Castledine & Co
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Garland Lane Farm
Garlands Lane
Barlestone
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CV13 0JD

RE: Comments on Phase 2 Environmental Investigation Garlands Farm

TPH Band 1 (>C6 – C10) is a group of hydrocarbons covered by the assessment criteria

TPH Aliphatic >C05-06	259	SSV
TPH Aliphatic >C06-08	14700	SSV
TPH Aliphatic >C08-10	144	SSV
TPH Aromatic >EC05-07	0.33	SSV
TPH Aromatic >EC07-08	610	SSV
TPH Aromatic >EC07-08	610	SSV
TPH Aromatic >EC08-10	177	SSV

Of which 0.33 is the most conservative. The values you state are not results but are reports below the limit of detection for the test.

The sites in question are TP1, TP2 and TP4. TP3 has been covered in the earlier report.

The submitted landscaping scheme is that the area around TP1 and T2 is to be turned in to a lawn therefore clean soil will need to be imported as the material present beneath the concrete is unsuitable to form soft landscaping areas and the site will be covered with imported topsoil.

TP4 is within an area forming a lawn facing the road. When samples where taken no evidence of volatile hydrocarbon content was observed within the sample. TPH band >C6 –C10 is made up of hydrocarbons in the gasoline range as well as toluene and benzene. These substances have a strong odour that is evident even at very low concentrations. No odour was observed when the samples were taken.

TPH Aromatic >EC05-07 consists almost entirely of toluene which is highly volatile and is easily broken down in the environment. The next highest assessment criteria is for TPH Aliphatic >C08-10 at 144 $mgKg^{-1}$ which is many orders of magnitude higher than 0.33. Applying a 0.33 $mgKg^{-1}$ criteria which only applies to a portion of the chemicals within the group to a sample which registered below the limit of detection and showed no evidence of impact by hydrocarbon

contamination is overly conservative, as such it is deemed that no further work in the area of TP4 is required.

If you have any further queries regarding the site please feel free to contact me

Your sincerely

Gareth Rees MGEOL (HONS) FGS

on Behalf of Castledine & Co