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29th October 2021

Reference: A11580/211018/L1

Jonathan Wilson
Highwood Group Limited
The Hay Barn
Upper Ashfield Farm
Hoe Lane
Romsey
SO51 9HJ

By Email j.wilson@highwoodgroup.co.uk

RE: CCRC Stoneham, Park Farm, Stoneham Park – Geo-Environmental Consultancy Support

Dear Jonathan,

Please find attached the Omnia report, reference: A11580/211018/L1, detailing the results of the stockpile sampling which was undertaken at the above site.

If you have any questions, please do not hesitate to contact us.

Yours sincerely,

Archie Bunney BSc (Hons) MSc FGS
Graduate Geo-environmental Consultant

Grace Larcombe
Senior Geo-environmental Consultant

Attachments:

- Attachment 1: Limitations
- Attachment 2: Drawings
- Attachment 3: Stockpile Sampling Records
- Attachment 4: Photographs
- Attachment 5: Laboratory Testing Results
- Attachment 6: HazWaste Online Certificates

INTERPRETATIVE REPORT

Site Address	Park Farm, Stoneham Park, Eastleigh, Hampshire, SO50 9RU
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1.0 Objectives & Terms of Reference

The objective of this report is to characterise the soils present within three (3no.) stockpiles at the above site, all of which are intended for disposal at an appropriately licenced waste facility. Classification of the stockpiles will be undertaken through on-site observations and the chemical analysis of soil sampling. These results will be assessed against Waste Acceptance Criteria (WAC) and analysed using HazWaste Online to determine the type of landfill in which they can be disposed, as well as their classification under European Waste Codes; as established within Omnia proposal A11580/210326/L1.

2.0 Background

Omnia were commissioned by Highwood Group Limited to provide geo-environmental consultancy support on Park Farm, an undeveloped area within their Stoneham Park development. The site currently comprises former farm buildings (including a coach house which suffered an arson attack), associated hardstanding, dense vegetation, and three (3no.) soil stockpiles. The site is currently used for materials storage by construction workers on the wider Stoneham Park development. A site location map is included in Attachment 2 as Figure 1.0.

The proposed end use of the site will be care village apartments on the west of the site within a number of 2.5 storey accommodation blocks with communal gardens alongside refurbishment of an existing Coach House and development of a care home to the east. The care home will have areas of terraced, communal facilities and fifty-three (53no.) apartments. Externally, areas of hard landscaping including pavements, access roads, and parking are proposed. The area of soft landscaping will comprise communal open space, without any private domestic gardens. The proposed site layout is included in Attachment 2 as Figure 2.0.

The site has been subject to a series of ground investigations as detailed in the report entitled, '*Main Investigation Report at Stoneham Continuing Care Retirement Community, Stoneham, Eastleigh, Hampshire SO50 9HS*', ref 17624/MIR Rev I.02_R27. This report identified the presence of Made Ground which contained elevated concentrations of PAHs and positive asbestos results across the western and central site areas, as well as in the two (2no.) stockpiles which are identified as SP1 and SP2 in this report. As the Made Ground present across the majority of the site extended to 0.30-0.50m bgl, the report suggested that a site strip to 300mm bgl across the site would remove most of the contaminant exceedances and all of the positive asbestos results.

The report also highlighted that an area of Made Ground was present on the southern central area of the site, where darker soils were recorded in an area of 3-4m radius and a depth of at least 1.70m below the then-current ground level. Although the report stated that this Made Ground was not contaminated in the context of the proposed development, the Made Ground may pose a geotechnical hazard.

As established in the email from J. Wilson to T. Mitchell dated 15th March, and as detailed within Omnia's proposal (A11580/210326/L1), geo-environmental consultancy support will be provided in multiple stages. The current stage of works, referred to as Stage 1 in the Omnia proposal, relates to the requirements set out within the document entitled '*Remediation Requirements, Conditions of Sale*' dated 31st May by Meedhurst Project Management; Stage 2 relates to the build contract, which will be investigated at a later date.

Stage 1 primarily concerns the characterisation of soils present within the three (3no.) stockpiles at locations 1, 2, and 5, identified within the Meedhurst Project Management document, through a combination of HazWaste assessments and WAC testing. This assessment is required in order to fulfil the requirements determined in Item 1.0 of the Meedhurst Project Management document concerning the removal and disposal of spoil heaps.

3.0 Scope of work

The scope of work comprised one (1no.) day of trial pitting utilising a mechanical excavator to obtain composite soil samples from the stockpiles at Locations 1, 2, and 5 (SP1, SP2, and SP5 respectively).

These soil samples were then subjected to Waste Acceptance Criteria Testing and analysed using HazWasteOnline to determine the type of landfill in which they can be disposed and be classified according to European Waste Codes.

4.0 Site Work and Observations

4.1 Site Visit - 30/09/2021

A site visit was undertaken on 30/09/2021 by a consultant from Omnia to obtain soil samples from each of the three (3no.) stockpiles at SP1, SP2, and SP5. A plan showing the locations of these stockpiles is included within Attachment 2 as Figure 3.0.

The stockpiles were sub-divided into areas for sampling to better constrain suitability for off-site disposal. Each area represented a vertical segment of the stockpile, from the top down to ground level. These areas are shown on the three (3no.) schematic diagrams included in the Stockpile Sampling Records, which are presented as Attachment 3.

To obtain samples representative of each stockpile area's entire thickness, each area was dug into by a mechanical excavator from the stockpile surface, after any overlying vegetation and other obstructions had been removed. A composite sample was taken for each stockpile area.

Additional representative soil samples were obtained from the intersections between the areas of each stockpile which were scheduled to WAC Testing. The locations of which, are shown in the Stockpile Sampling Records, which are presented as Attachment 3.

4.2 Ground Conditions Encountered

As the soil within the three (3no.) stockpiles was placed on-site, it is by definition Made Ground. The specific anthropogenic constituents of the soil within each stockpile area were highly variable and are detailed on the Stockpile Sampling Records, which presented as Attachment 3.

The general description of the Made Ground found in each stockpile is as follows:

- **SP1:** Light brownish grey to dark greyish brown, slightly clayey, very gravelly, fine to coarse SAND with low cobble content and with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. Cobbles are sub-rounded concrete.
- **SP2:** Light greyish brown to dark greyish brown, slightly clayey, very gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, plastic, concrete, and wood. Cobbles are sub-rounded flint and angular to sub-angular brick and concrete; and

- **SP5:** Dark brownish grey with lenses of brownish orange (occasional) and black (rare), gravelly fine to coarse SAND with occasional organic matter.

Photographs of the stockpiles and their surroundings are presented as Attachment 4.

5.0 Laboratory Analysis

The seventeen (17no.) composite soil samples, one for each stockpile area, were sent for laboratory analysis. The soil samples were submitted for testing to Element Materials Technology under UKAS accreditation, for analysis comprising:

- CLEA metals;
- Asbestos fibres in soil;
- Banded Polycyclic Aromatic Hydrocarbons (PAHs);
- Banded Total Petroleum Hydrocarbons (TPHs);
- Total Cyanide;
- Total Organic Carbon;
- pH; and
- Phenols

Six (6no.) soil samples were also sent for WAC testing, as discussed in Section 4.1 above and Section 6.1 below.

Laboratory results are presented as Attachment 5.

6.0 Waste Classification

6.1 Waste Acceptance Criteria

A total of six (6no.) soil samples were collected from across the three (3no.) stockpiles and scheduled for WAC testing for disposal in landfill. The results of the laboratory testing are summarised in Table 6-1 below, with certificates presented as part of the laboratory results which are presented within Attachment 5.

Table 6-1 - Summary of Waste Acceptance Criteria Testing

Sample Location	Classification	Exceedances
SP1 – WAC 1	Hazardous	Loss on Ignition
SP1 – WAC 2	Hazardous	Loss on Ignition
SP1 – WAC 3	Hazardous	Loss on Ignition
SP2 – WAC 1	Hazardous	Loss on Ignition
SP2 – WAC 2	Hazardous	Loss on Ignition
SP5 – WAC 1	Stable non-reactive Hazardous Waste in Non-Hazardous Landfill	Total Organic Carbon

Omnia have provided an anticipated Waste Classification of soil derived from values presented within the laboratory results. However, the acceptance criteria for materials are dependent on the licence held by the individual landfill site. As a result, waste suitability may vary between landfill sites, and it is therefore recommended that the test results are submitted to the preferred waste disposal site.

6.2 HazWaste Classification

To determine whether any of the 17 (17no.) composite samples displayed hazardous properties which would require the soils to be disposed in a Hazardous Landfill, the samples were analysed using “HazWaste Online”. The results of these analyses are summarised in Table 6-2 below, with certificates presented within Attachment 6. These certificates also list the relevant European Waste Codes.

Table 6-2 – HazWaste Online Assessment Summary

Sample Identification	Classification	Exceedances
SP1 – Area 1	Hazardous	Zinc
SP1 – Area 2	Hazardous	Zinc
SP1 – Area 3	Hazardous	Zinc
SP1 – Area 4	Hazardous	Zinc TPH (C6-C40 petroleum group)
SP1 – Area 5	Non-Hazardous Presumed Hazardous	N/A This sample had No Determination Possible (NDP) as the result for metals (insufficient sample for test); where the zinc exceedance for every other SP1 area (except Area 6) was encountered.
SP1 – Area 6	Hazardous	TPH (C6-C40 petroleum group)
SP1 – Area 7	Hazardous	Zinc
SP1 – Area 8	Hazardous	Zinc
SP2 – Area 1	Non-Hazardous	N/A
SP2 – Area 2	Hazardous	TPH (C6-C40 petroleum group)
SP2 – Area 3	Hazardous	Zinc
SP2 – Area 4	Hazardous	Nickel Zinc
SP2 – Area 5	Hazardous	Zinc
SP2 – Area 6	Hazardous	Zinc
SP3 – Area 1	Hazardous	Zinc
SP3 – Area 2	Hazardous	Copper Zinc
SP3 – Area 3	Hazardous	Copper Zinc

6.3 Asbestos

As shown in the laboratory certificates presented as Attachment 5, a total of seventeen (17no.) soil samples were screened for the presence of asbestos fibres. Of these seventeen (17no.) samples, eight (8no.) samples tested positive for the presence of asbestos fibres. The eight (8no.) samples within which asbestos was detected were submitted for asbestos quantification analysis. The results of this analysis are shown in Table 6-3 below.

Table 6-3 – Summary of Asbestos quantification results

Location	Asbestos % Mass	Asbestos Type	Tier I Screening Value (0.001%) Exceeded?
SP1 – Area 1	<0.001	Chrysotile Fibre Bundles	No
SP1 – Area 2	0.002	Chrysotile Fibre Bundles	Yes
SP1 – Area 3	0.008	Chrysotile Fibre Bundles	Yes
SP1 – Area 4	0.456	Chrysotile Cement Debris	Yes
SP1 – Area 7	0.011	Chrysotile Fibre Bundles	Yes
SP1 – Area 8	0.001	Chrysotile Fibre Bundles; Chrysotile-containing Papers, Felts, and Cardboards	Yes (see below)
SP2 – Area 4	<0.001	Chrysotile Fibre Bundles	No
SP2 – Area 6	0.004	Chrysotile Fibre Bundles	Yes

Following asbestos quantification (Table 6-3) of the eight (8no.) soil samples submitted for analysis, a total of two (2no.) samples tested positive for the presence of Chrysotile fibre bundles alone, at a concentration of $\leq 0.001\%$ Chrysotile. A total of six (6no.) exceeded the adopted screening value of 0.001% for Chrysotile fibre bundles and/or ACMs and are considered to have the potential to present a significant risk to human health.

Whilst the sample from SP1 – Area 8 did not exceed the adopted screening criteria of 0.001%, the laboratory noted the presence of ACM in the form of Chrysotile-containing paper, felt, and cardboard. Although these materials were logged in soil descriptions (Attachment 3), it was not apparent from a visual inspection that they were ACMs. However, now that the laboratory analysis confirms that these materials comprise bulk ACM, the sample is now considered to exceed the adopted screening value of 0.001% for Chrysotile and are considered to have the potential to present a significant risk to human health.

Due to the presence of chrysotile asbestos at concentrations exceeding the adopted screening value of 0.001%, it is considered that soils in the vicinity of the eight (8no.) areas within SP1 and SP2 highlighted in Table 6-3 have the potential to present a significant risk to construction workers' health and off-site receptors during the pre-demolition phase (i.e. stockpile disposal) and the subsequent post-demolition construction phase.

7.0 Conclusions

Following both WAC analyses and a HazWaste Online assessment, hazardous properties have been detected within the majority of the analysed soil samples. Consequently, it is considered likely that waste can be disposed of in line with the Hazardous Waste threshold.

Omnia have provided an anticipated Waste Classification of soil derived from values presented within the laboratory results. However, the acceptance criteria for materials are dependent on the license held by the individual landfill site. As a result, waste classifications may vary between landfill sites, specifically in reference to the acceptance of asbestos. As asbestos was found within eight (8no.) of the stockpile areas, it is therefore recommended that the test results are submitted to the preferred waste disposal site for confirmation of suitability.

Due to the presence of chrysotile asbestos within eight (8no.) of the stockpile areas, it is recommended that an asbestos watching brief is implemented during the stockpiles' disposal, as well as during subsequent demolition and construction works in the former stockpiles' immediate surroundings. If suspect materials are encountered, then works in the vicinity should be halted and contact made with a

suitably quantified Environmental Consultant. Works should be conducted in line with the Control of Asbestos Regulations (2012), with risk assessment completed in relation to site activities. Mitigation measures including asbestos fibre boundary monitoring and dampening down of excavations during dry weather should be considered by the Principal Contractor in order to manage risks.

END OF REPORT

Attachment 1

Limitations

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between OE Ltd and the Client as indicated in Section 1.2.
 2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information, it has been assumed it is correct. No attempt has been made to verify the information.
 3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination, which are enforced, by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
 4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
 5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
 6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
 7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.
 8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
 9. OE cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by OE is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by OE in this connection without their explicit written agreement there to by OE.
 10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.
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Attachment 2

Drawings

This is a detailed topographic map of the Stoneham area in Hampshire, UK. The map shows the River Test flowing through the landscape, with various landmarks and infrastructure labeled. Key features include Stoneham Park House, Stoneham Golf Club, North Stoneham Sports Ground, and the Southampton Airport Parkway Station. The map also displays the A335 road and the M27 motorway. A red rectangle highlights a specific area of interest near the center of the map, adjacent to the River Test and the North Stoneham Sports Ground.

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Key



The client must not amend any drawing, design or other intellectual property produced by Omnia Environmental Consulting (OEC) without permission in writing from OEC in advance of any amendments being made.
In the event that such written permission is not obtained in advance of the amendments being made OEC shall not be liable for any damage and/or losses occurring as a result of the amended drawing, design or intellectual property.

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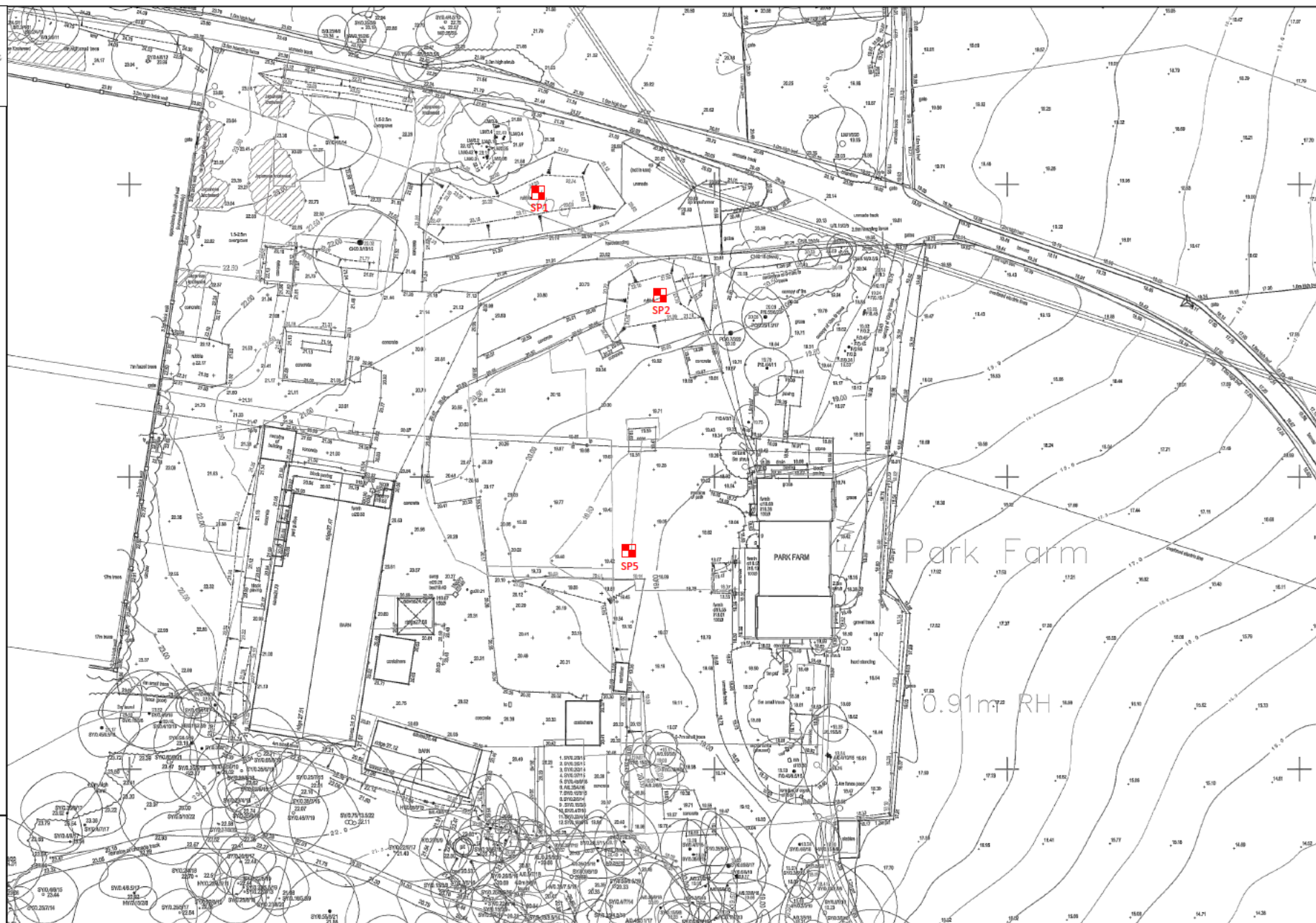


Job Title:	Client:	Project No:	Date:	Drawing Title:
Park Farm, Stoneham Park	Highwood Group Limited	A11580	18/10/2021	Figure 2.0 - Proposed Development Plan
		Drawn By:	Authorised By:	
		Scale:	Notes:	
		AB	GW	
		Not to Scale		

Key



Approximate Stockpile Location



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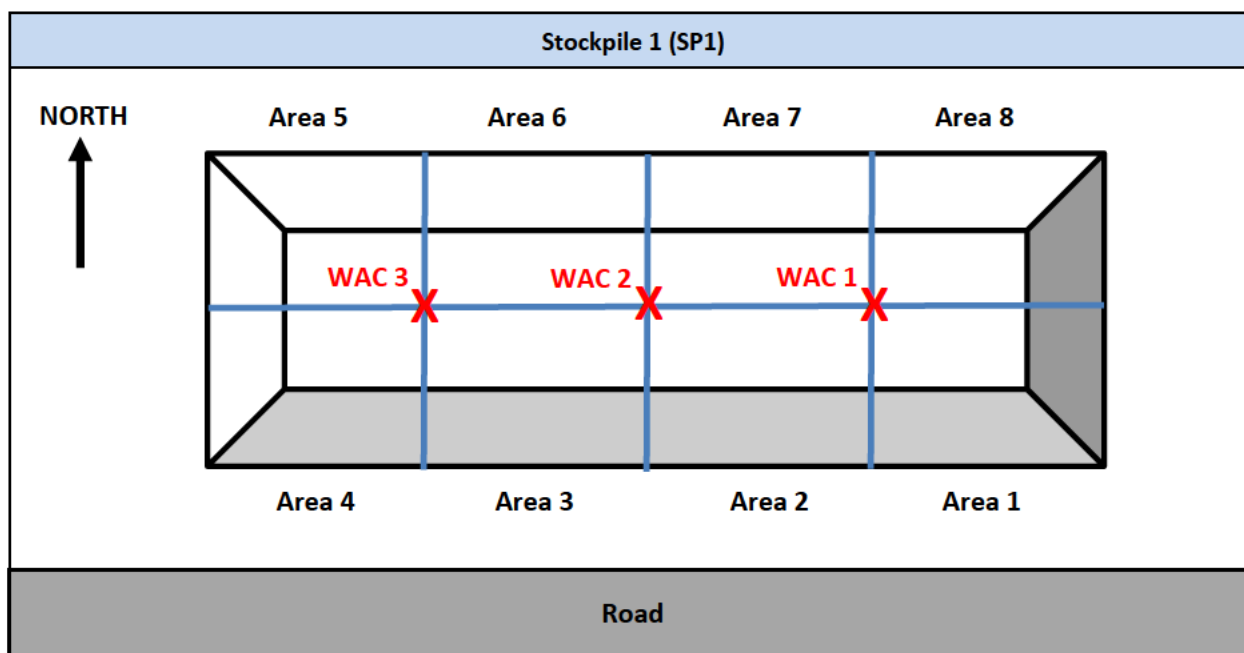
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Job Title:	Client:	Project No:	Date:	Drawing Title:
Park Farm, Stoneham Park	Highwood Group Limited	A11580	18/10/2021	
		Drawn By:	Authorised By:	
		AB	GW	Figure 3.0 - Intrusive Investigation Location Plan
		Scale:	Notes:	
		Not to Scale		

Attachment 3

Stockpile Sampling Records

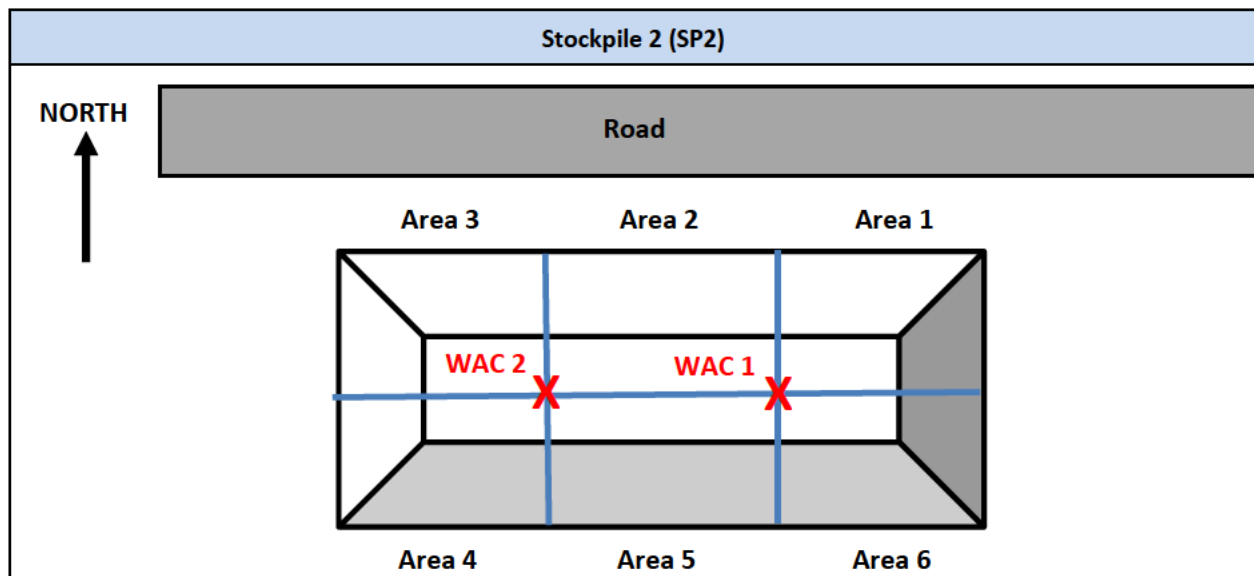


Schematic diagram (plan view) of the stockpile and its sub-division into areas for sampling.

*Locations of samples taken for WAC testing are marked by **X** and labelled according to their sample name.*

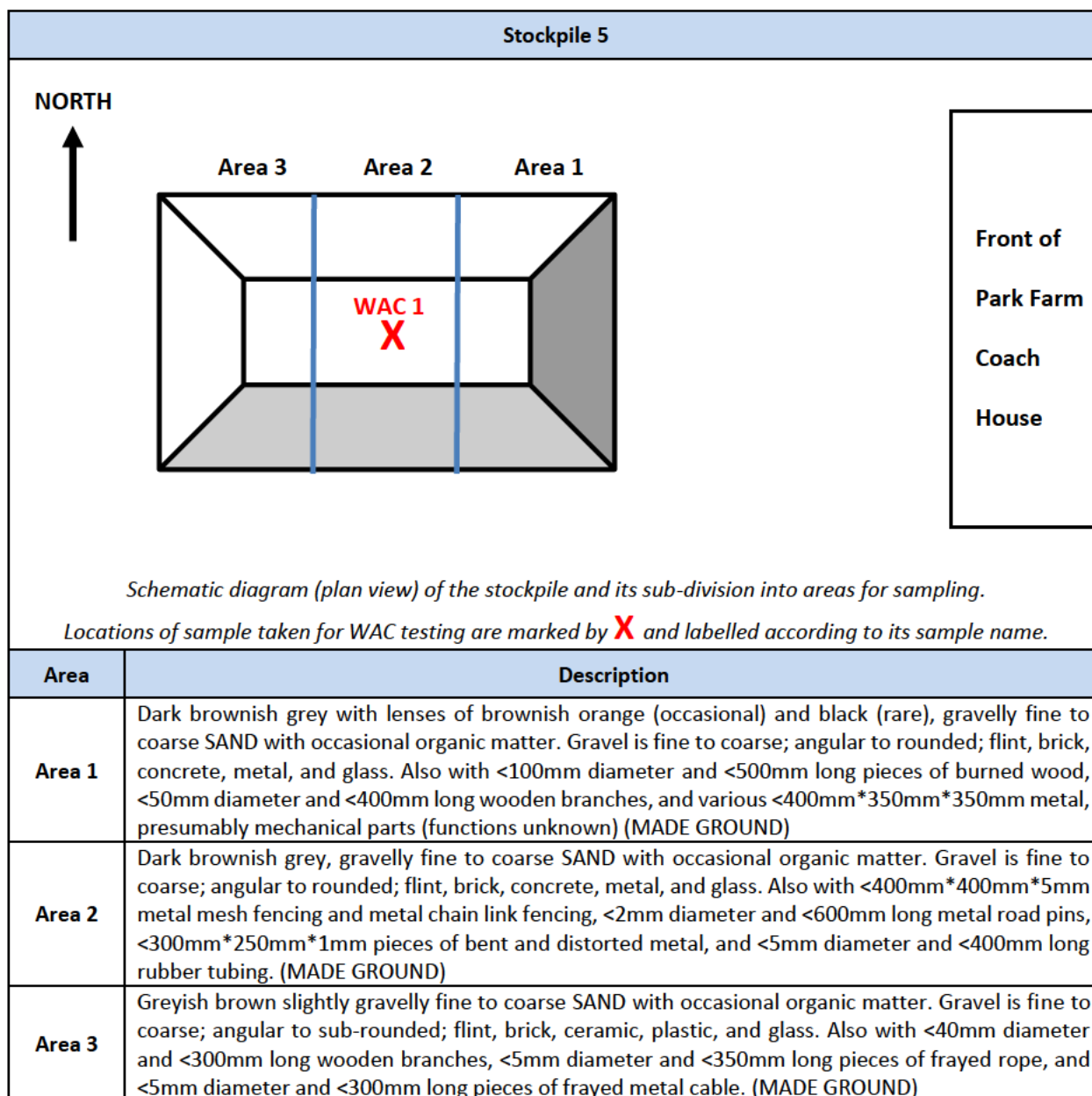
Area	Description
Area 1	Dark greyish brown, very gravelly, fine to coarse SAND with low cobble content and with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. Cobbles are sub-rounded concrete. Also with <200mm diameter and 20mm thick plastic fragments. (MADE GROUND)
Area 2	Dark greyish brown, very gravelly, fine to coarse SAND with low cobble content and with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. Cobbles are sub-rounded concrete. Also with <200mm diameter and 20mm thick plastic fragments, <200mm diameter and <3mm thick glass shards, and one (1no.) battery (170mm*170mm*200mm). (MADE GROUND)
Area 3	Dark brownish grey, very gravelly, fine to coarse SAND with low cobble content and with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. Cobbles are sub-rounded concrete. Also with <200mm diameter and 20mm thick plastic fragments and <200mm diameter and <3mm thick glass shards (MADE GROUND)
Area 4	Dark brownish grey, very gravelly, fine to coarse SAND with low cobble content and with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. Cobbles are sub-rounded concrete. Also with <200mm long sections of frayed rope, <200mm*250mm*1mm pieces of bent and distorted metal, black binbag fragments, <100mm*50mm*2mm pieces of Medium-Density Fibreboard, and various <400mm*350mm*350mm metal, presumably mechanical parts (functions unknown). (MADE GROUND)
Area 5	<i>This area primarily consisted of dense vegetation with frequent <200mm diameter and <500mm long wooden logs and tree branches, <400mm*400mm*5mm pieces of Medium-Density Fibreboard, <500mm*500mm*50mm sheets of corrugated metal, and <500mm long and <200mm thick metal girders. The excavator attempted to move these objects, but was constrained by dense vegetation causing poor accessibility and inadequate space for operation. Therefore, there was limited soil available for sampling and the composite sample is not as representative as the other areas'.</i> <i>The material visible consisted of: Dark brownish grey, slightly clayey, gravelly, fine to coarse SAND with frequent organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, glass, plastic, and ceramic. (MADE GROUND)</i>

Area 6	Light greyish brown to dark brownish grey, slightly clayey, gravelly, fine to coarse SAND with occasional organic matter. Gravel is fine to coarse; angular to rounded; flint, brick, plastic, and wood. Also with one (1no.) 200mm diameter and 400mm long wooden log, one (1no.) sub-angular brick cobble, <2mm diameter and <600mm long plastic strands, and <400mm*400mm*2mm pieces of Medium-Density Fibreboard. (MADE GROUND)
Area 7	Greyish brown, slightly clayey, gravelly, fine to coarse SAND with frequent organic matter. Gravel is fine to coarse; angular to rounded; ceramic, wood, Medium-Density Fibreboard, brick, flint, and plastic. Also with <500mm long and <200mm thick metal poles and girders, fragments of black binbags, and <300mm*300mm*2mm pieces of card. (MADE GROUND)
Area 8	Dark greyish brown, slightly clayey, gravelly, fine to coarse SAND with frequent organic matter. Gravel is fine to coarse; angular to rounded; brick, flint, and plastic. Also with <2mm diameter and <300mm long metal wires, one (1no.) sub-angular brick cobble, <5mm diameter and <400mm long rubber tubing, <2mm diameter and <300mm long frayed cable bundles, <4mm diameter and <300mm long pieces of frayed rope, and <300mm*300mm*2mm pieces of card and paper. (MADE GROUND)



Schematic diagram (plan view) of the stockpile and its sub-division into areas for sampling.
*Locations of samples taken for WAC testing are marked by **X** and labelled according to their sample name.*

Area	Description
Area 1	Light greyish brown to dark greyish brown, slightly clayey, very gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, plastic, and wood. Cobbles are sub-rounded flint and angular to sub-angular brick. (MADE GROUND)
Area 2	Light greyish brown to dark greyish brown, slightly clayey, very gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, plastic, concrete, wood, and Medium-Density Fibreboard. Cobbles are sub-rounded flint and angular to sub-angular brick and breeze block. Also with <5mm diameter and <400mm long rubber tubing and one (1no.) sub-rounded concrete boulder. (MADE GROUND) At the approximate centre of the area, there was a 500mm*300mm*300mm lens of firm to stiff, orangeish brown, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine and medium sub-angular to sub-rounded flint.
Area 3	Dark greyish brown, gravelly, fine to coarse SAND with occasional organic matter. Gravel is fine to coarse, angular to sub-rounded flint and brick. Also with one (1no.) sub-angular brick cobble, <5mm diameter and <400mm long rubber tubing, and <4mm diameter and <200mm long frayed rope. (MADE GROUND)
Area 4	<i>The excavator attempted to reach this area for sampling, but was constrained by dense vegetation causing poor accessibility and inadequate space for operation. Therefore, there was limited soil available for sampling by hand and the composite sample is not as representative as the other areas'.</i> <i>The visible material consisted of:</i> dark greyish brown, gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, ceramic, plastic, glass, and concrete. Cobbles are sub-rounded flint and sub-angular brick and ceramic. Also with <200mm*200mm*3mm ceramic tiles, <300mm*300mm*2mm fragments of tarpaulin, and <3mm diameter and <250mm long pieces of frayed rope. (MADE GROUND)
Area 5	Dark greyish brown, gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse; angular to sub-rounded; flint, brick, ceramic, plastic, glass, and concrete. Cobbles are sub-rounded flint and concrete and sub-angular brick. Also with <200mm*200mm*3mm ceramic tiles. (MADE GROUND)
Area 6	Dark greyish brown, gravelly, fine to coarse SAND with low cobble content and occasional organic matter. Gravel is fine to coarse, angular to sub-rounded flint and brick. Cobbles are sub-rounded flint and concrete. Also with fragments of black binbags, <300mm*300mm*1mm fine plastic mesh netting, <200mm*100mm*2mm glass shards, <5mm diameter and <400mm long rubber tubing, and <4mm diameter and <200mm long pieces of frayed rope. (MADE GROUND)



Attachment 4

Photographs



Photograph 1: View of Stockpile 1 (SP1), looking north-west.



Photograph 2: One (1no.) of the three (3no.) excavator buckets from Area 4, Stockpile 1 (SP1).



Photograph 3: View of the eastern half of Stockpile 2 (SP2), looking south-east.



Photograph 3: View of the western half of Stockpile 2 (SP2), looking south-west.



Photograph 5: View downwards from the top of Area 4, Stockpile 2 (SP2); sampled by hand due to excavator being unable to access the area.



Photograph 6: View of Stockpile 3 (SP3) and the western part of the site, looking west.



Photograph 7: One (1no.) of the three (3no.) excavator buckets from Area 1, Stockpile 3 (SP3).



Photograph 6: View of the former farm buildings and hardstanding in the north-western part of the site, looking north-west.

Attachment 5

Chemical Testing Results

Omnia
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PO6 4TP



Attention :	Georgia Wass
Date :	25th October, 2021
Your reference :	A11580
Our reference :	Test Report 21/15520 Batch 1
Location :	Stoneham park
Date samples received :	2nd October, 2021
Status :	Final Report
Issue :	1

Twenty three samples were received for analysis on 2nd October, 2021 of which twenty three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Hayley Prowse
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[illegible]

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-19	20-22	Please see attached notes for all abbreviations and acronyms		
Sample ID	SP1 - AREA 1	SP1 - AREA 2	SP1 - AREA 3	SP1 - AREA 4	SP1 - AREA 5	SP1 - AREA 6	SP1 - AREA 7	SP1 - AREA 8	SP1 - WAC 1	SP1 - WAC 2			
Depth													
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J T	V J T			
Sample Date	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021			
PAH MS													
Naphthalene #	<0.04	<0.04	0.14	<0.04	<0.04	0.09	0.09	<0.04	<0.04	0.07	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.05	0.16	0.50	0.32	<0.03	0.31	0.25	0.11	0.18	0.38	<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	0.24	<0.05	<0.05	0.13	0.08	<0.05	<0.05	0.08	<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	0.21	<0.04	<0.04	0.10	0.07	<0.04	<0.04	0.07	<0.04	mg/kg	TM4/PM8
Phenanthrene #	0.17	0.18	2.96	0.43	0.21	1.18	0.66	0.15	0.19	0.96	<0.03	mg/kg	TM4/PM8
Anthracene #	0.09	0.24	1.50	0.39	0.13	0.76	0.44	0.16	0.19	0.72	<0.04	mg/kg	TM4/PM8
Fluoranthene #	0.53	0.68	8.97	1.11	0.58	4.45	1.95	0.55	0.68	3.92	<0.03	mg/kg	TM4/PM8
Pyrene #	0.47	0.63	8.81	1.01	0.51	4.30	1.64	0.51	0.66	3.72	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	0.32	0.38	5.24	0.50	0.27	2.21	0.88	0.40	0.37	1.90	<0.06	mg/kg	TM4/PM8
Chrysene #	0.36	0.40	5.81	0.60	0.34	2.47	1.04	0.47	0.46	2.15	<0.02	mg/kg	TM4/PM8
Benzo(k)fluoranthene #	0.83	0.83	13.80	1.20	0.66	5.88	2.49	0.98	1.26	4.67	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	0.47	0.47	8.75	0.67	0.34	3.87	1.88	0.58	0.77	2.79	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.45	0.33	6.07	0.51	0.24	3.17	1.90	0.43	0.76	2.17	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.07	0.08	0.98	0.13	<0.04	0.54	0.35	0.10	0.14	0.43	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.52	0.41	6.24	0.51	0.27	3.68	2.10	0.53	0.83	2.34	<0.04	mg/kg	TM4/PM8
Coronene	-	-	-	-	-	-	-	-	0.17	0.53	<0.04	mg/kg	TM4/PM8
PAH 16 Total	4.3	4.8	70.2	7.4	3.6	33.1	15.8	5.0	-	-	<0.6	mg/kg	TM4/PM8
PAH 17 Total	-	-	-	-	-	-	-	-	6.66	26.90	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.60	0.60	9.94	0.86	0.48	4.23	1.79	0.71	0.91	3.36	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.23	0.23	3.86	0.34	0.18	1.65	0.70	0.27	0.35	1.31	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	119	116	115	112	104	124	93	120	120	121	<0	%	TM4/PM8
EPH >C8-C10 (EH_1D_Total)	<5	<5	<5	<5	-	<5	<5	<5	-	-	<5	mg/kg	TM5/PM8
EPH >C8-C10 (EH_1D_Total) #	-	-	-	-	<5	-	-	-	-	-	<5	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total)	<10	<10	<10	<10	-	<10	<10	<10	-	-	<10	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total) #	-	-	-	-	<10	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total)	<10	<10	<10	<10	-	15	<10	<10	-	-	<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total) #	-	-	-	-	<10	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total)	34	33	65	81	-	177	66	55	-	-	<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total) #	-	-	-	-	63	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total)	538	440	776	899	-	1146	561	791	-	-	<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total) #	-	-	-	-	715	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C35-C44 (EH_1D_Total)	86	91	123	159	120	191	136	149	-	-	<10	mg/kg	TM5/PM8
EPH >C8-C44 (EH_1D_Total)	658	564	964	1139	898	1529	763	995	-	-	<30	mg/kg	TM5/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	-	-	-	-	-	-	-	-	127	218	<30	mg/kg	TM5/PM8/PM16
GRO (>C4-C6)	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	<0.1	<0.1 ^{SV}	-	-	<0.1	mg/kg	TM36/PM12
GRO (>C6-C8) (HS_1D_Total) #	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	0.2 ^{SV}	0.3 ^{SV}	<0.1 ^{SV}	<0.1	<0.1 ^{SV}	-	-	<0.1	mg/kg	TM36/PM12
GRO (>C4-C8)	<0.1 ^{SV}	<0.1 ^{SV}	<0.1 ^{SV}	0.2 ^{SV}	0.3 ^{SV}	<0.1 ^{SV}	<0.1	<0.1 ^{SV}	-	-	<0.1	mg/kg	TM36/PM12
MTBE #	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12
Benzene #	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12
Toluene #	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12
Ethylbenzene #	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-19	20-22	Please see attached notes for all abbreviations and acronyms		
Sample ID	SP1 - AREA 1	SP1 - AREA 2	SP1 - AREA 3	SP1 - AREA 4	SP1 - AREA 5	SP1 - AREA 6	SP1 - AREA 7	SP1 - AREA 8	SP1 - WAC 1	SP1 - WAC 2			
Depth													
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J T	V J T			
Sample Date	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	LOD/LOR	Units	Method No.
m/p-Xylene [#]	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12
o-Xylene [#]	-	-	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	<5	ug/kg	TM36/PM12
PCB 28 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 52 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 101 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 118 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 138 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 153 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
PCB 180 [#]	-	-	-	-	-	-	-	-	<5	<5	<5	ug/kg	TM17/PM8
Total 7 PCBs [#]	-	-	-	-	-	-	-	-	<35	<35	<35	ug/kg	TM17/PM8
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	-	-	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	12.5	15.0	15.6	16.9	60.6	16.5	13.3	24.0	11.5	14.2	<0.1	%	PM4/PM0
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) [#]	-	-	-	-	NDP	0.0895	-	-	-	-	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext)	0.0251	0.0837	0.0295	0.0235	-	-	0.2925	0.0290	-	-	<0.0015	g/l	TM38/PM60
Chromium III	-	-	-	-	NDP	69.5	-	-	-	-	<0.5	mg/kg	NONE/NONE
Chromium III	36.7	204.7	32.1	32.3	-	-	30.1	37.9	-	-	<0.5	mg/kg	NONE/NONE
Total Cyanide [#]	<1.5 ^{AA}	<1.5 ^{AA}	<1.5 ^{AA}	<1.5 ^{AA}	<1.5 ^{AA}	<0.5	<0.5	1.2	-	-	<0.5	mg/kg	TM89/PM45
Total Organic Carbon [#]	-	-	-	-	-	-	-	-	4.06	3.88	<0.02	%	TM21/PM24
ANC at pH4	-	-	-	-	-	-	-	-	0.03	0.03	<0.03	mol/kg	TM77/PM0
ANC at pH7	-	-	-	-	-	-	-	-	NDP	NDP	<0.03	mol/kg	TM77/PM0
Loss on Ignition [#]	-	-	-	-	-	-	-	-	11.5	10.1	<1.0	%	TM22/PM0
pH [#]	7.36	7.70	7.76	7.45	7.46	7.90	7.96	7.72	7.69	7.65	<0.01	pH units	TM73/PM11

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	23-25	26-27	28-29	30-31	32-33	34-35	36-37	38-40	41-43	44-45	Please see attached notes for all abbreviations and acronyms		
Sample ID	SP1 - WAC 3	SP2 - AREA 1	SP2 - AREA 2	SP2 - AREA 3	SP2 - AREA 4	SP2 - AREA 5	SP2 - AREA 6	SP2 - WAC 1	SP2 - WAC 2	SP5 - AREA 1			
Depth													
COC No / misc													
Containers	V J T	V J	V J	V J	V J	V J	V J	V J T	V J T	V J			
Sample Date	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021			
Arsenic [#]	-	5.9	9.5	12.8	-	12.0	-	-	-	44.7	<0.5	mg/kg	TM30/PM15
Barium [#]	-	41	170	218	-	551	-	-	-	189	<1	mg/kg	TM30/PM15
Beryllium	-	0.6	0.9	1.2	-	1.4	-	-	-	1.1	<0.5	mg/kg	TM30/PM15
Cadmium [#]	-	0.5	0.5	1.1	-	1.9	-	-	-	4.1	<0.1	mg/kg	TM30/PM15
Chromium [#]	-	71.7	60.8	71.8	-	46.3	-	-	-	81.8	<0.5	mg/kg	TM30/PM15
Copper [#]	-	24	43	94	-	84	-	-	-	362 ^{AB}	<1	mg/kg	TM30/PM15
Lead [#]	-	120	98	209	-	634	-	-	-	144	<5	mg/kg	TM30/PM15
Mercury [#]	-	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	mg/kg	TM30/PM15
Nickel [#]	-	9.3	19.0	20.5	-	25.4	-	-	-	20.5	<0.7	mg/kg	TM30/PM15
Selenium [#]	-	<1	<1	1	-	<1	-	-	-	<1	<1	mg/kg	TM30/PM15
Vanadium	-	25	41	48	-	32	-	-	-	35	<1	mg/kg	TM30/PM15
Water Soluble Boron [#]	-	0.5	1.6	1.8	-	1.5	-	-	-	2.8	<0.1	mg/kg	TM74/PM32
Zinc [#]	-	100	211	532	-	581	-	-	-	4508 ^{AB}	<5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	12.2	-	12.3	-	-	-	<0.5	mg/kg	TM30/PM62
Barium	-	-	-	-	180	-	288	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	-	-	-	-	0.9	-	0.7	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium	-	-	-	-	1.2	-	1.5	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium	-	-	-	-	39.9	-	29.6	-	-	-	<0.5	mg/kg	TM30/PM62
Copper	-	-	-	-	88	-	140	-	-	-	<1	mg/kg	TM30/PM62
Lead	-	-	-	-	175	-	377	-	-	-	<5	mg/kg	TM30/PM62
Mercury	-	-	-	-	<0.1	-	<0.1	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel	-	-	-	-	766.2 ^{AB}	-	26.1	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium	-	-	-	-	<1	-	<1	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	-	-	-	-	33	-	30	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron	-	-	-	-	2.8	-	3.2	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc	-	-	-	-	473	-	1073	-	-	-	<5	mg/kg	TM30/PM62

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	23-25	26-27	28-29	30-31	32-33	34-35	36-37	38-40	41-43	44-45	Please see attached notes for all abbreviations and acronyms		
Sample ID	SP1 - WAC 3	SP2 - AREA 1	SP2 - AREA 2	SP2 - AREA 3	SP2 - AREA 4	SP2 - AREA 5	SP2 - AREA 6	SP2 - WAC 1	SP2 - WAC 2	SP5 - AREA 1			
Depth													
COC No / misc													
Containers	V J T	V J	V J	V J	V J	V J	V J	V J T	V J T	V J			
Sample Date	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021			
PAH MS													
Naphthalene #	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	0.06	0.16	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.44	<0.03	0.34	0.13	0.06	0.05	0.08	0.89	0.13	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	0.30	<0.05	<0.05	<0.05	<0.05	1.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #	0.05	<0.04	0.28	<0.04	<0.04	<0.04	<0.04	1.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #	0.47	<0.03	3.48	0.20	0.12	0.34	0.20	12.09	0.22	0.04	<0.03	mg/kg	TM4/PM8
Anthracene #	0.49	<0.04	1.45	0.19	0.10	0.13	0.14	4.59	0.18	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene #	1.09	0.12	8.46	0.72	0.38	1.10	0.68	22.80	0.66	0.04	<0.03	mg/kg	TM4/PM8
Pyrene #	1.06	0.11	6.18	0.66	0.37	1.03	0.61	16.94	0.58	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	0.51	0.09	4.66	0.37	0.21	0.83	0.34	12.50	0.30	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene #	0.69	0.09	5.10	0.44	0.26	0.71	0.42	13.40	0.35	0.04	<0.02	mg/kg	TM4/PM8
Benzo(b)fluoranthene #	1.38	0.20	10.37	1.31	0.70	1.49	0.87	26.33	0.79	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	0.76	0.12	5.13	0.92	0.46	0.87	0.51	13.60	0.46	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.58	0.09	3.85	0.88	0.46	0.80	0.41	9.70	0.41	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.13	<0.04	0.99	0.15	0.07	0.13	0.09	2.34	0.08	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.69	0.12	3.63	0.99	0.48	0.83	0.49	9.70	0.41	<0.04	<0.04	mg/kg	TM4/PM8
Coronene	0.16	-	-	-	-	-	-	1.52	0.10	-	<0.04	mg/kg	TM4/PM8
PAH 16 Total	-	0.9	54.3	7.0	3.7	8.3	4.9	-	-	<0.6	<0.6	mg/kg	TM4/PM8
PAH 17 Total	8.50	-	-	-	-	-	-	148.65	4.67	-	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.99	0.14	7.47	0.94	0.50	1.07	0.63	18.96	0.57	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.39	0.06	2.90	0.37	0.20	0.42	0.24	7.37	0.22	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	124	122	110	118	121	99	121	120	126	120	<0	%	TM4/PM8
EPH >C8-C10 (EH_1D_Total)	-	<5	<5	<5	<5	<5	<5	-	-	<5	<5	mg/kg	TM5/PM8
EPH >C8-C10 (EH_1D_Total) #	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total)	-	<10	<10	<10	<10	<10	<10	-	-	<10	<10	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total) #	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total)	-	<10	<10	<10	<10	<10	<10	-	-	<10	<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total) #	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total)	-	<10	164	44	25	55	29	-	-	<10	<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total) #	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total)	-	187	1092	460	306	653	274	-	-	<10	<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total) #	-	-	-	-	-	-	-	-	-	-	<10	mg/kg	TM5/PM8
EPH >C35-C44 (EH_1D_Total)	-	78	180	149	111	112	99	-	-	<10	<10	mg/kg	TM5/PM8
EPH >C8-C44 (EH_1D_Total)	-	265	1436	653	442	820	402	-	-	<30	<30	mg/kg	TM5/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	361	-	-	-	-	-	-	228	57	-	<30	mg/kg	TM5/PM8/PM16
GRO (>C4-C6)	-	<0.1	<0.1 ^{SV}	<0.1 ^{SV}	<0.1	<0.1 ^{SV}	<0.1	-	-	<0.1 ^{SV}	<0.1	mg/kg	TM36/PM12
GRO (>C6-C8) (HS_1D_Total) #	-	<0.1	<0.1 ^{SV}	0.1 ^{SV}	<0.1	<0.1 ^{SV}	<0.1	-	-	<0.1 ^{SV}	<0.1	mg/kg	TM36/PM12
GRO (>C4-C8)	-	<0.1	<0.1 ^{SV}	0.1 ^{SV}	<0.1	<0.1 ^{SV}	<0.1	-	-	<0.1 ^{SV}	<0.1	mg/kg	TM36/PM12
MTBE #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12
Benzene #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12
Toluene #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12
Ethylbenzene #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	23-25	26-27	28-29	30-31	32-33	34-35	36-37	38-40	41-43	44-45	Please see attached notes for all abbreviations and acronyms		
Sample ID	SP1 - WAC 3	SP2 - AREA 1	SP2 - AREA 2	SP2 - AREA 3	SP2 - AREA 4	SP2 - AREA 5	SP2 - AREA 6	SP2 - WAC 1	SP2 - WAC 2	SP5 - AREA 1			
Depth													
COC No / misc													
Containers	V J T	V J	V J	V J	V J	V J	V J	V J T	V J T	V J			
Sample Date	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021	30/09/2021			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	02/10/2021	LOD/LOR	Units	Method No.
m/p-Xylene #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12
o-Xylene #	<5 ^{SV}	-	-	-	-	-	-	<5 ^{SV}	<5 ^{SV}	-	<5	ug/kg	TM36/PM12
PCB 28 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 52 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 101 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 118 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 138 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 153 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
PCB 180 #	<5	-	-	-	-	-	-	<5	<5	-	<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	-	-	-	-	-	-	<35	<35	-	<35	ug/kg	TM17/PM8
Total Phenols HPLC	-	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	-	-	<0.15	<0.15	mg/kg	TM26/PM21B
Natural Moisture Content	6.8	11.9	10.7	17.9	23.4	15.6	12.9	14.3	14.5	21.7	<0.1	%	PM4/PM0
Hexavalent Chromium #	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	-	0.0236	0.0035	0.0246	-	0.0596	-	-	-	0.3004	<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext)	-	-	-	-	0.0032	-	0.0120	-	-	-	<0.0015	g/l	TM38/PM60
Chromium III	-	71.7	60.8	71.8	-	46.3	-	-	-	81.8	<0.5	mg/kg	NONE/NONE
Chromium III	-	-	-	-	39.9	-	29.6	-	-	-	<0.5	mg/kg	NONE/NONE
Total Cyanide #	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	-	-	<0.5	<0.5	mg/kg	TM89/PM45
Total Organic Carbon #	4.36	-	-	-	-	-	-	5.24	4.52	-	<0.02	%	TM21/PM24
ANC at pH4	0.05	-	-	-	-	-	-	0.03	0.04	-	<0.03	mol/kg	TM77/PM0
ANC at pH7	NDP	-	-	-	-	-	-	NDP	NDP	-	<0.03	mol/kg	TM77/PM0
Loss on Ignition #	10.7	-	-	-	-	-	-	10.9	12.1	-	<1.0	%	TM22/PM0
pH #	7.58	8.12	7.67	7.67	7.80	7.89	7.67	7.61	7.83	8.06	<0.01	pH units	TM73/PM11

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	46-47	48-49	50-52										
Sample ID	SP5 - AREA 2	SP5 - AREA 3	SP5 - WAC 1										
Depth													
COC No / misc													
Containers	V J	V J	V J T										
Sample Date	30/09/2021	30/09/2021	30/09/2021										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	02/10/2021	02/10/2021	02/10/2021										
											LOD/LOR	Units	Method No.
Arsenic [#]	45.7	29.1	-								<0.5	mg/kg	TM30/PM15
Barium [#]	228	240	-								<1	mg/kg	TM30/PM15
Beryllium	1.5	1.1	-								<0.5	mg/kg	TM30/PM15
Cadmium [#]	1.1	0.4	-								<0.1	mg/kg	TM30/PM15
Chromium [#]	107.1	48.7	-								<0.5	mg/kg	TM30/PM15
Copper [#]	899 _{Ac}	2911 _{AD}	-								<1	mg/kg	TM30/PM15
Lead [#]	232	170	-								<5	mg/kg	TM30/PM15
Mercury [#]	<0.1	<0.1	-								<0.1	mg/kg	TM30/PM15
Nickel [#]	39.5	17.9	-								<0.7	mg/kg	TM30/PM15
Selenium [#]	<1	<1	-								<1	mg/kg	TM30/PM15
Vanadium	28	33	-								<1	mg/kg	TM30/PM15
Water Soluble Boron [#]	2.2	3.5	-								<0.1	mg/kg	TM74/PM32
Zinc [#]	2494	1312	-								<5	mg/kg	TM30/PM15
Arsenic	-	-	-								<0.5	mg/kg	TM30/PM62
Barium	-	-	-								<1	mg/kg	TM30/PM62
Beryllium	-	-	-								<0.5	mg/kg	TM30/PM62
Cadmium	-	-	-								<0.1	mg/kg	TM30/PM62
Chromium	-	-	-								<0.5	mg/kg	TM30/PM62
Copper	-	-	-								<1	mg/kg	TM30/PM62
Lead	-	-	-								<5	mg/kg	TM30/PM62
Mercury	-	-	-								<0.1	mg/kg	TM30/PM62
Nickel	-	-	-								<0.7	mg/kg	TM30/PM62
Selenium	-	-	-								<1	mg/kg	TM30/PM62
Vanadium	-	-	-								<1	mg/kg	TM30/PM62
Water Soluble Boron	-	-	-								<0.1	mg/kg	TM74/PM61
Zinc	-	-	-								<5	mg/kg	TM30/PM62

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	46-47	48-49	50-52									
Sample ID	SP5 - AREA 2	SP5 - AREA 3	SP5 - WAC 1									
Depth												
COC No / misc												
Containers	V J	V J	V J T									
Sample Date	30/09/2021	30/09/2021	30/09/2021									
Sample Type	Soil	Soil	Soil									
Batch Number	1	1	1									
Date of Receipt	02/10/2021	02/10/2021	02/10/2021									
										LOD/LOR	Units	Method No.
PAH MS												
Naphthalene #	0.05	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.33	<0.03	<0.03							<0.03	mg/kg	TM4/PM8
Acenaphthene #	<0.05	<0.05	<0.05							<0.05	mg/kg	TM4/PM8
Fluorene #	<0.04	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Phenanthrene #	0.19	0.04	<0.03							<0.03	mg/kg	TM4/PM8
Anthracene #	0.77	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Fluoranthene #	1.21	0.10	<0.03							<0.03	mg/kg	TM4/PM8
Pyrene #	1.55	0.09	<0.03							<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	0.87	0.11	<0.06							<0.06	mg/kg	TM4/PM8
Chrysene #	1.01	0.10	<0.02							<0.02	mg/kg	TM4/PM8
Benzo(b)fluoranthene #	1.21	0.22	<0.07							<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	0.62	0.11	<0.04							<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.19	0.09	<0.04							<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.06	<0.04	<0.04							<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.22	0.09	<0.04							<0.04	mg/kg	TM4/PM8
Coronene	-	-	<0.04							<0.04	mg/kg	TM4/PM8
PAH 16 Total	8.3	1.0	-							<0.6	mg/kg	TM4/PM8
PAH 17 Total	-	-	<0.64							<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.87	0.16	<0.05							<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.34	0.06	<0.02							<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	119	106	112							<0	%	TM4/PM8
EPH >C8-C10 (EH_1D_Total)	<5	<5	-							<5	mg/kg	TM5/PM8
EPH >C8-C10 (EH_1D_Total) #	-	-	-							<5	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total)	<10	<10	-							<10	mg/kg	TM5/PM8
EPH >C10-C12 (EH_1D_Total) #	-	-	-							<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total)	<10	<10	-							<10	mg/kg	TM5/PM8
EPH >C12-C16 (EH_1D_Total) #	-	-	-							<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total)	<10	12	-							<10	mg/kg	TM5/PM8
EPH >C16-C21 (EH_1D_Total) #	-	-	-							<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total)	70	120	-							<10	mg/kg	TM5/PM8
EPH >C21-C35 (EH_1D_Total) #	-	-	-							<10	mg/kg	TM5/PM8
EPH >C35-C44 (EH_1D_Total)	62	36	-							<10	mg/kg	TM5/PM8
EPH >C8-C44 (EH_1D_Total)	132	168	-							<30	mg/kg	TM5/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	-	-	<30							<30	mg/kg	TM5/PM8/PM16
GRO (>C4-C6)	<0.1 ^{SV}	<0.1 ^{SV}	-							<0.1	mg/kg	TM36/PM12
GRO (>C6-C8) (HS_1D_Total) #	<0.1 ^{SV}	<0.1 ^{SV}	-							<0.1	mg/kg	TM36/PM12
GRO (>C4-C8)	<0.1 ^{SV}	<0.1 ^{SV}	-							<0.1	mg/kg	TM36/PM12
MTBE #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12
Benzene #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12
Toluene #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12
Ethylbenzene #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass
EMT Job No: 21/15520

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	46-47	48-49	50-52										
Sample ID	SP5 - AREA 2	SP5 - AREA 3	SP5 - WAC 1										
Depth													
COC No / misc													
Containers	V J	V J	V J T										
Sample Date	30/09/2021	30/09/2021	30/09/2021										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	02/10/2021	02/10/2021	02/10/2021										
										LOD/LOR	Units	Method No.	
m/p-Xylene #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12	
o-Xylene #	-	-	<5 ^{SV}							<5	ug/kg	TM36/PM12	
PCB 28 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 52 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 101 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 118 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 138 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 153 #	-	-	<5							<5	ug/kg	TM17/PM8	
PCB 180 #	-	-	<5							<5	ug/kg	TM17/PM8	
Total 7 PCBs #	-	-	<35							<35	ug/kg	TM17/PM8	
Total Phenols HPLC	<0.15	<0.15	-							<0.15	mg/kg	TM26/PM21B	
Natural Moisture Content	14.6	11.0	10.0							<0.1	%	PM4/PM0	
Hexavalent Chromium #	<0.3	<0.3	-							<0.3	mg/kg	TM38/PM20	
Sulphate as SO4 (2:1 Ext) #	0.1119	0.2178	-							<0.0015	g/l	TM38/PM20	
Sulphate as SO4 (2:1 Ext)	-	-	-							<0.0015	g/l	TM38/PM60	
Chromium III	107.1	48.7	-							<0.5	mg/kg	NONE/NONE	
Chromium III	-	-	-							<0.5	mg/kg	NONE/NONE	
Total Cyanide #	<0.5	<0.5	-							<0.5	mg/kg	TM89/PM45	
Total Organic Carbon #	-	-	4.39							<0.02	%	TM21/PM24	
ANC at pH4	-	-	0.06							<0.03	mol/kg	TM77/PM0	
ANC at pH7	-	-	NDP							<0.03	mol/kg	TM77/PM0	
Loss on Ignition #	-	-	6.8							<1.0	%	TM22/PM0	
pH #	8.20	7.88	7.34							<0.01	pH units	TM73/PM11	

Please see attached notes for all abbreviations and acronyms

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	8.3
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	92.4
Particle Size <4mm =	>95%		
EMT Job No	21/15520	Landfill Waste Acceptance Criteria Limits	
Sample No	19		
Client Sample No	SP1 - WAC 1		
Depth/Other			
Sample Date	30/09/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	4.06	3	5
Loss on Ignition (%)	11.5	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	127	500	-
PAH Sum of 17(mg/kg)	6.66	100	-
pH (pH Units)	7.69	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.03	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0057	0.057	0.5
Barium	0.009	0.09	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	0.029	0.29	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	0.006	0.06	0.4
Lead	<0.005	<0.05	0.5
Antimony	0.017	0.17	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.053	0.53	4
Chloride	1.2	12	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	113	1131	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	13	130	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	10.7
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	90.3
Particle Size <4mm =	>95%		
EMT Job No	21/15520	Landfill Waste Acceptance Criteria Limits	
Sample No	22		
Client Sample No	SP1 - WAC 2		
Depth/Other			
Sample Date	30/09/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	3.88	3	5
Loss on Ignition (%)	10.1	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	218	500	-
PAH Sum of 17(mg/kg)	26.90	100	-
pH (pH Units)	7.65	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.03	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0063	0.063	0.5
Barium	0.010	0.10	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	0.026	0.26	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.002	<0.02	0.5
Nickel	0.003	0.03	0.4
Lead	<0.005	<0.05	0.5
Antimony	0.006	0.06	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.043	0.43	4
Chloride	2.3	23	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	138	1379	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	11	110	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	6.8		
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	93.6		
Particle Size <4mm =	>95%				
EMT Job No	21/15520		Landfill Waste Acceptance Criteria Limits		
Sample No	25				
Client Sample No	SP1 - WAC 3		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill	Hazardous Waste Landfill
Depth/Other					
Sample Date	30/09/2021				
Batch No	1				
Solid Waste Analysis					
Total Organic Carbon (%)	4.36		3	5	6
Loss on Ignition (%)	10.7		-	-	10
Sum of BTEX (mg/kg)	<0.025		6	-	-
Sum of 7 PCBs (mg/kg)	<0.035		1	-	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	361		500	-	-
PAH Sum of 17(mg/kg)	8.50		100	-	-
pH (pH Units)	7.58		-	>6	-
ANC to pH 7 (mol/kg)	NDP		-	to be evaluated	to be evaluated
ANC to pH 4 (mol/kg)	0.05		-	to be evaluated	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
	C ₁₀	A ₁₀			
	mg/l	mg/kg			
	Arsenic	0.0107	0.107	0.5	2
Barium	0.012	0.12	20	100	300
Cadmium	<0.0005	<0.005	0.04	1	5
Chromium	0.0028	0.028	0.5	10	70
Copper	0.049	0.49	2	50	100
Mercury	<0.001	<0.01	0.01	0.2	2
Molybdenum	0.004	0.04	0.5	10	30
Nickel	0.004	0.04	0.4	10	40
Lead	<0.005	<0.05	0.5	10	50
Antimony	0.009	0.09	0.06	0.7	5
Selenium	<0.003	<0.03	0.1	0.5	7
Zinc	0.057	0.57	4	50	200
Chloride	1.2	12	800	15000	25000
Fluoride	<0.3	<3	10	150	500
Sulphate as SO4	<0.5	<5	1000	20000	50000
Total Dissolved Solids	116	1160	4000	60000	100000
Phenol	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	17	170	500	800	1000

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	13.2
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	88.4
Particle Size <4mm =	>95%		
EMT Job No	21/15520	Landfill Waste Acceptance Criteria Limits	
Sample No	40		
Client Sample No	SP2 - WAC 1		
Depth/Other			
Sample Date	30/09/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	5.24	3	5
Loss on Ignition (%)	10.9	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	228	500	-
PAH Sum of 17(mg/kg)	148.65	100	-
pH (pH Units)	7.61	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.03	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0058	0.058	0.5
Barium	0.011	0.11	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	0.013	0.13	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.007	0.07	0.5
Nickel	0.003	0.03	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.021	0.21	4
Chloride	0.9	9	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	109	1090	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	12	120	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	16.9
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	85.6
Particle Size <4mm =	>95%		
EMT Job No	21/15520	Landfill Waste Acceptance Criteria Limits	
Sample No	43		
Client Sample No	SP2 - WAC 2		
Depth/Other			
Sample Date	30/09/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	4.52	3	5
Loss on Ignition (%)	12.1	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	57	500	-
PAH Sum of 17(mg/kg)	4.67	100	-
pH (pH Units)	7.83	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.04	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0047	0.047	0.5
Barium	0.005	0.05	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	0.024	0.24	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	0.003	0.03	0.4
Lead	<0.005	<0.05	0.5
Antimony	0.003	0.03	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.033	0.33	4
Chloride	1.0	10	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	112	1120	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	14	140	500

Mass of sample taken (kg)	-	Moisture Content Ratio (%) =	14.1
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	87.7
Particle Size <4mm =	>95%		
EMT Job No	21/15520	Landfill Waste Acceptance Criteria Limits	
Sample No	52		
Client Sample No	SP5 - WAC 1		
Depth/Other			
Sample Date	30/09/2021		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	4.39	3	5
Loss on Ignition (%)	6.8	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-
PAH Sum of 17(mg/kg)	<0.64	100	-
pH (pH Units)	7.34	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.06	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	0.0676	0.676	0.5
Barium	0.027	0.27	20
Cadmium	<0.0005	<0.005	0.04
Chromium	0.0106	0.106	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	0.025	0.25	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.018	0.18	4
Chloride	2.6	26	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	21.1	211	1000
Total Dissolved Solids	98	980	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	<2	<20	500

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level less than 0.1%, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/15520	1	SP1 - AREA 1		2	07/10/2021	General Description (Bulk Analysis)	Soil
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
21/15520	1	SP1 - AREA 2		4	07/10/2021	General Description (Bulk Analysis)	Soil
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.002 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.002 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.002 (mass %)
21/15520	1	SP1 - AREA 3		6	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	ACM Debris
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.008 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.008 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.008 (mass %)
21/15520	1	SP1 - AREA 4		8	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	Asbestos Cement Debris
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	Asbestos level cannot be determined from Screen. Quantification required.

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/15520	1	SP1 - AREA 4		8	22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.456 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.456 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.456 (mass %)
21/15520	1	SP1 - AREA 5		10	07/10/2021	General Description (Bulk Analysis)	Soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP1 - AREA 6		12	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP1 - AREA 7		14	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.011 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.011 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.011 (mass %)
21/15520	1	SP1 - AREA 8		16	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	Paper, felts and cardboards
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					22/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					22/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.001 (mass %)
					22/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.001 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.001 (mass %)
21/15520	1	SP2 - AREA 1		27	07/10/2021	General Description (Bulk Analysis)	Soil/Stones
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP2 - AREA 2		29	07/10/2021	General Description (Bulk Analysis)	Soil/Stones
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Date Of Analysis	Analysis	Result
21/15520	1	SP2 - AREA 3		31	07/10/2021	General Description (Bulk Analysis)	Soil/Stones
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP2 - AREA 4		33	07/10/2021	General Description (Bulk Analysis)	Soil/Stone
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	less than 0.1%
					13/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					13/10/2021	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					13/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
21/15520	1	SP2 - AREA 5		35	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP2 - AREA 6		37	07/10/2021	General Description (Bulk Analysis)	Soil/Stone
					07/10/2021	Asbestos Fibres	Fibre Bundles
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	Chrysotile
					07/10/2021	Asbestos Level Screen	Asbestos level cannot be determined from Screen. Quantification required.
					13/10/2021	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					13/10/2021	Total Detailed Gravimetric Quantification (% Asb)	0.004 (mass %)
					13/10/2021	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.004 (mass %)
					25/10/2021	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					25/10/2021	Asbestos Gravimetric & PCOM Total	0.004 (mass %)
21/15520	1	SP5 - AREA 1		45	07/10/2021	General Description (Bulk Analysis)	Soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP5 - AREA 2		47	07/10/2021	General Description (Bulk Analysis)	Soil/Stone
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD
21/15520	1	SP5 - AREA 3		49	07/10/2021	General Description (Bulk Analysis)	soil
					07/10/2021	Asbestos Fibres	NAD
					07/10/2021	Asbestos ACM	NAD
					07/10/2021	Asbestos Type	NAD
					07/10/2021	Asbestos Level Screen	NAD

Matrix : Solid

[illegible]

Client Name: Omnia
Reference: A11580
Location: Stoneham park
Contact: Georgia Wass

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 21/15520

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x3 Dilution

AB	x5 Dilution
AC	x10 Dilution
AD	x20 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 21/15520

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes

EMT Job No: 21/15520

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec.1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec.1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec.1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM62	Acid digestion of as received solid samples using Aqua Regia refluxed at 112.5 °C.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes

EMT Job No: 21/15520

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH ₄ ⁺ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM60	As received solid samples are extracted with deionised water in a 2:1 ratio of water to solid.			AR	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 First edition (2006)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes		AD	Yes
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM61	As received solid samples are extracted with hot water in a 20:1 ratio of water to soil ready for analysis by ICP.			AR	Yes
TM77	Modified DDCEN/TS method 15364:2006. Determination of Acid Neutralization Capacity by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
TM131	Quantification of Asbestos Fibres and ACM based on HSG248 First edition:2006, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified			AR	Yes

EMT Job No: 21/15520

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
NONE	No Method Code	NONE	No Method Code			AR	Yes
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	

Attachment 6

HazWaste Online Certificates

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



8EJRM-KFD03-9SOR1

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Job name

A11580 Park Farm

Description/Comments

The seventeen composite soil samples analysed using HazWaste online were taken from the three (3no.) stockpiles located at Park Farm, Stoneham Park, Eastleigh, Hampshire, SO50 9RU.

The input data used to derive the landfill classifications is provided by laboratory analysis conducted by Element Materials Technology, who tested the samples for Omnia's standard soil suite.

The stockpiles contained a wide and highly variable mix of anthropogenic materials, but without any visual or olfactory evidence of liquid petrol or diesel.

As shown in Attachment 5, SP1 - Area 5 had results of NDP (No Determination Possible) for the metals. Given that the stockpile areas immediately adjacent were given hazardous classifications, SP1 - Area 5 is presumed to also be hazardous in accordance with the Precautionary Principle.

Project

A11580

Site

Park Farm, Stoneham Park

Classified by

Name: **William Bennett**
 Date: **22 Oct 2021 10:02 GMT**
 Telephone: **01489 808 088**
 Company: **Omnia Environmental Consulting**
3-6 The Quarterdeck, Port Solent,
Portsmouth, PO6 4TP

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
 Hazardous Waste Classification

Date
 50% complete

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	SP1 - Area 1		Hazardous	HP 7	3
2	SP1 - Area 2		Hazardous	HP 7	6
3	SP1 - Area 3		Hazardous	HP 7	9
4	SP1 - Area 4		Hazardous	HP 7, HP 11, HP 14	12
5	SP1 - Area 5		Non Hazardous		15
6	SP1 - Area 6		Hazardous	HP 7, HP 11	17
7	SP1 - Area 7		Hazardous	HP 7	20
8	SP1 - Area 8		Hazardous	HP 7, HP 14	23
9	SP2 - Area 1		Non Hazardous		26
10	SP2 - Area 2		Hazardous	HP 7, HP 11	28
11	SP2 - Area 3		Hazardous	HP 7	31
12	SP2 - Area 4		Hazardous	HP 7, HP 14	34
13	SP2 - Area 5		Hazardous	HP 7	37
14	SP2 - Area 6		Hazardous	HP 7, HP 14	40
15	SP5 - Area 1		Hazardous	HP 7, HP 14	43
16	SP5 - Area 2		Hazardous	HP 7, HP 14	45
17	SP5 - Area 3		Hazardous	HP 7, HP 14	48



Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: William Bennett

Created date: 22 Oct 2021 10:02 GMT

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	51
Appendix B: Rationale for selection of metal species	52
Appendix C: Version	53

Classification of sample: SP1 - Area 1

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
SP1 - Area 1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
12.5% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.184%)

Determinands

Moisture content: 12.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				20.3	mg/kg	1.32	26.803	mg/kg	0.00268 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.1	mg/kg	2.775	3.053	mg/kg	0.000305 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.9	mg/kg	1.142	2.17	mg/kg	0.000217 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				36.7	mg/kg	1.462	53.639	mg/kg	0.00536 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				127	mg/kg	1.126	142.988	mg/kg	0.0143 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	273	mg/kg	1.56	425.83	mg/kg	0.0273 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.271	mg/kg	0.0000271 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				33	mg/kg	2.976	98.217	mg/kg	0.00982 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				663	mg/kg	2.774	1839.259	mg/kg	0.184 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		658	mg/kg		658	mg/kg	0.0658 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1.5	mg/kg	1.884	<2.826	mg/kg	<0.000283 %		<LOD
	006-007-00-5											
15	pH				7.36	pH		7.36	pH	7.36 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		201-581-5	85-01-8									
21	anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		204-371-1	120-12-7									
22	fluoranthene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
		205-912-4	206-44-0									
23	pyrene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.36	mg/kg		0.36	mg/kg	0.000036 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.52	mg/kg		0.52	mg/kg	0.000052 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.311 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0658%)

Classification of sample: SP1 - Area 2

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
SP1 - Area 2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
15% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.156%)

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.2	mg/kg	1.32	14.788	mg/kg	0.00148 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				2.1	mg/kg	1.142	2.399	mg/kg	0.00024 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				204.7	mg/kg	1.462	299.18	mg/kg	0.0299 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				93	mg/kg	1.126	104.708	mg/kg	0.0105 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	276	mg/kg	1.56	430.509	mg/kg	0.0276 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				21.9	mg/kg	2.976	65.18	mg/kg	0.00652 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				562	mg/kg	2.774	1559.07	mg/kg	0.156 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		564	mg/kg		564	mg/kg	0.0564 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1.5 mg/kg	1.884	<2.826 mg/kg	<0.000283 %		<LOD
	006-007-00-5									
15	pH				7.7 pH		7.7 pH	7.7 pH		
			PH							
16	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
17	acenaphthylene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		205-917-1	208-96-8							
18	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
19	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
20	phenanthrene				0.18 mg/kg		0.18 mg/kg	0.000018 %		
		201-581-5	85-01-8							
21	anthracene				0.24 mg/kg		0.24 mg/kg	0.000024 %		
		204-371-1	120-12-7							
22	fluoranthene				0.68 mg/kg		0.68 mg/kg	0.000068 %		
		205-912-4	206-44-0							
23	pyrene				0.63 mg/kg		0.63 mg/kg	0.000063 %		
		204-927-3	129-00-0							
24	benzo[a]anthracene				0.38 mg/kg		0.38 mg/kg	0.000038 %		
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				0.4 mg/kg		0.4 mg/kg	0.00004 %		
	601-048-00-0	205-923-4	218-01-9							
26	benzo[b]fluoranthene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
	601-034-00-4	205-911-9	205-99-2							
27	benzo[k]fluoranthene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
	601-036-00-5	205-916-6	207-08-9							
28	benzo[a]pyrene; benzo[def]chrysene				0.47 mg/kg		0.47 mg/kg	0.000047 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				0.33 mg/kg		0.33 mg/kg	0.000033 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				0.41 mg/kg		0.41 mg/kg	0.000041 %		
		205-883-8	191-24-2							
32	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.29 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

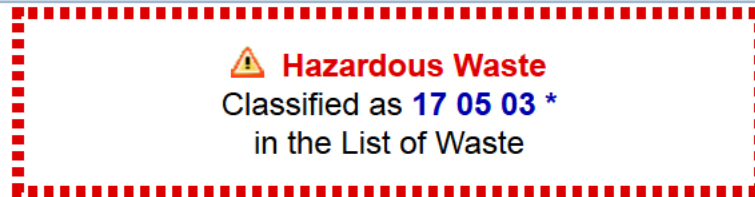
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0564%)

Classification of sample: SP1 - Area 3



Sample details

Sample name:	LoW Code:
SP1 - Area 3	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
15.6% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.189%)

Determinands

Moisture content: 15.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12.6	mg/kg	1.32	16.636	mg/kg	0.00166 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.8	mg/kg	1.142	2.056	mg/kg	0.000206 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32.1	mg/kg	1.462	46.916	mg/kg	0.00469 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				8	mg/kg	1.126	9.007	mg/kg	0.000901 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	266	mg/kg	1.56	414.911	mg/kg	0.0266 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				20.3	mg/kg	2.976	60.418	mg/kg	0.00604 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				682	mg/kg	2.774	1891.968	mg/kg	0.189 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		964	mg/kg		964	mg/kg	0.0964 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1.5	mg/kg	1.884	<2.826	mg/kg	<0.000283 %		<LOD
	006-007-00-5											
15	pH				7.76	pH		7.76	pH	7.76 pH		
			PH									
16	naphthalene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		205-917-1	208-96-8									
18	acenaphthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		201-469-6	83-32-9									
19	fluorene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		201-695-5	86-73-7									
20	phenanthrene				2.296	mg/kg		2.296	mg/kg	0.00023 %		
		201-581-5	85-01-8									
21	anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		204-371-1	120-12-7									
22	fluoranthene				8.97	mg/kg		8.97	mg/kg	0.000897 %		
		205-912-4	206-44-0									
23	pyrene				8.81	mg/kg		8.81	mg/kg	0.000881 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				5.24	mg/kg		5.24	mg/kg	0.000524 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				5.81	mg/kg		5.81	mg/kg	0.000581 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				9.94	mg/kg		9.94	mg/kg	0.000994 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				3.86	mg/kg		3.86	mg/kg	0.000386 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				8.75	mg/kg		8.75	mg/kg	0.000875 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				6.07	mg/kg		6.07	mg/kg	0.000607 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.98	mg/kg		0.98	mg/kg	0.000098 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				6.24	mg/kg		6.24	mg/kg	0.000624 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0964%)

Classification of sample: SP1 - Area 4

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
SP1 - Area 4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
16.9% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.114%)

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.28%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.114%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc chromate: (compound conc.: 0.28%)

Determinands

Moisture content: 16.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	 arsenic { arsenic trioxide }				13.3	mg/kg	1.32	17.56	mg/kg	0.00176 %		
	033-003-00-0	215-481-4	1327-53-3									
2	 beryllium { beryllium oxide }				0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %		
	004-003-00-8	215-133-1	1304-56-9									
3	 cadmium { cadmium oxide }				2	mg/kg	1.142	2.285	mg/kg	0.000228 %		
	048-002-00-0	215-146-2	1306-19-0									
4	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32.3	mg/kg	1.462	47.208	mg/kg	0.00472 %		
		215-160-9	1308-38-9									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }			1	<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				413	mg/kg	1.126	464.992	mg/kg	0.0465 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }				362	mg/kg	1.56	564.653	mg/kg	0.0362 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.2	mg/kg	1.353	0.271	mg/kg	0.0000271 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				27.2	mg/kg	2.976	80.954	mg/kg	0.0081 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				1011	mg/kg	2.774	2804.662	mg/kg	0.28 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				1139	mg/kg		1139	mg/kg	0.114 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1.5	mg/kg	1.884	<2.826	mg/kg	<0.000283 %		<LOD
	006-007-00-5											
15	pH				7.45	pH		7.45	pH	7.45 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		201-581-5	85-01-8									
21	anthracene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
		204-371-1	120-12-7									
22	fluoranthene				1.11	mg/kg		1.11	mg/kg	0.000111 %		
		205-912-4	206-44-0									
23	pyrene				1.01	mg/kg		1.01	mg/kg	0.000101 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.67	mg/kg		0.67	mg/kg	0.000067 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		205-883-8	191-24-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
32	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.493 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.114%)

Classification of sample: SP1 - Area 5

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
SP1 - Area 5	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
60.6%	Entry:
(no correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 60.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				898 mg/kg		898 mg/kg	0.0898 %		
			TPH							
2	confirm TPH has NOT arisen from diesel or petrol				☑					
3	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1.5 mg/kg	1.884	<2.826 mg/kg	<0.000283 %		<LOD
	006-007-00-5									
4	pH				7.46 pH		7.46 pH	7.46 pH		
			PH							
5	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
6	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
7	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
8	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
9	phenanthrene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		201-581-5	85-01-8							
10	anthracene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
		204-371-1	120-12-7							
11	fluoranthene				0.58 mg/kg		0.58 mg/kg	0.000058 %		
		205-912-4	206-44-0							
12	pyrene				0.51 mg/kg		0.51 mg/kg	0.000051 %		
		204-927-3	129-00-0							
13	benzo[a]anthracene				0.27 mg/kg		0.27 mg/kg	0.000027 %		
	601-033-00-9	200-280-6	56-55-3							
14	chrysene				0.34 mg/kg		0.34 mg/kg	0.000034 %		
	601-048-00-0	205-923-4	218-01-9							
15	benzo[b]fluoranthene				0.48 mg/kg		0.48 mg/kg	0.000048 %		
	601-034-00-4	205-911-9	205-99-2							
16	benzo[k]fluoranthene				0.18 mg/kg		0.18 mg/kg	0.000018 %		
	601-036-00-5	205-916-6	207-08-9							
17	benzo[a]pyrene; benzo[def]chrysene				0.34 mg/kg		0.34 mg/kg	0.000034 %		
	601-032-00-3	200-028-5	50-32-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
18	indeno[123-cd]pyrene	205-893-2	193-39-5		0.24 mg/kg		0.24 mg/kg	0.000024 %		
19	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
20	benzo[ghi]perylene	205-883-8	191-24-2		0.27 mg/kg		0.27 mg/kg	0.000027 %		
21	phenol	604-001-00-2	203-632-7		<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
Total:								0.0905 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

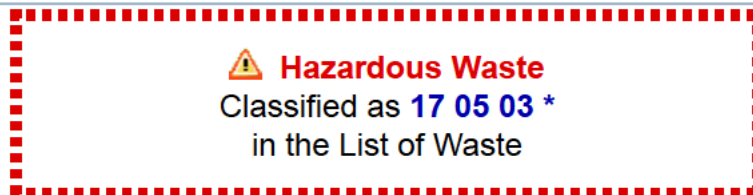
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0898%)

Classification of sample: SP1 - Area 6



Sample details

Sample name:	LoW Code:
SP1 - Area 6	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
16.5% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.153%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.153%)

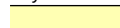
Determinands

Moisture content: 16.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	21.1	mg/kg	1.32	27.859	mg/kg	0.00279 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.9	mg/kg	2.775	5.273	mg/kg	0.000527 %		
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	69.5	mg/kg	1.462	101.578	mg/kg	0.0102 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	72	mg/kg	1.126	81.064	mg/kg	0.00811 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	145	mg/kg	1.56	226.173	mg/kg	0.0145 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	28.3	mg/kg	2.976	84.228	mg/kg	0.00842 %		

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				256	mg/kg	2.774	710.182	mg/kg	0.071 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				1529	mg/kg		1529	mg/kg	0.153 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				7.9	pH		7.9	pH	7.9 pH		
			pH									
16	naphthalene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		205-917-1	208-96-8									
18	acenaphthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		201-469-6	83-32-9									
19	fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		201-695-5	86-73-7									
20	phenanthrene				1.18	mg/kg		1.18	mg/kg	0.000118 %		
		201-581-5	85-01-8									
21	anthracene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
		204-371-1	120-12-7									
22	fluoranthene				4.45	mg/kg		4.45	mg/kg	0.000445 %		
		205-912-4	206-44-0									
23	pyrene				4.3	mg/kg		4.3	mg/kg	0.00043 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				2.21	mg/kg		2.21	mg/kg	0.000221 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				2.47	mg/kg		2.47	mg/kg	0.000247 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				4.23	mg/kg		4.23	mg/kg	0.000423 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				1.65	mg/kg		1.65	mg/kg	0.000165 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				3.87	mg/kg		3.87	mg/kg	0.000387 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				3.17	mg/kg		3.17	mg/kg	0.000317 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				3.68	mg/kg		3.68	mg/kg	0.000368 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.272 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.153%)

Classification of sample: SP1 - Area 7

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
SP1 - Area 7	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
13.36% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.129%)

Determinands

Moisture content: 13.36% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.5	mg/kg	1.32	13.863	mg/kg	0.00139 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.8	mg/kg	1.142	2.056	mg/kg	0.000206 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30.1	mg/kg	1.462	43.993	mg/kg	0.0044 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				130	mg/kg	1.126	146.365	mg/kg	0.0146 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	358	mg/kg	1.56	558.414	mg/kg	0.0358 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.1	mg/kg	1.353	0.135	mg/kg	0.0000135 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				16.2	mg/kg	2.976	48.215	mg/kg	0.00482 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				465	mg/kg	2.774	1289.978	mg/kg	0.129 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		763	mg/kg		763	mg/kg	0.0763 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
15	pH				7.96 pH		7.96 pH	7.96 pH		
			PH							
16	naphthalene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
	601-052-00-2	202-049-5	91-20-3							
17	acenaphthylene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
		205-917-1	208-96-8							
18	acenaphthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		201-469-6	83-32-9							
19	fluorene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
		201-695-5	86-73-7							
20	phenanthrene				0.66 mg/kg		0.66 mg/kg	0.000066 %		
		201-581-5	85-01-8							
21	anthracene				0.44 mg/kg		0.44 mg/kg	0.000044 %		
		204-371-1	120-12-7							
22	fluoranthene				1.95 mg/kg		1.95 mg/kg	0.000195 %		
		205-912-4	206-44-0							
23	pyrene				1.64 mg/kg		1.64 mg/kg	0.000164 %		
		204-927-3	129-00-0							
24	benzo[a]anthracene				0.88 mg/kg		0.88 mg/kg	0.000088 %		
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				1.04 mg/kg		1.04 mg/kg	0.000104 %		
	601-048-00-0	205-923-4	218-01-9							
26	benzo[b]fluoranthene				1.79 mg/kg		1.79 mg/kg	0.000179 %		
	601-034-00-4	205-911-9	205-99-2							
27	benzo[k]fluoranthene				0.7 mg/kg		0.7 mg/kg	0.00007 %		
	601-036-00-5	205-916-6	207-08-9							
28	benzo[a]pyrene; benzo[def]chrysene				1.88 mg/kg		1.88 mg/kg	0.000188 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
		205-883-8	191-24-2							
32	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.269 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

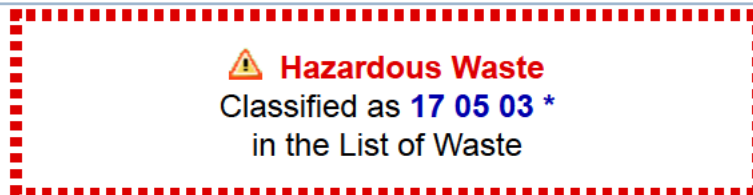
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0763%)

Classification of sample: SP1 - Area 8



Sample details

Sample name:	LoW Code:
SP1 - Area 8	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
24%	Entry:
(no correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.345%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc chromate: (compound conc.: 0.345%)

Determinands

Moisture content: **24%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				13.3 mg/kg	1.32	17.56 mg/kg	0.00176 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.9 mg/kg	2.775	2.498 mg/kg	0.00025 %			
	004-003-00-8	215-133-1	1304-56-9								
3	cadmium { cadmium oxide }				1.9 mg/kg	1.142	2.17 mg/kg	0.000217 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37.9 mg/kg	1.462	55.393 mg/kg	0.00554 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				113 mg/kg	1.126	127.225 mg/kg	0.0127 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	279 mg/kg	1.56	435.188 mg/kg	0.0279 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.135 mg/kg	0.0000135 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				21.9 mg/kg	2.976	65.18 mg/kg	0.00652 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc chromate }				1242	mg/kg	2.774	3445.49	mg/kg	0.345 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				995	mg/kg		995	mg/kg	0.0995 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.2	mg/kg	1.884	2.261	mg/kg	0.000226 %		
	006-007-00-5											
15	pH				7.72	pH		7.72	pH	7.72 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		201-581-5	85-01-8									
21	anthracene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		204-371-1	120-12-7									
22	fluoranthene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
		205-912-4	206-44-0									
23	pyrene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.53	mg/kg		0.53	mg/kg	0.000053 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.5 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0995%)

Classification of sample: SP2 - Area 1

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
SP2 - Area 1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.9% (no correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				5.9	mg/kg	1.32	7.79	mg/kg	0.000779 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				71.7	mg/kg	1.462	104.794	mg/kg	0.0105 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	27.021	mg/kg	0.0027 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	120	mg/kg	1.56	187.178	mg/kg	0.012 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				9.3	mg/kg	2.976	27.679	mg/kg	0.00277 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				100	mg/kg	2.774	277.415	mg/kg	0.0277 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		265	mg/kg		265	mg/kg	0.0265 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH		PH		8.12	pH		8.12	pH	8.12 pH		
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
17	acenaphthylene	205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	fluorene	201-695-5	86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
20	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	anthracene	204-371-1	120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.12 mg/kg		0.12 mg/kg	0.000012 %			
23	pyrene	204-927-3	129-00-0		0.11 mg/kg		0.11 mg/kg	0.000011 %			
24	benzo[a]anthracene	601-033-00-9	200-280-6		0.09 mg/kg		0.09 mg/kg	0.000009 %			
25	chrysene	601-048-00-0	205-923-4		0.09 mg/kg		0.09 mg/kg	0.000009 %			
26	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.14 mg/kg		0.14 mg/kg	0.000014 %			
27	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.06 mg/kg		0.06 mg/kg	0.000006 %			
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.12 mg/kg		0.12 mg/kg	0.000012 %			
29	indeno[123-cd]pyrene	205-893-2	193-39-5		0.09 mg/kg		0.09 mg/kg	0.000009 %			
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
31	benzo[ghi]perylene	205-883-8	191-24-2		0.12 mg/kg		0.12 mg/kg	0.000012 %			
32	phenol	604-001-00-2	203-632-7		<0.15 mg/kg		<0.15 mg/kg	<0.000015 %			<LOD
Total:									0.0838 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0265%)

Classification of sample: SP2 - Area 2

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
SP2 - Area 2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
10.7% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)

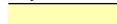
Determinands

Moisture content: 10.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	 arsenic { arsenic trioxide }				9.5	mg/kg	1.32	12.543	mg/kg	0.00125 %		
	033-003-00-0	215-481-4	1327-53-3									
2	 beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %		
	004-003-00-8	215-133-1	1304-56-9									
3	 cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0									
4	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				60.8	mg/kg	1.462	88.863	mg/kg	0.00889 %		
		215-160-9	1308-38-9									
5	 chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	 copper { dicopper oxide; copper (I) oxide }				43	mg/kg	1.126	48.413	mg/kg	0.00484 %		
	029-002-00-X	215-270-7	1317-39-1									
7	 lead { lead chromate }			1	98	mg/kg	1.56	152.862	mg/kg	0.0098 %		
	082-004-00-2	231-846-0	7758-97-6									
8	 mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	 nickel { nickel chromate }				19	mg/kg	2.976	56.549	mg/kg	0.00565 %		
	028-035-00-7	238-766-5	14721-18-7									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				211	mg/kg	2.774	585.345	mg/kg	0.0585 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				1436	mg/kg		1436	mg/kg	0.144 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				7.67	pH		7.67	pH	7.67 pH		
			PH									
16	naphthalene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		205-917-1	208-96-8									
18	acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		201-469-6	83-32-9									
19	fluorene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		201-695-5	86-73-7									
20	phenanthrene				3.48	mg/kg		3.48	mg/kg	0.000348 %		
		201-581-5	85-01-8									
21	anthracene				1.45	mg/kg		1.45	mg/kg	0.000145 %		
		204-371-1	120-12-7									
22	fluoranthene				8.46	mg/kg		8.46	mg/kg	0.000846 %		
		205-912-4	206-44-0									
23	pyrene				6.18	mg/kg		6.18	mg/kg	0.000618 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				4.66	mg/kg		4.66	mg/kg	0.000466 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				7.47	mg/kg		7.47	mg/kg	0.000747 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				5.13	mg/kg		5.13	mg/kg	0.000513 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				3.85	mg/kg		3.85	mg/kg	0.000385 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				3.63	mg/kg		3.63	mg/kg	0.000363 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.239 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

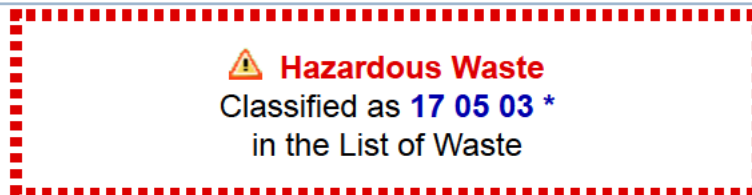
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)

Classification of sample: SP2 - Area 3



Sample details

Sample name:	LoW Code:
SP2 - Area 3	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
17.9%	Entry:
(no correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.148%)

Determinands

Moisture content: 17.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12.8	mg/kg	1.32	16.9	mg/kg	0.00169 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.2	mg/kg	2.775	3.33	mg/kg	0.000333 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.1	mg/kg	1.142	1.257	mg/kg	0.000126 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				71.8	mg/kg	1.462	104.94	mg/kg	0.0105 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				94	mg/kg	1.126	105.834	mg/kg	0.0106 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	209	mg/kg	1.56	326.001	mg/kg	0.0209 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				20.5	mg/kg	2.976	61.013	mg/kg	0.0061 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				532	mg/kg	2.774	1475.846	mg/kg	0.148 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		653	mg/kg		653	mg/kg	0.0653 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				7.67	pH		7.67	pH	7.67 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		201-581-5	85-01-8									
21	anthracene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		204-371-1	120-12-7									
22	fluoranthene				0.72	mg/kg		0.72	mg/kg	0.000072 %		
		205-912-4	206-44-0									
23	pyrene				0.66	mg/kg		0.66	mg/kg	0.000066 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.94	mg/kg		0.94	mg/kg	0.000094 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.92	mg/kg		0.92	mg/kg	0.000092 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.88	mg/kg		0.88	mg/kg	0.000088 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.264 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

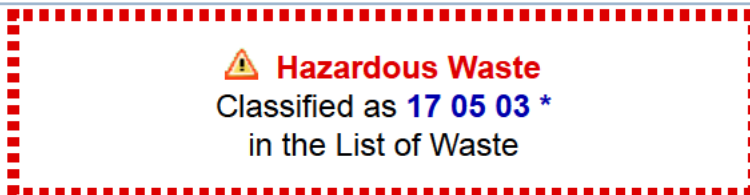
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0653%)

Classification of sample: SP2 - Area 4



Sample details

Sample name:	LoW Code:
SP2 - Area 4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
23.4% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.131%)

Carc. 1A; H350i "May cause cancer by inhalation."

Because of determinand:

nickel chromate: (compound conc.: 0.228%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

nickel chromate: (compound conc.: 0.228%)

zinc chromate: (compound conc.: 0.131%)

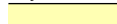
Determinands

Moisture content: 23.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12.2	mg/kg	1.32	16.108	mg/kg	0.00161 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				39.9	mg/kg	1.462	58.316	mg/kg	0.00583 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				88	mg/kg	1.126	99.078	mg/kg	0.00991 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	175	mg/kg	1.56	272.968	mg/kg	0.0175 %		
	082-004-00-2	231-846-0	7758-97-6									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				766.2	mg/kg	2.976	2280.414	mg/kg	0.228 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				473	mg/kg	2.774	1312.171	mg/kg	0.131 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				442	mg/kg		442	mg/kg	0.0442 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				7.8	pH		7.8	pH	7.8 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		201-581-5	85-01-8									
21	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		204-371-1	120-12-7									
22	fluoranthene				0.38	mg/kg		0.38	mg/kg	0.000038 %		
		205-912-4	206-44-0									
23	pyrene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.44 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

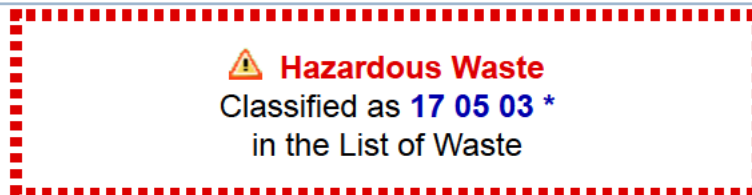
Hazard Statements hit:

Fam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0442%)

Classification of sample: SP2 - Area 5



Sample details

Sample name:	LoW Code:
SP2 - Area 5	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
15.6% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.161%)

Determinands

Moisture content: 15.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.4	mg/kg	2.775	3.885	mg/kg	0.000389 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.9	mg/kg	1.142	2.17	mg/kg	0.000217 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				46.3	mg/kg	1.462	67.67	mg/kg	0.00677 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				84	mg/kg	1.126	94.575	mg/kg	0.00946 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	634	mg/kg	1.56	988.923	mg/kg	0.0634 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				25.4	mg/kg	2.976	75.597	mg/kg	0.00756 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				581	mg/kg	2.774	1611.779	mg/kg	0.161 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		820	mg/kg		820	mg/kg	0.082 %		
13	confirm TPH has NOT arisen from diesel or petrol				☒							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.7	mg/kg	1.884	1.319	mg/kg	0.000132 %		
	006-007-00-5											
15	pH				7.89	pH		7.89	pH	7.89 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		201-581-5	85-01-8									
21	anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		204-371-1	120-12-7									
22	fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		205-912-4	206-44-0									
23	pyrene				1.03	mg/kg		1.03	mg/kg	0.000103 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.71	mg/kg		0.71	mg/kg	0.000071 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				1.07	mg/kg		1.07	mg/kg	0.000107 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

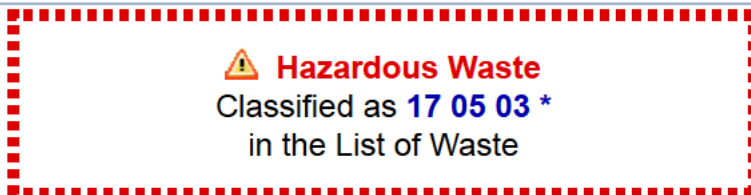
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.082%)

Classification of sample: SP2 - Area 6



Sample details

Sample name:	LoW Code:
SP2 - Area 6	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
12.9% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.298%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc chromate: (compound conc.: 0.298%)

Determinands

Moisture content: 12.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12.3	mg/kg	1.32	16.24	mg/kg	0.00162 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				1.5	mg/kg	1.142	1.713	mg/kg	0.000171 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				29.6	mg/kg	1.462	43.262	mg/kg	0.00433 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				140	mg/kg	1.126	157.624	mg/kg	0.0158 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	377	mg/kg	1.56	588.05	mg/kg	0.0377 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				26.1	mg/kg	2.976	77.681	mg/kg	0.00777 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc chromate }				1073	mg/kg	2.774	2976.659	mg/kg	0.298 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				402	mg/kg		402	mg/kg	0.0402 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				7.67	pH		7.67	pH	7.67 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		201-581-5	85-01-8									
21	anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		204-371-1	120-12-7									
22	fluoranthene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
		205-912-4	206-44-0									
23	pyrene				0.61	mg/kg		0.61	mg/kg	0.000061 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.406 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Hazardous result
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

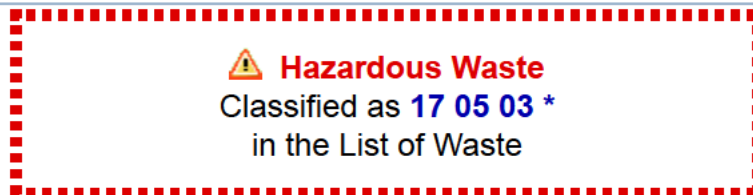
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0402%)

Classification of sample: SP5 - Area 1



Sample details

Sample name:	LoW Code:
SP5 - Area 1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
21.7% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 1.251%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc chromate: (compound conc.: 1.251%)

Determinands

Moisture content: **21.7%** No Moisture Correction applied (MC)

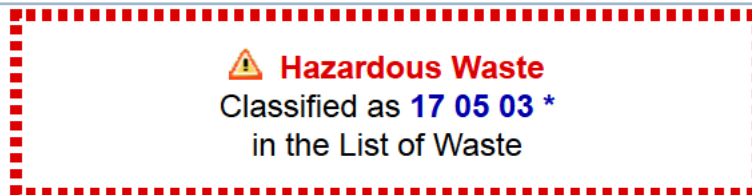
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				44.7 mg/kg	1.32	59.019 mg/kg	0.0059 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				1.1 mg/kg	2.775	3.053 mg/kg	0.000305 %			
	004-003-00-8	215-133-1	1304-56-9								
3	cadmium { cadmium oxide }				4.1 mg/kg	1.142	4.684 mg/kg	0.000468 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				81.8 mg/kg	1.462	119.555 mg/kg	0.012 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				362 mg/kg	1.126	407.572 mg/kg	0.0408 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	144 mg/kg	1.56	224.613 mg/kg	0.0144 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				20.5 mg/kg	2.976	61.013 mg/kg	0.0061 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc chromate }				4508	mg/kg	2.774	12505.853	mg/kg	1.251 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				<30	mg/kg		<30	mg/kg	<0.003 %		<LOD
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				8.06	pH		8.06	pH	8.06 pH		
			PH									
16	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		201-581-5	85-01-8									
21	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
22	fluoranthene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		205-912-4	206-44-0									
23	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
24	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										1.334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SP5 - Area 2



Sample details

Sample name:	LoW Code:
SP5 - Area 2	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
14.6% (no correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.692%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.101%)

zinc chromate: (compound conc.: 0.692%)

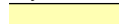
Determinands

Moisture content: 14.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				45.7 mg/kg	1.32	60.339 mg/kg	0.00603 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				1.5 mg/kg	2.775	4.163 mg/kg	0.000416 %			
	004-003-00-8	215-133-1	1304-56-9								
3	cadmium { cadmium oxide }				1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				107.1 mg/kg	1.462	156.533 mg/kg	0.0157 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				899 mg/kg	1.126	1012.174 mg/kg	0.101 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	232 mg/kg	1.56	361.877 mg/kg	0.0232 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				39.5 mg/kg	2.976	117.562 mg/kg	0.0118 %			
	028-035-00-7	238-766-5	14721-18-7								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				2494	mg/kg	2.774	6918.721	mg/kg	0.692 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				132	mg/kg		132	mg/kg	0.0132 %		
			TPH									
13	confirm TPH has NOT arisen from diesel or petrol				☒							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
15	pH				8.2	pH		8.2	pH	8.2 pH		
			pH									
16	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		205-917-1	208-96-8									
18	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
19	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
20	phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		201-581-5	85-01-8									
21	anthracene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
		204-371-1	120-12-7									
22	fluoranthene				1.21	mg/kg		1.21	mg/kg	0.000121 %		
		205-912-4	206-44-0									
23	pyrene				1.55	mg/kg		1.55	mg/kg	0.000155 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				1.01	mg/kg		1.01	mg/kg	0.000101 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
	601-036-00-5	205-916-6	207-08-9									
28	benzo[a]pyrene; benzo[def]chrysene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
	601-032-00-3	200-028-5	50-32-8									
29	indeno[123-cd]pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		205-893-2	193-39-5									
30	dibenz[a,h]anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
	601-041-00-2	200-181-8	53-70-3									
31	benzo[ghi]perylene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		205-883-8	191-24-2									
32	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.865 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1 Only the metal concentration has been used for classification	

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

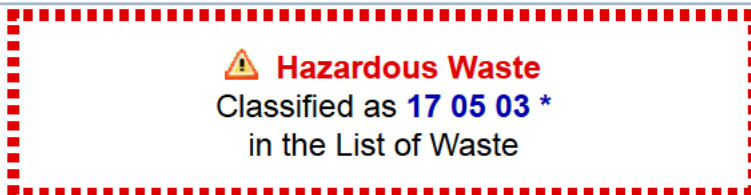
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0132%)

Classification of sample: SP5 - Area 3



Sample details

Sample name:	LoW Code:
SP5 - Area 3	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
11% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate: (compound conc.: 0.364%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.328%)

zinc chromate: (compound conc.: 0.364%)

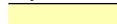
Determinands

Moisture content: **11% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				29.1	mg/kg	1.32	38.421	mg/kg	0.00384 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.1	mg/kg	2.775	3.053	mg/kg	0.000305 %		
	004-003-00-8	215-133-1	1304-56-9									
3	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				48.7	mg/kg	1.462	71.178	mg/kg	0.00712 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				2911	mg/kg	1.126	3277.461	mg/kg	0.328 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	170	mg/kg	1.56	265.169	mg/kg	0.017 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				17.9	mg/kg	2.976	53.275	mg/kg	0.00533 %		
	028-035-00-7	238-766-5	14721-18-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				1312 mg/kg	2.774	3639.68	mg/kg	0.364 %		
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group				168 mg/kg		168	mg/kg	0.0168 %		
			TPH								
13	confirm TPH has NOT arisen from diesel or petrol				☒						
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5										
15	pH				7.88 pH		7.88	pH	7.88 pH		
			PH								
16	naphthalene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
17	acenaphthylene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8								
18	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
19	fluorene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7								
20	phenanthrene				0.04 mg/kg		0.04	mg/kg	0.000004 %		
		201-581-5	85-01-8								
21	anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7								
22	fluoranthene				0.1 mg/kg		0.1	mg/kg	0.00001 %		
		205-912-4	206-44-0								
23	pyrene				0.09 mg/kg		0.09	mg/kg	0.000009 %		
		204-927-3	129-00-0								
24	benzo[a]anthracene				0.11 mg/kg		0.11	mg/kg	0.000011 %		
	601-033-00-9	200-280-6	56-55-3								
25	chrysene				0.1 mg/kg		0.1	mg/kg	0.00001 %		
	601-048-00-0	205-923-4	218-01-9								
26	benzo[b]fluoranthene				0.16 mg/kg		0.16	mg/kg	0.000016 %		
	601-034-00-4	205-911-9	205-99-2								
27	benzo[k]fluoranthene				0.06 mg/kg		0.06	mg/kg	0.000006 %		
	601-036-00-5	205-916-6	207-08-9								
28	benzo[a]pyrene; benzo[def]chrysene				0.11 mg/kg		0.11	mg/kg	0.000011 %		
	601-032-00-3	200-028-5	50-32-8								
29	indeno[123-cd]pyrene				0.09 mg/kg		0.09	mg/kg	0.000009 %		
		205-893-2	193-39-5								
30	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
31	benzo[ghi]perylene				0.09 mg/kg		0.09	mg/kg	0.000009 %		
		205-883-8	191-24-2								
32	phenol				<0.15 mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.743 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because TPH (C6 to C40) petroleum group is only hazardous as a liquid. Soil samples were solid (non-liquid).

Hazard Statements hit:

Fam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0168%)

Appendix A: Classifier defined and non CLP determinands

• **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

• **confirm TPH has NOT arisen from diesel or petrol**

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

• **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

• **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

• **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

■ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2021.293.4891.9295 (20 Oct 2021)

HazWasteOnline Database: 2021.293.4891.9295 (20 Oct 2021)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2019 - UK: 2019 No. 720 of 27th March 2019

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019