



**Phase 2 Environmental Site  
Assessment**

AOC Resins UK Ltd

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## Version control

Written by		Reviewed by	
Owen Taylor		Jayne Trevelyan	
Senior Geoenvironmental Consultant		Principal Environmental Consultant	
Approved by			
Gregg Tatum			
Principal Geoenvironmental Consultant			
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## Executive Summary

<b>Context</b>	A&A were instructed by AOC Resins UK Ltd to complete a Phase 2 ESA for an area located in the southeast corner of the wider facility at 8 Piperell Way, Haverhill, CB9 8PH. The assessment is required to inform potential contamination and ground conditions for the construction of a proposed fire water lagoon.
<b>Site Name and Location</b>	The site is located approximately 1 km south of Haverhill town centre and is approximately centred at national grid reference 567670, 244420.
<b>Site Details</b>	The site covers an area of approximately 2,000 m <sup>2</sup> and is covered in hardstanding and soil stockpiles from recent earthworks associated with the installation of a fire water storage area in the northwest corner of the wider facility.
<b>Ground Investigation Scope of Works</b>	<p>In total 7 No. trial pits (AATPI01 to AATPI07) were excavated to a maximum depth of 3.0 metres below ground level. Selected soil collected from the site was scheduled for chemical analysis (18 No. soil samples in total).</p> <p>It is noted that 20 No. trial pits locations were originally proposed, however, the investigation was limited by the presence of stockpiles.</p>
<b>Results of Ground Investigation</b>	<p>Made ground soils were encountered beneath the concrete layer at all locations, followed by superficial deposits, typically comprising a gravelly and/or sandy clay.</p> <p>All samples reported detectable concentrations of hydrocarbon compounds within shallow made ground. Detectable concentrations of metal, VOCs and SVOCs compounds were reported with highest concentrations within the made ground of AATPI01, AATPI06 and AATPI07. Concentrations do not exceed the relevant generic assessment criteria for the protection of human health for a commercial/ industrial end use.</p> <p>A total of 2 No. locations (AATPI01 and AATPI07) recorded quantifiable mass percentages of asbestos (0.618% and 0.749%).</p>
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• An additional site investigation following the removal of the current stockpiled materials.</li> <li>• The sampling and decommission of monitoring wells prior to development</li> <li>• Regular visits by an environmental consultant to complete watching briefs during future groundworks.</li> <li>• A Discovery Strategy should be adhered to by construction workers.</li> <li>• The removal of any former structures associated with underground chemical storage, if encountered, along with verification.</li> <li>• The development of a Materials Management Plan.</li> <li>• Geotechnical constraints should be considered.</li> <li>• Exposure risk from contaminants within the shallow made ground to future groundworkers should be considered (including asbestos).</li> </ul>

## 1 Introduction

Adler and Allan (A&A) were appointed by AOC Resins UK Ltd ('the client') to undertake a Phase 2 Environmental Site Assessment (ESA) of the proposed development site at AOC Resins, 8 Piperell Way, Haverhill, CB9 8PH (hereafter known as 'the site').

The proposed development of the site will comprise the construction of a fire water lagoon in the southeast of the wider AOC Resins facility.

### 1.1 Objectives

The objectives of this report are to:

- Characterise the shallow ground conditions where accessible within the proposed fire water lagoon footprint.
- Identify any potential ground hazards at the site.
- Identify any potential ground contamination observed.
- Provide recommendations for further assessment or remediation, if required.

### 1.2 Guidance and Standards

To achieve the objectives set out in **Section 1.1**, A&A has delivered the investigation and assessment in accordance with industry best practice and the following technical guidelines:

- British Standard (BS) 5930:2015+A1:2020, 'Code of practice for ground investigations'.
- BS 10175:2011+A2:2017 'Investigation of Potentially Contaminated Sites – Code of Practice'.
- Environment Agency (EA) 'Land contamination risk management' ('LCRM'), last updated 20 July 2023.
- EA Technical Report P5-065/TR, 'Technical Aspects of Site Investigation'.
- EA/NHBC R&D Publication 66: 2008, 'Guidance for the Safe Development of Housing on Land Affected by Contamination'.

- EA Technical Guidance WM3 '*Guidance on the classification and assessment of waste*', last updated in October 2021.
- Construction Industry Research and Information Association (CIRIA) Report 552 '*Contaminated Land Risk Assessment: A Guide to Good Practice*'.
- BS EN 1997-2:2007, '*Eurocode 7. Geotechnical design. Ground investigation and testing*'.

### 1.3 Previous Reports

A Phase 1 ESA report has been undertaken by A&A for the fire water lagoon and should be read in conjunction with this report. It is noted that the Phase 1 ESA reviewed several previous reports for the wider AOC Resins facility that were considered relevant to the proposed development.

### 1.4 Limitations

The findings contained within this report are based on information obtained from a variety of sources detailed in the report, which are considered to be reliable. Nevertheless, the authenticity and reliability of the information cannot be guaranteed. Further, it is possible that the research carried out, whilst fully appropriate to meet the requirements of the scope of the report, may not indicate the full extent of conditions across the site and the existence of other information sources. Assuming such sources exist, their information could not have been used in the completion of this report.

Any intrusive investigation or soil sampling is limited by scope and provides an assessment of the site conditions based on limited and selected exploratory locations from which the conditions of the site are interpreted. Site conditions may differ from information to that encountered during the site investigation or indeed may change with time. In particular, 20 No. trial pit excavations were proposed, however, a total of 7 No. excavations were able to be advanced due to the presence of stockpiles. Therefore, there is a theoretical risk that additional contamination could be present within areas that could not be investigated.

All works undertaken, including the contents of this report, are for the sole benefit of AOC Resins UK Ltd. The content shall not be relied upon by others. The benefit of this report shall

not be assigned to any other party without written permission from A&A. Should others choose to rely on it the authors owe them no duty of care or warranty of skill.

## 2 Site Setting

### 2.1 Site Location, Use & Layout

A summary of site information can be found below in **Table 2.1**.

**Table 2.1 Summary of Site Information**

<b>Name</b>	AOC Resins UK Ltd, Haverhill
<b>Address</b>	AOC Resins UK Ltd, 8 Piperell Way, Haverhill, CB9 8PH
<b>Location</b>	The site is located approximately 1 km south of Haverhill town centre.
<b>Grid Reference</b>	567670, 244420
<b>Current Land Use</b>	The primary operation for the wider facility is the manufacturing of several chemicals with associated storage and transport. The site covers an area of approximately 2,000 m <sup>2</sup> and is mainly covered in hardstanding, with soil stockpiles from recent earthworks associated with the installation of a fire water storage area in the northwest corner of the wider facility. No current buildings or structures occupy the site.
<b>Proposed Development/End Use</b>	Works proposed are for the construction of a fire water lagoon to be of approximately 2,000 m <sup>2</sup> and 1 m deep. A plan of the proposed development is provided as Figure 1.
<b>Historical Use</b>	The site was undeveloped until 1973 when it became part of the wider chemical factory, with two elongated buildings that appear to have been extended into one building by 1986, along with numerous solvent tanks in the south. The tanks were removed by 2015 and for the last 15 years the site was occupied by a tenant, Suffolk Transmissions, a vehicle maintenance repair garage. The building was demolished late May/early June 2025.

### 2.2 Environmental Setting

The geology mapped below the site comprises superficial Lowestoft Formation (sand and gravel overlying diamicton), which is classified as a Secondary A Aquifer. The bedrock comprises of Chalk, which is classified as a Principal Aquifer. The site is situated within a Source Protection Zone (SPZ) 3, which appears to be associated with a potable abstraction approximately 3.4 km southeast.

The nearest surface water feature is a land drain located approximately 40 m west and there are other land drains in the area, however, the nearest main surface watercourse to the site is Stour Brook, located approximately 460 m northeast of the site.

A local nature reserve, Haverhill Railway Walks, is mapped 189 m to the northeast.

## 2.3 Potential Sources of Contamination

From the Phase 1 ESA, the following potential sources of contamination were identified:

- Former solvent and phthalate storage, including USTs and associated infrastructure, and previous known solvent contamination within groundwater.
- Former vehicle maintenance repair garage.
- Artificial / made ground.
- Wider industrial uses, in particular historical and current chemical storage and use, including ammonia, formaldehyde and heavy metals that have been recorded within groundwater.

## 3 Ground Investigation Methodology and Scope of Works

### 3.1 Methodology

The investigation was designed to deliver targeted assessment to support the proposed construction of a fire water lagoon. **Table 3.1** outlines the scope of works completed during the investigation.

**Table 3.1 Site Investigation Methodology**

<b>Investigation Methodology</b>	Scope of Works	<p>Prior to commencement of the intrusive works, the client undertook a below ground service avoidance exercise and excavated the initial 0.2 m of the trial pit locations (concrete).</p> <p>A&amp;A completed the works through a phased approach, with a total of 2 No. site visits completed 16<sup>th</sup> June and 3<sup>rd</sup> July 2025.</p> <p>7 No. trial pits (AATPI01 to AATPI07) were excavated to a maximum depth of 3.0 metres below ground level (m bgl). Photographs of the trial pits are provided in <b>Appendix A</b> and exploratory hole records are presented in <b>Appendix B</b>. In addition, an Exploratory Hole Location Plan is presented in <b>Figure 2</b>.</p>
	Reinstatement	<p>Once completed, the trial pits were backfilled with arisings in reverse order. Any excess spoil was left mounded in an agreed area pending disposal.</p>
<b>Soil Logging and Sampling Methodology</b>	<p>The logging and sampling of soil was undertaken by a qualified A&amp;A Environmental Consultant. The soil samples were obtained in accordance with A&amp;A SOP CL15 and logged in general accordance with BS 5930:2015. Details of the depth and sample identifications are presented on the exploratory hole records in <b>Appendix B</b>.</p> <p>During the investigation, representative soil samples were collected and placed into small plastic bags to allow accurate screening for volatile vapours. The soil samples were screened using a photo-ionisation detector (PID), detection limit of 0.1 parts per million (ppm) in accordance with A&amp;A SOP CL7.</p>	

	Following initial screening and logging, selected soil samples were placed into suitable glass jars for chemical analysis in accordance with A&A SOP CL6. The results from the PID screening are presented on the exploratory hole records in <b>Appendix B</b> .
<b>Sample Handling</b>	Once collected, the samples from the site were transferred in cool boxes to Element Materials Technology (an A&A approved and UKAS accredited laboratory) for chemical analysis with an appropriate chain of custody.

### 3.2 Chemical Laboratory Analysis

Selected soil collected from the site were scheduled for chemical testing to allow an assessment of any potential contamination present and facilitate an assessment of waste classification. The completed chemical analysis is presented in **Table 3.2**.

**Table 3.2 Laboratory Chemical Analysis**

<b>Analysis Summary</b>	<b>Number of Soil Samples Analysed</b>
Full CLEA Metals	14
Total petroleum hydrocarbons (TPH) CWG	18
Volatile organic compounds (VOC)	18
Semi-volatile organic compounds (SVOC)	18
Phenols	18
Hexavalent Chromium	14
pH	18
Glycols	12
Asbestos ID	15* (Including one suspected ACM)
Asbestos Quantification Testing	6
Waste Acceptance Criteria	1

Results of the chemical laboratory analysis are presented in **Appendix C**.

## 4 Results of Ground Investigation

The following section outlines the ground conditions encountered during the investigation, the results of the in-situ screening and testing, and the results of the laboratory analysis.

### 4.1 Ground Conditions Encountered

The ground conditions encountered during the ground investigation are summarised in the table below:

Location ID	Completion Depth (m)	Surfacing	Made Ground Geological Description	Natural Geological Description
AATP101	1.92	Concrete with reinforcing bar (0.1 m in thickness)	(North of pit) Dark greyish blue with light brown mottling, clayey gravel. Gravel comprising brick, concrete and chalk. (South of pit) Reddish brown gravelly sand. Gravel is fine to coarse, angular to subangular of brick. Frequent angular cobbles of brick.	Natural soils from 0.45 m typically comprising light grey silt or clay with gravels of chalk.
AATP102	1.00	Concrete with reinforcing bar (0.09 m in thickness)	Orangish brown slightly gravelly clayey sand. Gravel comprised of chalk and bands of weathered sandstone.	Natural not encountered.
AATP103	2.30	Concrete with reinforcing bar (0.1 m in thickness)	Light brown slightly silty sandy gravel. Gravel of concrete and flint. Occasional angular cobbles of sandstone and brick.	Light brown/orangish brown slightly gravelly clayey sand and a light brown/ light grey mottled dark orange sandy clay.
AATP104	2.10	Concrete with plastic membrane	(South of pit) Reddish brown gravelly sand. Gravel is fine to coarse,	Light brown with orangish mottling, slightly gravelly

		(0.15 m in thickness)	angular to subangular of brick. (North of pit) Dark/black slightly sandy gravelly clay. Gravel of chalk and rare flint.	sandy clay. Gravel of flint with frequent cobbles of flint.
AATP105	2.70	Concrete with reinforcing bar (0.1 m in thickness)	Light brown gravelly sand and a dark greyish brown gravelly clay. Gravels typically comprised brick, chalk, concrete and flint.	Natural soils encountered at 1.50 m bgl comprising a gravelly and/ or sandy clay.
AATP106	2.60	Concrete with reinforcing bar (0.21 m in thickness)	Dark grey, stained sandy gravel. Gravels comprised flint, sandstone and brick.	Natural soils encountered at 1.00 m bgl comprising a gravelly and/ or sandy clay.
AATP107	2.70	Concrete with reinforcing bar (0.1 m in thickness)	Dark grey, stained sandy gravel and a gravelly clay. Gravels typically comprised brick and flint.	Natural soils encountered at 1.30 m bgl comprising a bluish grey, slightly sandy/ gravelly clay and a light greyish white weathered chalk (putty chalk) and encountered at 1.70 m bgl.

## 4.2 Below Ground Structures

A 200 mm diameter vitrified clay pipe was encountered within AATP102 between 0.40 and 0.60 m, running in a west to east orientation along the length of the trial pit.

A concrete footing for the demolished building was observed within AATP103 at 1.00 m bgl. The concrete footing was beneath a brick structure. The trial pit was advanced to the north of this feature and advanced to 2.30 m below ground level. It is anticipated that the concrete was approximately 0.30 m thick.

### 4.3 Visual and Olfactory Contamination – Soils

PID readings ranged from 0.0 ppm to 22.3 ppm. Slightly elevated PID readings (>10 ppm) were recorded in 6 No. of the 47 No. total readings. The highest reading of 22.3 ppm was recorded in AATPI07 at 1.70 m bgl. All 6 no. readings were recorded in AATPI05 to APPTPI07 during the second phase of investigation, suggesting a slightly increased impact of volatile compounds within the excavations in the eastern area of the site.

### 4.4 Groundwater

Water seepages were observed in AATPI06 at 0.80 m bgl. This groundwater was situated within the granular strata of made ground and given the lack of groundwater presence in the remaining 6 No. excavations, it is likely this water is 'perched water' and not representative of a superficial groundwater aquifer.

### 4.5 Chemical Laboratory Test Results

In total, 18 No. soil samples were submitted for chemical analysis.

Where possible the soil results have been compared to the respective Human Health guidance criteria for a commercial/ industrial end use including LQM/CIEH S4ULs, Tier 1 Generic Assessment Criteria (GAC) produced by CL:AIRE/AGS and Soil Guideline Values (SGV).

Guideline values for 1.0% Soil Organic Matter (SOM), where available, have been used in this assessment to assess risks to Human Health as they are the most conservative. The Tier 1 Assessment is contained within **Appendix D**.

#### 4.5.1 Hydrocarbon Analysis

The laboratory limit of detection (LOD) was exceeded in 5 No. of the 18 No. soil samples submitted for analysis. A summary of the detectable results for each location is presented below:

Location ID	Depth (m)	Total TPH Concentration (mg/kg)	Laboratory Interpretation
AATPI01	0.50 (S)	8,127	Lubricating oil
AATPI02	No detections of TPH compounds above the laboratory LOD (<38).		
AATPI03			
AATPI04			
AATPI05	0.3	93	Possible gasoline residues
AATPI06	0.5	1,603	Polycyclic aromatic hydrocarbons (PAHs), possible gasoline residues & diesel
	0.8	443	PAHs & possible gasoline residues
AATPI07	0.45	295	PAHs & possible gasoline residues

All samples with detections of hydrocarbon compounds above the laboratory LOD were recorded within shallow made ground samples. These detections are typically located within the eastern area of the site, with detections not recorded within AATPI02 – AATPI04, which were situated within the western area, within the footprint of the building that was recently demolished as part of the site works.

No concentrations of individual carbon bands exceeded the relevant GACs for the protection of human health for a commercial/ industrial end use.

Solubility limits of individual carbon bands were exceeded in a single hydrocarbon band (Aliphatic C12 – C16) within AATPI06 at 0.50 m. The recorded concentration within this made ground sample is 106 mg/kg, compared to the solubility limit of 24 mg/kg. This exceedance may be indicative of entrained free phase oil contamination within the soil matrix. However, based on observations made during the investigation, this is unlikely to present a risk as no evidence of free phase product was noted during the investigation.

#### 4.5.2 MTBE and BTEX Analysis

Methyl tert-butyl ether (MTBE) was not detected in any of the 18 No. samples analysed. 5 No. samples had detections above the laboratory LOD for benzene, toluene, ethylbenzene

and xylene (BTEX) compounds, however, none were recorded above the relevant guidance values. The samples with concentrations detected above LOD were:

- AATPI01 at 0.60 m (N).
- AATPI05 at 1.00 m and 2.00 m.
- AATPI06 at 1.75 m.
- AATPI07 at 0.45 m.

It should be noted that the highest overall concentration of BTEX was recorded within AATPI06 at 1.75 m suggesting a slight impact within the natural clay in the eastern area of the site.

#### **4.5.3 VOC, SVOC and PAH Analysis**

Detectable concentrations for VOCs were recorded in 5 No. of the 18 No. total samples, however, none were recorded to be above the relevant GAC values.

Detectable concentrations for PAH/SVOC compounds were recorded in 13 No. of the 18 No. total samples which included bis(2-ethylhexyl) phthalate, (1,115,129 ug/kg), di-n-butyl phthalate (33,181 ug/kg) and diethyl phthalate (5,547 ug/kg) and Naphthalene (215 ug/kg) and Benzo(a)pyrene (12,318 ug/kg).

However, soil concentrations did not exceed relevant GAC values. Typically, the highest concentrations were recorded within AATPI01 (0.5m), AATPI06 (0.5 m and 0.8 m) and AATPI07 (0.45 m).

#### **4.5.4 Heavy Metals Analysis**

All 14 No. made ground samples recorded detectable concentrations of metals. However, concentrations did not exceed the relevant GAC values.

#### **4.5.5 Phenols and Glycols Analysis**

Detectable concentrations of phenol were recorded in AATPI01 at 0.50 m and AATPI05 at 0.30 m. However, concentrations did not exceed relevant GAC value.

A detectable concentration of diethylene glycol was recorded within AATPI03 at 0.40 m. Although there is no human health soil guidance value available, it is noted that the

concentration recorded is significantly below the HSE’s Workplace Exposure Limit (WEL) of 23 ppm for a long-term exposure limit of 8 hours.

#### 4.5.6 pH Analysis

pH values ranged from relatively neutral of 7.61 (AATP106 at 1.75 m) to alkaline of 11.61 (AATP105 at 0.30 m). The high pH is likely to be associated with the sub base material beneath the concrete surface layer.

#### 4.5.7 Asbestos Analysis

From a total of 15 No. samples, 4 No. samples detected the presence of asbestos, presented in the table below:

Sample ID	Depth (m)	Result	Total Asbestos Containing Material (ACM) Gravimetric Quantification (mass%)
AATP101	0.50	Asbestos fibre bundles comprising chrysotile, amosite and bitumen products.	0.618%
AATP102	0.30	Asbestos fibre bundles comprising chrysotile.	<0.001%
AATP106	0.80	Asbestos fibres comprising chrysotile and debris comprising amosite.	<0.001%
AATP107	0.45	Asbestos fibres comprising chrysotile and debris comprising amosite.	0.749%

In accordance with the HSE Asbestos: The Analysts’ Guide issued in 2021 (which is noted to also refer to the Control of Asbestos Regulations (CAR) 2012), Section 7 (Soils and Made Ground) states that air monitoring has shown fibre concentrations rarely exceed the limit of quantification (LOQ) and are unlikely to exceed the control limit unless the work is disturbing relatively high percentages (>1%) of unbound asbestos in dry soil.

It should be noted, however, that in accordance with Waste Classification Guidance WM3, if waste soils contain fibres that are free and dispersed, the waste would be classified hazardous if the waste as a whole contains 0.1% or more asbestos.

#### **4.5.8 Waste Analysis**

A single composite sample was obtained from the stockpiled created during the first phase of the investigation. This sample recorded detectable concentration of both aliphatic and aromatic compounds; however, these are below the relevant GAC values.

The sample recorded elevated concentrations of phthalates, specifically bis(2-ethylhexyl) phthalate, (121,171 ug/kg), di-n-butyl phthalate (2,926 ug/kg) and diethyl phthalate (266 ug/kg). The sample recorded no exceedances of VOC compounds.

Chrysotile asbestos fibres were noted within the waste composite at Total ACM Gravimetric Quantification (% Asbestos) <0.001%.

## 5 Generic Quantitative Risk Assessment (GQRA)

### 5.1 Human Health Assessment

The assessment has shown that there were no exceedances of the 1% SOM GAC for a commercial/ industrial land use, therefore, there is considered to be no unacceptable level of risk to human health for the future use.

It should be noted that slightly elevated concentrations of contaminants were recorded, particularly petroleum hydrocarbons from the eastern part of the site, with laboratory interpretation of chromatography indicating lubricating oil, PAHs, possible gasoline residues and diesel. In addition, asbestos fibres (including bundles) and debris of chrysotile and amosite were detected in AATP101 and AATP107. However, they were all recorded within the top metre of ground material that is to be excavated and removed from site for the construction of the fire water lagoon. Whilst there is considered to be a very low risk to future site users, there remains a potential risk to construction workers during the development, which is detailed further within the updated Conceptual Site Model (CSM) in **Section 5.3** below.

### 5.2 Groundwater Assessment

Given that significant contamination was not encountered within the soils, the risk to groundwater is considered to be reduced. Although slightly elevated concentrations of petroleum hydrocarbons were recorded in the east of the site, natural soils below Made Ground was identified to predominantly comprise of clay that would reduce the potential for vertical contaminant migration into the deeper underlying Chalk Aquifer.

### 5.3 Updated Conceptual Site Model

Following completion of the ground investigation and based on the chemical analysis undertaken, the key environmental risks identified are as follows:

**Table 5.1 CSM and Qualitative Risk Assessment Summary**

Key Receptors	Detail
Human Health	It is considered that the CSM presented in the Phase 1 ESA should not be changed, with an overall <b>Very Low</b> risk to future site users, <b>Moderate</b> risk to construction workers and a <b>Low</b> risk to off-site users. Risks can be managed by the use of PPE and construction methods to suppress dust generation.
Groundwater	Following the development of the fire water lagoon, the risk to groundwater is considered to be <b>Low</b> as there will be no/ limited infiltration of water into the ground with the presence of such infrastructure. As per the Phase 1 ESA, there is a potential risk for the mobilisation of contamination during construction, although the depth of the excavation and presence of underlying superficial deposits will likely restrict the horizontal migration of contamination.
Surface Water & Ecology	On the basis of the potential risk to groundwater and distance to surface water and ecology receptors, as per the Phase 1 ESA, the risks to these receptors are considered to be <b>Low</b> .

## 5.4 Other Ground Condition Considerations

Consideration should be given to buried structures and whether they should be removed to avoid any future structural integrity.

As identified from the Phase 1 ESA, there could be former UST's and/ or associated infrastructure present that should be removed, if encountered, along with verification of the remaining ground materials/ soils.

Neutral to alkaline pH conditions have been detected in the samples of Made Ground and underlying natural soils analysed. The higher/ more alkaline conditions were recorded within shallower soils that will be excavated as part of the development, however, consideration should be given to alkaline conditions and other chemical parameters, such as sulphate, that can affect future structures/ concrete.

Consideration should be given to the waste materials that will be generated and disposed of, particularly contaminants causing the waste materials to be classified as hazardous (such as asbestos above 0.1%) that will likely increase disposal costs. A Materials

Management Plan should be developed, and it may be beneficial to segregate waste materials.

## 6 Conclusions & Recommendations

### 6.1 Conclusions

Overall, no widespread or significant soil contamination was observed across the 7 No. trial pit areas advanced across the site. Whilst slightly elevated concentrations of contaminants were recorded, particularly petroleum hydrocarbons from the eastern part of the site, and the detection of asbestos in AATPI01 and AATPI07, they were all recorded within the top metre of ground material that is to be excavated and removed from site for the construction of the fire water lagoon.

From consideration of the original Conceptual Site Model (CSM) within the previous Phase 1 assessment and the results of the ground investigation, the risks remain unchanged as follows:

- **Low to very low** risks to future site users, offsite neighbours, nearby surface water and a nearby ecologically sensitive site.
- **Moderate** risks to ground workers and to groundwater during construction (due to removal of the concrete layer). The risk to groundwater will be reduced to Low following development.

However, it should be highlighted that as mentioned within the limitations, **Section 1.4**, the scope of works proposed was reduced due to the presence of stockpiles and given that localised contamination has been encountered, further contamination could be present in areas not investigated to date, particularly across the north-east and south-west of the site. On this basis, there is a possibility of additional and/ or increased land contamination risks.

### 6.2 Recommendations

On the basis of the previous Phase 1 ESA and conclusions presented above, the following are recommended:

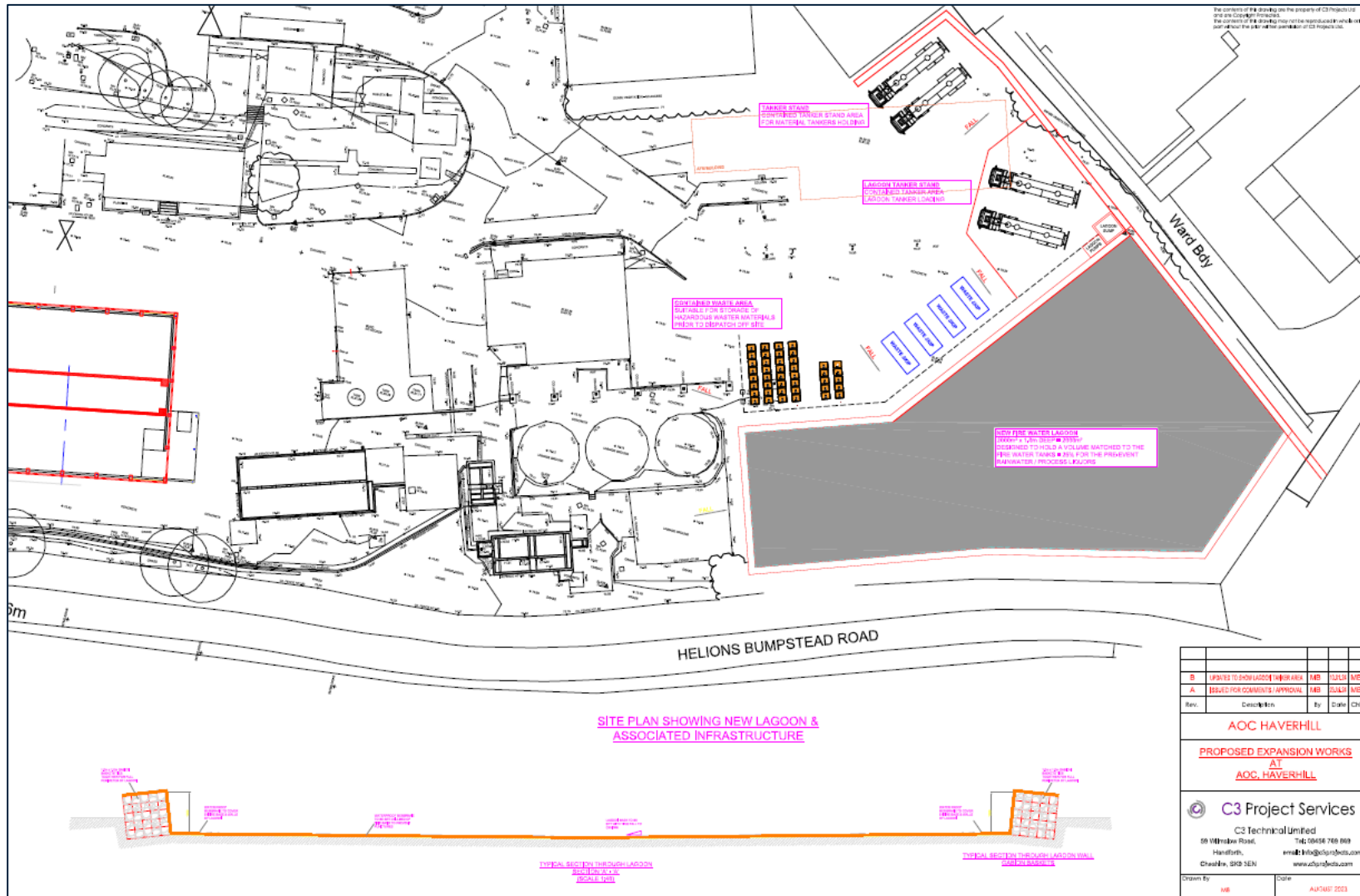
- An additional site investigation to be completed following the removal of the current stockpiled materials to cover areas of the site not previously investigated and assessed.

- Access and sampling of existing groundwater monitoring wells in the south-east of the site prior to development to provide relative baseline groundwater quality and subsequently decommissioned prior to construction to ensure no preferential pathways for any contamination is present.
- Regular visits by an Environmental Consultant should be undertaken to complete watching briefs during future groundworks.
- A Discovery Strategy should be implemented and adhered to by construction workers during the development.
- Should any former structures associated with underground chemical storage be encountered during groundworks for the construction of the fire water lagoon, they should be removed, along with verification (including soil sampling) and the excavation.
- The development of a Materials Management Plan.
- Geotechnical constraints should be considered, such as the presence of general underlying historical structures and chemicals (e.g. pH and sulphate) that could impact concrete/ the future fire water lagoon infrastructure.

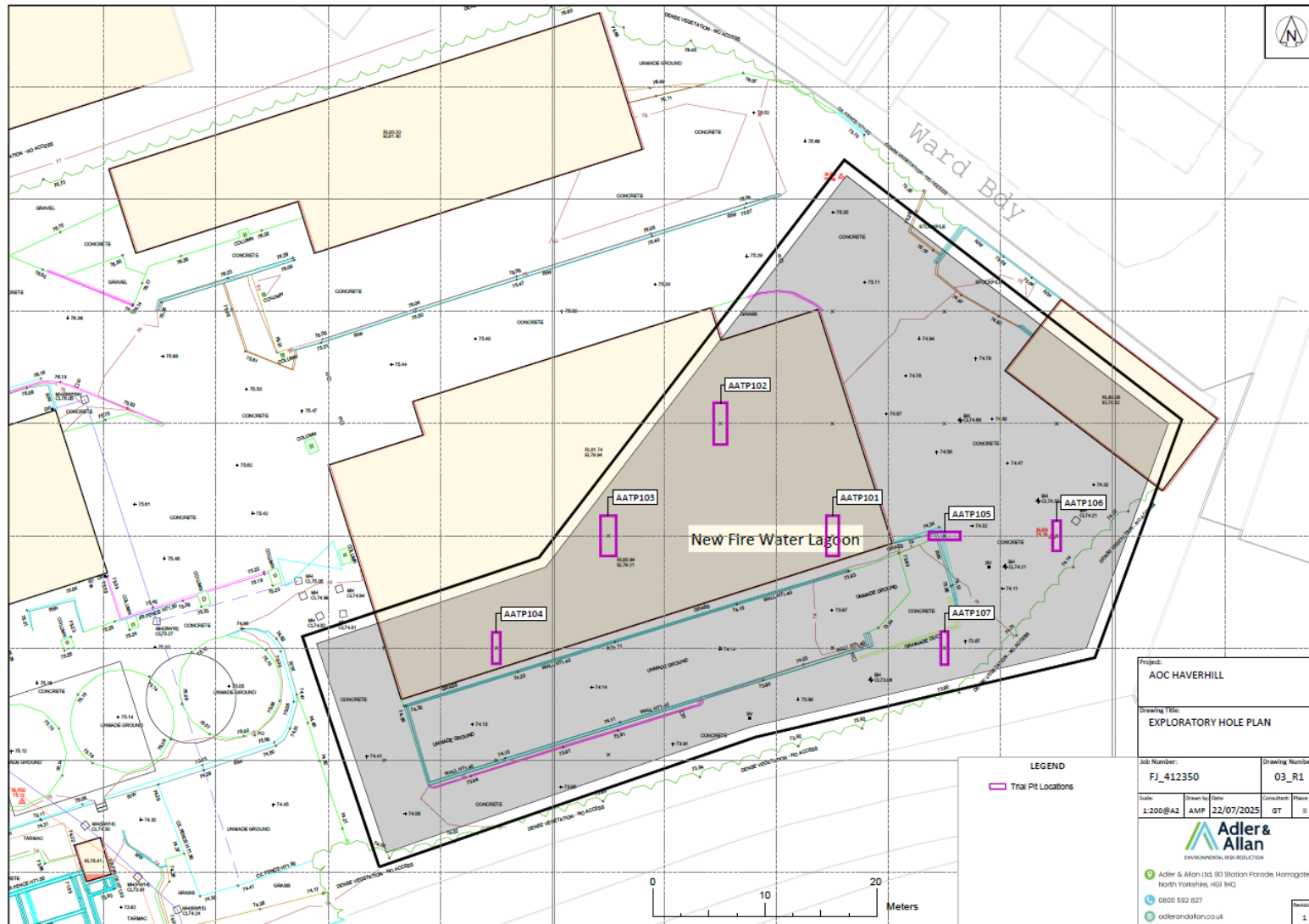
In addition to the above, the potential risks to groundworkers should be appropriately considered by the contractors, with a health and safety risk assessment completed prior to works being undertaken. The contamination identified during this investigation and the additional site investigation should be reviewed. There may only be the requirement for basic mitigation measures, such as PPE and dust suppression etc., however, specific measures, such as air monitoring and/ or respiratory protection equipment (RPE) may be needed.

# Figures


**Figure 1: Proposed Fire Water Lagoon Plan**



**Figure 2: Exploratory Hole Plan**



# Appendix A – Photographic Records

<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 1**

Photograph of trial pit AATP101.

18.06.2025




**Photograph 2**

Photograph of trial pit AATP101 soil stockpiling.

18.06.2025



<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 3**

Photograph of trial pit AATP102.

18.06.2025




**Photograph 4**

Photograph of trial pit AATP102 soil stockpiling.

18.06.2025



<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 5**

Photograph of trial pit AATP103.

18.06.2025




**Photograph 6**

Photograph of trial pit AATP103 soil stockpiling.

18.06.2025

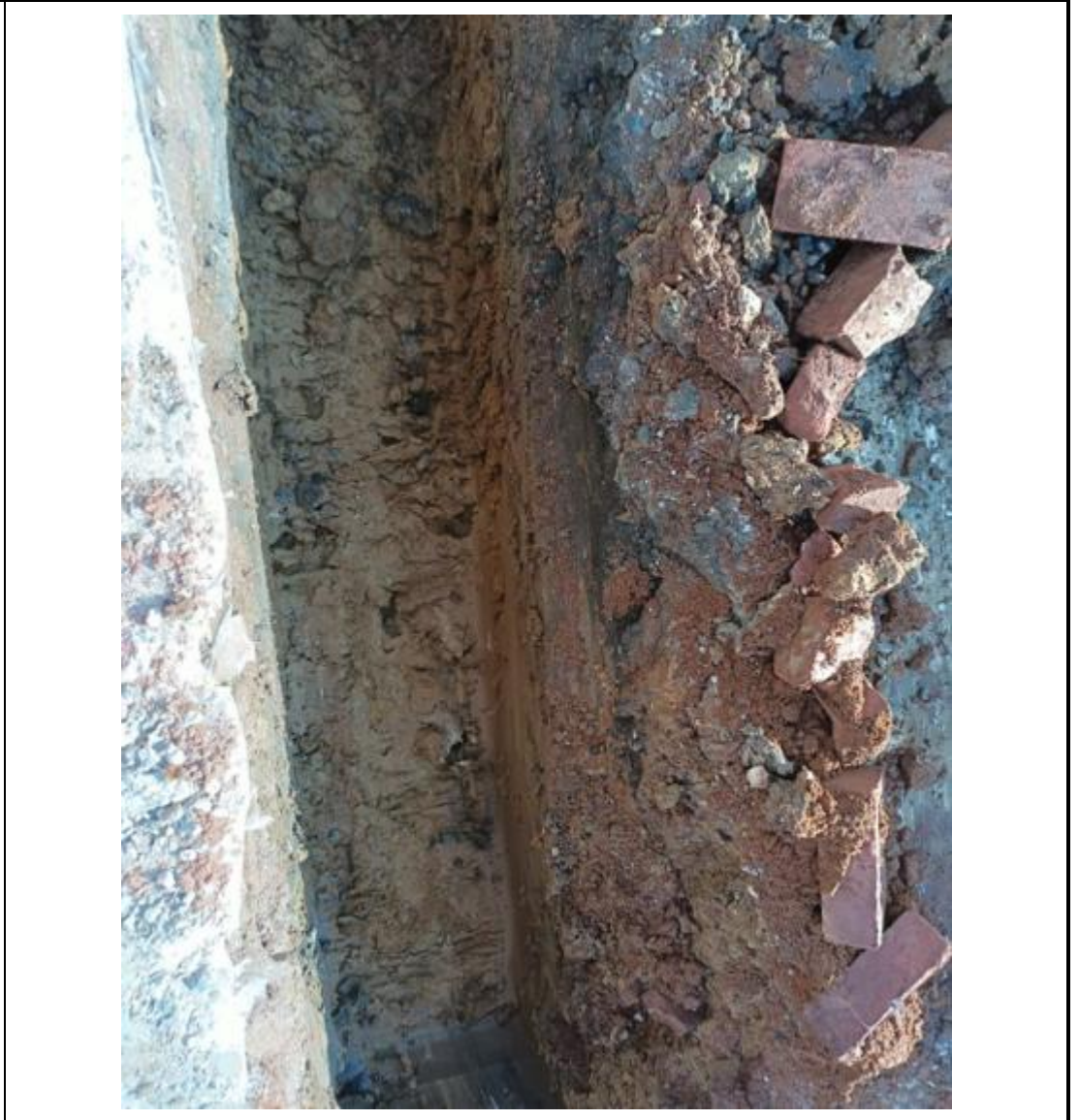



<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 7**

Photograph of trial pit  
AATP104.

19.06.2025

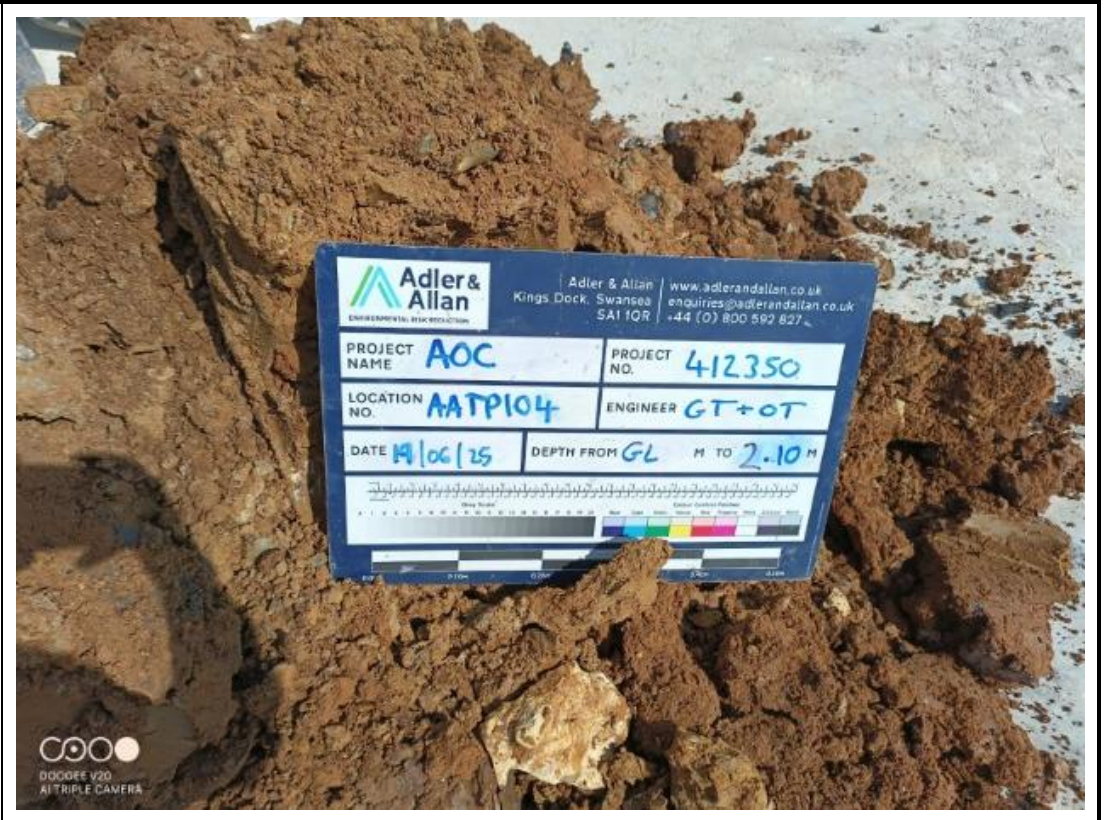


<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 8**

Photograph of trial pit AATP104 soil stockpiling.

19.06.2025




**Photograph 9**

Photograph of trial pit AATP105.

19.06.2025

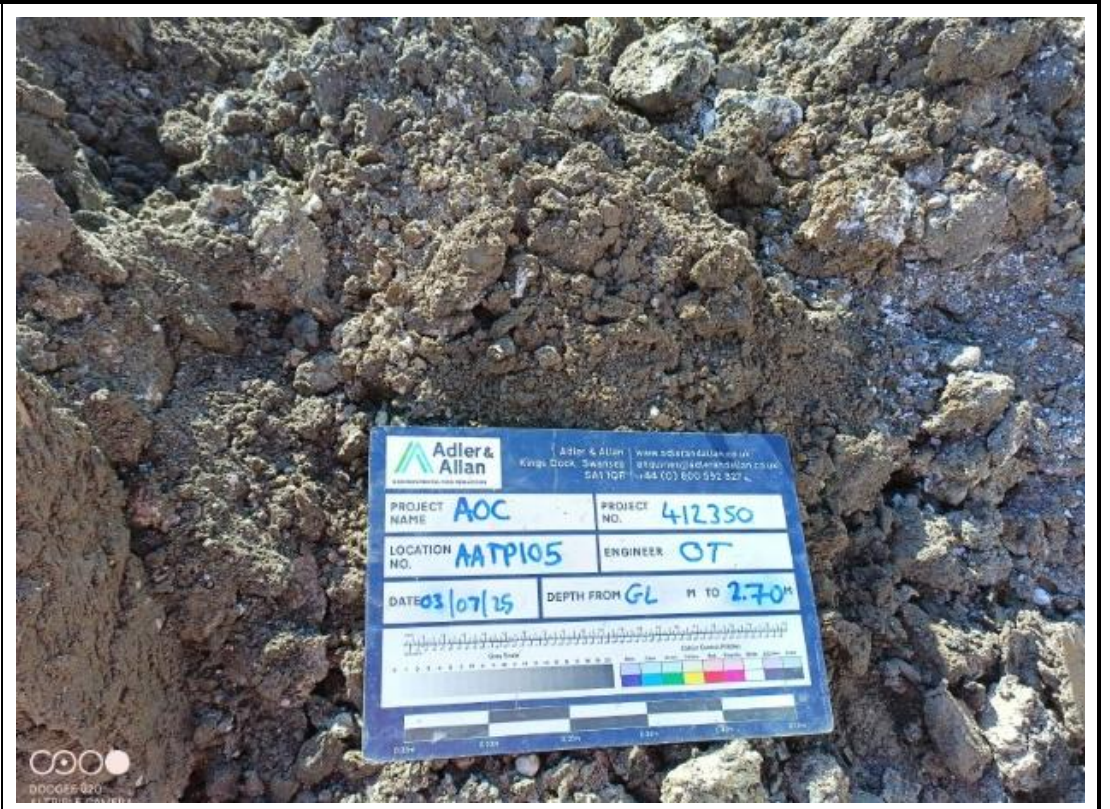


<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 10**

Photograph of trial pit AATP105 soil stockpiling.

19.06.2025




**Photograph 11**

Photograph of trial pit AATP106.

03.07.2025




<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 12**

Photograph of trial pit  
AATP106 soil stockpiling.

03.07.2025




<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 13**

Photograph of trial pit AATP107.

03.07.2025



<b>CLIENT:</b>	AOC Resins	<b>DATE:</b>	18.06.2025 – 03.07.2025	 <b>Adler &amp; Allan</b> ENVIRONMENTAL RISK REDUCTION
<b>Job Number:</b>	FJ_412350	<b>SITE NAME:</b>	AOC Resins	

**Photograph 14**

Photograph of trial pit  
AATP107 soil stockpiling.

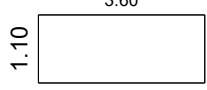
03.07.2025



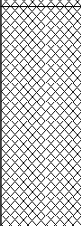





# **Appendix B – Exploratory Trial Pit Records**

# Trial Pit Log

TrialPit No  
AATP101  
Sheet 1 of 1

Project Name: AOC Haverhill	Project No. FJ_412350	Co-ords: 567635.00 - 244400.00 Level:	Date 18/06/2025
Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH		Dimensions (m): Depth 1.92	Scale 1:10 Logged OT & GT
Client: AOC			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete with reinforcing bar.
				0.20			MADE GROUND: Light grey sandy angular to sub angular fine to coarse GRAVEL of limestone.
				0.50			MADE GROUND: North of pit - Dark greyish blue with light brown mottling, clayey slightly sandy angular to subangular fine to coarse GRAVEL of brick, concrete, chalk. Sand is black comprised of ash. South of pit - Reddish brown gravelly SAND. Gravel is angular to subangular fine to coarse brick. Sand is fine to coarse brick. Frequent angular cobbles of brick.
	0.50 0.50	ES PID	PID=5.2	0.50			(North of pit) Dark grey/black slightly gravelly SILT. Gravel is angular to subrounded fine to coarse chalk with occasional roots. (South of pit) Yellowish light brown mottled orange slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is angular to subrounded fine to coarse chalk and flint. Strata is friable and dry. Frequent fine pale rootlets.
	0.60 0.60	ES PID	PID=2.5	0.60			Dark grey/black slightly gravelly SILT. Gravel is subangular to rounded, fine to coarse of chalk. Occasional black rootlets. Light greyish brown slightly clayey slightly gravelly sandy SILT. Gravel is fine subangular of chalk. Sand is fine to coarse.
	1.30	PID	PID=0.0	1.22			Light grey sandy slightly gravelly CLAY. Sand is fine to coarse at 1.25m. Gravel is subangular, fine to coarse of chalk.
				1.92			End of Pit at 1.92m

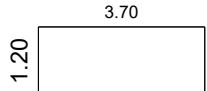
**Remarks:**



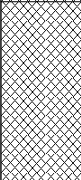
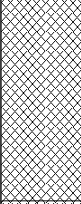
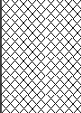
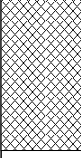


1. Logged in general accordance with BS 5930:2015.
2. Consistency description of fine soils is based on Table 8 of BS5930.
3. Excavation advanced to 1.92 m bgl.
4. North and South of trial pit has varying lithologies, logged accordingly.

**Stability:**

# Trial Pit Log

TrialPit No  
AATP102  
Sheet 1 of 1

Project Name: AOC Haverhill	Project No. FJ_412350	Co-ords: 567645.00 - 244400.00 Level:	Date 18/06/2025
Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH		Dimensions (m): Depth 1.00	Scale 1:10
Client: AOC			Logged OT & GT

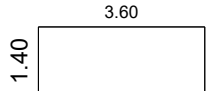
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.09			MADE GROUND: Concrete with reinforcing bar.
				0.15			MADE GROUND: Light grey sandy gravel angular to subangular fine to coarse GRAVEL of limestone.
	0.30 0.30 0.30	B ES PID	PID=0.0				MADE GROUND: Brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse concrete and brick. Angular to subrounded cobble of brick.
							200mm diameter vitrified clay pipe encountered at 0.4 to 0.6 m bgl running in a west to east orientation along the length of the trial pit.
	0.50	PID	PID=0.0				
				0.65			MADE GROUND: Orangish brown slightly gravelly clayey SAND. Gravel is angular to subrounded fine to coarse chalk and bands of weathered sandstone.
	0.80	PID	PID=0.0				
	1.00 1.00	ES PID	PID=0.0	1.00			End of Pit at 1.00m



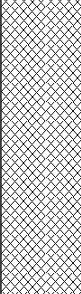

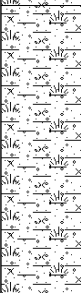
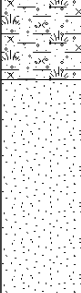

Remarks: 1. Logged in general accordance with BS 5930:2015.  
2. Consistency description of fine soils is based on Table 8 of BS5930.  
3. Excavation advanced to 1.00 m bgl.

Stability:

# Trial Pit Log

 TrialPit No  
**AATP103**  
 Sheet 1 of 2

Project Name: AOC Haverhill	Project No. FJ_412350	Co-ords: 567655.00 - 244400.00 Level:	Date 18/06/2025
Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH		Dimensions (m): Depth 2.30	Scale 1:10 Logged OT & GT
Client: AOC			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete with reinforcing bar.
				0.19			MADE GROUND: Light grey sandy angular to subangular fine to coarse GRAVEL of limestone.
	0.40 0.40	ES PID	PID=0.2				MADE GROUND: Light brown slightly silty sandy subangular to subrounded fine to coarse GRAVEL of concrete and flint. Sand is fine to coarse. Occasional angular cobbles of sandstone and brick
	0.80 0.80	ES PID	PID=0.0				Light brown/orangish brown slightly gravelly clayey SAND. Gravel is subangular fine flint. Sand is fine to coarse.
	1.10	PID	PID=0.0				Light brown slightly clayey SAND. Sand is fine to coarse with occasional cobbles of rounded flints.
	1.50	PID	PID=0.0				Light grey/light brown SAND. Sand is fine to coarse
	2.00	PID	PID=0.0				Light grey/light brown SAND. Sand is fine to coarse with rare angular cobble of flint.
Continued on Next Sheet							

Remarks: 1. Logged in general accordance with BS 5930:2015.  
 2. Consistency description of fine soils is based on Table 8 of BS5930.  
 3. Excavation advanced to 2.30 m bgl.

Stability:



# Trial Pit Log

TrialPit No  
AATP103  
Sheet 2 of 2

Project Name: AOC Haverhill	Project No. FJ_412350	Co-ords: 567655.00 - 244400.00 Level:	Date 18/06/2025
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Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH	Dimensions (m): Depth 2.30	Scale 1:10
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Client: AOC		Logged OT & GT
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Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				2.20			Light grey/light brown SAND. Sand is fine to coarse with rare angular cobble of flint.
	2.30	PID	PID=0.3	2.30			Light brown/light grey mottled dark orange sandy CLAY. Lenses of weathered sandstone.
							End of Pit at 2.30m

Remarks: 1. Logged in general accordance with BS 5930:2015.  
 2. Consistency description of fine soils is based on Table 8 of BS5930.  
 3. Excavation advanced to 2.30 m bgl.

Stability:

# Trial Pit Log

 TrialPit No  
**AATP104**  
 Sheet 1 of 2

Project Name: <b>AOC Haverhill</b>	Project No. <b>FJ_412350</b>	Co-ords: 567635.00 - 244410.00 Level:	Date <b>19/06/2025</b>
Location: <b>AOC Resins, Piperell Way, Haverhill, CB9 8PH</b>		Dimensions (m): 2.80 0.72	Scale <b>1:10</b>
Client: <b>AOC</b>		Depth <b>2.10</b>	Logged <b>OT &amp; GT</b>

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.15			MADE GROUND: Light grey concrete with plastic membrane.
	0.40	PID	PID=6.2	0.40			MADE GROUND: South of pit - Reddish brown gravelly SAND. Gravel is angular to subangular fine to coarse brick. Sand is fine to coarse brick. Frequent angular cobbles of brick. North of pit - Dark/black slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine to medium chalk and rare flint.
	0.55 0.55	ES PID	PID=9.4				MADE GROUND: South of pit - Brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to subrounded brick and chalk, occasional timber. North of pit - Dark grey/black slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded chalk and flint. Rare fine rootlets.
	0.70 0.70	ES PID	PID=5.2				
				0.85			(North of pit) Light brown slightly gravelly very sandy CLAY. Gravel is subangular to subrounded fine to coarse flint with rare flint cobbles. (South of pit) Brown slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint with rare cobbles of flint.
	1.10	PID	PID=0.0	1.10			Light brown with orangish mottling, slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint with frequent cobbles of flint.
	1.30	PID	PID=0.0				
	1.70	PID	PID=0.0				
				2.00			

Continued on Next Sheet

 Remarks:
 

1. Logged in general accordance with BS 5930:2015.
2. Consistency description of fine soils is based on Table 8 of BS5930.
3. Excavation advanced to 2.10m bgl.

Stability:

# Trial Pit Log

 TrialPit No  
**AATP104**  
 Sheet 2 of 2


 Project Name: **AOC Haverhill**

 Project No.  
**FJ\_412350**

 Co-ords: 567635.00 - 244410.00  
 Level:

 Date  
**19/06/2025**


 Location: **AOC Resins, Piperell Way, Haverhill, CB9 8PH**

 Dimensions (m): 2.80  
0.72   
 Depth  
**2.10**

 Scale  
**1:10**

 Logged  
**OT & GT**

 Client: **AOC**

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	2.10	PID	PID=0.0	2.10			Light grey slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint with frequent cobbles of flint.  End of Pit at 2.10m

**Remarks:**

1. Logged in general accordance with BS 5930:2015.
2. Consistency description of fine soils is based on Table 8 of BS5930.
3. Excavation advanced to 2.10m bgl.

**Stability:**

# Trial Pit Log

TrialPit No  
**AATP105**  
Sheet 1 of 2

Project Name: <b>AOC Haverhill</b>	Project No. <b>FJ_412350</b>	Co-ords: 567645.00 - 244410.00 Level:	Date <b>03/07/2025</b>
Location: <b>AOC Resins, Piperell Way, Haverhill, CB9 8PH</b>		Dimensions (m): 2.80 0.70	Scale <b>1:10</b>
Client: <b>AOC</b>		Depth <b>2.70</b>	Logged <b>OT &amp; GT</b>

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete with reinforcing bar.
				0.20			MADE GROUND: Light grey sandy angular to subangular fine to coarse GRAVEL of limestone.
	0.30 0.30	ES PID	PID=0.7				MADE GROUND: Light brown slightly cobbly gravelly SAND. Cobbles are subangular of sandstone. Gravel is angular to sub rounded, fine to coarse of sandstone and flint. Sand is coarse.
	0.60	PID	PID=0.2	0.50			MADE GROUND: Dark greyish brown mottled white slightly sandy gravelly CLAY. Sand is coarse. Gravel is subangular to subrounded fine to coarse flint, chalk and brick. Rare cobbles of brick. <i>Angular boulder of concrete at 0.6 m bgl (700mm x 450mm).</i>
	1.00	PID	PID=3.0				
	1.30	PID	PID=9.5	1.30			Dark brown slightly gravelly sandy CLAY. Gravel is subangular fine to coarse flint. Sand is coarse. With light brown lenses of sand.
	1.60	PID	PID=15.3	1.50			Dark grey, slightly gravelly sandy CLAY/SILT. Gravel is subangular fine flint.
				1.85			Light brown, light grey very gravelly sandy CLAY. Gravel is subangular fine flint. Sand is fine to coarse.
	2.00	ES					

Continued on Next Sheet

**Remarks:**

1. Logged in general accordance with BS 5930:2015.
2. Consistency description of fine soils is based on Table 8 of BS5930.
3. Excavation advanced to 2.70m bgl.
4. North and South of trial pit has varying lithologies, logged accordingly.

**Stability:**



# Trial Pit Log

 TrialPit No  
**AATP106**  
 Sheet 1 of 2

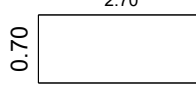
 Project Name: **AOC Haverhill**

 Project No.  
**FJ\_412350**

 Co-ords: 567655.00 - 244410.00  
 Level:

 Date  
**03/07/2025**

 Location: **AOC Resins, Piperell Way, Haverhill, CB9 8PH**

 Dimensions (m): 2.70  
  
 Depth  
**2.60**

 Scale  
**1:10**

 Logged  
**OT & GT**

 Client: **AOC**

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
							MADE GROUND: Concrete with reinforcing bar.
				0.21			
				0.30			MADE GROUND: Light brown slightly cobbly gravelly SAND. Cobbles are subangular sandstone. Gravel is angular to subrounded fine to coarse sandstone and flint. Sand is coarse.
							MADE GROUND: Dark grey/black stained sandy angular to sub rounded fine to coarse GRAVEL of concrete, brick, flint and sandstone. Sand is fine to coarse. Occasional cobbles of angular brick.
	0.50	PID	PID=0.0				
	0.80 0.80	ES PID	PID=0.0				
				1.00			
	1.20	PID	PID=0.2				Dark brown mottled light brown/dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse flint and chalk. With rare rootlets. Lenses of very weak white chalk.
	1.50	PID	PID=2.8				
	1.75 1.75	ES PID	PID=12.8	1.75			Greyish dark brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium chalk and flint.
Continued on Next Sheet							

 Remarks: 1. Logged in general accordance with BS 5930:2015.  
 2. Consistency description of fine soils is based on Table 8 of BS5930.  
 3. Excavation advanced to 2.60 m bgl.

Stability:

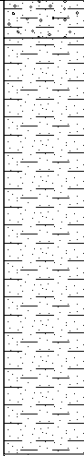
# Trial Pit Log

TrialPit No  
AATP106  
Sheet 2 of 2

Project Name: AOC Haverhill      Project No. FJ\_412350      Co-ords: 567655.00 - 244410.00      Date 03/07/2025

Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH      Dimensions (m): 0.70 x 2.70      Scale 1:10

Client: AOC      Depth 2.60      Logged OT & GT

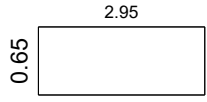
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	2.10	PID	PID=5.4	2.05			<p>Greyish dark brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium chalk and flint.</p> <p>Light brown slightly sandy mottled grey CLAY. Sand is fine to coarse.</p>
	2.50	PID	PID=0.6	2.60			
	End of Pit at 2.60m						


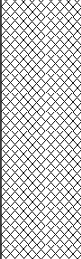
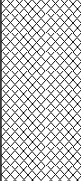
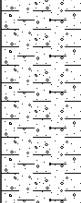
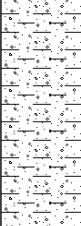
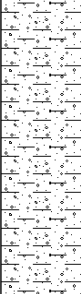
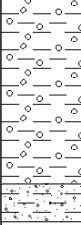
Remarks: 1. Logged in general accordance with BS 5930:2015.  
2. Consistency description of fine soils is based on Table 8 of BS5930.  
3. Excavation advanced to 2.60 m bgl.

Stability:

# Trial Pit Log

 TrialPit No  
**AATP107**  
 Sheet 1 of 2

Project Name: AOC Haverhill	Project No. FJ_412350	Co-ords: 567665.00 - 244410.00 Level:	Date 03/07/2025
Location: AOC Resins, Piperell Way, Haverhill, CB9 8PH		Dimensions (m): Depth 2.95	Scale 1:10
Client: AOC			Logged OT & GT

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete with reinforcing bar.
	0.20	PID	PID=0.0				MADE GROUND: Reddish brown sandy angular fine to coarse GRAVEL of brick (crushed brick). Sand is fine to coarse of brick.
	0.45	PID	PID=0.0	0.45			MADE GROUND: Dark grey/black stained sandy angular to subrounded fine to coarse GRAVEL of concrete, brick, flint and sandstone. Occasional cobbles of angular brick. Sand is fine to coarse.
	0.70	PID	PID=4.5	0.70			MADE GROUND: Light brown mottled dark grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse chalk, flint and fine brick.
	1.00	PID	PID=5.8				Greenish blue grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint. Occasional cobbles of flint.
	1.40	PID	PID=4.8	1.30			Firm dark brown/creamy white slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse chalk and flint. Occasional cobbles of chalk.
	1.70	PID	PID=22.3	1.70			Structureless CHALK composed of creamy white, slightly gravelly SILT. Gravel is very weak, low density, creamy white chalk with occasional subrounded GRAVEL and COBBLES of flint. (CIRIA Grade Dm).
	2.00	PID	PID=6.4	1.95			Continued on Next Sheet

Remarks: 1. Logged in general accordance with BS 5930:2015.  
 2. Consistency description of fine soils is based on Table 8 of BS5930.  
 3. Excavation advanced to 2.95m bgl.

Stability:

# Trial Pit Log

 TrialPit No  
**AATP107**  
 Sheet 2 of 2

Project Name: <b>AOC Haverhill</b>	Project No. <b>FJ_412350</b>	Co-ords: 567665.00 - 244410.00 Level:	Date <b>03/07/2025</b>
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Location: <b>AOC Resins, Piperell Way, Haverhill, CB9 8PH</b>	Dimensions (m): <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">0.65</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 10px;"></div> <div style="font-size: small;">2.95</div> </div>	Scale <b>1:10</b>
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Client: <b>AOC</b>	Depth <b>2.95</b>	Logged <b>OT &amp; GT</b>
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Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	2.50	PID	PID=13.1				Structureless CHALK composed of creamy white, slightly gravelly SILT. Gravel is very weak, low density, creamy white chalk with occasional subrounded GRAVEL and COBBLES of flint. (CIRIA Grade Dm).
	2.95	PID	PID=3.0	2.95			

Remarks: 1. Logged in general accordance with BS 5930:2015. 2. Consistency description of fine soils is based on Table 8 of BS5930. 3. Excavation advanced to 2.95m bgl.	
Stability:	

# **Appendix C – Chemical Laboratory Results**

OHES Environmental  
Unit 3, Forest Court  
Off Fishponds Road  
Wokingham  
Berkshire  
United Kingdom  
RG41 2FD



4225



**Attention :** Gregg Tatum  
**Date :** 10th July, 2025  
**Your reference :** 412350  
**Our reference :** Test Report 25/10180 Batch 1  
**Location :** AOC Haverhill  
**Date samples received :** 21st June, 2025  
**Status :** Final Report  
**Issue :** 202507101614

Thirteen samples were received for analysis on 21st June, 2025 of which eleven 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.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 35.186 kg of CO2

Scope 1&2&3 emissions - 83.155 kg of CO2

**Authorised By:**



**Bruce Leslie**  
Project Manager

Please include all sections of this report if it is reproduced

# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/10180

**Report : Solid**

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

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	26-28	29-30	LOD/LOR	Units	Method No.			
	Sample ID	AATP101	AATP101	AATP102	AATP102	AATP103	AATP103	AATP104	AATP104	COMPOSITE				AATP101		
Depth	0.50 (S)	0.60 (N)	0.30	1.00	0.40	0.80	0.55 (N)	0.70	0.20-0.30	1.30	Please see attached notes for all abbreviations and acronyms					
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						
Sample Date	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	19/06/2025	18/06/2025						
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	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025						
Arsenic #	11.1	12.1	12.0	-	19.1	18.9	13.1	-	-	6.4				<0.5	mg/kg	TM30/PM15
Barium #	73	64	40	-	50	42	71	-	-	59				<1	mg/kg	TM30/PM15
Beryllium	1.3	1.3	0.9	-	0.9	2.0	1.3	-	-	1.5				<0.5	mg/kg	TM30/PM15
Cadmium #	0.3	0.3	0.5	-	5.7	<0.3	<0.3	-	-	<0.3	<0.3	mg/kg	TM30/PM15			
Chromium #	46.9	62.4	27.4	-	36.1	32.6	46.3	-	-	71.1	<0.5	mg/kg	TM30/PM15			
Copper #	34	21	28	-	110	21	22	-	-	17	<1	mg/kg	TM30/PM15			
Lead #	19	25	13	-	22	13	25	-	-	14	<5	mg/kg	TM30/PM15			
Mercury #	<0.1	0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	mg/kg	TM30/PM15			
Nickel #	23.6	24.6	20.1	-	19.5	32.6	26.4	-	-	22.0	<0.7	mg/kg	TM30/PM15			
Selenium #	<1	<1	<1	-	<1	<1	<1	-	-	<1	<1	mg/kg	TM30/PM15			
Vanadium	41	46	36	-	36	61	55	-	-	65	<1	mg/kg	TM30/PM15			
Zinc #	60	82	65	-	62	67	86	-	-	59	<5	mg/kg	TM30/PM15			
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10			
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10			
Toluene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10			
Ethylbenzene #	<3	5	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10			
m/p-Xylene #	<5	56	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10			
o-Xylene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10			
Surrogate Recovery Toluene D8	91	93	93	94	93	94	93	92	89	74	<0	%	TM15/PM10			
Surrogate Recovery 4-Bromofluorobenzene	95	91	96	100	99	104	90	95	84	111	<0	%	TM15/PM10			
TPH CWG																
<b>Aliphatics</b>																
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>C8-C10 (HS_1D_AL)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16			
>C12-C16 (EH_CU_1D_AL) #	13	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16			
>C16-C21 (EH_CU_1D_AL) #	53	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM8/PM16			
>C21-C35 (EH_CU_1D_AL) #	537	<7	<7	<7	<7	<7	<7	<7	38	<7	<7	mg/kg	TM5/PM8/PM16			
Total aliphatics C5-35 (EH_CU+HS_1D_AL)	603	<19	<19	<19	<19	<19	<19	<19	38	<19	<19	mg/kg	TM5/PM8/PM16			
<b>Aromatics</b>																
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>EC8-EC10 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12			
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM8/PM16			
>EC12-EC16 (EH_CU_1D_AR) #	23	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM8/PM16			
>EC16-EC21 (EH_CU_1D_AR) #	142	<7	<7	<7	<7	<7	<7	<7	9	<7	<7	mg/kg	TM5/PM8/PM16			
>EC21-EC35 (EH_CU_1D_AR) #	7359	<7	<7	<7	<7	<7	<7	<7	157	<7	<7	mg/kg	TM5/PM8/PM16			
Total aromatics C5-35 (EH_CU+HS_1D_AR) #	7524	<19	<19	<19	<19	<19	<19	<19	166	<19	<19	mg/kg	TM5/PM8/PM16			
Total aliphatics and aromatics (C5-35) (EH_CU+HS_1D_Total)	8127	<38	<38	<38	<38	<38	<38	<38	204	<38	<38	mg/kg	TM5/PM8/PM16			
Total Phenols HPLC	0.30	<0.15	<0.15	<0.15	<0.15	-	<0.15	<0.15	<0.15	<0.15	<0.15	mg/kg	TM26/PM21B			



# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/10180

**SVOC Report :** Solid

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	26-28	29-30	Please see attached notes for all abbreviations and acronyms		
Sample ID	AATP101	AATP101	AATP102	AATP102	AATP103	AATP103	AATP104	AATP104	COMPOSITE	AATP101			
Depth	0.50 (S)	0.60 (N)	0.30	1.00	0.40	0.80	0.55 (N)	0.70	0.20-0.30	1.30			
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			
Sample Date	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	19/06/2025	18/06/2025			
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	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	LOD/LOR	Units	Method No.
SVOC MS													
<b>Phenols</b>													
2-Chlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Phenol #	168	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
<b>PAHs</b>													
2-Chloronaphthalene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	46	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Naphthalene	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Acenaphthylene	18	<10	<10	<10	14	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Acenaphthene	54	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Fluorene	34	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Phenanthrene #	278	27	<10	<10	69	<10	13	30	44	<10	<10	ug/kg	TM16/PM8
Anthracene	65	<10	<10	<10	25	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Fluoranthene #	551	56	20	<10	155	<10	19	34	54	<10	<10	ug/kg	TM16/PM8
Pyrene #	638	50	19	<10	140	<10	16	28	58	<10	<10	ug/kg	TM16/PM8
Benzo(a)anthracene	206	52	46	<10	155	<10	30	39	44	<10	<10	ug/kg	TM16/PM8
Chrysene	263	43	52	<10	162	<10	21	21	34	<10	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	586	66	32	<10	304	<10	12	<10	69	<10	<10	ug/kg	TM16/PM8
Benzo(a)pyrene	296	34	19	<10	171	<10	<10	15	33	<10	<10	ug/kg	TM16/PM8
Indeno(123cd)pyrene	159	22	<10	<10	123	<10	<10	<10	25	<10	<10	ug/kg	TM16/PM8
Dibenzo(ah)anthracene	49	<10	<10	<10	37	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Benzo(ghi)perylene	195	28	<10	<10	177	<10	<10	<10	31	<10	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	422	48	23	<10	219	<10	<10	<10	50	<10	<10	ug/kg	TM16/PM8
Benzo(k)fluoranthene	164	18	<10	<10	85	<10	<10	<10	19	<10	<10	ug/kg	TM16/PM8
<b>Phthalates</b>													
Bis(2-ethylhexyl) phthalate	1115129 <sup>AC</sup>	227	<100	<100	<100	367	<100	<100	121171 <sup>AB</sup>	412	<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	33181	<100	<100	<100	<100	<100	<100	<100	2926	<100	<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Diethyl phthalate	5547	<100	<100	<100	<100	<100	<100	<100	266	<100	<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8

Please include all sections of this report if it is reproduced

# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/10180

**SVOC Report :** Solid

EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	26-28	29-30	Please see attached notes for all abbreviations and acronyms		
Sample ID	AATP101	AATP101	AATP102	AATP102	AATP103	AATP103	AATP104	AATP104	COMPOSITE	AATP101			
Depth	0.50 (S)	0.60 (N)	0.30	1.00	0.40	0.80	0.55 (N)	0.70	0.20-0.30	1.30			
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			
Sample Date	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	19/06/2025	18/06/2025			
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	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	LOD/LOR	Units	Method No.
SVOC MS													
<b>Other SVOCs</b>													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Bromophenylphenylether #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Carbazole	29	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Dibenzofuran #	40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorobutadiene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Isophorone #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Nitrobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	110	110	104	108	109	107	107	107	110	93	<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	124	100	78	73	105	102	79	95	107	76	<0	%	TM16/PM8

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# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/10180

**VOC Report :** Solid

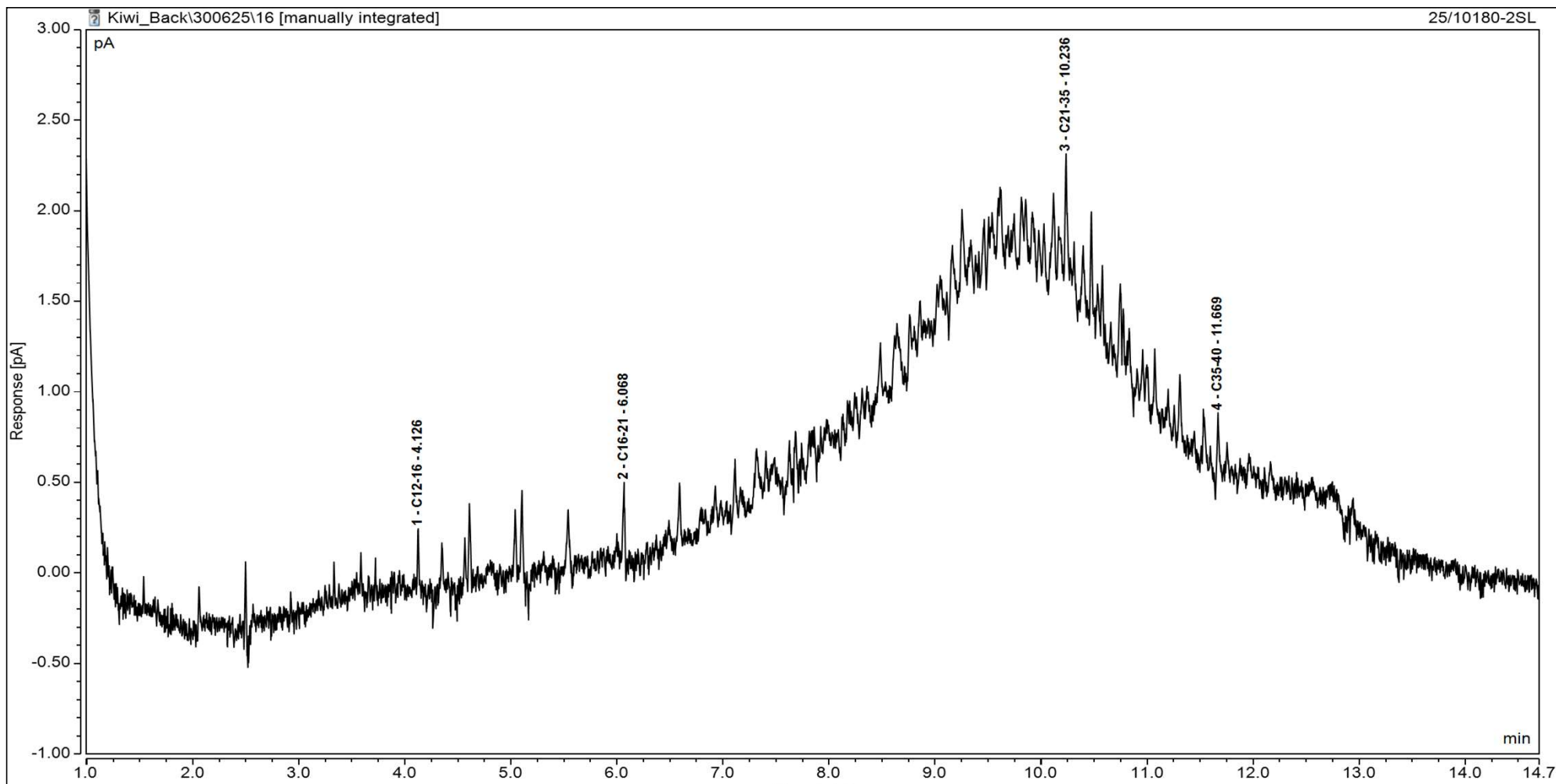
EMT Sample No.	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	26-28	29-30	Please see attached notes for all abbreviations and acronyms		
Sample ID	AATP101	AATP101	AATP102	AATP102	AATP103	AATP103	AATP104	AATP104	COMPOSITE	AATP101			
Depth	0.50 (S)	0.60 (N)	0.30	1.00	0.40	0.80	0.55 (N)	0.70	0.20-0.30	1.30			
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			
Sample Date	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	19/06/2025	18/06/2025			
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	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	21/06/2025	LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2 <sup>+</sup>	<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	5	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	56	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	8	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	29	<6	<6	<6	<6	<6	<6	<6	<6	<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
n-Butylbenzene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	91	93	93	94	93	94	93	92	89	74	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	95	91	96	100	99	104	90	95	84	111	<0	%	TM15/PM10

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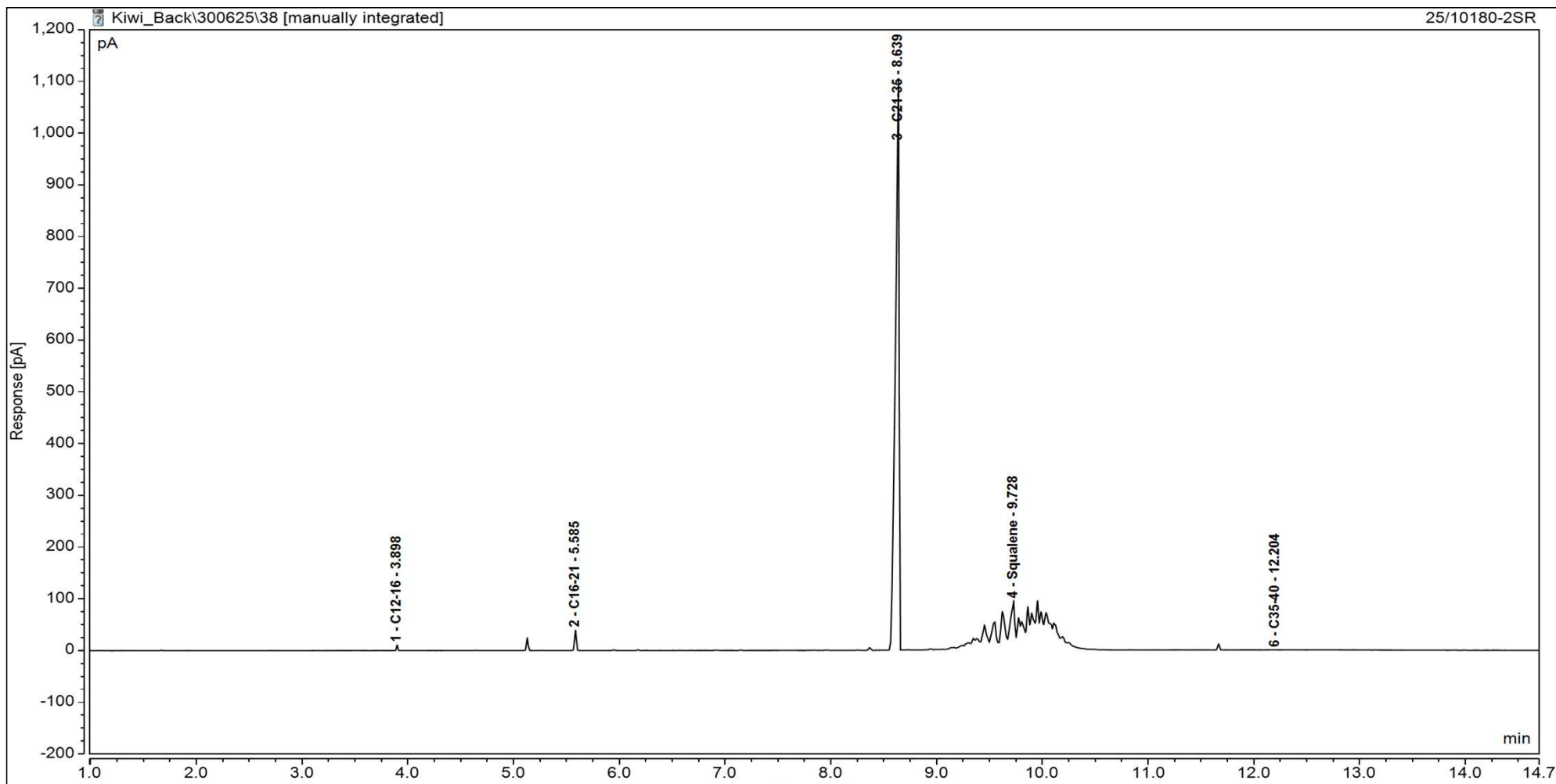
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/10180  
**EMT Sample No.:** 2  
**Sample Identity:** AATP101  
**Depth:** 0.50 (S)  
**Matrix:** Solid



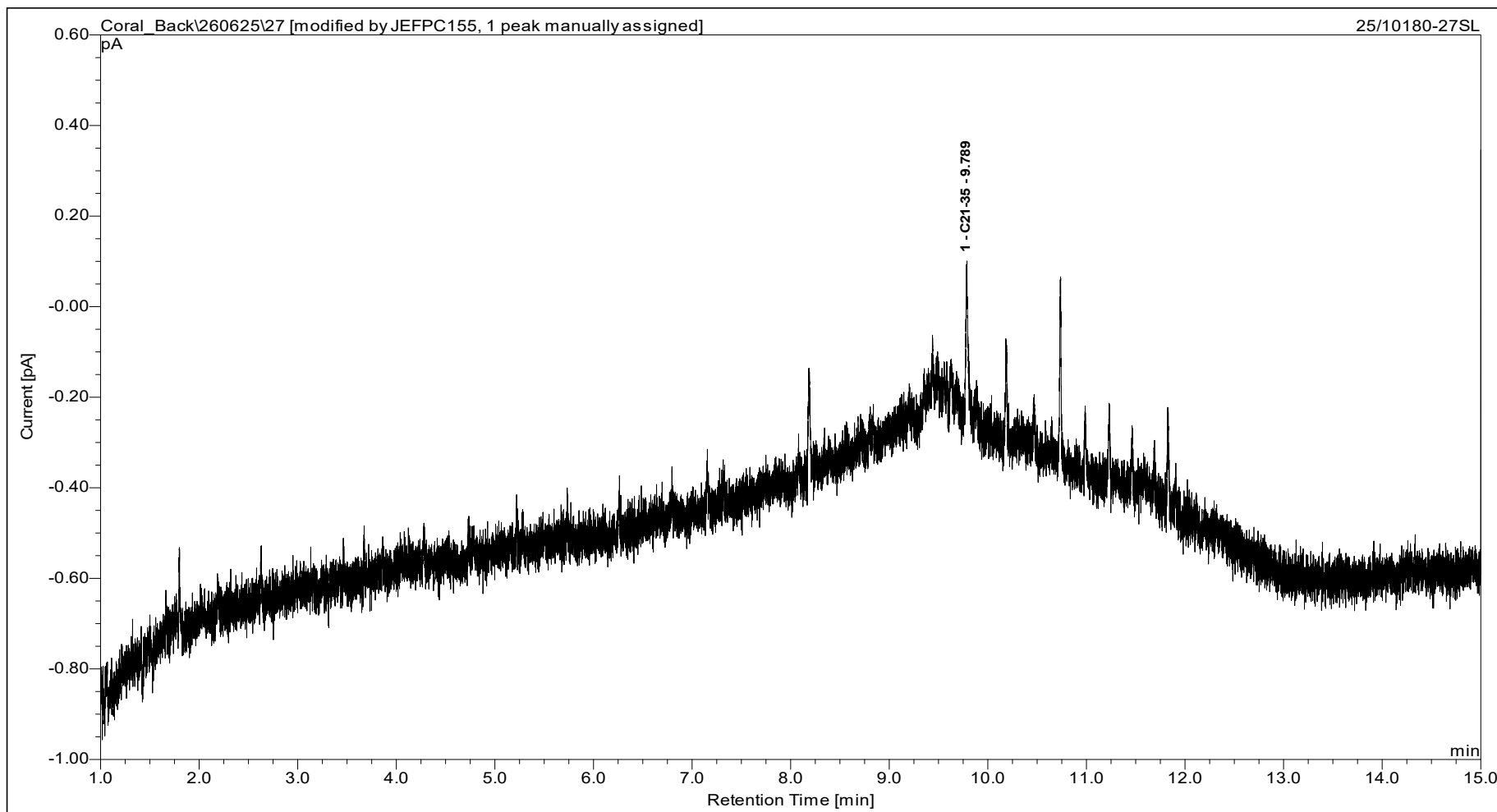
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/10180  
**EMT Sample No.:** 2  
**Sample Identity:** AATP101  
**Depth:** 0.50 (S)  
**Matrix:** Solid



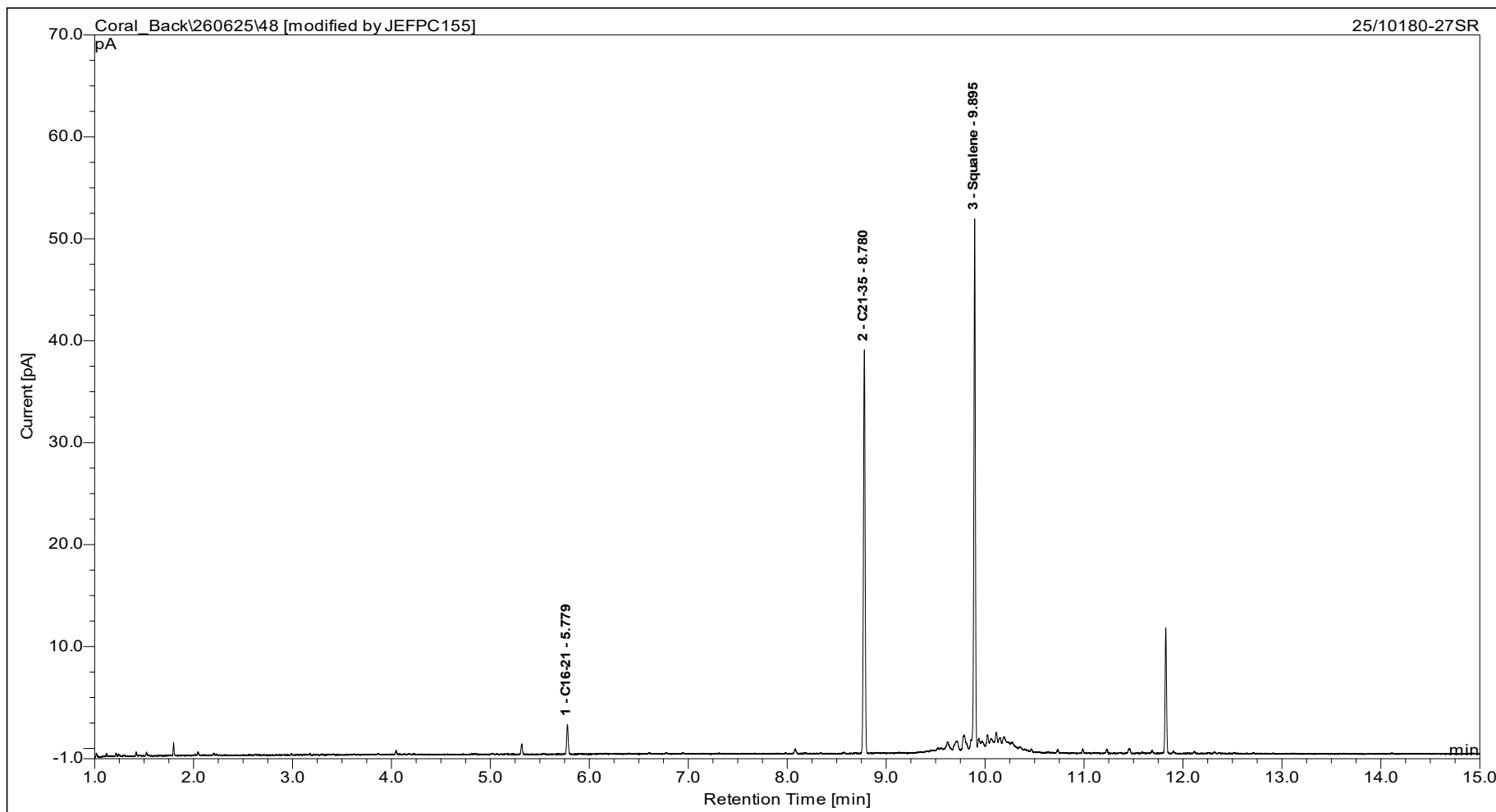
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/10180  
**EMT Sample No.:** 27  
**Sample Identity:** COMPOSITE  
**Depth:** 0.20-0.30  
**Matrix:** Solid



**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/10180  
**EMT Sample No.:** 27  
**Sample Identity:** COMPOSITE  
**Depth:** 0.20-0.30  
**Matrix:** Solid



**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**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). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

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.	Analyst Name	Date Of Analysis	Analysis	Result
25/10180	1	AATP101	0.50 (S)	3	Catherine Coles	27/06/2025	<b>General Description (Bulk Analysis)</b>	brown soil,stone, bitumen product
					Catherine Coles	27/06/2025	<b>Asbestos Fibres</b>	Fibre Bundles
					Catherine Coles	27/06/2025	<b>Asbestos Fibres (2)</b>	Fibre Bundles
					Catherine Coles	27/06/2025	<b>Asbestos ACM</b>	Bitumen Products
					Catherine Coles	27/06/2025	<b>Asbestos ACM (2)</b>	NAD
					Catherine Coles	27/06/2025	<b>Asbestos Type</b>	Chrysotile
					Catherine Coles	27/06/2025	<b>Asbestos Type (2)</b>	Amosite
					Catherine Coles	27/06/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Catherine Coles	27/06/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	0.618 (mass %)
					Catherine Coles	27/06/2025	<b>Total Gravimetric Quantification (ACM + Detailed) (% Asb)</b>	0.618 (mass %)
25/10180	1	AATP101	0.60 (N)	6	Charlotte Taylor	26/06/2025	<b>General Description (Bulk Analysis)</b>	brown soil/stones
					Charlotte Taylor	26/06/2025	<b>Asbestos Fibres</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos Type</b>	NAD
25/10180	1	AATP102	0.30	9	Charlotte Taylor	26/06/2025	<b>General Description (Bulk Analysis)</b>	brown soil/stones
					Charlotte Taylor	26/06/2025	<b>Asbestos Fibres</b>	Fibre Bundles
					Charlotte Taylor	26/06/2025	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos Type</b>	Chrysotile
					Simon Postlewhite	27/06/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Simon Postlewhite	27/06/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
25/10180	1	AATP102	1.00	12	Kieran Hubbard	27/06/2025	<b>General Description (Bulk Analysis)</b>	brown soil
					Kieran Hubbard	27/06/2025	<b>Asbestos Fibres</b>	NAD
					Kieran Hubbard	27/06/2025	<b>Asbestos Fibres (2)</b>	NAD
					Kieran Hubbard	27/06/2025	<b>Asbestos ACM</b>	NAD
					Kieran Hubbard	27/06/2025	<b>Asbestos ACM (2)</b>	NAD
					Kieran Hubbard	27/06/2025	<b>Asbestos Type</b>	NAD
					Kieran Hubbard	27/06/2025	<b>Asbestos Type (2)</b>	NAD
25/10180	1	AATP103	0.40	15	Tomasz Pawlikowski	27/06/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
					Tomasz Pawlikowski	27/06/2025	<b>Asbestos Fibres</b>	NAD
					Tomasz Pawlikowski	27/06/2025	<b>Asbestos ACM</b>	NAD
					Tomasz Pawlikowski	27/06/2025	<b>Asbestos Type</b>	NAD
25/10180	1	AATP103	0.80	18	Catherine Coles	26/06/2025	<b>General Description (Bulk Analysis)</b>	brown soil,stone
					Catherine Coles	26/06/2025	<b>Asbestos Fibres</b>	NAD

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
25/10180	1	AATP103	0.80	18	Catherine Coles	26/06/2025	<b>Asbestos ACM</b>	NAD
					Catherine Coles	26/06/2025	<b>Asbestos Type</b>	NAD
25/10180	1	AATP104	0.55 (N)	21	Miriam Silverlock	27/06/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
					Miriam Silverlock	27/06/2025	<b>Asbestos Fibres</b>	Fibre Bundles
					Miriam Silverlock	27/06/2025	<b>Asbestos ACM</b>	NAD
					Miriam Silverlock	27/06/2025	<b>Asbestos Type</b>	Chrysotile
					Simon Postlewhite	30/06/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Simon Postlewhite	30/06/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Simon Postlewhite	30/06/2025	<b>Total Gravimetric Quantification (ACM + Detailed) (% Asb)</b>	<0.001 (mass %)
25/10180	1	AATP104	0.70	24	Miriam Silverlock	27/06/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
					Miriam Silverlock	27/06/2025	<b>Asbestos Fibres</b>	NAD
					Miriam Silverlock	27/06/2025	<b>Asbestos ACM</b>	NAD
					Miriam Silverlock	27/06/2025	<b>Asbestos Type</b>	NAD
25/10180	1	AATP102	0.20-0.30	25	Charlotte Taylor	26/06/2025	<b>General Description (Bulk Analysis)</b>	concrete
					Charlotte Taylor	26/06/2025	<b>Asbestos Fibres</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos Fibres (2)</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos ACM</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos ACM (2)</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos Type</b>	NAD
					Charlotte Taylor	26/06/2025	<b>Asbestos Type (2)</b>	NAD
25/10180	1	COMPOSITE	0.20-0.30	28	Miriam Silverlock	26/06/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
					Miriam Silverlock	26/06/2025	<b>Asbestos Fibres</b>	Fibre Bundles
					Miriam Silverlock	26/06/2025	<b>Asbestos ACM</b>	NAD
					Miriam Silverlock	26/06/2025	<b>Asbestos Type</b>	Chrysotile
					Simon Postlewhite	27/06/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Simon Postlewhite	27/06/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)
					Simon Postlewhite	27/06/2025	<b>Total Gravimetric Quantification (ACM + Detailed) (% Asb)</b>	<0.001 (mass %)
25/10180	1	AATP101	1.30	30	Miriam Silverlock	08/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
					Miriam Silverlock	08/07/2025	<b>Asbestos Fibres</b>	Fibre Bundles
					Miriam Silverlock	08/07/2025	<b>Asbestos ACM</b>	NAD
					Miriam Silverlock	08/07/2025	<b>Asbestos Type</b>	Chrysotile



# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 25/10180

## SOILS and ASH

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. Asbestos samples are retained for 6 months.

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. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil 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 is quoted, this refers to Total Aliphatics C10-C40.

## STACK EMISSIONS

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 for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

## 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.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

**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 requirement of our Accreditation Body 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.

Laboratory records are kept for a period of no less than 6 years.

**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.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

**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 quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
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	x2 Dilution
AB	x10 Dilution
AC	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: 25/10180

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S 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 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
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.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
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.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) 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
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

EMT Job No: 25/10180

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
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 degrees Celsius. 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 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	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!	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
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	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
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, 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
TM179	Determination of Glycols using LCMS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

OHES Environmental  
Unit 3, Forest Court  
Off Fishponds Road  
Wokingham  
Berkshire  
United Kingdom  
RG41 2FD



4225



**Attention :** Gregg Tatum  
**Date :** 29th July, 2025  
**Your reference :** 412350  
**Our reference :** Test Report 25/11025 Batch 1  
**Location :** AOC Haverhill  
**Date samples received :** 5th July, 2025  
**Status :** Final Report  
**Issue :** 202507291033

Ten samples were received for analysis on 5th July, 2025 of which nine 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.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 32.58 kg of CO2

Scope 1&2&3 emissions - 76.995 kg of CO2

**Authorised By:**



**Sean English**  
Project Coordinator

Please include all sections of this report if it is reproduced

# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/11025

**Report : Solid**

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

EMT Sample No.	1-3	4-6	10-12	13-15	16-18	19-21	22-24	25-27	28-30				
Sample ID	AATP105	AATP105	AATP106	AATP106	AATP106	AATP107	AATP107	AATP107	AATP105				
Depth	0.30	2.00	0.50	0.80	1.75	0.45	0.70	1.70	1.00				
COC No / misc													
Containers	V J	V J	V T	V J	V J	V J	V J	V T	V T				
Sample Date	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025 12:01			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025			
											LOD/LOR	Units	Method No.
Arsenic #	13.8	-	44.9	12.7	12.9	9.1	4.9	-	11.4		<0.5	mg/kg	TM30/PM15
Barium #	28	-	71	74	64	134	25	-	76		<1	mg/kg	TM30/PM15
Beryllium	0.5	-	1.4	0.7	1.2	1.3	0.6	-	1.6		<0.5	mg/kg	TM30/PM15
Cadmium #	0.8	-	6.3	9.3	<0.3	0.8	<0.3	-	<0.3		<0.3	mg/kg	TM30/PM15
Chromium #	22.2	-	48.3	30.1	30.3	102.2	12.4	-	43.1		<0.5	mg/kg	TM30/PM15
Copper #	43	-	1023 <sup>AB</sup>	126	20	56	12	-	39		<1	mg/kg	TM30/PM15
Lead #	15	-	112	109	27	30	6	-	18		<5	mg/kg	TM30/PM15
Mercury #	<0.1	-	0.1	<0.1	<0.1	0.1	<0.1	-	<0.1		<0.1	mg/kg	TM30/PM15
Nickel #	16.0	-	56.8	17.7	29.8	25.8	13.1	-	27.6		<0.7	mg/kg	TM30/PM15
Selenium #	<1	-	2	<1	<1	<1	<1	-	<1		<1	mg/kg	TM30/PM15
Vanadium	24	-	29	26	52	43	20	-	65		<1	mg/kg	TM30/PM15
Zinc #	64	-	145	134	83	87	38	-	83		<5	mg/kg	TM30/PM15
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3	10	<3	<3	<3		<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	11	<3	<3	511	<3	<3	6	92		<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	1873	<5	<5	1979	<5	<5	13	429		<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	23	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	69	67	67	69	67	68	68	74	70		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	104	95	96	99	86	95	103	110	101		<0	%	TM15/PM10
TPH CWG													
<b>Aliphatics</b>													
>C5-C6 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	1.3	<0.1	<0.1	1.3	<0.1	0.1	<0.1	0.7		<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	<0.2	<0.2	35.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	<4	<4	106	<4	<4	<4	<4	<4	<4		<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	<7	<7	88	19	<7	15	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	30	<7	211	148	<7	33	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH_CU+HS_1D_AL)	30	<19	441	167	<19	48	<19	<19	<19		<19	mg/kg	TM5/PM8/PM16/PM12/PM15
<b>Aromatics</b>													
>C5-EC7 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1	2.1	<0.1	<0.1	2.2	<0.1	<0.1	<0.1	0.5		<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	<0.2	<0.2	1.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	<4	<4	49	13	<4	10	<4	<4	<4		<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	<7	<7	277	50	<7	59	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	63	<7	834	213	<7	178	<7	<7	<7		<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH_CU+HS_1D_AR) #	63	<19	1162	276	<19	247	<19	<19	<19		<19	mg/kg	TM5/PM8/PM16/PM12/PM15
Total aliphatics and aromatics (C5-35) (EH_CU+HS_1D_Total)	93	<38	1603	443	<38	295	<38	<38	<38		<38	mg/kg	TM5/PM8/PM16/PM12/PM15
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

Please see attached notes for all abbreviations and acronyms



# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/11025

**SVOC Report :** Solid

EMT Sample No.	1-3	4-6	10-12	13-15	16-18	19-21	22-24	25-27	28-30			
Sample ID	AATP105	AATP105	AATP106	AATP106	AATP106	AATP107	AATP107	AATP107	AATP105			
Depth	0.30	2.00	0.50	0.80	1.75	0.45	0.70	1.70	1.00			
COC No / misc												
Containers	V J	V J	V T	V J	V J	V J	V J	V T	V T			
Sample Date	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025 12:01			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1			
Date of Receipt	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025			
										LOD/LOR	Units	Method No.
SVOC MS												
<b>Phenols</b>												
2-Chlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Phenol #	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
<b>PAHs</b>												
2-Chloronaphthalene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	<10	<10	187	12	<10	34	<10	<10	<10	<10	ug/kg	TM16/PM8
Naphthalene	<10	<10	215	25	<10	120	<10	<10	<10	<10	ug/kg	TM16/PM8
Acenaphthylene	<10	<10	288	36	<10	169	<10	<10	<10	<10	ug/kg	TM16/PM8
Acenaphthene	<10	<10	1218	95	<10	271	<10	<10	<10	<10	ug/kg	TM16/PM8
Fluorene	<10	<10	1767	77	<10	216	<10	<10	<10	<10	ug/kg	TM16/PM8
Phenanthrene #	13	<10	18908	730	22	1030	19	18	13	<10	ug/kg	TM16/PM8
Anthracene	<10	<10	8646	277	<10	955	<10	<10	<10	<10	ug/kg	TM16/PM8
Fluoranthene #	61	<10	37130	2732	37	6668	65	32	20	<10	ug/kg	TM16/PM8
Pyrene #	54	<10	27689	2119	33	5640	59	28	20	<10	ug/kg	TM16/PM8
Benzo(a)anthracene	52	<10	15787	1068	46	2845	66	50	39	<10	ug/kg	TM16/PM8
Chrysene	39	<10	14000	1065	29	2695	44	25	15	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	63	<10	21185	1655	40	5054	76	47	28	<10	ug/kg	TM16/PM8
Benzo(a)pyrene	28	<10	12318	904	21	3021	37	26	16	<10	ug/kg	TM16/PM8
Indeno(123cd)pyrene	17	<10	5531	397	13	1489	21	17	<10	<10	ug/kg	TM16/PM8
Dibenzo(ah)anthracene	<10	<10	1952	118	<10	427	<10	<10	<10	<10	ug/kg	TM16/PM8
Benzo(ghi)perylene	21	<10	5794	526	17	1932	27	18	<10	<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	45	<10	15253	1192	29	3639	55	34	20	<10	ug/kg	TM16/PM8
Benzo(k)fluoranthene	18	<10	5932	463	11	1415	21	13	<10	<10	ug/kg	TM16/PM8
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate	36726	<100	3622	5088	<100	750	<100	<100	<100	<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	130	<100	235	1651	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	ug/kg	TM16/PM8

Please see attached notes for all abbreviations and acronyms

# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/11025

**SVOC Report :** Solid

EMT Sample No.	1-3	4-6	10-12	13-15	16-18	19-21	22-24	25-27	28-30				
Sample ID	AATP105	AATP105	AATP106	AATP106	AATP106	AATP107	AATP107	AATP107	AATP105				
Depth	0.30	2.00	0.50	0.80	1.75	0.45	0.70	1.70	1.00				
COC No / misc													
Containers	V J	V J	V T	V J	V J	V J	V J	V T	V T				
Sample Date	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025 12:01				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025				
										LOD/LOR	Units	Method No.	
SVOC MS													
<b>Other SVOCs</b>													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
1,2,4-Trichlorobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
2-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
3-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
4-Bromophenylphenylether #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
4-Chloroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
4-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Azobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Carbazole	<10	<10	1141	32	<10	88	<10	<10	<10	<10	ug/kg	TM16/PM8	
Dibenzofuran #	<10	<10	1058	50	<10	111	<10	<10	<10	<10	ug/kg	TM16/PM8	
Hexachlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Hexachlorobutadiene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Hexachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Isophorone #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
N-nitrosodi-n-propylamine #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Nitrobenzene #	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8	
Surrogate Recovery 2-Fluorobiphenyl	100	98	101	100	96	100	94	102	99	<0	%	TM16/PM8	
Surrogate Recovery p-Terphenyl-d14	97	87	126	112	91	115	94	106	95	<0	%	TM16/PM8	

Please see attached notes for all abbreviations and acronyms

# Element Materials Technology

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum  
**EMT Job No:** 25/11025

**VOC Report :** Solid

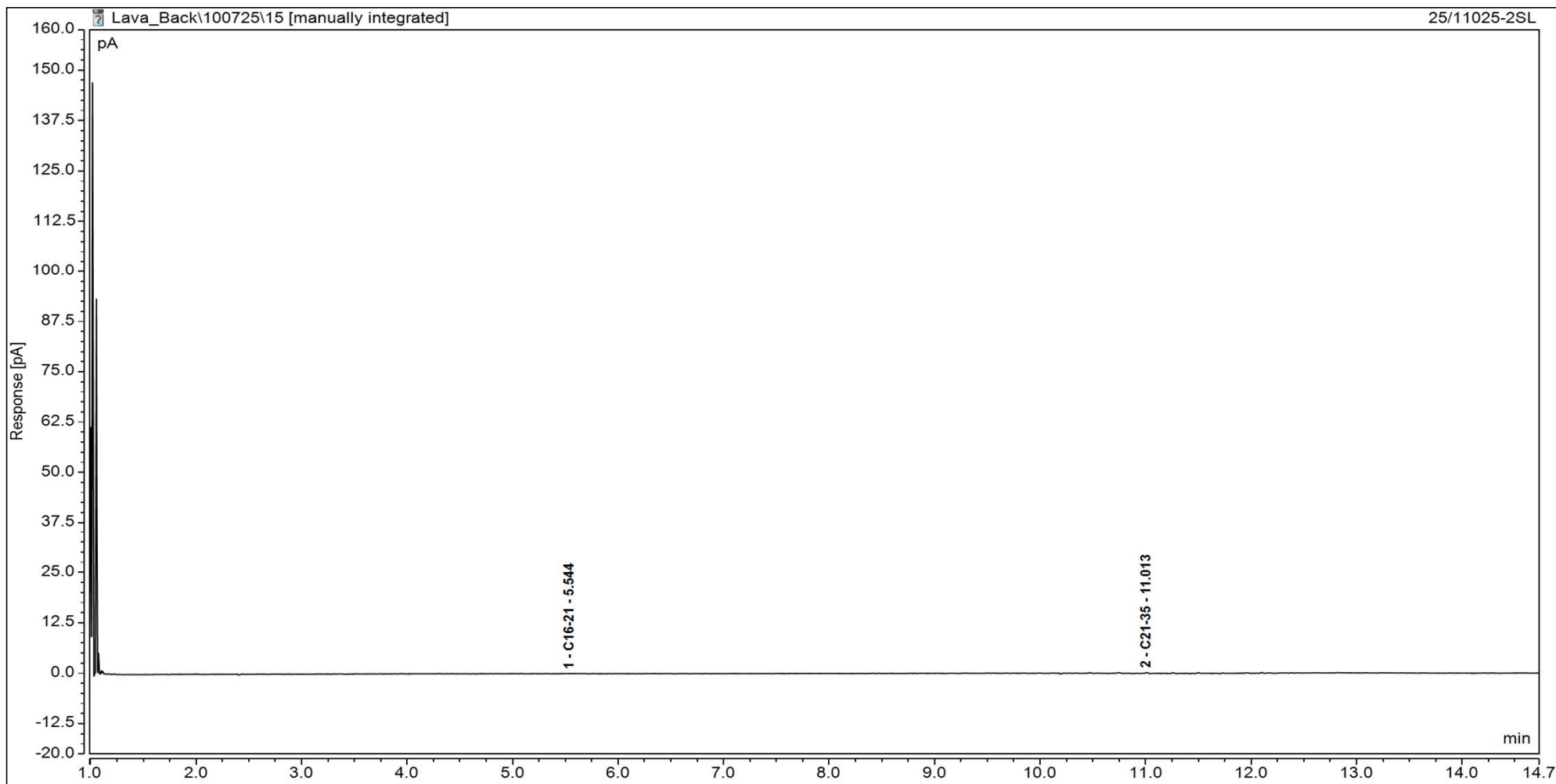
EMT Sample No.	1-3	4-6	10-12	13-15	16-18	19-21	22-24	25-27	28-30				
Sample ID	AATP105	AATP105	AATP106	AATP106	AATP106	AATP107	AATP107	AATP107	AATP105				
Depth	0.30	2.00	0.50	0.80	1.75	0.45	0.70	1.70	1.00				
COC No / misc													
Containers	V J	V J	V T	V J	V J	V J	V J	V T	V T				
Sample Date	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025 12:01			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025	05/07/2025				
											LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>	<2 <sup>+</sup>		<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	9	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3	10	<3	<3	<3		<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	11	<3	<3	511	<3	<3	6	92		<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	1873	<5	<5	1979	<5	<5	13	429		<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	23	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	8	<3	<3	10	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Propylbenzene #	<4	12	<4	<4	13	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	21	<3	<3	21	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	72	<6	<6	41	<6	<6	<6	<6		<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4	<4	<4	<4	<4	<4	<4	<4	37		<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
n-Butylbenzene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27	<27	<27	<27		<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7	<7	<7	<7		<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	69	67	67	69	67	68	68	74	70		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	104	95	96	99	86	95	103	110	101		<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms



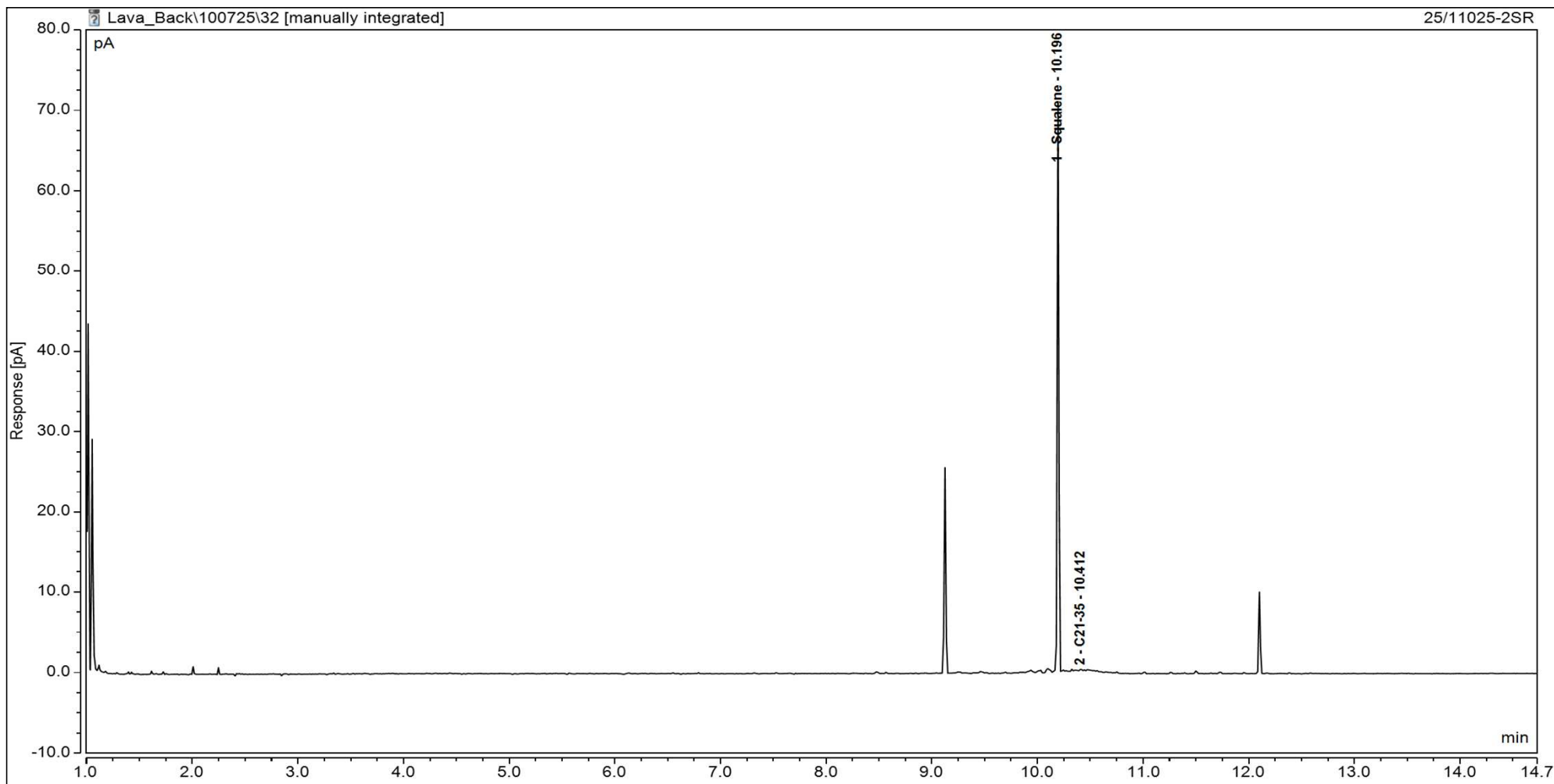
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 2  
**Sample Identity:** AATP105  
**Depth:** 0.30  
**Matrix:** Solid



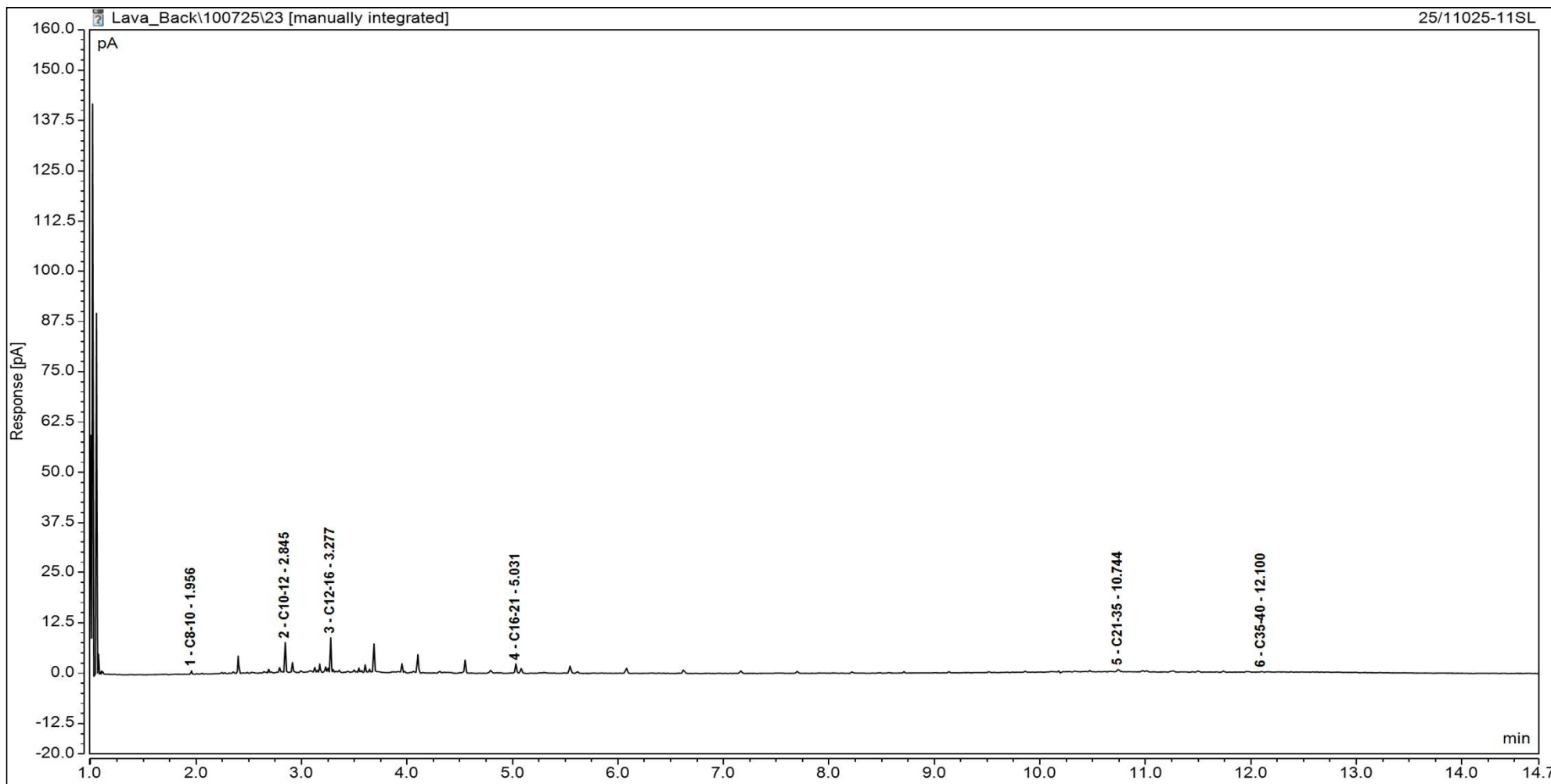
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 2  
**Sample Identity:** AATP105  
**Depth:** 0.30  
**Matrix:** Solid



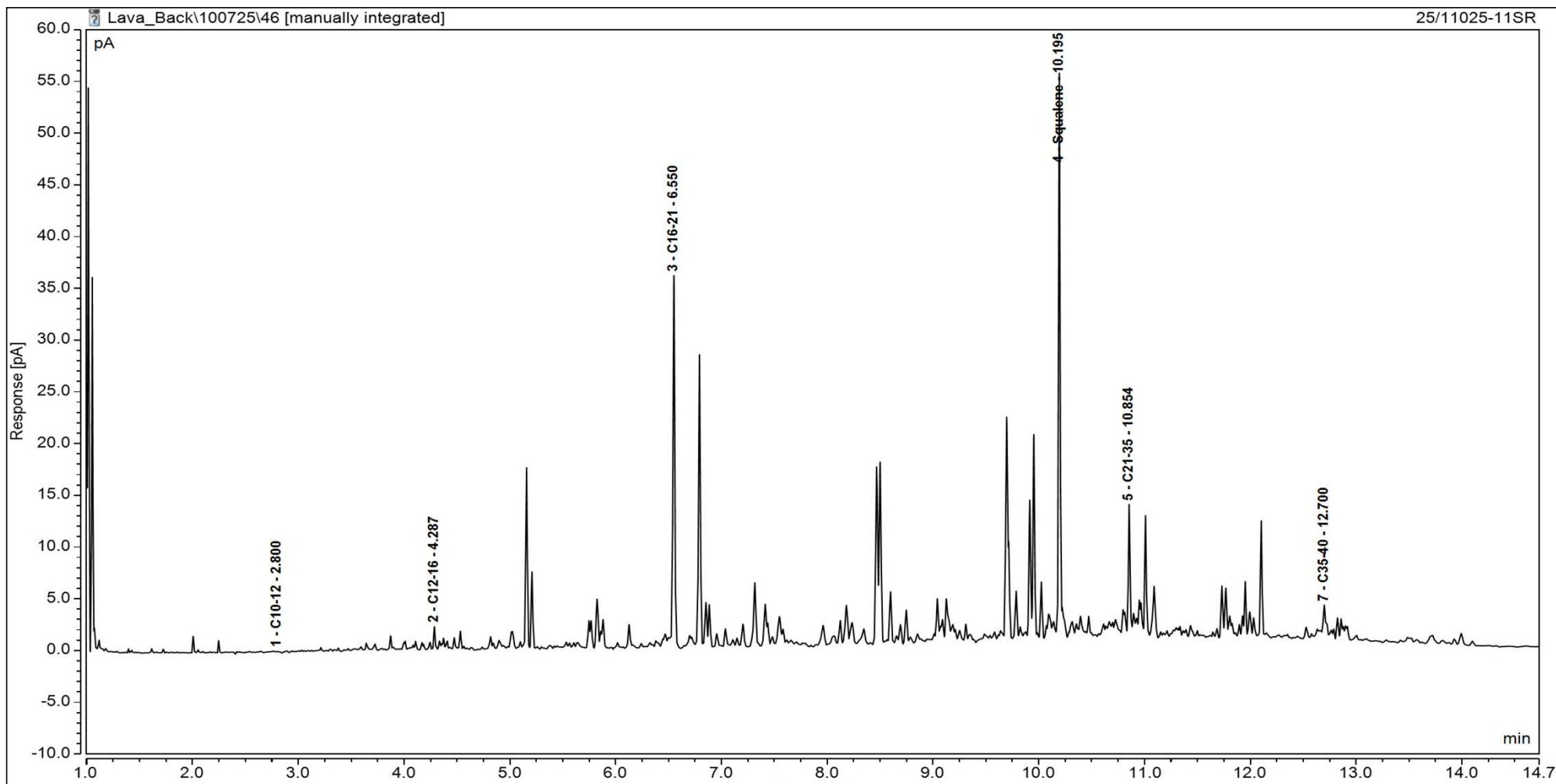
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 11  
**Sample Identity:** AATP106  
**Depth:** 0.50  
**Matrix:** Solid



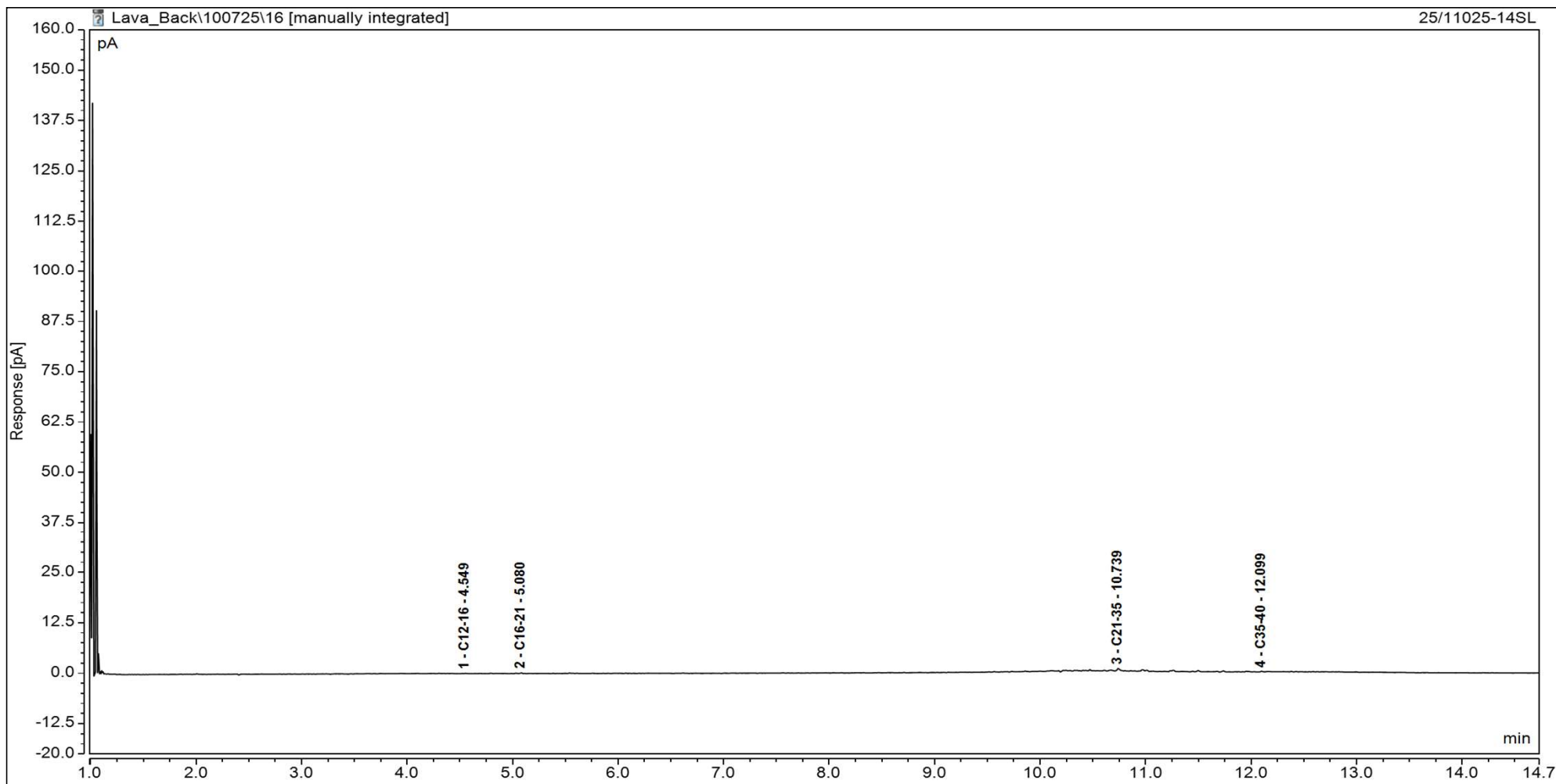
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 11  
**Sample Identity:** AATP106  
**Depth:** 0.50  
**Matrix:** Solid



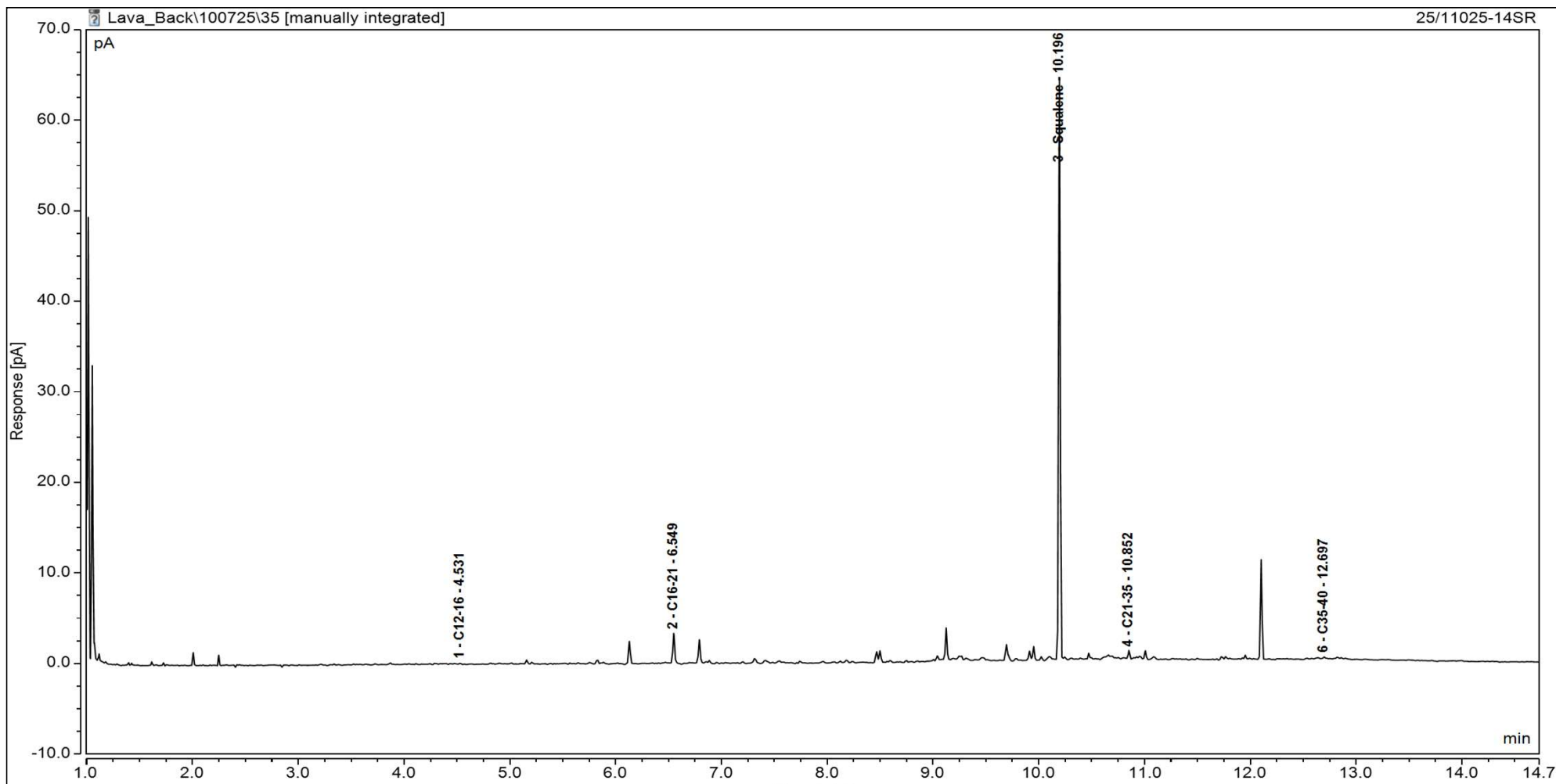
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 14  
**Sample Identity:** AATP106  
**Depth:** 0.80  
**Matrix:** Solid



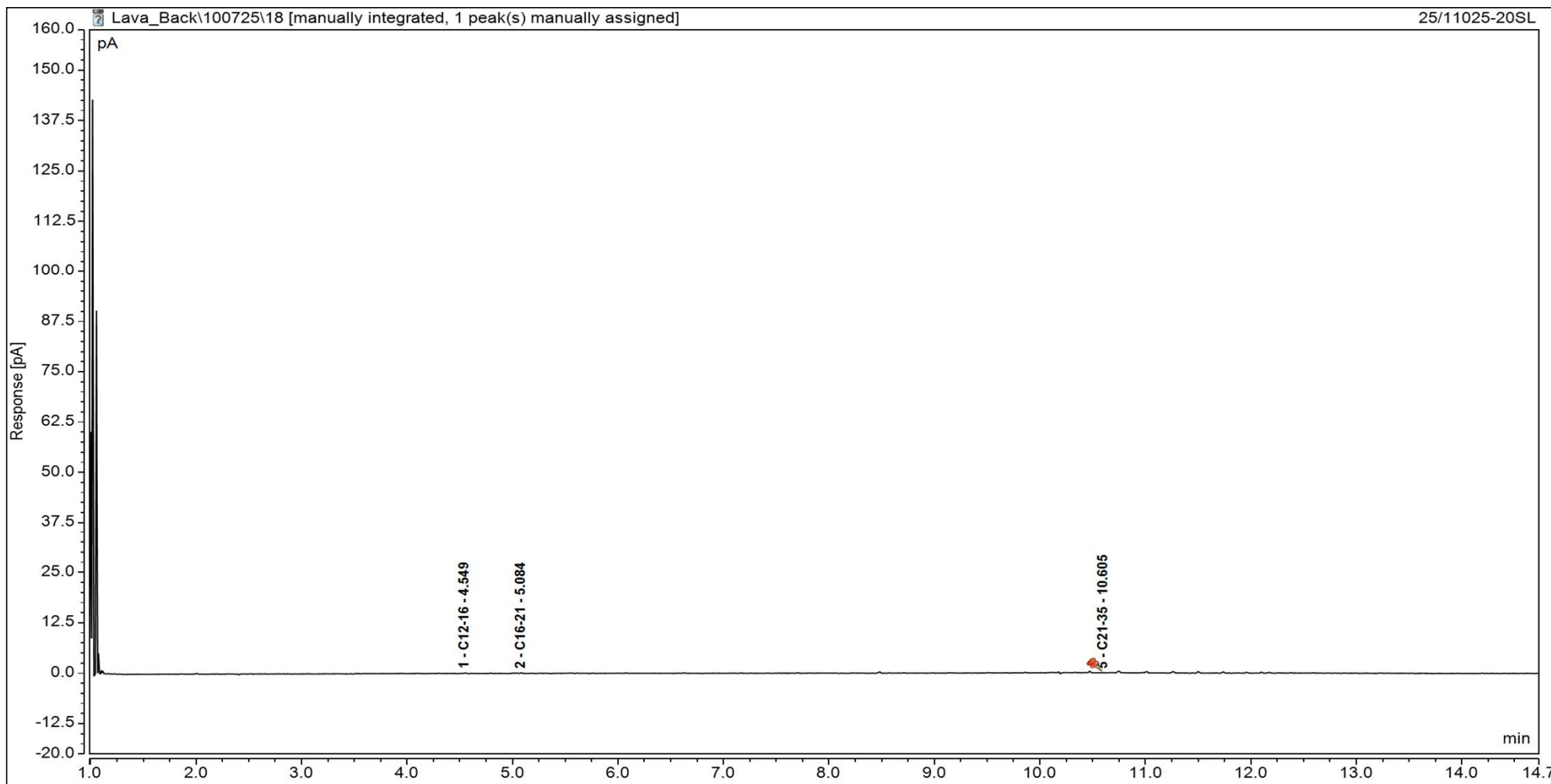
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 14  
**Sample Identity:** AATP106  
**Depth:** 0.80  
**Matrix:** Solid



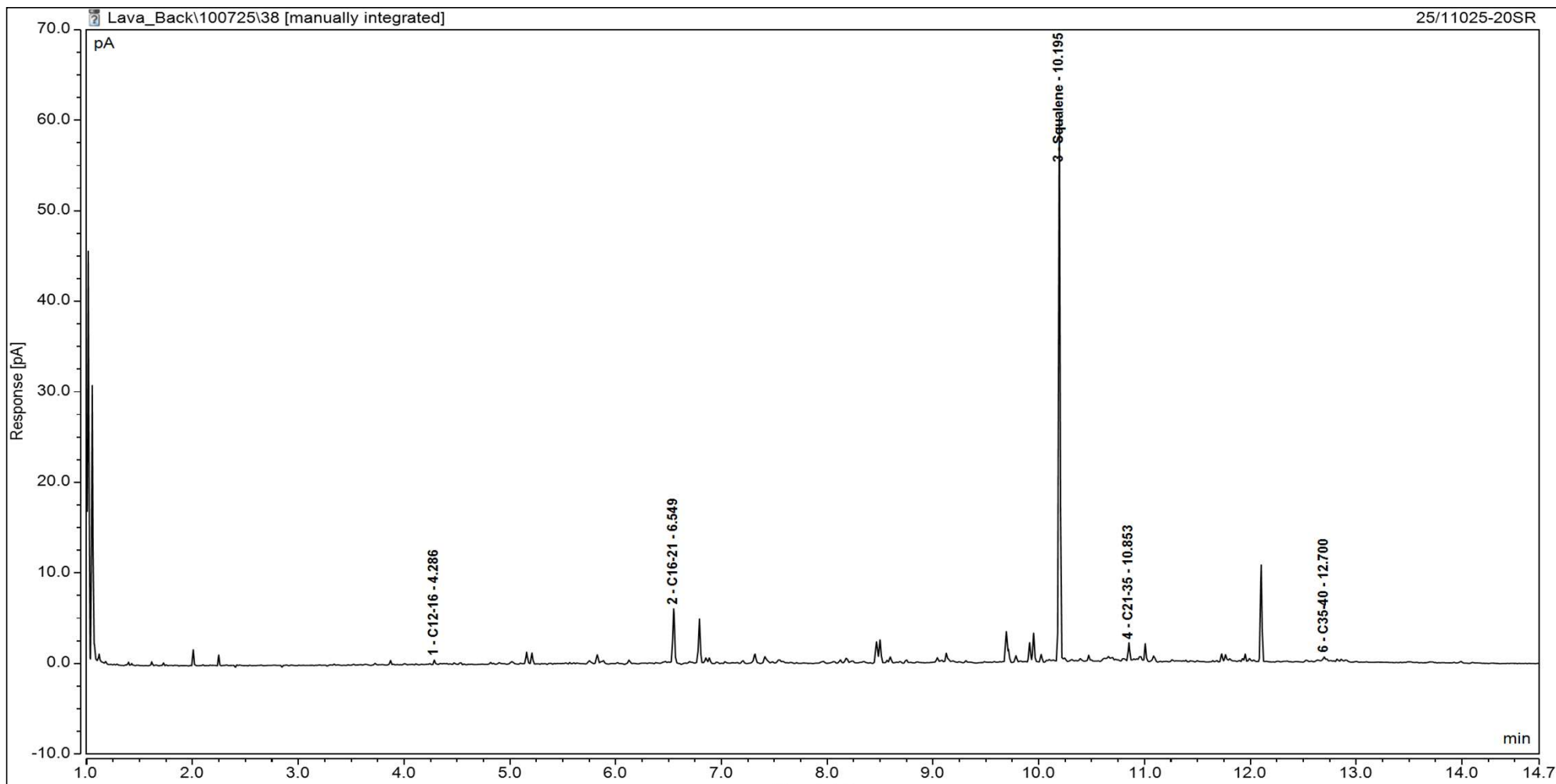
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 20  
**Sample Identity:** AATP107  
**Depth:** 0.45  
**Matrix:** Solid



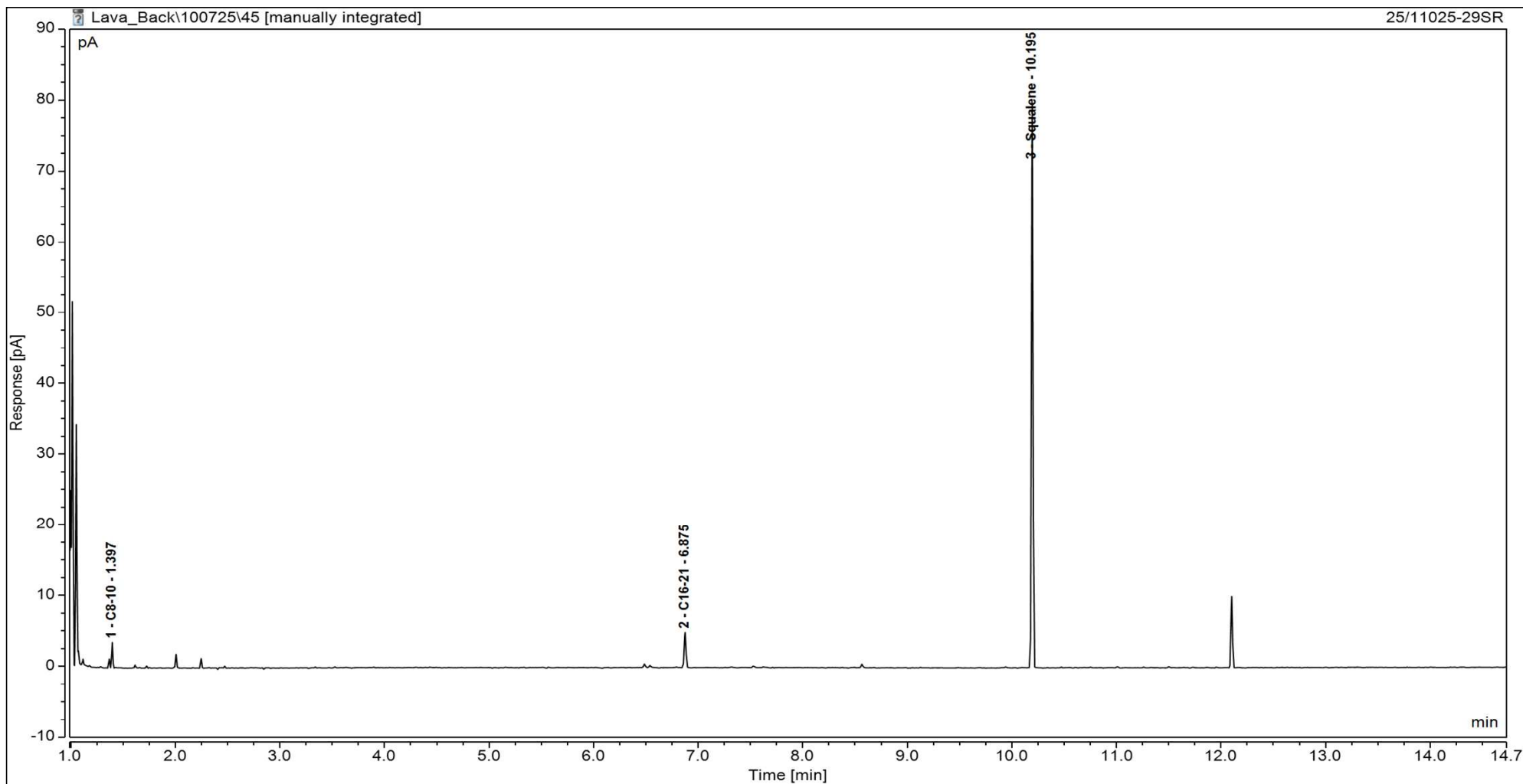
**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 20  
**Sample Identity:** AATP107  
**Depth:** 0.45  
**Matrix:** Solid



**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**EMT Job No.:** 25/11025  
**EMT Sample No.:** 29  
**Sample Identity:** AATP105  
**Depth:** 1.00  
**Matrix:** Solid



**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

**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). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

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.	Analyst Name	Date Of Analysis	Analysis	Result					
25/11025	1	AATP105	0.30	3	Simon Postlewhite	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil/stones					
					Simon Postlewhite	07/07/2025	<b>Asbestos Fibres</b>	NAD					
					Simon Postlewhite	07/07/2025	<b>Asbestos ACM</b>	NAD					
					Simon Postlewhite	07/07/2025	<b>Asbestos Type</b>	NAD					
25/11025	1	AATP106	0.50	12	Simon Postlewhite	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil/stones					
					Simon Postlewhite	07/07/2025	<b>Asbestos Fibres</b>	NAD					
					Simon Postlewhite	07/07/2025	<b>Asbestos ACM</b>	NAD					
					Simon Postlewhite	07/07/2025	<b>Asbestos Type</b>	NAD					
25/11025	1	AATP106	0.80	15	Miriam Silverlock	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones					
					Miriam Silverlock	07/07/2025	<b>Asbestos Fibres</b>	Fibre Bundles					
					Miriam Silverlock	07/07/2025	<b>Asbestos Fibres (2)</b>	Fibre Bundles					
					Miriam Silverlock	07/07/2025	<b>Asbestos ACM</b>	ACM Debris					
					Miriam Silverlock	07/07/2025	<b>Asbestos ACM (2)</b>	ACM Debris					
					Miriam Silverlock	07/07/2025	<b>Asbestos Type</b>	Chrysotile					
					Miriam Silverlock	07/07/2025	<b>Asbestos Type (2)</b>	Amosite					
					Miriam Silverlock	22/07/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)					
					Miriam Silverlock	22/07/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)					
					Miriam Silverlock	22/07/2025	<b>Total Gravimetric Quantification (ACM + Detailed) (% Asb)</b>	<0.001 (mass %)					
25/11025	1	AATP106	1.75	18	Miriam Silverlock	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones					
					Miriam Silverlock	07/07/2025	<b>Asbestos Fibres</b>	NAD					
					Miriam Silverlock	07/07/2025	<b>Asbestos ACM</b>	NAD					
					Miriam Silverlock	07/07/2025	<b>Asbestos Type</b>	NAD					
					25/11025	1	AATP107	0.45	21	Miriam Silverlock	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil, stones
										Miriam Silverlock	07/07/2025	<b>Asbestos Fibres</b>	Fibre Bundles
										Miriam Silverlock	07/07/2025	<b>Asbestos Fibres (2)</b>	Fibre Bundles
										Miriam Silverlock	07/07/2025	<b>Asbestos ACM</b>	ACM Debris
										Miriam Silverlock	07/07/2025	<b>Asbestos ACM (2)</b>	ACM Debris
										Miriam Silverlock	07/07/2025	<b>Asbestos Type</b>	Chrysotile
25/11025	1	AATP107	0.45	21	Miriam Silverlock	07/07/2025	<b>Asbestos Type (2)</b>	Amosite					
					Miriam Silverlock	22/07/2025	<b>Total ACM Gravimetric Quantification (% Asb)</b>	<0.001 (mass %)					
					Miriam Silverlock	22/07/2025	<b>Total Detailed Gravimetric Quantification (% Asb)</b>	0.749 (mass %)					
					Miriam Silverlock	22/07/2025	<b>Total Gravimetric Quantification (ACM + Detailed) (% Asb)</b>	0.749 (mass %)					

**Client Name:** OHES Environmental  
**Reference:** 412350  
**Location:** AOC Haverhill  
**Contact:** Gregg Tatum

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
25/11025	1	AATP107	0.45	21	Remigiusz Blichowski	29/07/2025	<b>Asbestos PCOM Quantification (Fibres)</b>	<0.001 (mass %)
					Remigiusz Blichowski	29/07/2025	<b>Asbestos Gravimetric &amp; PCOM Total</b>	0.749 (mass %)
25/11025	1	AATP107	0.70	24	Simon Postlewhite	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil/stones
					Simon Postlewhite	07/07/2025	<b>Asbestos Fibres</b>	NAD
					Simon Postlewhite	07/07/2025	<b>Asbestos ACM</b>	NAD
					Simon Postlewhite	07/07/2025	<b>Asbestos Type</b>	NAD
25/11025	1	AATP105	1.00	30	Simon Postlewhite	07/07/2025	<b>General Description (Bulk Analysis)</b>	Brown soil/stones
					Simon Postlewhite	07/07/2025	<b>Asbestos Fibres</b>	NAD
					Simon Postlewhite	07/07/2025	<b>Asbestos ACM</b>	NAD
					Simon Postlewhite	07/07/2025	<b>Asbestos Type</b>	NAD



# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 25/11025

## SOILS and ASH

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. Asbestos samples are retained for 6 months.

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. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil 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 is quoted, this refers to Total Aliphatics C10-C40.

## STACK EMISSIONS

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 for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

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

## 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 requirement of our Accreditation Body 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.

Laboratory records are kept for a period of no less than 6 years.

**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.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

**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 quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
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	x2 Dilution
AB	x10 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: 25/11025

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S 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 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
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.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
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.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) 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
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

EMT Job No: 25/11025

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
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 degrees Celsius. 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 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	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!	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
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	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
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, 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
TM179	Determination of Glycols using LCMS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

# **Appendix D – Tier 1 Generic Quantitative Risk Assessment**

Project Reference:	AL2020
Site:	APC Hazardous
Land Use:	Commercial
Soil Organic Matter:	OT
Assessed by:	OT
Checked by:	CC

Sample ID	AATP101	AATP102	AATP103	AATP104	AATP105	AATP106	AATP107	AATP108	AATP109	AATP110	AATP111	AATP112	AATP113	AATP114	AATP115	AATP116	AATP117	AATP118	AATP119	AATP120	C65	CL:air	SGV	S4UL	Units
Sample ID	0.0010	0.0010	1.1	0.1	1	0.2	0.2	0.5	0.5	0.2	0.3	1	2	0.5	0.6	1.75	0.5	0.7	1.7						

Parameter	AATP101	AATP102	AATP103	AATP104	AATP105	AATP106	AATP107	AATP108	AATP109	AATP110	AATP111	AATP112	AATP113	AATP114	AATP115	AATP116	AATP117	AATP118	AATP119	AATP120	C65	CL:air	SGV	S4UL	Units
Antimony	11.5	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	NA	NA	NA	NA	mg/kg
Barium	73	64	59	40	50	42	71	26	76	71	24	64	134	25	NA	NA	22000	NA	NA	NA	NA	NA	NA	NA	mg/kg
Beryllium	1.3	1.3	1.5	0.9	0.9	2	1.3	0.5	1.6	0.4	0.7	1.2	1.3	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Cadmium	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	NA	NA	400	NA	NA	NA	NA	NA	NA	NA	mg/kg
Chromium III	46.0	62.4	78.1	27.4	47	31	32.6	46.3	22.2	43.1	48.3	30.3	102.2	12.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Chromium VI	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Copper	34	31	17	28	110	21	22	43	39	100.3	126	30	56	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Lead	19	25	14	13	22	13	25	15	18	18	112	109	27	30	6	2300	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Manganese (Inorganic)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Nickel	23.6	24.6	22	20.1	19.5	32.6	26.4	16	27.6	56.8	17.7	28.8	25.8	13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Selenium	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	NA	NA	13000	13000	13000	13000	13000	13000	13000	13000	mg/kg
Sodium	41	46	49	36	36	45	35	24	45	39	29	36	32	43	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Zinc	60	82	59	65	62	67	86	64	83	145	134	83	87	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg

**Hydrocarbons**

Parameter	AATP101	AATP102	AATP103	AATP104	AATP105	AATP106	AATP107	AATP108	AATP109	AATP110	AATP111	AATP112	AATP113	AATP114	AATP115	AATP116	AATP117	AATP118	AATP119	AATP120	C65	CL:air	SGV	S4UL	Units	
Benzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg
Toluene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg
Ethylbenzene	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg
Xylenes	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/kg
Propylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg
Acetylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg
Aliphatic C4-6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg
Aliphatic C8-10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg
Aliphatic C10-12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg
Aliphatic C12-16	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	mg/kg
Aliphatic C16-20	137	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	mg/kg
Aliphatic C20-28	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg
Aliphatic C28-36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg
Aliphatic C36-42	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg
Aliphatic C42-56	73	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	mg/kg
Aliphatic C56-81	142	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	mg/kg

**SVOCs**

Parameter	AATP101	AATP102	AATP103	AATP104	AATP105	AATP106	AATP107	AATP108	AATP109	AATP110	AATP111	AATP112	AATP113	AATP114	AATP115	AATP116	AATP117	AATP118	AATP119	AATP120	C65	CL:air	SGV	S4UL	Units	
1,2-Dichloroethane	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/kg
Acenaphthylene	0.018	<0.010	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/kg
Acenaphthene	0.005	<0.010	<0.010	<0.010	<0.010	0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	mg/kg
Benzo[a]anthracene	0.206	0.052	<0.010	0.046	<0.010	0.115	<0.010	0.01	0.039	0.052	0.039	<0.010	13.787	1.068	0.046	2.845	0.066	0.05	NA	NA	NA	NA	170	NA	NA	mg/kg
Benzo[a]pyrene	0.296	0.034	<0.010	0.033	<0.010	0.121	<0.010	0.011	0.031	0.045	0.031	<0.010	11.318	0.904	0.031	0.031	0.036	0.036	NA	NA	NA	NA	170	NA	NA	mg/kg
Benzo[b]fluoranthene	0.427	0.048	<0.010	0.033	<0.010	0.219	<0.010	<0.010	0.045	0.057	<0.010	15.253	1.192	0.039	3.639	0.055	0.034	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Benzo[k]fluoranthene	0.195	0.028	<0.010	<0.010	<0.010	0.177	<0.010	<0.010	0.021	0.010	<0.010	8.294	0.526	0.037	1.932	0.027	0.018	NA	NA	NA	NA	NA	NA	NA	mg/kg	
Benzo[e]fluoranthene	0.164	0.018	<0.010	<0.010	<0.010	0.065	<0.010	<0.010	0.011	0.010	<0.010	5.143	0.463	0.031	1.489	0.031	0.013	NA	NA	NA	NA	NA	NA	NA	mg/kg	
Chrysene	0.263	0.043	<0.010	0.024	<0.010	0.142	<0.010	0.021	0.039	0.010	<0.010	14	1.065	0.029	2.695	0.044	0.025	NA	NA	NA	NA	NA	NA	NA	NA	mg/kg
Dibenz[a,h]anthracene	0.049	<0.010	<0.010	<0.010																						