM
revision:		approved by:	
		scale:	1:10,000

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10 Metres

91

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4 MOUNTBATTEN PLACE

ROSYTH, KY11 2HL

drawing title: EXTRACT FROM PUBLISHED
GEOLOGICAL SURVEY MAP (DRIFT THICKNESS)

project no: G2012/356	drawing no: G2012/356/S18/F/05	revision:	date: 09-05-13	drawn by: ZL	approved by:	scale: 1:10,000
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Contaminant Source	<ul style="list-style-type: none"> ▪ Possible unrecorded made ground.
Receptors	<ul style="list-style-type: none"> ▪ Site users. ▪ The Water Environment. ▪ Construction Materials
Pathways	<ul style="list-style-type: none"> ▪ Ingestion. ▪ Control. ▪ Inhalation. ▪ Permeation of Pipework.

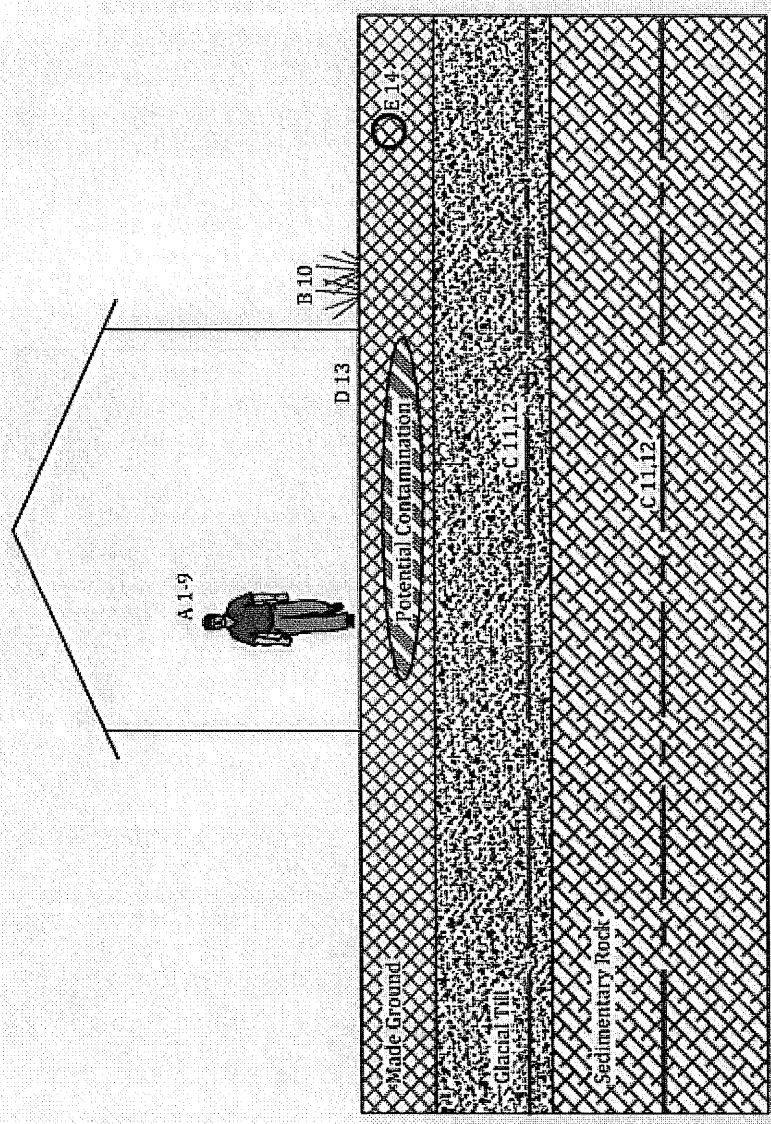
- 2.4.2 The potential source-receptor-pathway linkages identified for the sites are illustrated in Drawing No G2012/356/SI/R/F/07. Site investigations were required to confirm or otherwise the existence of such linkages in addition to providing further confirmation of the geological and geotechnical conditions.

NOTES		REV		DATE	DETAILS
PROJECT TITLE PRO-CONSTRUCTION LIMITED 4 MOUNTBATTEN PLACE ROSYTH KY11 2HL					
PROJECT TITLE GREYRIGGS CALIFORNIA, FALKIRK					
DRAWING TITLE PRELIMINARY CONCEPTUAL SITE MODEL					
DRAWN BY PM	CHECKED BY	DATE 09.05.13	SCALE Not to Scale	REVISION	
PROJECT No. G2012/1166	DRAWING No. G2012/356/5/16/1/07				

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production using AutoCAD 2012



Potential Receptors

- A. Site users / construction personnel.
- B. Vegetation / fauna.
- C. Groundwater / surface water.
- D. Buried concrete (Service and foundations)
- E. Plastic water supply pipes.

Potential Exposure Pathways

1. Outdoor ingestion of dust.
2. Indoor ingestion of dust.
3. Skin contact with outdoor soil.
4. Skin contact with indoor dust.
5. Outdoor inhalation of dust.
6. Indoor inhalation of dust.
7. Outdoor inhalation of soil vapour.
8. Indoor inhalation of soil vapour.
9. Inhalation of ground gases.
10. Contaminant uptake by vegetation.
11. Leaching of contaminants to the groundwater.
12. Contaminant migration in the groundwater.
13. Detrimental effects on buried concrete.
14. Permeation of plastic water supply pipes.

Potential Source

- Made ground.

3.0 SITE INVESTIGATIONS

3.1 GENERAL

3.1.1 The scope and location of the works was determined by us where access permitted. As no present contaminative usage of the site was identified, the sampling was non-targeted in relation to geo-environmental matters. Site works were implemented generally in accordance with BS10175:2011 and Eurocode 7.

3.1.2 The following investigation works were implemented:

Trial Pits	8 No. trial excavations utilising mechanical excavator, extended to up to 2 m to 3m depth and logged by an MEP geologist.
Percussive Boreholes	3 No. percussive boreholes up to 2.8 m depth drilled by Aitken Laboratories Limited
Rotary Boreholes	4 No rotary boreholes drilled by G B Land Engineering Limited to up to 36 m.
Chemical Testing	4 No. samples of soil tested for a comprehensive range of potential contaminants. 2 No UKWIR analyses.
Geotechnical Testing	pH and sulphate analysis

3.1.3 The locations of the investigative works are indicated on Drawing No G2012/356/51/RJF/08 and records of the exploratory holes are included in Appendix 4.

3.2 INVESTIGATION RATIONALE

3.2.1 Our intrusive investigation has sought to be generally compliant with BS 10175:2011. We have implemented the following site practices:

- The drilling works have been undertaken by a suitably accredited sub-contractor for the provision of drilling services;
- The geological succession at each trial pit location has been logged by an experienced field specialist and samples taken for laboratory analysis together with a visual assessment made of geological character and potential contaminant impact if present. Soil samples have predominantly been taken at approximately 0.5 m intervals, or at a change in lithology, or where evidence of potential contamination impact is observed.