



**GROUNDTECH**  
CONSULTING

**Job title:** Tetrosyl Bevis Green Works,  
Bury

**Report type:** Permanent Ground Gas and  
VOC Vapour Risk Assessment

**Prepared for:** Urban Regen

**Date:** 25 August 2022

| Document Control Form                   |                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------|
| PROJECT                                 | TETROSYL BEVIS GREEN WORKS, BURY                                                     |
| REPORT NAME                             | PERMANENT GROUND GAS & VOC VAPOUR RISK ASSESSMENT (PHASE 2B)                         |
| REPORT REFERENCE                        | GRO-21459-3784                                                                       |
| STATUS                                  | FINAL                                                                                |
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|                                         |                                                                                      |
|                                         |                                                                                      |
| CLIENT                                  | URBAN REGEN                                                                          |
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## 1. Introduction

Groundtech Consulting have completed the supplementary gas and VOC monitoring/sampling programme in Phase 2B at Tetrosyl Bevis for the proposed residential development.

## 2. Previous Gas Monitoring Information

Previous investigation has been undertaken on the site with respect to permanent ground gases in the northern section of Phase 2 prior to the supplementary gas monitoring programme carried out by Groundtech Consulting and are summarised below:

- *ENSR International Limited Ref: 10468-1(01) "Phase I and Phase II Environmental Site Assessment Tetrosyl, Bevis Green Works." (Dated: January 2003).*
- *RSK STATS Geoconsult Limited Ref: 16565-R1(00) "Revised Environmental Site Assessment Tetrosyl, Bevis Green Works." (Dated: February 2011).*
- *E3P Limited Ref: 10-110-R1 "Phase I and Phase II Geo-Environmental Site Investigation Bevis Green Works (Tetrosyl)." (Dated: May 2014).*
- *Smith Grant LLP Ref: R2174-R01-v2 "Outline Remedial Strategy." (Dated: May 2019).*

The E3P report specifically refers to the gas and VOC monitoring at the northern end of Phase 2 near the position of the solvent tank farm. The report recorded elevated levels of carbon dioxide and methane and indicated the general requirement for gas and vapour remediation to determine the requirement for provision of gas protection in new buildings.

Works have been undertaken in the area to remove primary and secondary contamination sources and a groundwater treatment trial is underway. Further investigation and assessment of gas and VOC vapour risks to built development and future residents was recommended by Smith Grant to classify the permanent ground gas risk and vapour risk, and satisfy the requirements of Bury council that the appropriate construction-stage mitigation (gas protection measures) could adequately manage residual risks.

### 3. *Ground Model*

Reworked Made Ground was encountered in all exploratory hole locations to depths of between 1.5m and 2.95m bgl and was generally granular with minor constituents of brick and concrete.

Superficial deposits were not encountered during the Investigation.

Extremely weak brown Sandstone bedrock, residually weathered, recovered as slightly sandy cobbly gravel was typically below the Made Ground to a maximum depth of 3.0m bgl.

Groundwater was not encountered during the investigation.

The exploratory hole positions are presented on the Exploratory Hole Location Plan *GRO-21459-P02* and the logs are in *Appendix 2*.

#### 4. Gas Monitoring

##### Scope

During the Ground Investigation works, monitoring standpipes were installed and a summary of the installations is provided in the table below.

| Location | Depth (m bgl) | Response Zone (m bgl) | Targeted Strata                 | Reason         |
|----------|---------------|-----------------------|---------------------------------|----------------|
| WS501    | 2.6           | 1.0 – 2.6             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS502    | 1.7           | 1.0 – 1.7             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS503    | 3.0           | 1.0 – 3.0             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS504    | 2.6           | 1.0 – 2.6             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS505    | 3.0           | 1.0 – 3.0             | Made Ground                     | Ground Gas/VOC |
| WS506    | 2.8           | 1.0 – 2.8             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS507    | 2.8           | 1.0 – 2.8             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS508    | 2.2           | 1.0 – 2.2             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS509    | 2.0           | 1.0 – 2.0             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS510    | 3.0           | 1.0 – 3.0             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS511    | 3.0           | 1.0 – 3.0             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS512    | 2.0           | 1.0 – 2.0             | Made Ground & Natural Sandstone | Ground Gas/VOC |
| WS513    | 1.7           | 1.0 – 1.7             | Made Ground & Natural Sandstone | Ground Gas/VOC |

The standpipes consisted of polyvinyl chloride (pvc) pipe - a bentonite seal was placed around the plain pipe and a clean gravel pack was placed around the slotted pipe.

Six ground gas monitoring visits have been completed between 14<sup>th</sup> April 2022 and 28<sup>th</sup> July 2022. Monitoring of the weather conditions and predicted atmospheric pressures (Met Office Surface Pressure Charts) was carried out up to 72 hours in advance of proposed monitoring visits in order that a reasonable period of data was obtained to determine atmospheric trends, and also to target the 'worst case' scenario.

Permanent gas and flow rate monitoring was carried out using a GFM436 infrared gas monitor with integral electronic flow analyser. The measurements taken are listed below:

- Oxygen (O<sub>2</sub>), carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>) as the percentage volume in air (%v/v).
- Hydrogen sulphide (H<sub>2</sub>S) and carbon monoxide (CO) as the percentage volume in air (%v/v).
- Lower Explosive Limit (% LEL) of methane.
- Atmospheric and borehole pressure, including pressure trend.
- Flow measurements (l/hr).
- Weather and ground surface conditions.

Both peak and steady state conditions were monitored to understand the behaviour of the permanent ground gas, the steady state conditions were recorded by allowing the gas monitor to run for a minimum of 3 minutes.

Permanent gas and groundwater monitoring results are presented in *Appendix 3*.

##### Gas Monitoring Results

During the monitoring period, methane (CH<sub>4</sub>) concentrations up to a level of 27.1%v/v have been recorded within the standpipes and levels of carbon dioxide (CO<sub>2</sub>) were recorded within the standpipes up to a maximum level of 8.4%v/v, associated depleted oxygen (O<sub>2</sub>) concentrations (minimum 0.1% v/v) were recorded.

In addition, a maximum flow rate of 0.4l/hr was recorded in WS02 on a single visit, a flow rate of 0.3l/hr was also recorded within WS03 during the same visit. No flow rates have been recorded in any of the other installations during the monitoring period.

Groundwater levels were recorded within the standpipes (WS501, WS507, WS508 and WS512) ranging from 0.28m to 2.64m bgl during the monitoring period and was occasionally above the response zone of the standpipes. This is likely a result of groundwater becoming perched within the standpipes as a result of the poor drainage conditions of the cohesive Made Ground.

The atmospheric pressure ranged between 994mb and 1004mb during the monitoring period and was carried out during periods of rising, steady and falling barometric pressure.

#### *Characterisation of the Gas Screening Value (GSV)*

In accordance with CIRIA Report C665, November 2007 it is felt that an adequate risk assessment can be undertaken based on the following limiting factors:

- *The proposed development has been considered as **high sensitivity** based on the site being developed with residential dwellings (Table 5.5 – Typical/Idealised frequency and period of monitoring, after Wilson et al, 2005).*
- *The risk associated with the generation potential of a source is considered as **moderate to high**, (assessment based on the environmental setting) as well as observations noted during the fieldworks.*
- *Negligible flow rates have been recorded (Table 8.5 – Modified Wilson & Card classification). For this site, two of the monitoring visits were targeted to correlate with a falling atmospheric pressure trend. As a comparison, monitoring has also been undertaken during rising and steady atmospheric pressure trends.*

Based upon the results recorded, in accordance with CIRIA Report C665, the risk to the site from ground gases has been assessed by converting the results to gas screening values (GSVs), calculated by multiplying the typical maximum gas concentrations with the recorded maximum positive flow rates. In addition, individual “hazardous gas flow rates” (Qhg) have been derived for each monitoring point. As levels of methane and carbon dioxide have been recorded, a GSV has been calculated for both.

$$GSV (l/hr) = \text{max borehole flow rate (l/hr)} \times \text{max gas concentration (\%)}$$

For this assessment, the maximum recorded concentration of methane of 27.1%v/v has been used together with the maximum flow rate of 0.4l/hr to calculate the GSV.

$$\text{Methane GSV} = 0.271 (27.1\%) \times 0.4 = 0.1084 \text{ l/hr}$$

For this assessment, the maximum recorded concentration of carbon dioxide of 8.4%v/v has been used together with the maximum flow rate of 0.4l/hr to calculate the GSV.

$$\text{Carbon Dioxide GSV} = 0.084 (8.4\%) \times 0.4 = 0.0336 \text{ l/hr}$$

## 5. Assessment

Supplementary ground gas monitoring was carried out based on the findings of previous Ground Investigation works carried out by E3P Ltd and Smith Grant LLP.

Detectable methane concentrations of up to 27.1%v/v have been recorded and a maximum concentration of carbon dioxide of 8.4%v/v has been recorded over the monitoring period.

Groundwater has been encountered within the response zone of the boreholes on occasions and is likely to be perched groundwater within the standpipes which could have restricted the lateral migration of gases into the standpipe. The concentrations of methane and carbon dioxide are considered to be associated with the lower range hydrocarbon fractions and volatile organic compounds still present within the natural bedrock (Rough Rock Sandstone) from the previous above ground tank farm.

A positive borehole pressure was noted where flow rates were above 0.0l/hr, which is likely to have caused the gas flows in WS02 and WS03, the gas flows have been used in the assessment to represent worst case conditions.

Based on the site being developed with low-rise housing, the Boyle and Witherington, 2006 method has been used to carry out the assessment. This is a risk-based approach that is designed to allow an identification of gas protection for a low-rise housing development by comparing the measured gas emission rates to generic 'traffic lights' scenarios. The traffic lights include 'typical maximum concentrations' and are provided for initial screening purposes and risk-based gas screening values for consideration in situations where the typical maximum concentrations are exceeded.

When considering the results, in accordance with CIRIA C665 (Situation B – Low-rise housing with a ventilated underfloor void (min 150mm) and Table 8.7 – NHBC Traffic light system for 150mm void) it can be seen that the GSV value for carbon dioxide is below the assessment GSV of <0.78l/hr and places it in Green category.

The typical maximum concentration is above 5%v/v and therefore the site would also be increased to Amber 1 category.

The GSV for methane is below the GSV of <0.16l/hr and also falls within the Green category. The maximum concentration of methane is greater than 20%v/v at a single monitoring well and the typical maximum concentrations of methane are below 20%, it is therefore considered that Amber 1 conditions should prevail based on the typical methane concentrations recorded. The GSV is above 0.07l/hr placing the site in CS2, however due to the methane concentrations it has been increased to CS3.

*NHBC – Amber 1 Traffic Light  
Wilson Card – CS3*

It should be noted that the methane concentrations are likely due to the breakdown of light fraction hydrocarbons in anoxic conditions associated from the previous usage of white spirit and interference with the infrared gas monitor - not a gassing source. This is discussed further in Section 6 including increasing the specification of the membrane.

An extract of the table is presented below.

| Character-<br>istic<br>Situation<br>(Wilson<br>and Card) | Methane                          |                                               |                                  |                                                  | Carbon Dioxide                      |                                               |                                  |                                                  | Traffic<br>Light<br>Classificati-<br>on (NHBC) |
|----------------------------------------------------------|----------------------------------|-----------------------------------------------|----------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------------------------|----------------------------------|--------------------------------------------------|------------------------------------------------|
|                                                          | NHBC                             |                                               | Wilson and Card                  |                                                  | NHBC                                |                                               | Wilson and Card                  |                                                  |                                                |
|                                                          | Gas<br>Screening<br>Value (l/hr) | Typical<br>Maximum<br>Concentration<br>(%v/v) | Gas<br>Screening<br>Value (l/hr) | Typical<br>Maximum<br>Concentration<br>(%v/v)    | Gas<br>Screening<br>Value<br>(l/hr) | Typical<br>Maximum<br>Concentration<br>(%v/v) | Gas<br>Screening<br>Value (l/hr) | Typical<br>Maximum<br>Concentration<br>(%v/v)    |                                                |
| 1                                                        | 0.16                             | 1                                             | <0.07                            | <1                                               | 0.78                                | 5                                             | <0.07                            | <5                                               | Green                                          |
| 2                                                        |                                  |                                               | <0.7                             | Borehole flow<br>rate not greater<br>than 70l/hr |                                     |                                               | <0.7                             | Borehole flow<br>rate not greater<br>than 70l/hr | Amber 1                                        |
| 3                                                        | 0.63                             | 5                                             | <3.5                             |                                                  | 1.56                                | 10                                            | <3.5                             |                                                  |                                                |
| 4                                                        |                                  |                                               | <15                              | Quantitative<br>Risk Assessment<br>Required      |                                     |                                               | <15                              | Quantitative<br>Risk<br>Assessment<br>Required   |                                                |
| 5                                                        | 1.56                             | 20                                            | <70                              |                                                  | 3.10                                | 30                                            | <70                              |                                                  | Red                                            |
| 6                                                        |                                  |                                               | >70                              |                                                  |                                     |                                               | >70                              |                                                  |                                                |

The proposed residential development is classified as a Building Type A in accordance with BS 8485. The site falls in CS3 in accordance with Table 2 of the above guidance and therefore, 4.5 points of protection are required for the proposed development and gas protection measures are deemed necessary.

The 4.5 points can be achieved using a combination of the following methods:

- *Cast in situ monolithic reinforced ground bearing raft or reinforced cast in situ suspended floor slab with minimal penetrations - 1 or 1.5 points.*
- *Clear void (Excellent performance) – 2.5 points*
- *Membrane – 2 points.*

CIRIA C665 details the following for residential buildings that fall into CS3:

- Reinforced concrete cast in situ floor slab (suspended, non suspended or raft) with propriety gas resistant membrane and passively vented underfloor sub-space.*
- Beam and block or pre-cast concrete and propriety gas resistant membrane and passively vented underfloor sub-space.*
- All joints and penetrations sealed.*

The above gas precautions are required for all plots in Phase 2B, this includes Plots 60 to 91 and Plot 41 as presented on Groundtech Plan GRO-21459-P03.

It is recommended that confirmation of these findings is made with the Local Authority prior to any irrevocable action being taken.

## 6. VOC Analysis

In addition to the Gas Monitoring Programme carried out focusing on Phase 2B, Volatile Organic Compound (VOC) vapour analysis has been undertaken following the recommendations outlined by Smith Grant LLP in Outline Remedial Strategy referenced *R2174-R01-v2* and dated May 2019.

### *Vapour Survey – Photo Ionisation Detector*

Standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on Ground Investigation. Onsite monitoring was carried out in line CIRIA C665 to aid targeting samples for VOC laboratory analysis.

Soil was collected for onsite testing, a plastic bag was half filled with soil allowing a suitably sized headspace. The bag was sealed and stored for at least 20 minutes before being tested for Total Volatile Organic Compounds (TVOCs) using a Photo Ionisation Detector (PID).

Results of the PID readings are presented on the logs and in *Appendix 4*, a summary can be found below:

| Location | Minimum concentration (ppm) | Maximum concentration (ppm) |
|----------|-----------------------------|-----------------------------|
| WS501    | 0                           | 0                           |
| WS502    | 0                           | 2                           |
| WS503    | 0                           | 2                           |
| WS504    | 0                           | 4                           |
| WS505    | 0                           | 16                          |
| WS506    | 0                           | 0.5                         |
| WS507    | 0                           | 0                           |
| WS508    | 0                           | 50                          |
| WS509    | 73                          | >5000                       |
| WS510    | 25                          | 233                         |
| WS511    | 0                           | 4                           |
| WS512    | 0                           | 1                           |
| WS513    | 0                           | 1                           |

Additional PID testing was carried out after the installation of the gas monitoring wells, the results are presented below:

| Location | Maximum concentration (ppm) |
|----------|-----------------------------|
| WS501    | 0                           |
| WS502    | 0.5                         |
| WS503    | 1.3                         |
| WS504    | 0.3                         |
| WS505    | 0                           |
| WS506    | 0                           |
| WS507    | 138.2                       |
| WS508    | 64                          |
| WS509    | 8.2                         |
| WS510    | 274.5                       |
| WS511    | 335.2                       |
| WS512    | 10.4                        |

WS513

11.7

### VOC Vapour – Bulk Gas Sampling

Thirteen samples of bulk gas have been tested for a VOCs and speciated TPH. A Generic Quantitative Risk Assessment (GQRA) has been undertaken to determine the significance of the concentrations as derived through Geo-Environmental analysis.

The methodology for deriving assessment screening criteria for health impacts from VOCs at the receptor is set out in *Appendix 9* of the VOC handbook. Tolerable Daily Soil Intake values or Index Doses (for non-carcinogens and carcinogens respectively) are multiplied by the body weight (13.3 kg) and divided by the inhalation rate (8.8 m<sup>3</sup>/day) of a child receptor as defined in the most recent published UK guidance (DEFRA C4SL).

A summary of the VOC and speciated TPH results is presented below and a full set is in *Appendix 5*:

| Contaminant                   | Range (ug/m <sup>3</sup> ) | Inhalation HCV (ug/kg.bw.day <sup>-1</sup> ) | Assessment Criteria | Exceedances | Locations                                                                    |
|-------------------------------|----------------------------|----------------------------------------------|---------------------|-------------|------------------------------------------------------------------------------|
| <i>Benzene</i>                | 25.6 – 2,528.8             | 1.4 (S4UL)                                   | 5                   | 13          | WS501 – WS513                                                                |
| <i>Toluene</i>                | 20 – 278,350.5             | 1,400 (S4UL)                                 | 2,116               | 5           | WS508, WS509, WS510, WS511 & WS513                                           |
| <i>Ethylbenzene</i>           | 12.6 – 9929.2              | 74.3 (S4UL)                                  | 112                 | 7           | WS505, WS507, WS508, WS509, WS510, WS511 & WS513                             |
| <i>m/p-Xylene</i>             | 31.3 – 38,936.7            | 60 (S4UL)                                    | 91                  | 9           | WS502, WS503, WS505, WS507, WS508, WS509, WS510, WS511 & WS513               |
| <i>o-Xylene</i>               | 11.7 – 6,316.6             | 60 (S4UL)                                    | 91                  | 5           | WS508, WS509, WS510, WS511 & WS513                                           |
| <i>Aliphatic (C4-C6)</i>      | 36 – 9,711,162             | 5,000 (S4UL)                                 | 7,557               | 7           | WS503, WS504, WS506, WS508, WS509, WS510 & WS511                             |
| <i>Aliphatic (C6-C8)</i>      | 352 – 46138927             | 5,000 (S4UL)                                 | 7,557               | 9           | WS503, WS504, WS505, WS507, WS508, WS509, WS510, WS511 & WS513               |
| <i>Aliphatic (C8-C10)</i>     | <53 – 870,240              | 290 (S4UL)                                   | 438                 | 10          | WS502, WS503, WS504, WS505, WS506, WS507, WS508, WS509, WS510, WS511 & WS513 |
| <i>Aliphatic (C10-C12)</i>    | <65 – 20,508               | 290 (S4UL)                                   | 438                 | 11          | WS502, WS503, WS504, WS505, WS506, WS507, WS508, WS509, WS510, WS511 & WS513 |
| <i>Aromatic (EC8-EC10)</i>    | 211 – 1,343,396            | 60 (S4UL)                                    | 91                  | 13          | WS501 – WS513                                                                |
| <i>Aromatic (EC10 – EC12)</i> | <53 – 13,632               | 60 (S4UL)                                    | 91                  | 10          | WS503, WS504, WS505, WS506, WS507, WS508, WS509, WS510, WS511 & WS513.       |
| <i>Chloromethane</i>          | 3.7 – 24.8                 | 5.14 (CL:AIRE GAC)                           | 7.77                | 8           | WS503, WS505, WS506, WS507, WS508, WS509, WS510 & WS512                      |

|                          |               |                   |              |   |                                     |
|--------------------------|---------------|-------------------|--------------|---|-------------------------------------|
| 1, 1-Dichloroethane      | <6.1 – 209.3  | 200 (CL:AIRE GAC) | 132.33       | 1 | WS510                               |
| 1,2-Dichloroethane       | <6.1 – 91.9   | 0.12 (S4UL)       | 0.181        | 3 | WS508, WS509 & WS510                |
| Chloroform               | <7.3          | 40 (S4UL)         | 26.47        | 0 | -                                   |
| Trichloroethene (TCE)    | <8.1 – 1032.4 | 0.57 (S4UL)       | 0.86         | 9 | WS501 – WS505, WS508, WS510 – WS513 |
| Tetrachloroethene (PCE)  | <10.2 – 190.6 | 71                | 107.3 (S4UL) | 1 | WS510                               |
| 1, 1, 1-Trichloroethane  | <8.2 – 790.7  | 600               | 906.8 (S4UL) | 0 | -                                   |
| Naphthalene              | <1.7 – 8.5    | 0.86              | 1.3 (S4UL)   | 5 | WS507, WS508, WS509, WS510 & WS511  |
| Chlorobenzene            | <6.9 – 34.1   | 8.1               | 12.2 (S4UL)  | 1 | WS09                                |
| 1, 2-Dichlorobenzene     | <9.0          | 0.043             | 0.065 (S4UL) | 0 | -                                   |
| 1, 4-Dichlorobenzene     | <9.0          | 0.12              | 0.181 (S4UL) | 0 | -                                   |
| 1, 2, 3-Trichlorobenzene | <11.1         | 0.001             | 0.002 (S4UL) | 0 | -                                   |
| 1, 2, 4-Trichlorobenzene | <11.1 – 28.9  | 0.0023            | 0.003 (S4UL) | 1 | WS501                               |

For TCE, Dichloroethane, Dichlorobenzene and Trichlorobenzene, the laboratory detection value is greater than the gas assessment criteria and it is possible that all of the samples fall above the screening value criteria.

There is no HCV value for F-11 (Trichlorofluoromethane) or F-12 (Dichlorodifluoromethane) and these have not been included in the table. USGS described the historical use of Chlorofluorocarbons:

“Chlorofluorocarbons (CFCs) are stable, synthetic, halogenated alkanes, developed in the early 1930s as safe alternatives to ammonia and sulphur dioxide in refrigeration. Production of CFC12 (dichlorodifluoromethane, CF<sub>2</sub>Cl<sub>2</sub>) began in 1931 followed by CFC-11 (trichlorofluoromethane) in 1936. Many other CFC compounds have since been produced, most notably CFC-113 (trichlorotrifluoroethane, C<sub>2</sub>F<sub>3</sub>Cl<sub>3</sub>). CFCs are non-flammable, noncorrosive, nonexplosive, very low in toxicity, and have physical properties conducive to a wide range of industrial and refrigerant applications. Primary uses of CFC-11 and CFC-12 include refrigerants in air-conditioning and other coolers, blowing agents in foams, insulation, and packing materials, propellants in aerosol cans, and as solvents.”

These are generally considered inert and none toxic at low concentrations however F11 concentration of between <8.4ug/m<sup>3</sup> and 168ug/m<sup>3</sup> have been recorded alongside F-12 concentrations of between 208ug/m<sup>3</sup> and 450322.5ug/m<sup>3</sup>. The contaminants have been recorded at their greatest concentrations within WS501 to WS509 which are present at the central, western and southern areas of Phase 2B and are considered to be associated with the contaminated bedrock and groundwater from HS10, HS11 and quarry. Generally, freon concentrations are low however F12 concentrations recorded in WS501 to WS509 are considered to be high and mitigation measures will be required as discussed in subsequent sections of the report.

Elevated concentrations of BTEX, volatile-range hydrocarbons and naphthalene have been detected consistently across Phase 2B. The highest concentrations have been recorded to the south eastern section which situates downgradient of HS10/HS11.

Concentrations of chloromethane, trichlorobenzene, chlorobenzene, PCE and TCE have been recorded above assessment criteria within the southern and eastern areas of Phase 2B, which is located downgradient of the former quarry as well as HS10/HS11.

The VOC Assessment has been undertaken prior to groundwater treatment in Phase 2B which will also provide betterment.

A revised illustrative CSM has been compiled based on the report findings and is presented on *GRO-21459-P04*.

#### *Recommendations*

When considering the laboratory testing results alongside the PID values, a VOC vapour risk has been identified and vapour precautions are required as part of the proposed residential development. The recommended vapour precautions include the installation of a regulatory approved vapour resistant membrane.

A vapour membrane is a higher specification than a carbon dioxide/methane resistant membrane and will be sufficient to mitigate the identified risk from permanent ground gases. The specification of the membrane should be agreed with the Local Authority.

The vapour resistant membrane is required in all plots in Phase 2B (Plot 41 and 60 to 91) as specified on *GRO-21459-P03*.

It is recommended that the installation of the vapour membrane is verified by an independent third party in accordance with CIRIA C735.

## APPENDIX 1 - Plans



|                                                                                                                                     |                                  |             |         |      |             |  |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|---------|------|-------------|--|-----------------------------------------------|
| <div>GROUNDTECH<br/>CONSULTING</div> <div></div> | CLIENT                           | DATE        |         |      | Status      |  | Notes<br><div><div></div> SITE LOCATION</div> |
|                                                                                                                                     | URBAN REGEN                      | JUNE 2022   |         |      | Preliminary |  |                                               |
|                                                                                                                                     | PROJECT TITLE                    | SCALE       |         |      | Draft       |  |                                               |
|                                                                                                                                     | TETROSYL BEVIS GREEN WORKS, BURY | NTS         |         |      | Issued      |  |                                               |
|                                                                                                                                     | PLAN TITLE                       | PLAN NUMBER |         |      | For Comment |  |                                               |
| PROJECT LOCATION PLAN                                                                                                               | GRO-21459-P01                    | Rev.        | Details | Date | Approved    |  |                                               |

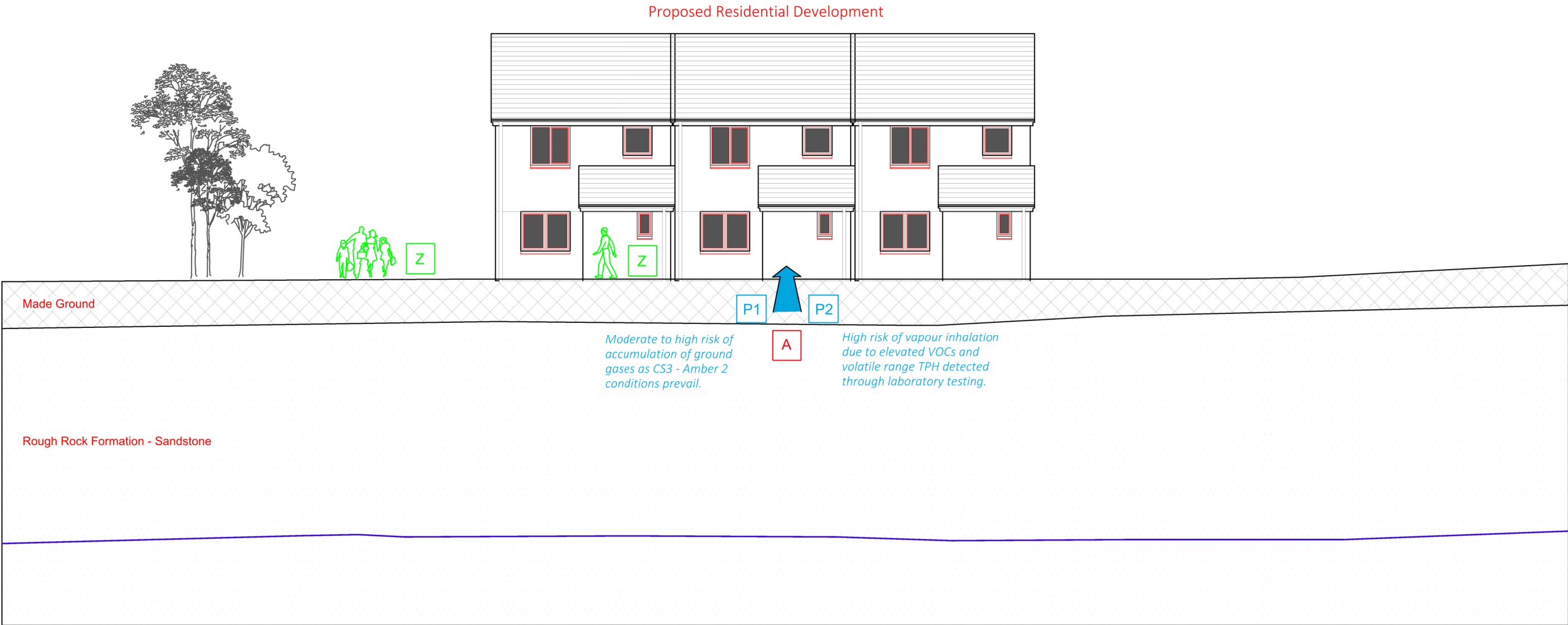




| SOURCES                 |
|-------------------------|
| A. Contaminated bedrock |

| POLLUTION LINKAGES                                                                             |
|------------------------------------------------------------------------------------------------|
| P1. Migration and accumulation of ground gas in internal places.<br>P2. Inhalation of vapours. |

| RECEPTORS          |
|--------------------|
| Z. End site users. |



|                                                          |                                  |               |      |         |      |             |   |       |
|----------------------------------------------------------|----------------------------------|---------------|------|---------|------|-------------|---|-------|
| <div>GROUNDTECH</div> <div>CONSULTING</div> <div>G</div> | CLIENT                           | DATE          |      |         |      | Status      |   | Notes |
|                                                          | URBAN REGEN                      | AUGUST 2022   |      |         |      | Preliminary |   |       |
|                                                          | PROJECT TITLE                    | SCALE         |      |         |      | Draft       |   |       |
|                                                          | TETROSYL BEVIS GREEN WORKS, BURY | NTS           |      |         |      | Issued      | ● |       |
|                                                          | PLAN TITLE                       | PLAN NUMBER   |      |         |      | For Comment |   |       |
|                                                          | ILLUSTRATIVE REVISED CSM         | GRO-21459-P04 | Rev. | Details | Date | Approved    |   |       |



## APPENDIX 2 - Exploratory Hole Logs



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# Borehole Log

Borehole No.

**WS501**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                          |   |
|      |               | 0.50                        | ES   | PID=0   |              |           |        | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.              | 1 |
|      |               | 1.50                        | ES   | PID=0   |              |           |        |                                                                                                                                                                                          | 2 |
|      |               | 2.60                        | ES   | PID=0   | 2.50<br>2.70 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 2.70 m | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 5 |

**Remarks**

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.6m bgl (1.0m plain, 1.6m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS502**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                                     |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                                         |   |
|      |               | 1.00                        | ES   | PID=0   |              |           |        | MADE GROUND: Dark brown to black slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and rare clinker. | 1 |
|      |               | 1.70                        | ES   | PID=2   | 1.70<br>1.75 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 1.75 m                | 2 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                                         | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                                         | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                                         | 5 |

## Remarks

1. Location cleared with CAT. 1. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 1.7m bgl (1.0m plain, 1.7m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS503**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                                     |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                                         |   |
|      |               | 0.50                        | ES   | PID=0   |              |           |        | MADE GROUND: Dark brown to black slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and rare clinker. | 1 |
|      |               | 1.50                        | ES   | PID=0   |              |           |        |                                                                                                                                                                                                         | 2 |
|      |               | 2.80                        | ES   | PID=2   | 2.70<br>3.00 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 3.00 m                | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                                         | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                                         | 5 |

## Remarks

1. Location cleared with CAT. 3. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 3.0m bgl (1.0m plain, 2.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS504**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                      |  |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                          |  |
|      |               | 0.50                        | ES   | PID=0   | 0.55         |           |        | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and wood.        |  |
|      |               | 1.50                        | ES   | PID=0   |              |           |        | MADE GROUND: Firm black slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                          |  |
|      |               | 2.65                        | ES   | PID=4   | 2.60<br>2.70 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 2.70 m |  |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.6m bgl (1.0m plain, 1.6m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS505**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

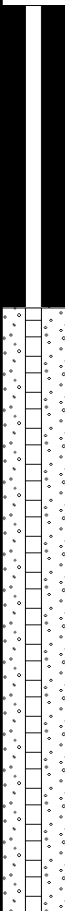
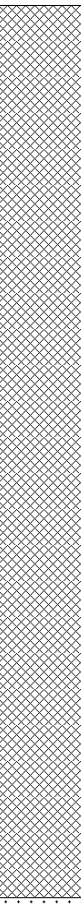
Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well                                                                               | Water Strikes                                                                      | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend                                                                             | Stratum Description                                                                                                                                                                      |   |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------|------|---------|--------------|-----------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                    | Depth (m)                   | Type | Results |              |           |                                                                                    |                                                                                                                                                                                          |   |
|  |  | 1.00                        | ES   | PID=5   |              |           |  | MADE GROUND: Firm black slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                          | 1 |
|                                                                                    |                                                                                    | 2.00                        | ES   | PID=0   |              |           |                                                                                    |                                                                                                                                                                                          | 2 |
|                                                                                    |                                                                                    | 3.00                        | ES   | PID=16  | 2.95<br>3.00 |           |                                                                                    | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 3.00 m | 3 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                    |                                                                                                                                                                                          | 4 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                    |                                                                                                                                                                                          | 5 |

## Remarks

1. Location cleared with CAT. 3. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 3.0m bgl (1.0m plain, 2.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS506**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

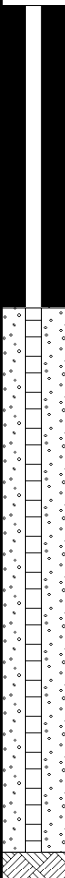
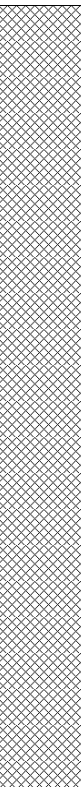
Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 31/03/2022 -

Logged By  
LH

| Well                                                                               | Water Strikes                                                                      | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                      |   |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------|------|---------|--------------|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                    | Depth (m)                   | Type | Results |              |           |                                                                                     |                                                                                                                                                                                          |   |
|  |  | 1.00                        | ES   | PID=0   |              |           |   | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.              | 1 |
|                                                                                    |                                                                                    | 2.00                        | ES   | PID=0   |              |           |                                                                                     | Becoming slightly ashy between 1.5m to 2.0m bgl.                                                                                                                                         | 2 |
|                                                                                    |                                                                                    | 2.80                        | ES   | PID=0   | 2.60<br>2.90 |           |  | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 2.90 m | 3 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                     |                                                                                                                                                                                          | 4 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                     |                                                                                                                                                                                          | 5 |

**Remarks**

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.8m bgl (1.0m plain, 1.8m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS507**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                         |   |
|------|---------------|-----------------------------|------|---------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |           |           |        |                                                                                                                                                                             |   |
|      |               | 0.50                        | ES   | PID=0   | 1.00      |           |        | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete. | 1 |
|      |               | 1.50                        | ES   | PID=0   | 2.20      |           |        | MADE GROUND: Firm black slightly gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                        | 2 |
|      |               | 2.50                        | ES   | PID=0   | 2.80      |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.                 | 3 |
|      |               |                             |      |         |           |           |        | End of borehole at 2.80 m                                                                                                                                                   | 4 |
|      |               |                             |      |         |           |           |        |                                                                                                                                                                             | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.8m bgl (1.0m plain, 1.8m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS508**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                          |   |
|      |               | 0.50                        | ES   | PID=0   | 1.00         |           |        | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.              | 1 |
|      |               | 1.50                        | ES   | PID=2   |              |           |        | MADE GROUND: Firm brown orange silty clay (Reworked).                                                                                                                                    | 2 |
|      |               | 2.20                        | ES   | PID=50  | 2.15<br>2.30 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 2.30 m | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 5 |

**Remarks**

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.2m bgl (1.0m plain, 1.2m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS509**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |          | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                       |   |
|------|---------------|-----------------------------|------|----------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results  |           |           |        |                                                                                                                                                                                           |   |
|      |               | 0.50                        | ES   | PID=73   | 1.00      |           |        | MADE GROUND: Dark brown to black slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete. | 1 |
|      |               | 1.50                        | ES   | PID=269  | 1.50      |           |        | MADE GROUND: Firm brown orange slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                    |   |
|      |               | 2.00                        | ES   | PID=5000 | 2.00      |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel. Free phase volatiles present. | 2 |
|      |               | End of borehole at 2.00 m   |      |          |           |           |        |                                                                                                                                                                                           | 3 |
|      |               |                             |      |          |           |           |        |                                                                                                                                                                                           | 4 |
|      |               |                             |      |          |           |           |        |                                                                                                                                                                                           | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.0m bgl (1.0m plain, 1.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS510**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                    |   |
|------|---------------|-----------------------------|------|---------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |           |           |        |                                                                                                                                                                                                                        |   |
|      |               | 1.00                        | ES   | PID=25  |           |           |        | MADE GROUND: Dark brown to black slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.                              | 1 |
|      |               | 2.00                        | ES   | PID=9   | 2.00      |           |        | MADE GROUND: Firm brown orange slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                                                 | 2 |
|      |               |                             |      |         | 2.50      |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel<br><i>Moderate hydrocarbon odour present from 2.5m bgl.</i> |   |
|      |               | 3.00                        | ES   | PID=233 | 3.00      |           |        | End of borehole at 3.00 m                                                                                                                                                                                              | 3 |
|      |               |                             |      |         |           |           |        |                                                                                                                                                                                                                        | 4 |
|      |               |                             |      |         |           |           |        |                                                                                                                                                                                                                        | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 3.0m bgl (1.0m plain, 2.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS511**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                          |   |
|      |               | 0.50                        | ES   | PID=0   |              |           |        | MADE GROUND: Dark brown slightly gravelly sand locally clayey (Reworked). Gravel is angular to subangular of mixed lithologies including brick and concrete.                             | 1 |
|      |               | 1.50                        | ES   | PID=0   |              |           |        |                                                                                                                                                                                          | 2 |
|      |               | 3.00                        | ES   | PID=4   | 2.95<br>3.00 |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 3.00 m | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 3.0m bgl (1.0m plain, 2.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS512**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

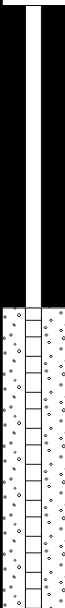
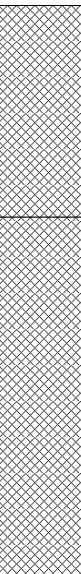
Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well                                                                               | Water Strikes                                                                      | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                     |   |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------|------|---------|--------------|-----------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                    | Depth (m)                   | Type | Results |              |           |                                                                                     |                                                                                                                                                                                         |   |
|  |  | 0.50                        | ES   | PID=0   | 0.70         |           |   | MADE GROUND: Dark brown slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.        | 1 |
|                                                                                    |                                                                                    | 1.00                        | ES   | PID=0   |              |           |                                                                                     | MADE GROUND: Firm brown orange slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                  |   |
|                                                                                    |                                                                                    | 1.95                        | ES   | PID=1   | 1.90<br>2.00 |           |  | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel<br>End of borehole at 2.00 m | 2 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                     |                                                                                                                                                                                         | 3 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                     |                                                                                                                                                                                         | 4 |
|                                                                                    |                                                                                    |                             |      |         |              |           |                                                                                     |                                                                                                                                                                                         | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 2.0m bgl (1.0m plain, 1.0m slotted).





GROUNDTECH  
CONSULTING

# Borehole Log

Borehole No.

**WS513**

Sheet 1 of 1

Project Name: TETROSYL

Project No.  
GRO-21459

Co-ords: -

Hole Type  
WS

Location: BURY

Level:

Scale  
1:25

Client: URBAN REGEN

Dates: 04/04/2022 -

Logged By  
LH

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|---------|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |              |           |        |                                                                                                                                                                                          |   |
|      |               | 0.50                        | ES   | PID=0   | 1.00         |           |        | MADE GROUND: Dark brown slightly gravelly ashy sand locally clayey (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.         | 1 |
|      |               | 1.65                        | ES   | PID=0   | 1.60<br>1.70 |           |        | MADE GROUND: Firm brown orange slightly gravelly clay (Reworked). Gravel is angular to subangular fine to coarse of mixed lithologies including brick.                                   |   |
|      |               |                             |      |         |              |           |        | Extremely weak brown orange medium grained SANDSTONE residually weathered recovered as slightly sandy cobbly angular to subangular medium to coarse gravel.<br>End of borehole at 1.70 m | 2 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 3 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 4 |
|      |               |                             |      |         |              |           |        |                                                                                                                                                                                          | 5 |

## Remarks

1. Location cleared with CAT. 2. Hand dug inspection pit to 1.2m bgl. 3. No groundwater encountered. 4. Monitoring standpipe installation to 1.7m bgl (1.0m plain, 1.7m slotted).



### APPENDIX 3 – Gas Monitoring Results

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |             |
|------------|----------------------------------|-----------|-------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | Josh Turton |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 14/04/2022  |
| JOB NO:    | GRO-21459                        |           |             |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Rising                | Weather:               | Overcast               |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 20.7                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |
| Finish          | 20.7                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.2                   | 0.0    | 8.9           | 17.6   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0002                                 | 0.0000                                 | 1004             | -         | N           | 1.66                   |
| WS02    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.7                   | 0.7    | 11.6          | 12.3   | 0.0                     | 0.0    | 10.0                  | 0.0    | 0.0007                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |
| WS03    | 0.0                  | 0.0    | 0.00                   | 27.1           | 20.7   | 542.0 | 1.9                   | 1.5    | 0.3           | 4.4    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0019                                 | 0.0271                                 | 1004             | -         | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 2.4                   | 2.2    | 16.9          | 16.7   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0024                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 22.1           | 15.9   | 442.0 | 4.7                   | 3.7    | 0.3           | 5.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0047                                 | 0.0221                                 | 1004             | -         | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.0    | 20.5          | 20.5   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 1.1            | 1.2    | 22.0  | 0.4                   | 0.4    | 0.1           | 2.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0004                                 | 0.0011                                 | 1004             | -         | N           | 2.24                   |
| WS08    | 0.0                  | 0.0    | 0.00                   | 1.3            | 0.0    | 26.0  | 0.0                   | 0.0    | 19.6          | 20.5   | 0.0                     | 0.0    | 10.0                  | 0.0    | 0.0000                                 | 0.0013                                 | 1004             | -         | N           | 0.28                   |
| WS09    | 0.0                  | 0.0    | 0.00                   | 1.3            | 0.4    | 26.0  | 6.7                   | 4.7    | 0.0           | 5.8    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0067                                 | 0.0013                                 | 1004             | -         | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 8.8            | 9.9    | 176.0 | 2.2                   | 3.6    | 2.2           | 1.8    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0022                                 | 0.0088                                 | 1004             | -         | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.5          | 20.7   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.2                   | 0.0    | 19.7          | 20.7   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0002                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.0    | 20.6          | 20.8   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 1004             | -         | N           | NGW                    |

Notes:

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |              |
|------------|----------------------------------|-----------|--------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | Jack Perkins |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 21/04/2022   |
| JOB NO:    | GRO-21459                        |           |              |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Steady                | Weather:               | Sunny                  |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 20                    | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |
| Finish          | 20                    | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.0          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 996              | -         | N           | 2.01                   |
| WS02    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.8                   | 0.7    | 11.9          | 15.3   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0008                                 | 0.0000                                 | 996              | -         | N           | NGW                    |
| WS03    | 0.0                  | 0.0    | 0.00                   | 22.9           | 21.7   | 458.0 | 1.6                   | 1.3    | 1.3           | 1.8    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0016                                 | 0.0229                                 | 997              | -         | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 1.9    | 0.0   | 1.6                   | 0.0    | 16.7          | 19.7   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0016                                 | 0.0000                                 | 996              | -         | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 14.2           | 13.4   | 284.0 | 3.9                   | 3.7    | 2.5           | 3.2    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0039                                 | 0.0142                                 | 994              | -         | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.0          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 995              | -         | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 1.6            | 1.7    | 32.0  | 0.6                   | 0.5    | 1.7           | 1.8    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0016                                 | 995              | -         | N           | 2.60                   |
| WS08    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.3                   | 0.0    | 19.0          | 19.4   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0003                                 | 0.0000                                 | 996              | -         | N           | 1.10                   |
| WS09    | 0.0                  | 0.0    | 0.00                   | 1.4            | 1.8    | 28.0  | 6.8                   | 4.9    | 3.5           | 2.2    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0068                                 | 0.0014                                 | 995              | -         | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 15.4           | 15.1   | 308.0 | 5.4                   | 3.5    | 0.3           | 1.4    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0054                                 | 0.0154                                 | 995              | -         | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 19.9          | 19.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 995              | -         | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 1.2                   | 1.0    | 12.6          | 11.8   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0012                                 | 0.0000                                 | 994              | -         | N           | 1.78                   |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.1    | 19.8          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 995              | -         | N           | NGW                    |

Notes:

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |              |
|------------|----------------------------------|-----------|--------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | Jack Perkins |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 29/04/2022   |
| JOB NO:    | GRO-21459                        |           |              |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Falling               | Weather:               | Sunny                  |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 20.1                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |
| Finish          | 20.1                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.1          | 20.5   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1011             | -         | N           | NGW                    |
| WS02    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.7                   | 0.6    | 18.3          | 18.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0007                                 | 0.0000                                 | 1011             | -         | N           | NGW                    |
| WS03    | 0.0                  | 0.0    | 0.00                   | 18.5           | 19.8   | 370.0 | 1.9                   | 1.6    | 1.9           | 1.5    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0019                                 | 0.0185                                 | 1011             | -         | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.1    | 20.9          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 1011             | -         | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 12.4           | 10.3   | 248.0 | 3.9                   | 2.9    | 2.8           | 2.7    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0039                                 | 0.0124                                 | 1012             | -         | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.6    | 19.9          | 18.6   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1012             | -         | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 1.0            | 1.1    | 20.0  | 1.0                   | 0.9    | 3.2           | 3.7    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0010                                 | 0.0010                                 | 1011             | -         | N           | NGW                    |
| WS08    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.6                   | 0.0    | 19.3          | 20.1   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0000                                 | 1011             | -         | N           | 1.48                   |
| WS09    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 8.4                   | 8.1    | 1.8           | 1.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0084                                 | 0.0000                                 | 1011             | -         | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 14.7           | 15.4   | 294.0 | 8.2                   | 8.0    | 0.6           | 0.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0082                                 | 0.0147                                 | 1012             | -         | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 19.8          | 19.8   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1012             | -         | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 2.6                   | 2.4    | 6.9           | 6.3    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0026                                 | 0.0000                                 | 1013             | -         | N           | 1.87                   |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.4                   | 1.2    | 19.0          | 16.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0004                                 | 0.0000                                 | 1011             | -         | N           | NGW                    |

Notes:

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |             |
|------------|----------------------------------|-----------|-------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | Josh Turton |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 09/05/2022  |
| JOB NO:    | GRO-21459                        |           |             |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Falling               | Weather:               | Overcast               |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 20.6                  | 0.0                    | 0.0                    |     | 0.0                    | 0.0        |         |  |
| Finish          | 20.5                  | 0.0                    | 0.0                    |     | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.5          | 19.3   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | 0.0       | N           | NGW                    |
| WS02    | 0.4                  | 0.4    | 0.02                   | 0.0            | 0.0    | 0.0   | 1.0                   | 0.7    | 11.3          | 14.6   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0040                                 | 0.0000                                 | 1001             | 0.5       | N           | NGW                    |
| WS03    | 0.3                  | 0.3    | 0.01                   | 21.1           | 19.8   | 422.0 | 1.7                   | 1.6    | 0.4           | 1.7    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0051                                 | 0.0633                                 | 1001             | 1.3       | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 2.3                   | 2.2    | 17.9          | 18.4   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0023                                 | 0.0000                                 | 1000             | 0.3       | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 15.6           | 1.2    | 312.0 | 4.4                   | 0.8    | 0.7           | 4.4    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0044                                 | 0.0156                                 | 999              | 0.0       | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.5          | 20.3   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 999              | 0.0       | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 2.1            | 1.8    | 42.0  | 1.2                   | 1.6    | 0.3           | 3.2    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0012                                 | 0.0021                                 | 999              | 138.2     | N           | NGW                    |
| WS08    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.4    | 20.6          | 20.1   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 999              | 64.0      | N           | 1.26                   |
| WS09    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 7.9                   | 7.2    | 2.4           | 1.8    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0079                                 | 0.0000                                 | 999              | 8.2       | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 15.3           | 21.2   | 306.0 | 5.4                   | 7.9    | 0.3           | 0.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0054                                 | 0.0153                                 | 999              | 274.5     | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.7            | 4.6    | 14.0  | 0.0                   | 0.0    | 18.0          | 13.0   | 0.0                     | 0.0    | 10.0                  | 17.0   | 0.0000                                 | 0.0007                                 | 999              | 335.2     | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 1.6                   | 1.6    | 13.8          | 13.8   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0016                                 | 0.0000                                 | 999              | 10.4      | N           | NGW                    |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.3                   | 0.3    | 20.2          | 20.3   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0003                                 | 0.0000                                 | 999              | 11.7      | N           | NGW                    |

Notes:

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |                            |
|------------|----------------------------------|-----------|----------------------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | William Sandiford-Mitchell |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 15/07/2022                 |
| JOB NO:    | GRO-21459                        |           |                            |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Steady                | Weather:               | Overcast               |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 20.8                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |
| Finish          | 20.8                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 2.3            | 2.2    | 46.0  | 2.4                   | 2.4    | 4.6           | 4.5    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0024                                 | 0.0023                                 | 1001             | -         | N           | 1.71                   |
| WS02    | 0.0                  | 0.0    | 0.00                   | 17.7           | 15.5   | 354.0 | 3.5                   | 3.1    | 8.2           | 9.1    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0035                                 | 0.0177                                 | 1001             | -         | N           | NGW                    |
| WS03    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.4                   | 0.5    | 20.4          | 20.1   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0004                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.6                   | 0.6    | 19.8          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.2                   | 0.3    | 21.0          | 20.5   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0002                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 20.6          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.3                   | 0.3    | 20.1          | 20.2   | 0.0                     | 0.0    | 10.0                  | 0.0    | 0.0003                                 | 0.0000                                 | 1001             | -         | N           | 2.64                   |
| WS08    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.6                   | 0.6    | 19.3          | 18.5   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0000                                 | 1000             | -         | N           | 1.01                   |
| WS09    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.2                   | 0.1    | 20.8          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0002                                 | 0.0000                                 | 1000             | -         | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.6                   | 0.6    | 20.0          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 21.2          | 21.2   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 21.1          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | 1.81                   |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.3                   | 0.3    | 20.8          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0003                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |

Notes:

# PERMANENT GROUND GAS MONITORING FORM



|            |                                  |           |                            |
|------------|----------------------------------|-----------|----------------------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY | ENGINEER: | William Sandiford-Mitchell |
| CLIENT:    | URBAN REGEN LIMITED              | DATE:     | 29/07/2022                 |
| JOB NO:    | GRO-21459                        |           |                            |

|                 |                       |                        |                        |     |                        |            |         |  |
|-----------------|-----------------------|------------------------|------------------------|-----|------------------------|------------|---------|--|
| Pressure Trend: | Steady                | Weather:               | Overcast               |     |                        | Equipment: | GFM 436 |  |
|                 |                       |                        |                        |     |                        |            |         |  |
| Ambient:        | O <sub>2</sub> (%v/v) | CH <sub>4</sub> (%v/v) | CO <sub>2</sub> (%v/v) | LEL | H <sub>2</sub> S (ppm) | CO (ppm)   |         |  |
| Start           | 21.2                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |
| Finish          | 21.2                  | 0.0                    | 0.0                    | 0.0 | 0.0                    | 0.0        |         |  |

| BH Ref. | Gas Flow Rate (l/hr) |        | Borehole Pressure (mb) | Methane (%v/v) |        |       | Carbon Dioxide (%v/v) |        | Oxygen (%v/v) |        | Hydrogen Sulphide (ppm) |        | Carbon Monoxide (ppm) |        | Q <sub>hg</sub> CO <sub>2</sub> (l/hr) | Q <sub>hg</sub> CH <sub>4</sub> (l/hr) | Atmos Press (mb) | PID (ppm) | Sheen (Y/N) | Depth to Water (m bgl) |
|---------|----------------------|--------|------------------------|----------------|--------|-------|-----------------------|--------|---------------|--------|-------------------------|--------|-----------------------|--------|----------------------------------------|----------------------------------------|------------------|-----------|-------------|------------------------|
|         | Peak                 | Steady |                        | Peak           | Steady | LEL   | Peak                  | Steady | Peak          | Steady | Peak                    | Steady | Peak                  | Steady |                                        |                                        |                  |           |             |                        |
| WS01    | 0.0                  | 0.0    | 0.00                   | 2.2            | 2.2    | 44.0  | 2.4                   | 2.4    | 4.5           | 4.4    | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0024                                 | 0.0022                                 | 1001             | -         | N           | NGW                    |
| WS02    | 0.0                  | 0.0    | 0.00                   | 14.9           | 14.3   | 298.0 | 2.9                   | 2.8    | 9.6           | 10.1   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0029                                 | 0.0149                                 | 1001             | -         | N           | NGW                    |
| WS03    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 1.1                   | 1.1    | 17.6          | 17.9   | 0.0                     | 0.0    | 26.0                  | 0.0    | 0.0011                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS04    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.7                   | 0.7    | 19.6          | 20.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0007                                 | 0.0000                                 | 1002             | -         | N           | NGW                    |
| WS05    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.1    | 20.9          | 20.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS06    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 21.0          | 21.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS07    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.3                   | 0.3    | 20.2          | 20.2   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0003                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS08    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.6                   | 0.6    | 19.0          | 18.9   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0006                                 | 0.0000                                 | 1000             | -         | N           | NGW                    |
| WS09    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.2                   | 0.2    | 20.6          | 20.8   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0002                                 | 0.0000                                 | 1000             | -         | N           | NGW                    |
| WS10    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.1                   | 0.4    | 21.0          | 20.4   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0001                                 | 0.0000                                 | 1000             | -         | N           | NGW                    |
| WS11    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 21.2          | 21.4   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |
| WS12    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.0                   | 0.0    | 21.0          | 21.0   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0000                                 | 0.0000                                 | 1001             | -         | N           | 1.94                   |
| WS13    | 0.0                  | 0.0    | 0.00                   | 0.0            | 0.0    | 0.0   | 0.5                   | 0.5    | 20.2          | 20.1   | 0.0                     | 0.0    | 0.0                   | 0.0    | 0.0005                                 | 0.0000                                 | 1001             | -         | N           | NGW                    |

Notes:

## APPENDIX 4 – PID Results

|            |                                  |
|------------|----------------------------------|
| SITE NAME: | TETROSYL BEVIS GREEN WORKS, BURY |
| CLIENT:    | URBAN REGEN                      |
| JOB NO:    | GRO-21459                        |

| BH Ref. | Depth (m) | Result (ppm) |
|---------|-----------|--------------|
| WS501   | 0.50      | 0.0000       |
| WS501   | 1.50      | 0.0000       |
| WS501   | 2.60      | 0.1000       |
| WS502   | 1.00      | 0.5000       |
| WS502   | 1.70      | 1.8000       |
| WS503   | 0.50      | 0.1000       |
| WS503   | 1.50      | 0.5000       |
| WS503   | 2.80      | 2.0000       |
| WS504   | 0.50      | 0.0000       |
| WS504   | 1.50      | 0.0000       |
| WS504   | 2.65      | 4.0000       |
| WS505   | 1.00      | 5.0000       |
| WS505   | 2.00      | 0.2000       |
| WS505   | 3.00      | 16.0000      |
| WS506   | 1.00      | 0.0000       |
| WS506   | 2.00      | 0.0000       |
| WS506   | 2.80      | 0.5000       |
| WS507   | 0.50      | 0.0000       |
| WS507   | 1.50      | 0.0000       |
| WS507   | 2.50      | 0.2000       |

| BH Ref. | Depth (m) | Result (ppm) |
|---------|-----------|--------------|
| WS508   | 0.50      | 0.0000       |
| WS508   | 1.50      | 2.0000       |
| WS508   | 2.20      | 50.0000      |
| WS509   | 0.50      | 73.0000      |
| WS509   | 1.50      | 269.0000     |
| WS509   | 2.00      | >5000.00     |
| WS510   | 1.00      | 25.0000      |
| WS510   | 2.00      | 9.0000       |
| WS510   | 3.00      | 233.0000     |
| WS511   | 0.50      | 0.0000       |
| WS511   | 1.50      | 0.0000       |
| WS511   | 3.00      | 4.0000       |
| WS512   | 0.50      | 0.0000       |
| WS512   | 1.00      | 0.5000       |
| WS512   | 1.95      | 1.0000       |
| WS513   | 0.50      | 0.0000       |
| WS513   | 1.65      | 0.5000       |

## APPENDIX 5 - VOC Bulk Testing Results

Groundtech Consulting Limited  
PO Box 499  
Manchester  
M28 8EE



|                                |                             |
|--------------------------------|-----------------------------|
| <b>Attention :</b>             | Luke Harrison               |
| <b>Date :</b>                  | 29th April, 2022            |
| <b>Your reference :</b>        | GRO-21459                   |
| <b>Our reference :</b>         | Test Report 22/6236 Batch 1 |
| <b>Location :</b>              | Tetrosyl                    |
| <b>Date samples received :</b> | 14th April, 2022            |
| <b>Status :</b>                | Final Report                |
| <b>Issue :</b>                 | 1                           |

Fourteen samples were received for analysis on 14th April, 2022 of which thirteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

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

**Authorised By:**

A handwritten signature in black ink, appearing to read 'S. Gomery'.

**Simon Gomery BSc**

**Project Manager**

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS01  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 1  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 2409 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5                  | <3.8                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 49458.7 <sub>AA</sub> | 244573.9 <sub>AA</sub>      | <125.0     | <2.5        | <620.0                  | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 3.4                   | 7                           | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                  | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 20.8                  | 116.9                       | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | <1                    | <4                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | 2.5                   | 13.6                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 56.9                  | 181.8                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 4.7                   | 25.3                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 5.3                   | 20                          | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 3.3                   | 22.4                        | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 2.9                   | 12.6                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 7.2                   | 31.3                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 2.7                   | 11.7                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 3.8                   | 16.2                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 10                    | 49.2                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

Canister Serial number: QT 2409 0.45  
Sample Train Serial number: -

|            |                             |
|------------|-----------------------------|
| <b>MDL</b> | Method Detection Limit      |
| <b>RL</b>  | Reporting Limit             |
| <b>#</b>   | ISO 17025 (UKAS) accredited |

QF-PM 3.1.13 v6 Please include all sections of this report if it is reproduced 3 of 33

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS02  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 2  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 831 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv       | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5                 | <3.8                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 4450.5 <sub>AA</sub> | 22007.8 <sub>AA</sub>       | <125.0     | <2.5        | <620.0                  | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 1.9                  | 3.9                         | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                 | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                 | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 3.3                  | 18.5                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 2                    | 8                           | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                   | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                 | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                 | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 8                    | 25.6                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 5.3                  | 28.5                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                 | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                 | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 12.5                 | 47.1                        | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | <1.5                 | <10.2                       | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                 | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                 | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                 | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 8.8                  | 38.2                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 22.9                 | 99.4                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 8.5                  | 36.9                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 12                   | 51.1                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                 | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 2.8                  | 13.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

Canister Serial number: QT 831 0.45  
Sample Train Serial number: -

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

|            |                             |
|------------|-----------------------------|
| <b>MDL</b> | Method Detection Limit      |
| <b>RL</b>  | Reporting Limit             |
| <b>#</b>   | ISO 17025 (UKAS) accredited |

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## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS03  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 3  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 1543 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 20.3                  | 51.9                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  | >> | 75489.1 <sub>AB</sub> | 373294.5 <sub>AB</sub>      | <250.0     | <2.5        | <1240.0                 | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 5.1                   | 10.5                        | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | 2.4                   | 6.3                         | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 4.5                   | 25.3                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 5                     | 20                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 19.2                  | 61.3                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 4.9                   | 26.3                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 55.9                  | 210.6                       | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | <1.5                  | <10.2                       | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 25.2                  | 109.4                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 33.3                  | 144.6                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 16.9                  | 73.4                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 14.4                  | 61.3                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 5.2                   | 25.6                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS03  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 3  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 1543 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT  | RESULT            | RL    | MDL   | RL                | MDL               |
|-----------|------------------|-----------------------------------------|----|---------|-------------------|-------|-------|-------------------|-------------------|
|           |                  |                                         |    | ppbv    | ug/m <sup>3</sup> | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5    | <10.3             | <1.5  | <1.5  | <10.3             | <10.3             |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5    | <9.6              | <1.5  | <1.5  | <9.6              | <9.6              |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5    | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 2.4     | 11.8              | <1.5  | <1.5  | <7.4              | <7.4              |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5    | <7.8              | <1.5  | <1.5  | <7.8              | <7.8              |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 5       | 24.6              | <1.5  | <1.5  | <7.4              | <7.4              |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5    | <7.8              | <1.5  | <1.5  | <7.8              | <7.8              |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5    | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 2.3     | 11.3              | <1.5  | <1.5  | <7.4              | <7.4              |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 2.4     | 13.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 1.7     | 9.3               | <1.5  | <1.5  | <8.2              | <8.2              |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5    | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5    | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5    | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5    | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5    | <14.5             | <1.5  | <1.5  | <14.5             | <14.5             |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5    | <11.1             | <1.5  | <1.5  | <11.1             | <11.1             |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5    | <16.0             | <1.5  | <1.5  | <16.0             | <16.0             |
| 91-20-3   | 128.17           | Naphthalene                             |    | <0.32   | <1.7              | <0.32 | <0.32 | <1.7              | <1.7              |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5    | <11.1             | <1.5  | <1.5  | <11.1             | <11.1             |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5    | <5.4              | <1.5  | <1.5  | <5.4              | <5.4              |
|           |                  | Sum of VOC USEPA compounds              |    | 75715.2 | 374191.2          |       |       |                   |                   |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 93%     |                   | 0%    | 0%    |                   |                   |
|           | 81               | Aliphatic >C4-C6                        |    | 4076    | 13503             | <10   | <10   | <33               | <33               |
|           | 100              | Aliphatic >C6-C8                        |    | 7432    | 30396             | <10   | <10   | <41               | <41               |
|           | 130              | Aliphatic >C8-C10                       |    | 5964    | 31709             | <10   | <10   | <53               | <53               |
|           | 160              | Aliphatic >C10-C12                      |    | 1128    | 7381              | <10   | <10   | <65               | <65               |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 19.2    | 61.3              | <1.5  | <1.5  | <4.8              | <4.8              |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 55.9    | 210.6             | <1.5  | <1.5  | <5.7              | <5.7              |
|           | 120              | Aromatic >EC8-EC10                      |    | 44      | 216               | <10   | <10   | <49               | <49               |
|           | 130              | Aromatic >EC10-EC12                     |    | 87      | 463               | <10   | <10   | <53               | <53               |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS04  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 4  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 586 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv       | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5                 | <3.8                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 8047.7 <sub>AA</sub> | 39796.0 <sub>AA</sub>       | <125.0     | <2.5        | <620.0                  | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 3.4                  | 7                           | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                 | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                 | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 2.2                  | 12.4                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | <1                   | <4                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                   | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                 | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                 | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 17.2                 | 54.9                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 3.3                  | 17.7                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                 | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                 | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 16.7                 | 62.9                        | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 1.5                  | <10.2                       | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                 | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                 | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                 | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 7.7                  | 33.4                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 18                   | 78.2                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 7.5                  | 32.6                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 15.3                 | 65.2                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                 | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 4.4                  | 21.6                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS04  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 4  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 586 0.45  
**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT              | RESULT              | RL    | MDL   | RL                | MDL               |
|-----------|------------------|-----------------------------------------|----|---------------------|---------------------|-------|-------|-------------------|-------------------|
|           |                  |                                         |    | ppbv                | ug/m <sup>3</sup>   | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5                | <10.3               | <1.5  | <1.5  | <10.3             | <10.3             |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5                | <9.6                | <1.5  | <1.5  | <9.6              | <9.6              |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5                | <9.0                | <1.5  | <1.5  | <9.0              | <9.0              |
| 103-65-1  | 120.19           | Propylbenzene                           |    | <1.5                | <7.4                | <1.5  | <1.5  | <7.4              | <7.4              |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5                | <7.8                | <1.5  | <1.5  | <7.8              | <7.8              |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 2.8                 | 13.8                | <1.5  | <1.5  | <7.4              | <7.4              |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5                | <7.8                | <1.5  | <1.5  | <7.8              | <7.8              |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5                | <8.2                | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 1.5                 | <7.4                | <1.5  | <1.5  | <7.4              | <7.4              |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | <1.5                | <8.2                | <1.5  | <1.5  | <8.2              | <8.2              |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | <1.5                | <8.2                | <1.5  | <1.5  | <8.2              | <8.2              |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5                | <9.0                | <1.5  | <1.5  | <9.0              | <9.0              |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5                | <9.0                | <1.5  | <1.5  | <9.0              | <9.0              |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5                | <8.2                | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5                | <9.0                | <1.5  | <1.5  | <9.0              | <9.0              |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5                | <14.5               | <1.5  | <1.5  | <14.5             | <14.5             |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5                | <11.1               | <1.5  | <1.5  | <11.1             | <11.1             |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5                | <16.0               | <1.5  | <1.5  | <16.0             | <16.0             |
| 91-20-3   | 128.17           | Naphthalene                             |    | <0.32               | <1.7                | <0.32 | <0.32 | <1.7              | <1.7              |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5                | <11.1               | <1.5  | <1.5  | <11.1             | <11.1             |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5                | <5.4                | <1.5  | <1.5  | <5.4              | <5.4              |
|           |                  | Sum of VOC USEPA compounds              |    | 8149.2              | 40195.7             |       |       |                   |                   |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 96%                 |                     | 0%    | 0%    |                   |                   |
|           | 81               | Aliphatic >C4-C6                        |    | 13138 <sub>AA</sub> | 43523 <sub>AA</sub> | <500  | <10   | <1650             | <33               |
|           | 100              | Aliphatic >C6-C8                        |    | 8408 <sub>AA</sub>  | 34387 <sub>AA</sub> | <500  | <10   | <2050             | <41               |
|           | 130              | Aliphatic >C8-C10                       |    | <500 <sub>AA</sub>  | <2650 <sub>AA</sub> | <500  | <10   | <2650             | <53               |
|           | 160              | Aliphatic >C10-C12                      |    | <500 <sub>AA</sub>  | <3250 <sub>AA</sub> | <500  | <10   | <3250             | <65               |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 17.2                | 54.9                | <1.5  | <1.5  | <4.8              | <4.8              |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 16.7                | 62.9                | <1.5  | <1.5  | <5.7              | <5.7              |
|           | 120              | Aromatic >EC8-EC10                      |    | 3980 <sub>AA</sub>  | 19533 <sub>AA</sub> | <500  | <10   | <2450             | <49               |
|           | 130              | Aromatic >EC10-EC12                     |    | <500 <sub>AA</sub>  | <2650 <sub>AA</sub> | <500  | <10   | <2650             | <53               |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS05  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 5  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 2420 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 32.9                  | 84.1                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  | >> | 68623.0 <sub>AB</sub> | 339341.6 <sub>AB</sub>      | <250.0     | <2.5        | <1240.0                 | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 4                     | 8.3                         | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                  | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 2.9                   | 16.3                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | 3.4                   | 13.5                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 12                    | 48                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 22.7                  | 72.5                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 4                     | 21.5                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 39.8                  | 150                         | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | <1.5                  | <10.2                       | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 81.7                  | 354.7                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 61.9                  | 268.8                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 13.8                  | 59.9                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 16.1                  | 68.6                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 5.5                   | 27                          | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS05  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 5  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 2420 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT<br>ppbv | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-----------|------------------|-----------------------------------------|----|----------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5           | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5           | <9.6                        | <1.5       | <1.5        | <9.6                    | <9.6                     |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 2.2            | 10.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5           | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 5.8            | 28.5                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5           | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5           | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 2              | 9.8                         | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 1.9            | 10.4                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 23.1           | 126.8                       | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5           | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5           | <14.5                       | <1.5       | <1.5        | <14.5                   | <14.5                    |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5           | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5           | <16.0                       | <1.5       | <1.5        | <16.0                   | <16.0                    |
| 91-20-3   | 128.17           | Naphthalene                             |    | <0.32          | <1.7                        | <0.32      | <0.32       | <1.7                    | <1.7                     |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5           | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5           | <5.4                        | <1.5       | <1.5        | <5.4                    | <5.4                     |
|           |                  | Sum of VOC USEPA compounds              |    | 68958.7        | 340721.1                    |            |             |                         |                          |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 92%            |                             | 0%         | 0%          |                         |                          |
|           | 81               | Aliphatic >C4-C6                        |    | 2109           | 6987                        | <10        | <10         | <33                     | <33                      |
|           | 100              | Aliphatic >C6-C8                        |    | 3558           | 14552                       | <10        | <10         | <41                     | <41                      |
|           | 130              | Aliphatic >C8-C10                       |    | 9755           | 51865                       | <10        | <10         | <53                     | <53                      |
|           | 160              | Aliphatic >C10-C12                      |    | 1891           | 12374                       | <10        | <10         | <65                     | <65                      |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 22.7           | 72.5                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 39.8           | 150                         | <1.5       | <1.5        | <5.7                    | <5.7                     |
|           | 120              | Aromatic >EC8-EC10                      |    | 432            | 2120                        | <10        | <10         | <49                     | <49                      |
|           | 130              | Aromatic >EC10-EC12                     |    | 238            | 1265                        | <10        | <10         | <53                     | <53                      |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS06  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 6  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 1186 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv       | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5                 | <3.8                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 4869.4 <sub>AA</sub> | 24079.2 <sub>AA</sub>       | <125.0     | <2.5        | <620.0                  | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 5.5                  | 11.4                        | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                 | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                 | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | <1.5                 | <8.4                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | <1                   | <4                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                   | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                 | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                 | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 28.3                 | 90.4                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | <1.5                 | <8.1                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                 | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                 | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 8.6                  | 32.4                        | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | <1.5                 | <10.2                       | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                 | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                 | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                 | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 14.4                 | 62.5                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 18.2                 | 79                          | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 5.3                  | 23                          | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 11.1                 | 47.3                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                 | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 8.9                  | 43.7                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS06  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 6  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 1186 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT              | RESULT               | RL    | MDL   | RL                | MDL               |
|-----------|------------------|-----------------------------------------|----|---------------------|----------------------|-------|-------|-------------------|-------------------|
|           |                  |                                         |    | ppbv                | ug/m <sup>3</sup>    | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5                | <10.3                | <1.5  | <1.5  | <10.3             | <10.3             |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5                | <9.6                 | <1.5  | <1.5  | <9.6              | <9.6              |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5                | <9.0                 | <1.5  | <1.5  | <9.0              | <9.0              |
| 103-65-1  | 120.19           | Propylbenzene                           |    | <1.5                | <7.4                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5                | <7.8                 | <1.5  | <1.5  | <7.8              | <7.8              |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 2.3                 | 11.3                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5                | <7.8                 | <1.5  | <1.5  | <7.8              | <7.8              |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5                | <8.2                 | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | <1.5                | <7.4                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | <1.5                | <8.2                 | <1.5  | <1.5  | <8.2              | <8.2              |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 8.2                 | 45                   | <1.5  | <1.5  | <8.2              | <8.2              |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5                | <9.0                 | <1.5  | <1.5  | <9.0              | <9.0              |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5                | <9.0                 | <1.5  | <1.5  | <9.0              | <9.0              |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5                | <8.2                 | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5                | <9.0                 | <1.5  | <1.5  | <9.0              | <9.0              |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5                | <14.5                | <1.5  | <1.5  | <14.5             | <14.5             |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5                | <11.1                | <1.5  | <1.5  | <11.1             | <11.1             |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5                | <16.0                | <1.5  | <1.5  | <16.0             | <16.0             |
| 91-20-3   | 128.17           | Naphthalene                             |    | <0.32               | <1.7                 | <0.32 | <0.32 | <1.7              | <1.7              |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5                | <11.1                | <1.5  | <1.5  | <11.1             | <11.1             |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5                | <5.4                 | <1.5  | <1.5  | <5.4              | <5.4              |
|           |                  | Sum of VOC USEPA compounds              |    | 4980.2              | 24525.2              |       |       |                   |                   |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 96%                 |                      | 0%    | 0%    |                   |                   |
|           | 81               | Aliphatic >C4-C6                        |    | 14417 <sub>AA</sub> | 47760 <sub>AA</sub>  | <500  | <10   | <1650             | <33               |
|           | 100              | Aliphatic >C6-C8                        |    | 1802 <sub>AA</sub>  | 7370 <sub>AA</sub>   | <500  | <10   | <2050             | <41               |
|           | 130              | Aliphatic >C8-C10                       |    | 23795 <sub>AA</sub> | 126513 <sub>AA</sub> | <500  | <10   | <2650             | <53               |
|           | 160              | Aliphatic >C10-C12                      |    | 3134 <sub>AA</sub>  | 20508 <sub>AA</sub>  | <500  | <10   | <3250             | <65               |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 28.3                | 90.4                 | <1.5  | <1.5  | <4.8              | <4.8              |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 8.6                 | 32.4                 | <1.5  | <1.5  | <5.7              | <5.7              |
|           | 120              | Aromatic >EC8-EC10                      |    | 7721 <sub>AA</sub>  | 37893 <sub>AA</sub>  | <500  | <10   | <2450             | <49               |
|           | 130              | Aromatic >EC10-EC12                     |    | <500 <sub>AA</sub>  | <2650 <sub>AA</sub>  | <500  | <10   | <2650             | <53               |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS07  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 7  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 814 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 156.2                 | 399.3                       | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 91066.0 <sub>AB</sub> | 450322.5 <sub>AB</sub>      | <250.0     | <2.5        | <1240.0                 | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 4.3                   | 8.9                         | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                  | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 4                     | 22.5                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | 2.1                   | 8.3                         | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | 2.7                   | 10.7                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | 5.2                   | 21                          | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 4                     | 16                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 34.9                  | 111.5                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | <1.5                  | <8.1                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | 28.3                  | 130.8                       | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 25.7                  | 96.8                        | <1.5       | <1.5        | <5.7                    | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 5.6                   | 38                          | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 66.4                  | 288.3                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 137.6                 | 597.5                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 11.5                  | 49.9                        | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 13.8                  | 58.8                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 19.7                  | 96.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Canister Serial number:** QT 814 0.45  
**Sample Train Serial number:** -

|            |                             |
|------------|-----------------------------|
| <b>MDL</b> | Method Detection Limit      |
| <b>RL</b>  | Reporting Limit             |
| <b>#</b>   | ISO 17025 (UKAS) accredited |

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## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS08  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 8  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 576 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 46                    | 117.6                       | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 56956.2 <sub>AB</sub> | 281649.1 <sub>AB</sub>      | <250.0     | <2.5        | <1240.0                 | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 12                    | 24.8                        | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | 1.6                   | 4.2                         | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 29.9                  | 168                         | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | 8.5                   | 33.7                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | 28.2                  | 98                          | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | 15.9                  | 64.4                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 9                     | 36                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | 144.9                 | 790.7                       | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | 7                     | 28.3                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 290.4                 | 927.7                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 4.3                   | 23.1                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 20116.9 <sub>AA</sub> | 75799.7 <sub>AA</sub>       | <75.0      | <1.5        | <285.0                  | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | 175                   | 954.8                       | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 11.3                  | 76.6                        | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 667.4                 | 2897.7                      | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 1303.2                | 5658.7                      | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 207.1                 | 899.3                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 24.6                  | 104.8                       | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 14                    | 68.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 26 Apr 2022

**Sample ID:** WS08  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 8  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 576 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT<br>ppbv         | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-----------|------------------|-----------------------------------------|----|------------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5                   | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5                   | <9.6                        | <1.5       | <1.5        | <9.6                    | <9.6                     |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5                   | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 10.8                   | 53.1                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5                   | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 12.5                   | 61.4                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5                   | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5                   | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 9                      | 44.2                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 1.8                    | 9.9                         | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 3.3                    | 18.1                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5                   | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5                   | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5                   | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5                   | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5                   | <14.5                       | <1.5       | <1.5        | <14.5                   | <14.5                    |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5                   | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5                   | <16.0                       | <1.5       | <1.5        | <16.0                   | <16.0                    |
| 91-20-3   | 128.17           | Naphthalene                             |    | 1.16                   | 6.1                         | <0.32      | <0.32       | <1.7                    | <1.7                     |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5                   | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5                   | <5.4                        | <1.5       | <1.5        | <5.4                    | <5.4                     |
|           |                  | Sum of VOC USEPA compounds              |    | 80111.96               | 370618.8                    |            |             |                         |                          |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 99%                    |                             | 0%         | 0%          |                         |                          |
|           | 81               | Aliphatic >C4-C6                        |    | 2931440 <sub>AA</sub>  | 9711162 <sub>AA</sub>       | <500       | <10         | <1650                   | <33                      |
|           | 100              | Aliphatic >C6-C8                        |    | 11281383 <sub>AA</sub> | 46138927 <sub>AA</sub>      | <500       | <10         | <2050                   | <41                      |
|           | 130              | Aliphatic >C8-C10                       |    | 17247 <sub>AA</sub>    | 91698 <sub>AA</sub>         | <500       | <10         | <2650                   | <53                      |
|           | 160              | Aliphatic >C10-C12                      |    | 2281 <sub>AA</sub>     | 14926 <sub>AA</sub>         | <500       | <10         | <3250                   | <65                      |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 290.4                  | 927.7                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 20116.9 <sub>AA</sub>  | 75799.7 <sub>AA</sub>       | <75.0      | <1.5        | <285.0                  | <5.7                     |
|           | 120              | Aromatic >EC8-EC10                      |    | 132819 <sub>AA</sub>   | 651848 <sub>AA</sub>        | <500       | <10         | <2450                   | <49                      |
|           | 130              | Aromatic >EC10-EC12                     |    | <500 <sub>AA</sub>     | <2650 <sub>AA</sub>         | <500       | <10         | <2650                   | <53                      |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS09  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 9  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 650 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 182.6                 | 466.8                       | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 3510.9 <sub>AA</sub>  | 17361.4 <sub>AA</sub>       | <125.0     | <2.5        | <620.0                  | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 5.7                   | 11.8                        | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | 5.9                   | 15.6                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 3                     | 16.9                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | 2.5                   | 9.9                         | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | 6.5                   | 26.3                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 4                     | 16                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | 7.6                   | 41.5                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | 3.4                   | 13.8                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 139.7                 | 446.3                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | <1.5                  | <8.1                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 12397.1 <sub>AA</sub> | 46711.8 <sub>AA</sub>       | <75.0      | <1.5        | <285.0                  | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | 140.1                 | 764.4                       | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 10.3                  | 69.9                        | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | 7.4                   | 34.1                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 1251.8 <sub>AA</sub>  | 5435.0 <sub>AA</sub>        | <75.0      | <1.5        | <325.0                  | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 6945.9 <sub>AA</sub>  | 30160.3 <sub>AA</sub>       | <75.0      | <1.5        | <325.0                  | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 1318.6 <sub>AA</sub>  | 5725.6 <sub>AA</sub>        | <75.0      | <1.5        | <325.0                  | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 20.4                  | 86.9                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 47.2                  | 232                         | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS09  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 9  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** SQT 650 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT   | RESULT            | RL    | MDL   | RL                | MDL               |
|-----------|------------------|-----------------------------------------|----|----------|-------------------|-------|-------|-------------------|-------------------|
|           |                  |                                         |    | ppbv     | ug/m <sup>3</sup> | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | 8.5      | 58.4              | <1.5  | <1.5  | <10.3             | <10.3             |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5     | <9.6              | <1.5  | <1.5  | <9.6              | <9.6              |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5     | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 29.5     | 145               | <1.5  | <1.5  | <7.4              | <7.4              |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5     | <7.8              | <1.5  | <1.5  | <7.8              | <7.8              |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 79.1     | 388.9             | <1.5  | <1.5  | <7.4              | <7.4              |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5     | <7.8              | <1.5  | <1.5  | <7.8              | <7.8              |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5     | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 52.3     | 257.1             | <1.5  | <1.5  | <7.4              | <7.4              |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 6.5      | 35.7              | <1.5  | <1.5  | <8.2              | <8.2              |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 7        | 38.4              | <1.5  | <1.5  | <8.2              | <8.2              |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5     | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5     | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5     | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5     | <9.0              | <1.5  | <1.5  | <9.0              | <9.0              |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5     | <14.5             | <1.5  | <1.5  | <14.5             | <14.5             |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5     | <11.1             | <1.5  | <1.5  | <11.1             | <11.1             |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5     | <16.0             | <1.5  | <1.5  | <16.0             | <16.0             |
| 91-20-3   | 128.17           | Naphthalene                             |    | 1.17     | 6.1               | <0.32 | <0.32 | <1.7              | <1.7              |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5     | <11.1             | <1.5  | <1.5  | <11.1             | <11.1             |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5     | <5.4              | <1.5  | <1.5  | <5.4              | <5.4              |
|           |                  | Sum of VOC USEPA compounds              |    | 26194.67 | 108575.9          |       |       |                   |                   |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 100%     |                   | 0%    | 0%    |                   |                   |
|           | 81               | Aliphatic >C4-C6                        |    | 6175     | 20456             | <10   | <10   | <33               | <33               |
|           | 100              | Aliphatic >C6-C8                        |    | 35775    | 146314            | <10   | <10   | <41               | <41               |
|           | 130              | Aliphatic >C8-C10                       |    | 560      | 2977              | <10   | <10   | <53               | <53               |
|           | 160              | Aliphatic >C10-C12                      |    | 1707     | 11170             | <10   | <10   | <65               | <65               |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 139.7    | 446.3             | <1.5  | <1.5  | <4.8              | <4.8              |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 12397.1  | 46711.8           | <1.5  | <1.5  | <5.7              | <5.7              |
|           | 120              | Aromatic >EC8-EC10                      |    | 6695     | 32858             | <10   | <10   | <49               | <49               |
|           | 130              | Aromatic >EC10-EC12                     |    | 117      | 622               | <10   | <10   | <53               | <53               |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS10  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 10  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 2402 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT                | RESULT                 | RL     | MDL   | RL                | MDL               |
|-------------|------------------|---------------------------------|----|-----------------------|------------------------|--------|-------|-------------------|-------------------|
|             |                  |                                 |    | ppbv                  | ug/m <sup>3</sup>      | ppbv   | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 96.4                  | 246.4                  | <1.5   | <1.5  | <3.8              | <3.8              |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 560.9                 | 2773.7                 | <2.5   | <2.5  | <12.4             | <12.4             |
| 74-87-3     | 50.49            | Chloromethane                   |    | 4                     | 8.3                    | <1.5   | <1.5  | <3.1              | <3.1              |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                   | <1.5   | <1.5  | <5.8              | <5.8              |
| 75-00-3     | 64.52            | # Chloroethane                  |    | 33.7                  | 88.9                   | <1.5   | <1.5  | <4.0              | <4.0              |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 5                     | 28.1                   | <1.5   | <1.5  | <8.4              | <8.4              |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | 2.1                   | 8.3                    | <1.5   | <1.5  | <5.9              | <5.9              |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | 61.1                  | 212                    | <14.4  | <14.4 | <50               | <50               |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | 9.4                   | 37.3                   | <1.5   | <1.5  | <5.9              | <5.9              |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | 51.7                  | 209.3                  | <1.5   | <1.5  | <6.1              | <6.1              |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 66                    | 262                    | <1     | <1    | <4                | <4                |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                   | <1.5   | <1.5  | <6.9              | <6.9              |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                     | <1.5   | <1.5  | <7.9              | <7.9              |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                   | <1.5   | <1.5  | <7.3              | <7.3              |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | 1.6                   | 8.7                    | <1.5   | <1.5  | <8.2              | <8.2              |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                   | <1.5   | <1.5  | <6.8              | <6.8              |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                   | <1.5   | <1.5  | <9.4              | <9.4              |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | 22.7                  | 91.9                   | <1.5   | <1.5  | <6.1              | <6.1              |
| 71-43-2     | 78.11            | # Benzene                       |    | 791.6                 | 2528.8                 | <1.5   | <1.5  | <4.8              | <4.8              |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 192.1                 | 1032.4                 | <1.5   | <1.5  | <8.1              | <8.1              |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                   | <1.5   | <1.5  | <6.9              | <6.9              |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                  | <1.5   | <1.5  | <10.7             | <10.7             |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                  | <1.5   | <1.5  | <10.1             | <10.1             |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                   | <1.5   | <1.5  | <6.8              | <6.8              |
| 108-88-3    | 92.13            | # Toluene                       |    | 73873.0 <sub>AB</sub> | 278350.5 <sub>AB</sub> | <150.0 | <1.5  | <570.0            | <5.7              |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                   | <1.5   | <1.5  | <6.8              | <6.8              |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | 252.9                 | 1379.8                 | <1.5   | <1.5  | <8.2              | <8.2              |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 28.1                  | 190.6                  | <1.5   | <1.5  | <10.2             | <10.2             |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                   | <1.5   | <1.5  | <6.9              | <6.9              |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                  | <1.5   | <1.5  | <12.8             | <12.8             |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                  | <1.5   | <1.5  | <11.5             | <11.5             |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                  | <6.9                   | <1.5   | <1.5  | <6.9              | <6.9              |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                  | <1.5   | <1.5  | <10.3             | <10.3             |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 2286.9 <sub>AA</sub>  | 9929.2 <sub>AA</sub>   | <75.0  | <1.5  | <325.0            | <6.5              |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 8967.1 <sub>AA</sub>  | 38936.7 <sub>AA</sub>  | <75.0  | <1.5  | <325.0            | <6.5              |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 1454.7 <sub>AA</sub>  | 6316.6 <sub>AA</sub>   | <75.0  | <1.5  | <325.0            | <6.5              |
| 100-42-5    | 104.14           | # Styrene                       |    | 21.6                  | 92                     | <1.5   | <1.5  | <6.4              | <6.4              |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                  | <1.5   | <1.5  | <15.5             | <15.5             |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 69.9                  | 343.6                  | <1.5   | <1.5  | <7.4              | <7.4              |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS10  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 10  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 2402 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT<br>ppbv | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-----------|------------------|-----------------------------------------|----|----------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5           | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5           | <9.6                        | <1.5       | <1.5        | <9.6                    | <9.6                     |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 56.7           | 278.7                       | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5           | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 158.9          | 781.1                       | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5           | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5           | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 115.9          | 569.7                       | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 13.6           | 74.7                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 13.7           | 75.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5           | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5           | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5           | <14.5                       | <1.5       | <1.5        | <14.5                   | <14.5                    |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5           | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5           | <16.0                       | <1.5       | <1.5        | <16.0                   | <16.0                    |
| 91-20-3   | 128.17           | Naphthalene                             |    | 1.63           | 8.5                         | <0.32      | <0.32       | <1.7                    | <1.7                     |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5           | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | 50.2           | 181                         | <1.5       | <1.5        | <5.4                    | <5.4                     |
|           |                  | Sum of VOC USEPA compounds              |    | 89263.13       | 345044                      |            |             |                         |                          |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 106%           |                             | 0%         | 0%          |                         |                          |
|           | 81               | Aliphatic >C4-C6                        |    | 9260           | 30676                       | <10        | <10         | <33                     | <33                      |
|           | 100              | Aliphatic >C6-C8                        |    | 57098          | 233521                      | <10        | <10         | <41                     | <41                      |
|           | 130              | Aliphatic >C8-C10                       |    | 14866          | 79039                       | <10        | <10         | <53                     | <53                      |
|           | 160              | Aliphatic >C10-C12                      |    | 2383           | 15594                       | <10        | <10         | <65                     | <65                      |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 791.6          | 2528.8                      | <1.5       | <1.5        | <4.8                    | <4.8                     |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 73873          | 278350.5                    | <1.5       | <1.5        | <5.7                    | <5.7                     |
|           | 120              | Aromatic >EC8-EC10                      |    | 6040           | 29643                       | <10        | <10         | <49                     | <49                      |
|           | 130              | Aromatic >EC10-EC12                     |    | 560            | 2977                        | <10        | <10         | <53                     | <53                      |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS11  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 11  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 792 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv        | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|-----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | 4.3                   | 11                          | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 54.2                  | 268                         | <2.5       | <2.5        | <12.4                   | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 3                     | 6.2                         | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                  | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | 1.9                   | 5                           | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | <1.5                  | <8.4                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                 | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                  | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | 2.7                   | 10.9                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 3                     | 12                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                    | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                  | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                  | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                  | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                  | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 85.1                  | 271.9                       | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 23.4                  | 125.8                       | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                  | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                  | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 10290.9 <sub>AA</sub> | 38775.7 <sub>AA</sub>       | <75.0      | <1.5        | <285.0                  | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                  | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | 22.6                  | 123.3                       | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 8.2                   | 55.6                        | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                  | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                  | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                  | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | 2.3                   | 10.6                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                  | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 717.3                 | 3114.3                      | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 3134.9 <sub>AA</sub>  | 13612.3 <sub>AA</sub>       | <75.0      | <1.5        | <325.0                  | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 447.4                 | 1942.7                      | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 22.8                  | 97.1                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                  | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 23.4                  | 115                         | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS11  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 11  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 792 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT                | RESULT                | RL    | MDL   | RL                | MDL               |
|-----------|------------------|-----------------------------------------|----|-----------------------|-----------------------|-------|-------|-------------------|-------------------|
|           |                  |                                         |    | ppbv                  | ug/m <sup>3</sup>     | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | 2.9                   | 19.9                  | <1.5  | <1.5  | <10.3             | <10.3             |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5                  | <9.6                  | <1.5  | <1.5  | <9.6              | <9.6              |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5                  | <9.0                  | <1.5  | <1.5  | <9.0              | <9.0              |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 23                    | 113.1                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5                  | <7.8                  | <1.5  | <1.5  | <7.8              | <7.8              |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 54.5                  | 267.9                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5                  | <7.8                  | <1.5  | <1.5  | <7.8              | <7.8              |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5                  | <8.2                  | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 37.9                  | 186.3                 | <1.5  | <1.5  | <7.4              | <7.4              |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 4.6                   | 25.3                  | <1.5  | <1.5  | <8.2              | <8.2              |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 5.4                   | 29.6                  | <1.5  | <1.5  | <8.2              | <8.2              |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5                  | <9.0                  | <1.5  | <1.5  | <9.0              | <9.0              |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5                  | <9.0                  | <1.5  | <1.5  | <9.0              | <9.0              |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5                  | <8.2                  | <1.5  | <1.5  | <8.2              | <8.2              |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5                  | <9.0                  | <1.5  | <1.5  | <9.0              | <9.0              |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5                  | <14.5                 | <1.5  | <1.5  | <14.5             | <14.5             |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5                  | <11.1                 | <1.5  | <1.5  | <11.1             | <11.1             |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5                  | <16.0                 | <1.5  | <1.5  | <16.0             | <16.0             |
| 91-20-3   | 128.17           | Naphthalene                             |    | 1.18                  | 6.2                   | <0.32 | <0.32 | <1.7              | <1.7              |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5                  | <11.1                 | <1.5  | <1.5  | <11.1             | <11.1             |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5                  | <5.4                  | <1.5  | <1.5  | <5.4              | <5.4              |
|           |                  | Sum of VOC USEPA compounds              |    | 14976.88              | 59205.7               |       |       |                   |                   |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 99%                   |                       | 0%    | 0%    |                   |                   |
|           | 81               | Aliphatic >C4-C6                        |    | 303447 <sub>AA</sub>  | 1005248 <sub>AA</sub> | <500  | <10   | <1650             | <33               |
|           | 100              | Aliphatic >C6-C8                        |    | 895942 <sub>AA</sub>  | 3664250 <sub>AA</sub> | <500  | <10   | <2050             | <41               |
|           | 130              | Aliphatic >C8-C10                       |    | 163678 <sub>AA</sub>  | 870240 <sub>AA</sub>  | <500  | <10   | <2650             | <53               |
|           | 160              | Aliphatic >C10-C12                      |    | 2235 <sub>AA</sub>    | 14625 <sub>AA</sub>   | <500  | <10   | <3250             | <65               |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 85.1                  | 271.9                 | <1.5  | <1.5  | <4.8              | <4.8              |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 10290.9 <sub>AA</sub> | 38775.7 <sub>AA</sub> | <75.0 | <1.5  | <285.0            | <5.7              |
|           | 120              | Aromatic >EC8-EC10                      |    | 273727 <sub>AA</sub>  | 1343396 <sub>AA</sub> | <500  | <10   | <2450             | <49               |
|           | 130              | Aromatic >EC10-EC12                     |    | 2564 <sub>AA</sub>    | 13632 <sub>AA</sub>   | <500  | <10   | <2650             | <53               |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS12  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 12  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 624 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT | RESULT            | RL    | MDL   | RL                | MDL               |
|-------------|------------------|---------------------------------|----|--------|-------------------|-------|-------|-------------------|-------------------|
|             |                  |                                 |    | ppbv   | ug/m <sup>3</sup> | ppbv  | ppbv  | ug/m <sup>3</sup> | ug/m <sup>3</sup> |
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5   | <3.8              | <1.5  | <1.5  | <3.8              | <3.8              |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 65.4   | 323.4             | <2.5  | <2.5  | <12.4             | <12.4             |
| 74-87-3     | 50.49            | Chloromethane                   |    | 3.8    | 7.8               | <1.5  | <1.5  | <3.1              | <3.1              |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5   | <5.8              | <1.5  | <1.5  | <5.8              | <5.8              |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5   | <4.0              | <1.5  | <1.5  | <4.0              | <4.0              |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | 1.8    | 10.1              | <1.5  | <1.5  | <8.4              | <8.4              |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5   | <5.9              | <1.5  | <1.5  | <5.9              | <5.9              |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4  | <50               | <14.4 | <14.4 | <50               | <50               |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | 1.6    | 6.3               | <1.5  | <1.5  | <5.9              | <5.9              |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5   | <6.1              | <1.5  | <1.5  | <6.1              | <6.1              |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 2      | 8                 | <1    | <1    | <4                | <4                |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5   | <6.9              | <1.5  | <1.5  | <6.9              | <6.9              |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA     | NA                | <1.5  | <1.5  | <7.9              | <7.9              |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5   | <7.3              | <1.5  | <1.5  | <7.3              | <7.3              |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5   | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5   | <6.8              | <1.5  | <1.5  | <6.8              | <6.8              |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5   | <9.4              | <1.5  | <1.5  | <9.4              | <9.4              |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5   | <6.1              | <1.5  | <1.5  | <6.1              | <6.1              |
| 71-43-2     | 78.11            | # Benzene                       |    | 37.3   | 119.2             | <1.5  | <1.5  | <4.8              | <4.8              |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 34.2   | 183.8             | <1.5  | <1.5  | <8.1              | <8.1              |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5   | <6.9              | <1.5  | <1.5  | <6.9              | <6.9              |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5   | <10.7             | <1.5  | <1.5  | <10.7             | <10.7             |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5   | <10.1             | <1.5  | <1.5  | <10.1             | <10.1             |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5   | <6.8              | <1.5  | <1.5  | <6.8              | <6.8              |
| 108-88-3    | 92.13            | # Toluene                       |    | 13.1   | 49.4              | <1.5  | <1.5  | <5.7              | <5.7              |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5   | <6.8              | <1.5  | <1.5  | <6.8              | <6.8              |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5   | <8.2              | <1.5  | <1.5  | <8.2              | <8.2              |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 7.1    | 48.2              | <1.5  | <1.5  | <10.2             | <10.2             |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5   | <6.9              | <1.5  | <1.5  | <6.9              | <6.9              |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5   | <12.8             | <1.5  | <1.5  | <12.8             | <12.8             |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5   | <11.5             | <1.5  | <1.5  | <11.5             | <11.5             |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5   | <6.9              | <1.5  | <1.5  | <6.9              | <6.9              |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5   | <10.3             | <1.5  | <1.5  | <10.3             | <10.3             |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 9.7    | 42.1              | <1.5  | <1.5  | <6.5              | <6.5              |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 19.8   | 86                | <1.5  | <1.5  | <6.5              | <6.5              |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 7.1    | 30.8              | <1.5  | <1.5  | <6.5              | <6.5              |
| 100-42-5    | 104.14           | # Styrene                       |    | 4.8    | 20.4              | <1.5  | <1.5  | <6.4              | <6.4              |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5   | <15.5             | <1.5  | <1.5  | <15.5             | <15.5             |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 6.7    | 32.9              | <1.5  | <1.5  | <7.4              | <7.4              |

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

Canister Serial number: QT 624 0.45  
Sample Train Serial number: -

|            |                             |
|------------|-----------------------------|
| <b>MDL</b> | Method Detection Limit      |
| <b>RL</b>  | Reporting Limit             |
| <b>#</b>   | ISO 17025 (UKAS) accredited |

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## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS13  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 13  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 1558 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No      | Molecular Weight | Compound                        | Q* | RESULT<br>ppbv       | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-------------|------------------|---------------------------------|----|----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 75-01-4     | 62.5             | # Vinyl Chloride                |    | <1.5                 | <3.8                        | <1.5       | <1.5        | <3.8                    | <3.8                     |
| 75-71-8     | 120.91           | Dichlorodifluoromethane (F-12)  |    | 65.1                 | 321.9                       | <2.5       | <2.5        | <12.4                   | <12.4                    |
| 74-87-3     | 50.49            | Chloromethane                   |    | 1.8                  | 3.7                         | <1.5       | <1.5        | <3.1                    | <3.1                     |
| 74-83-9     | 94.95            | # Bromomethane                  |    | <1.5                 | <5.8                        | <1.5       | <1.5        | <5.8                    | <5.8                     |
| 75-00-3     | 64.52            | # Chloroethane                  |    | <1.5                 | <4.0                        | <1.5       | <1.5        | <4.0                    | <4.0                     |
| 75-69-4     | 137.36           | # Trichlorofluoromethane (F-11) |    | <1.5                 | <8.4                        | <1.5       | <1.5        | <8.4                    | <8.4                     |
| 75-35-4     | 96.95            | 1,1-Dichloroethene (1,1 DCE)    |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-09-2     | 84.93            | # Dichloromethane (DCM)         |    | <14.4                | <50                         | <14.4      | <14.4       | <50                     | <50                      |
| 156-60-5    | 96.94            | Trans-1,2-Dichloroethene        |    | <1.5                 | <5.9                        | <1.5       | <1.5        | <5.9                    | <5.9                     |
| 75-34-3     | 98.97            | # 1,1-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 156-59-2    | 96.94            | # cis-1,2-Dichloroethene        |    | 1                    | <4                          | <1         | <1          | <4                      | <4                       |
| 594-20-7    | 112.99           | 2,2-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-97-5     | 129.38           | Bromochloromethane (Int Std)    |    | NA                   | NA                          | <1.5       | <1.5        | <7.9                    | <7.9                     |
| 67-66-3     | 119.39           | # Chloroform                    |    | <1.5                 | <7.3                        | <1.5       | <1.5        | <7.3                    | <7.3                     |
| 71-55-6     | 133.42           | # 1,1,1-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 563-58-6    | 110.97           | 1,1-Dichloropropene             |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 56-23-5     | 153.84           | # Carbon Tetrachloride          |    | <1.5                 | <9.4                        | <1.5       | <1.5        | <9.4                    | <9.4                     |
| 107-06-2    | 98.96            | # 1,2-Dichloroethane            |    | <1.5                 | <6.1                        | <1.5       | <1.5        | <6.1                    | <6.1                     |
| 71-43-2     | 78.11            | # Benzene                       |    | 12.3                 | 39.3                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
| 79-01-6     | 131.4            | # Trichloroethene (TCE)         |    | 5.9                  | 31.7                        | <1.5       | <1.5        | <8.1                    | <8.1                     |
| 78-87-5     | 112.99           | # 1,2-Dichloropropane           |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 74-95-3     | 173.83           | Dibromomethane                  |    | <1.5                 | <10.7                       | <1.5       | <1.5        | <10.7                   | <10.7                    |
| 75-27-4     | 163.83           | Bromodichloromethane            |    | <1.5                 | <10.1                       | <1.5       | <1.5        | <10.1                   | <10.1                    |
| 10061-01-5  | 110.97           | cis-1,3-Dichloropropene         |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 108-88-3    | 92.13            | # Toluene                       |    | 2138.4 <sub>AA</sub> | 8057.4 <sub>AA</sub>        | <75.0      | <1.5        | <285.0                  | <5.7                     |
| 10061-02-6  | 110.97           | trans-1,3-Dichloropropene       |    | <1.5                 | <6.8                        | <1.5       | <1.5        | <6.8                    | <6.8                     |
| 79-00-5     | 133.4            | # 1,1,2-Trichloroethane         |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 127-18-4    | 165.85           | # Tetrachloroethene (PCE)       |    | 1.7                  | 11.5                        | <1.5       | <1.5        | <10.2                   | <10.2                    |
| 142-28-9    | 112.99           | 1,3-Dichloropropane             |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 124-48-1    | 208.28           | Dibromochloromethane            |    | <1.5                 | <12.8                       | <1.5       | <1.5        | <12.8                   | <12.8                    |
| 106-93-4    | 187.86           | # 1,2-Dibromoethane             |    | <1.5                 | <11.5                       | <1.5       | <1.5        | <11.5                   | <11.5                    |
| 108-90-7    | 112.56           | # Chlorobenzene                 |    | <1.5                 | <6.9                        | <1.5       | <1.5        | <6.9                    | <6.9                     |
| 630-20-6    | 167.85           | 1,1,1,2-Tetrachloroethane       |    | <1.5                 | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 100-41-4    | 106.16           | # Ethylbenzene                  |    | 139.2                | 604.4                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 179601-23-1 | 106.17           | # m/p-Xylene                    |    | 647.8                | 2812.9                      | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 95-47-6     | 106.17           | # o-Xylene                      |    | 115.4                | 501.1                       | <1.5       | <1.5        | <6.5                    | <6.5                     |
| 100-42-5    | 104.14           | # Styrene                       |    | 9.8                  | 41.7                        | <1.5       | <1.5        | <6.4                    | <6.4                     |
| 75-25-2     | 252.77           | Bromoform                       |    | <1.5                 | <15.5                       | <1.5       | <1.5        | <15.5                   | <15.5                    |
| 98-82-8     | 120.19           | Isopropylbenzene                |    | 6.1                  | 30                          | <1.5       | <1.5        | <7.4                    | <7.4                     |

## Element Materials Technology

**Client Name:** Groundtech Consulting Limited  
**Reference:** GRO-21459  
**Location:** Tetrosyl  
**Contact:** Luke Harrison

**Sample Date:** 14 Apr 2022  
**Date of Receipt:** 14 Apr 2022  
**Date Analysed:** 27 Apr 2022

**Sample ID:** WS13  
**Depth:**  
**EMT Job No:** 22/6236  
**EMT Sample No:** 13  
**Matrix:** Air  
**Method:** TM68 VOCs in gases (GC-MS)

**Canister Serial number:** QT 1558 0.45

**Sample Train Serial number:** -

### Q\* - Qualifiers

**B** Indicates analyte found in associated method blank  
**++** Indicates value exceeds calibration range

### Key

**MDL** Method Detection Limit  
**RL** Reporting Limit  
**#** ISO 17025 (UKAS) accredited

| Cas No    | Molecular Weight | Compound                                | Q* | RESULT<br>ppbv       | RESULT<br>ug/m <sup>3</sup> | RL<br>ppbv | MDL<br>ppbv | RL<br>ug/m <sup>3</sup> | MDL<br>ug/m <sup>3</sup> |
|-----------|------------------|-----------------------------------------|----|----------------------|-----------------------------|------------|-------------|-------------------------|--------------------------|
| 79-34-5   | 167.85           | # 1,1,2,2-Tetrachloroethane             |    | <1.5                 | <10.3                       | <1.5       | <1.5        | <10.3                   | <10.3                    |
| 108-86-1  | 157.01           | Bromobenzene                            |    | <1.5                 | <9.6                        | <1.5       | <1.5        | <9.6                    | <9.6                     |
| 96-18-4   | 147.43           | 1,2,3-Trichloropropane                  |    | <1.5                 | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 103-65-1  | 120.19           | Propylbenzene                           |    | 6.9                  | 33.9                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 95-49-8   | 126.58           | 2-Chlorotoluene                         |    | <1.5                 | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 108-67-8  | 120.2            | # 1,3,5-Trimethylbenzene                |    | 20.1                 | 98.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 106-43-4  | 126.58           | 4-Chlorotoluene                         |    | <1.5                 | <7.8                        | <1.5       | <1.5        | <7.8                    | <7.8                     |
| 98-06-6   | 134.22           | Tert-Butylbenzene                       |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-63-6   | 120.19           | # 1,2,4-Trimethylbenzene                |    | 13.8                 | 67.8                        | <1.5       | <1.5        | <7.4                    | <7.4                     |
| 135-98-8  | 134.22           | Sec-Butylbenzene                        |    | 2                    | 11                          | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 99-87-6   | 134.22           | 4-Isopropyltoluene                      |    | 2.5                  | 13.7                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 106-46-7  | 147.01           | # 1,4-Dichlorobenzene                   |    | <1.5                 | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 541-73-1  | 147.01           | # 1,3-Dichlorobenzene                   |    | <1.5                 | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 104-51-8  | 134.22           | n-Butylbenzene                          |    | <1.5                 | <8.2                        | <1.5       | <1.5        | <8.2                    | <8.2                     |
| 95-50-1   | 147              | # 1,2-Dichlorobenzene                   |    | <1.5                 | <9.0                        | <1.5       | <1.5        | <9.0                    | <9.0                     |
| 96-12-8   | 236.33           | 1,2-Dibromo-3-chloropropane             |    | <1.5                 | <14.5                       | <1.5       | <1.5        | <14.5                   | <14.5                    |
| 120-82-1  | 181.46           | 1,2,4-Trichlorobenzene                  |    | <1.5                 | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 87-68-3   | 260.76           | Hexachlorobutadiene                     |    | <1.5                 | <16.0                       | <1.5       | <1.5        | <16.0                   | <16.0                    |
| 91-20-3   | 128.17           | Naphthalene                             |    | <0.32                | <1.7                        | <0.32      | <0.32       | <1.7                    | <1.7                     |
| 87-61-6   | 181.45           | 1,2,3-Trichlorobenzene                  |    | <1.5                 | <11.1                       | <1.5       | <1.5        | <11.1                   | <11.1                    |
| 1634-04-4 | 88.15            | Methyl tertiary butyl ether             |    | <1.5                 | <5.4                        | <1.5       | <1.5        | <5.4                    | <5.4                     |
|           |                  | Sum of VOC USEPA compounds              |    | 3189.8               | 12680.8                     |            |             |                         |                          |
| 460-00-4  |                  | 4-Bromofluorobenzene Surrogate Recovery |    | 97%                  |                             | 0%         | 0%          |                         |                          |
|           | 81               | Aliphatic >C4-C6                        |    | 659                  | 2183                        | <10        | <10         | <33                     | <33                      |
|           | 100              | Aliphatic >C6-C8                        |    | 2382                 | 9742                        | <10        | <10         | <41                     | <41                      |
|           | 130              | Aliphatic >C8-C10                       |    | 1302                 | 6922                        | <10        | <10         | <53                     | <53                      |
|           | 160              | Aliphatic >C10-C12                      |    | 762                  | 4986                        | <10        | <10         | <65                     | <65                      |
|           | 78.11            | Aromatic >C5-EC7 (Benzene)              |    | 12.3                 | 39.3                        | <1.5       | <1.5        | <4.8                    | <4.8                     |
|           | 92.13            | Aromatic >EC7-EC8 (Toluene)             |    | 2138.4 <sub>AA</sub> | 8057.4 <sub>AA</sub>        | <75.0      | <1.5        | <285.0                  | <5.7                     |
|           | 120              | Aromatic >EC8-EC10                      |    | 1184                 | 5811                        | <10        | <10         | <49                     | <49                      |
|           | 130              | Aromatic >EC10-EC12                     |    | 69                   | 367                         | <10        | <10         | <53                     | <53                      |

**Client Name:** Groundtech Consulting Limited

Reference: GRO-21459

**Location:** Tetrosyl

**Contact:** Luke Harrison

[illegible]

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

# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/6236

## 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 37°C ±5°C.

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

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

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

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

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

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

## WATERS

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

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

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

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

## 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 UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

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

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.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                        |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                              |
| B       | Indicates analyte found in associated method blank.                                                                                  |
| DR      | Dilution required.                                                                                                                   |
| M       | MCERTS accredited.                                                                                                                   |
| NA      | Not applicable                                                                                                                       |
| NAD     | No Asbestos Detected.                                                                                                                |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                 |
| NDP     | No Determination Possible                                                                                                            |
| SS      | Calibrated against a single substance                                                                                                |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                 |
| W       | Results expressed on as received basis.                                                                                              |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                           |
| >>      | Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                       |
| AD      | Samples are dried at 35°C ±5°C                                                                                                       |
| CO      | Suspected carry over                                                                                                                 |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                            |
| ME      | Matrix Effect                                                                                                                        |
| NFD     | No Fibres Detected                                                                                                                   |
| BS      | AQC Sample                                                                                                                           |
| LB      | Blank Sample                                                                                                                         |
| N       | Client Sample                                                                                                                        |
| TB      | Trip Blank Sample                                                                                                                    |
| OC      | Outside Calibration Range                                                                                                            |
| AA      | x50 Dilution                                                                                                                         |
| AB      | x100 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: 22/6236

| 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 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM68            | Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS. | PM0                              | No preparation is required. |                         |                        |                                                 |                              |
| TM68            | Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS. | PM0                              | No preparation is required. | Yes                     |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |
|                 |                                                                                                                                                  |                                  |                             |                         |                        |                                                 |                              |

## Appendix 6 - Limitations

## Limitations

This report (Report) forms part of the Services and if applicable Additional Services undertaken by Groundtech Consulting Ltd pursuant to a written contract (Agreement) which contains detailed provisions including express limitations of the liability of Groundtech Consulting Ltd.

This Report was prepared using reasonable skill and care as stated in the Agreement for the purpose including intended end use stated by the Client (Purpose) and the liability of Groundtech Consulting Ltd in respect of the form and content of this Report is no greater than its liability under the Agreement. All records, measurements notes, or any other data (Data) obtained by or for the benefit of the Consultant were obtained at a specific point in time and it may not be assumed by the Client or any person relying on this Report that the Data will remain unaffected by the passage of time, the seasons, weather conditions, changes in the water table or the carrying out and completion of works at the Site.

Unless otherwise agreed this Report has been prepared exclusively for the use and reliance of the Client and may not be relied upon, by any other party except as provided for in the Agreement. A third party who relies on this Report, does so at their own and sole risk and Groundtech Consulting Ltd has no liability to such parties.

Groundtech Consulting Ltd that this Report is to be used for the Purpose. The Purpose was instrumental in determining the scope and of the Services provided. If the Purpose should change, the Client may not be able to rely on the Report without the separate agreement of Groundtech Consulting Ltd.

Since the Report was written, later changes in legislation, statutory requirements and industry best practices have not been considered and this should be allowed for. Ground conditions can also change (see below) and should be investigated if there is any significant delay in acting on the findings of this Report. The period of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the Report inaccurate or unreliable. The information and conclusions in this Report should not be relied upon in the future without written confirmation from Groundtech Consulting Ltd that it is safe to do so.

The observations and conclusions outlined in this Report are based exclusively on the services that were provided as set out in the agreement between the client and Groundtech Consulting Ltd.

Groundtech Consulting Ltd is not liable for the existence of any condition, the discovery of which would require additional investigation outside the agreed scope of works or core competency. The Report is based upon Groundtech Consulting Ltd's observations of existing physical conditions at the Site gained from site reconnaissance together with interpretation of information including documentation, obtained from third parties and from the Client on the history and usage of the Site. The findings and recommendations contained in this Report are based in part upon information provided by third parties, and Groundtech Consulting Ltd have relied upon such information assuming it to be correct.

Groundtech Consulting Ltd accepts no responsibility for errors or inaccuracies in third party information presented in this Report. Groundtech Consulting Ltd was not authorised to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services or Additional Services. Groundtech Consulting Ltd is not liable for any inaccurate information, misrepresentation of data or conclusions, which may inform the scope of investigation undertaken by Groundtech Consulting Ltd and forms the contract with the client.

Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions may also vary due to the ground's heterogeneous properties and because investigation exploratory locations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this Report, particularly between exploratory holes. The extent of the limited area depends on the soil and groundwater conditions, together with other constraints such as the position of any existing structures and underground utilities. If so stipulated in the Agreement, geo-environmental testing was carried out for a limited number of parameters based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

Any groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The groundwater level often has not had time to reach equilibrium and a monitoring period is required. Furthermore,



groundwater levels are subject to seasonal variation or changes in local drainage conditions and groundwater levels may occur at other times of the year which are higher than were recorded during this investigation.

Any site drawings provided in this Report are preliminary and used to present the general relative locations of features on, and surrounding, the Site.

