

**Petrol Coedpoeth, High Street,
Coedpoeth**

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Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL
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SOIL VERIFICATION SAMPLING REPORT



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Client: The Co-Operative Group Ltd

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Report

CP17129 CL 007

Date

December 2019

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List of Attachments

Attachment One:	Notice to Interested Parties
Attachment Two:	Soil Verification Sampling Location Plans
Attachment Three:	Laboratory Analysis Certificates
Attachment Four:	PID Screening Results
Attachment Five:	Waste Transfer Certificates
Attachment Six:	Contractor's Tank Removal Report

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1 Introduction

1.1 Background

The Co-Operative Group Ltd (The Coop) are redeveloping their Petrol Coedpoeth filling station site; demolishing the existing petrol station and adjacent residential property and building a new filling station with larger convenience store. Conditional planning permission for the redeveloped scheme was granted by Wrexham County Council (Planning Application Ref. P/2018/0463).

We have previously completed an environmental investigation at the site during February 2017 that did not identify any significant hydrocarbon contamination of underlying soils and identified inconsistent perched groundwater under the site. We completed a Generic Quantitative Risk Assessment for the site, concluding that the site was suitable for continued commercial use. This report was submitted in support of the discharge of planning Condition 7, relating to the assessment of potential contamination at the site.

We subsequently completed additional ground investigation works during March 2019 to satisfy planning conditions relating to potential historical coal mining activity at the site location (Condition 9).

We prepared a remedial and verification sampling strategy for the site in May 2019. This set out the primary remedial objective for the site to be the removal of historic petroleum infrastructure during the redevelopment works and outlined the methodology for soil verification sampling during the redevelopment work. The purpose of this document is to present the findings of our verification works carried out during the redevelopment in order to satisfy the requirements of Condition 8 and/or 10.

All the activities comprising this assessment were carried out in accordance with the procedures set out in our Quality Manual. Your attention is drawn to the Notice to Interested Parties included as Attachment One.

1.1 Project Details and Contractual Arrangements

The site is located on High Street in Coedpoeth and comprised a petrol filling station and adjacent residential property. The site has been redeveloped, with the former buildings and petroleum infrastructure removed and replaced with a new petroleum installation, forecourt canopy and larger convenience store.

Client: The Co-Operative Group Ltd (The Coop)

Principal Works Contractor: Williams Southern Ltd (Williams)

Environmental Sampling/Analysis: Subadra Consulting Ltd

Williams Southern was commissioned by The Coop to undertake the site's redevelopment. We were commissioned by The Coop to carry out verification soil sampling during these works.

Our site work was carried out between the 20th August 2019 and 28th November 2019.

1.2 The Purpose of the Works

The purpose of our work was to verify the condition of soil excavated from, and left in place around, excavations completed as part of the redevelopment of the site. Our data can be used to help determine the waste classification for the excavated soils and was designed to confirm the environmental condition of the soil remaining in-situ under the site.

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1.3 The Scope of Our Work

The scope of our works was as follows:

- Attend site as requested by Williams Southern Ltd to take soil samples from the various excavations.
- Take soil samples from the base and side walls of available excavations. The spacing and number of samples retrieved depended on the physical evidence of hydrocarbon impact encountered and the extent of the excavation works completed.
- Analyse representative soil samples for Total Petroleum Hydrocarbons (TPH) reported by carbon range, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Waste Acceptance Criteria (WAC) and any other relevant compounds we deemed likely to be present. All soil samples were preserved in glass jars and stored in cool boxes during transportation. All our analyses were carried out by UKAS accredited laboratories; and,
- Provision of this report summarising the works we carried out during the redevelopment.

1.4 Previous Reports Relating to the Site

Our Ref.	Report Title	Prepared By	Prepared on Behalf of	Date of Issue	Report Reference
Ref. 1	Environmental Assessment Report	Subadra Consulting Ltd	The Cooperative Group Ltd	March 2017	CP17129 CL 001
Ref. 2	Coal Mining Risk Assessment			August 2018	CP17129 CL 003
Ref. 3	Additional Site Investigation Completion Report			March 2019	CP17129 CL 004
Ref. 4	Outline Remedial and Verification Sampling Strategy			May 2019	CP17129 CL 005

This report should be read in conjunction with these documents. However, we have used information from these documents, where relevant, in other sections of this report.

Table One: Previous Environmental Reports Relating to the Site

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2 Soil Target Levels

We completed a Generic Quantitative Risk Assessment as part of our previous site assessment (Ref.1). This compared the results of our chemical analysis completed on soil samples with industry standard Generic Acceptance Criteria (generic target levels) protective of commercial end use.

The results of our verification sampling were designed to supplement the findings of our previous generic risk assessment, with respect to assessing underlying soil quality at the site. For the purposes of our verification sampling, soil containing hydrocarbon concentrations below the generic target levels may be left in place under the site. Should soils containing hydrocarbon concentrations above these target levels, additional soil-source removal, remediation and/or further assessment may be required.

The generic target levels we will use for our assessment are summarised in the following table:

Contaminant of Concern	S4UL ¹ / GAC for Commercial Land Use (mg/kg)	Source of GAC
TPH Aliphatic C ₈₋₁₀	2,000*	LQM CIEH S4UL ¹
TPH Aliphatic C ₁₀₋₁₂	9,700*	
TPH Aliphatic C ₁₂₋₁₆	59,000*	
TPH Aliphatic C ₁₆₋₃₅	1,600,000	
TPH Aromatic C ₈₋₁₀	3,500*	
TPH Aromatic C ₁₀₋₁₂	16,000*	
TPH Aromatic C ₁₂₋₁₆	36,000*	
TPH Aromatic C ₁₆₋₂₁	28,000	
TPH Aromatic C ₂₁₋₃₅	28,000	
Benzene	27	
Toluene	56,000	
Ethylbenzene	5,700	
Xylenes	6,200	

Note: * target exceeds solubility saturation limit
Targets assume 1% Soil Organic Matter

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Table Two: Generic Acceptance Criteria - Commercial End Use

Note that these target levels refer to the environmental condition of soil left under the site. A separate system of classification is used to determine the waste classification of soil excavated and removed from the site.

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3 Record of the Works

3.1 Visit Summary

We visited the site on six occasions over the course of the redevelopment. Our site visits are summarised in Table Three below and detailed on the following pages. Chemical analysis certificates are included as Attachment Two. A detailed copy of the site plan showing our sampling locations is included as Attachment Three.

Date	Reason for Visit	Number of Samples Analysed		
		BTEX	TPH	Other
20/8/2019	To collect soil samples from a series of trial pits beneath the fuel lines and fuel dispensers.	7	6 (Speciated) 4 (Banded)	3 (WAC)
2/09/2019	To collect soil samples from the excavation remaining in place following removal of the redundant underground tank farm.	15	5 (Speciated) 20 (Banded)	5 (asbestos) 5 (CLEA metals) 5 (PAHs) 2 (WAC)
13/11/2019	To verify and collect soil samples following removal of contaminated soil from the former pump island area. During this visit we found two abandoned tanks.	7	6 (Speciated) 13 (Banded)	2 (CLEA metals) 2 (PAHs)
22/11/2019	We attended site to collect soil samples from beneath two abandoned tanks found underneath the central forecourt. We also collected samples following the removal of the site interceptor.	4	4 (Speciated) 13 (Banded)	-
26/11/2019	We attended site to collect soil samples beneath and around two abandoned tanks found in the site entrance, between the site interceptor and the central forecourt.	20	20 (Banded)	-
28/11/2019	We attended site to collect soil samples beneath a fifth abandoned tank, found near the site entrance. We also took samples from near the site boundary.	21	21 (Banded)	-

Table Three: Summary of Site Visits

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3.2 Soil Sampling Visit One - 20th August 2019

3.2.1 Visit Details

Work Completed By Contractor	Our Observations and Recommendations
Williams had closed the forecourt and established a site office / welfare block in the north west of the site near the former residential building. The former sales building and residential property had been demolished. The site canopy and forecourt dispensers had been removed, but the block paving and pump islands remained in place. During the establishment works, Williams reported hydrocarbon odours in underlying shallow soils at the front (north) of the site - near the old pump islands.	We oversaw the digging of two trial pits (TP101 and TP102) in the vicinity of the old pump islands and reported shallow impact. The geology encountered in the excavations comprised a thin layer of Made Ground, consisting of sandy clayey gravel with brick and concrete fragments to ~0.5m, overlying grey brown slightly sandy clay. The base of the Made Ground was stained black and had a hydrocarbon odour and we noted free phase hydrocarbon in perched water present. Site screening using our Photo-ionisation Detector (PID) confirmed hydrocarbon impact of the Made Ground, but indicated this did not extend into the underlying clay. We encountered numerous fuel lines in the vicinity of the trial pits and suspected these were the source of the shallow contamination. We recommended the shallow impacted Made Ground be excavated and removed from the site. The site welfare units were to be moved to this area and so it was agreed the contamination would be removed later in the program. Soil samples were analysed for a range of contaminants including TPH, PAH and BTEX, and also for the Waste Acceptance Criteria (WAC) suite. The results of our chemical analysis are provided in Table Five to Seven and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure One and as Attachment Two.



Photograph One - Two trial pits located at the front of the site in the former pump island locations.



Photograph Two - Old fuel lines in a pool of hydrocarbon impacted water in TP102

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Photograph Three - Shallow hydrocarbon impacted soil and perched water. Underlying clean clay TP101



Photograph Four - TP101 - free-phase hydrocarbons, suspected fuel line source.

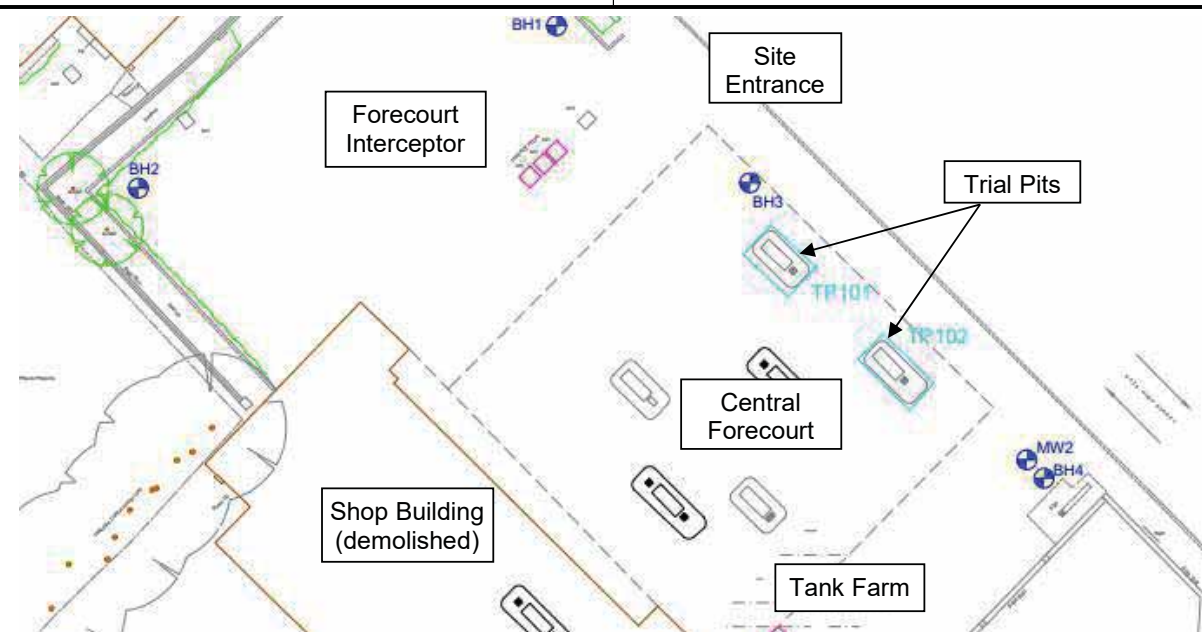


Figure One: Sampling Locations - 20th August 2019

Table Four: Details of Site Visit – 20th August 2019

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3.2.2 Analysis Results

Analyte	Sample Details (mg/kg)					
	TP101	TP101	TP102	TP102	TP102	TP102
	S1	S2	S1	S2	S3	S5
	0.6m	0.6m	0.4m	0.5m	0.4m	1.0m
C ₆₋₈ Aliphatic TPH	1,170	763	598	462	118	7.11
>C ₈₋₁₀ Aliphatic TPH	<2.5	<2.5	<2.5	<2.5	<2.5	15.3
>C ₁₀₋₁₂ Aliphatic TPH	691	437	577	673	274	4.99
>C ₁₂₋₁₆ Aliphatic TPH	1,770	990	1,690	792	565	<5
>C ₁₆₋₂₁ Aliphatic TPH	1,420	845	1,400	454	489	<5
>C ₂₁₋₃₅ Aliphatic TPH	286	99.2	142	<10	147	<10
C ₆₋₈ Aromatic TPH	556	121	251	116	21.5	<1
>C ₈₋₁₀ Aromatic TPH	3,210	1,560	1,570	1,430	893	8.94
>C ₁₀₋₁₂ Aromatic TPH	286	102	405	663	191	12.3
>C ₁₂₋₁₆ Aromatic TPH	381	152	481	465	416	4.24
>C ₁₆₋₂₁ Aromatic TPH	153	57.7	158	119	299	<2.5
>C ₂₁₋₃₅ Aromatic TPH	89.3	14.7	10.7	20.8	43.1	<2.5

Table Five: TPH (speciated) Analysis Results – 20th August 2019

Analyte	Sample Details			
	TP101	TP101	TP101	TP102
	S3	S4	S5	S4
	1.0m	1.0m	1.0m	1.0m
C ₆₋₈ TPH Band	3.46	2.9	2.96	13.2
>C ₈₋₁₀ TPH Band	3.5	3.03	3.05	24.1
>C ₁₀₋₁₂ TPH Band	<0.5	<0.5	<0.5	<0.5
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	<0.5	<0.5
>C ₁₆₋₂₁ TPH Band	<0.5	<0.5	<0.5	<0.5
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	<0.5

Table Six: TPH (banded) Analysis Results – 20th August 2019

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Analyte	Sample Details						
	TP101	TP101	TP101	TP102	TP102	TP102	TP102
	S1	S2	S3	S1	S2	S3	S5
	0.6m	0.6m	1.0m	0.4m	0.5m	0.4m	1.0m
MTBE	155	74.4	1.06	107	55.4	<0.5	1.69
Benzene	160	82.4	<0.1	87.7	61.3	15.3	<0.1
Toluene	396	38.3	0.116	163	54.4	6.21	0.694
Ethylbenzene	112	73.7	<0.1	47.7	30.1	26.6	<0.1
p+m Xylene	482	181	0.244	186	85.8	49	2.58
o Xylene	222	<0.1	<0.1	82.7	44.1	15.6	<0.1

Note: Numbers shaded red exceed target levels

Table Seven: BTEX Analysis Results – 20th August 2019

3.3 Soil Sampling Visit Two - 2nd September 2019

3.3.1 Visit Details

Work Completed By Contractor	Our Observations and Recommendations
Williams had moved the site welfare area to the north of the site, over the location of the trial pits constructed during our last visit (TP101 and TP102). The north west area of the site was being prepared for the construction of the new shop building. Williams had removed the block paving in the central forecourt and the underground tank farm had been removed. Two tanks (with a combined total of five chambers) had been removed before we attended site. The tanks were bound in a concrete cradle, most of which remained in place. To allow for sampling, Williams had broken through the cradle in a number of locations at the base of the tank farm.	The purpose of this visit was to verify the soils left in place around the former tank farm following its removal. We collected samples at varying depths, from the side walls and the base of the excavation which we identified as EX001. The depth of the excavation following removal of the tanks was ~4.0m. We recorded the geology as brown slightly sandy clay with occasional fine gravels. In most of the samples we collected, we did not encounter any olfactory or visual evidence of hydrocarbon contamination. Field screening using our PID recorded low hydrocarbon vapour concentrations in two soil samples only. Based on our observations we concluded no significant impact of underlying soils in the vicinity of the former tank farm had occurred. We recommended no further remedial excavation of soils would be required. Soil samples were analysed for a range of contaminants including TPH, PAH and BTEX. The results of our chemical analysis are provided in Table Nine to Thirteen and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure Two and as Attachment Two.

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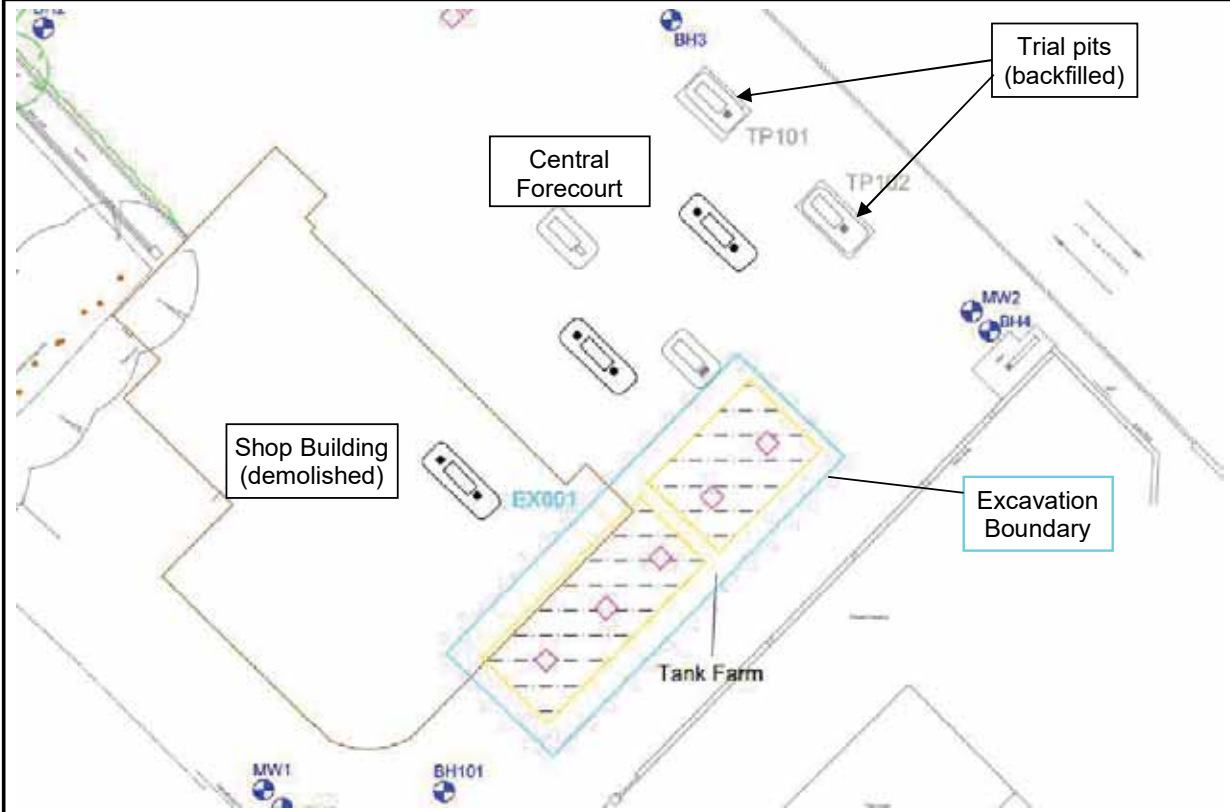


Figure Two: Sampling Locations - 2nd September 2019



Photograph Five - Excavation remaining in place following removal of the underground tank farm



Photograph Six - EX001 (former tank farm) looking south

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Photograph Seven - Underground tanks removed from EX001



Photograph Eight - EX001 (Tank farm) looking north.



Photograph Nine - Digging to base of tank depth in EX001 (note clean clay soils)



Photograph Ten - Digging to the base of the tank farm in EX001

Table Eight: Details of Site Visit – 2nd September 2019

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3.3.2 Analysis Results

Analyte	Sample Details and Results (mg/kg)				
	EX001	EX001	EX001	EX001	EX001
	S3	S4	S14	S17	S30
	4.0m	4.0m	4.0m	2.5m	4.0m
C ₆₋₈ Aliphatic TPH	<2.5	<2.5	<2.5	<2.5	<2.5
>C ₈₋₁₀ Aliphatic TPH	<2.5	<2.5	<2.5	17	<2.5
>C ₁₀₋₁₂ Aliphatic TPH	45.2	<2.5	<2.5	205	<2.5
>C ₁₂₋₁₆ Aliphatic TPH	82.7	<5	<5	278	5.07
>C ₁₆₋₂₁ Aliphatic TPH	53.1	<5	<5	52.9	<5
>C ₂₁₋₃₅ Aliphatic TPH	63	<10	<10	136	<10
C ₆₋₈ Aromatic TPH	<1	<1	<1	<1	<1
>C ₈₋₁₀ Aromatic TPH	<1	<1	<1	5.44	<1
>C ₁₀₋₁₂ Aromatic TPH	9.44	<1	<1	54.7	<1
>C ₁₂₋₁₆ Aromatic TPH	32.8	<2.5	<2.5	104	3.18
>C ₁₆₋₂₁ Aromatic TPH	20.7	<2.5	<2.5	48.1	<2.5
>C ₂₁₋₃₅ Aromatic TPH	<2.5	<2.5	<2.5	95.4	<2.5

Table Nine: TPH (speciated) Analysis Results - 2nd September 2019

Analyte	Sample Details and Results (mg/kg)							
	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001
	S1	S3	S4	S9	S11	S13	S17	S18
	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	2.5m	2.5m
MTBE	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
p+m Xylene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
o Xylene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	0.43	<0.1

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Analyte	Sample Details and Results (mg/kg)						
	EX001	EX001	EX001	EX001	EX001	EX001	EX001
	S22	S23	S24	S25	S27	S29	S32
	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m
MTBE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p+m Xylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o Xylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table Ten: BTEX Analysis Results – 2nd September 2019

Analyte	Sample Details and Results (mg/kg)						
	EX001	EX001	EX001	EX001	EX001	EX001	EX001
	S1	S5	S6	S7	S8	S10	S11
	4.0m	2.5m	2.5m	4.0m	4.0m	2.5m	4.0m
C ₆₋₈ TPH Band	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
>C ₈₋₁₀ TPH Band	<0.5	<0.5	<1	<0.5	<1	<0.5	1.89
>C ₁₀₋₁₂ TPH Band	3.92	<0.5	<0.5	9.61	<0.5	3.74	23.7
>C ₁₂₋₁₆ TPH Band	8.17	0.56	<0.5	9.61	<0.5	4.56	23.6
>C ₁₆₋₂₁ TPH Band	4.97	0.659	<0.5	2.26	<0.5	2.28	11.2
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	<0.5	<0.5	1.08	598

Analyte	Sample Details and Results (mg/kg)						
	EX001	EX001	EX001	EX001	EX001	EX001	EX001
	S12	S16	S18	S19	S20	S21	S23
	2.5m	4.0m	2.5m	2.5m	2.5m	2.5m	4.0m
C ₆₋₈ TPH Band	<1	<1.5	<0.5	<0.5	<1.5	<1	<0.5
>C ₈₋₁₀ TPH Band	<1	<1.5	1.01	<0.5	<1.5	<1	1.26
>C ₁₀₋₁₂ TPH Band	31.9	3.19	44.1	0.843	<0.5	<0.5	23.6
>C ₁₂₋₁₆ TPH Band	87.4	7.34	60.7	0.981	0.878	<0.5	59.2
>C ₁₆₋₂₁ TPH Band	53.7	3.72	12.1	1.32	1.38	<0.5	45.3
>C ₂₁₋₃₅ TPH Band	15.8	3.12	21.5	60.3	0.575	<0.5	23.9

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Analyte	Sample Details and Results (mg/kg)					
	EX001	EX001	EX001	EX001	EX001	EX001
	S24	S26	S28	S29	S31	S32
	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m
C ₆₋₈ TPH Band	<1.5	<1	<1.5	<1	<1.5	<1.5
>C ₈₋₁₀ TPH Band	<1.5	<1	<1.5	<1	<1.5	<1.5
>C ₁₀₋₁₂ TPH Band	<0.5	<0.5	<0.5	<0.5	0.641	1.31
>C ₁₂₋₁₆ TPH Band	0.556	<0.5	<0.5	<0.5	1.85	2.63
>C ₁₆₋₂₁ TPH Band	0.827	<0.5	<0.5	<0.5	2.12	2.31
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	<0.5	1.64	0.679

Table Eleven: TPH Analysis Results – 2nd September 2019

Analyte	Sample Details and Results (mg/kg)				
	EX001	EX001	EX001	EX001	EX001
	S2	S10	S12	S14	S20
	2.5m	2.5m	2.5m	4.0m	2.5m
Naphthalene	<0.1	<0.1	<0.1	<0.1	0.86
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.19	0.30	0.77	0.22	1.15
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	<0.1	0.27	0.75	0.18	0.29
Pyrene	0.15	0.27	0.77	0.19	0.49
Benzo(a)anthracene	<0.1	<0.1	0.64	<0.1	0.27
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	<0.1	0.29
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	<0.1	<0.1	0.29	<0.1	0.39
Benzo(a)pyrene	<0.1	<0.1	0.48	<0.1	0.23
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs (EPA16)	<1.6	<1.6	3.7	<1.6	4.4

Table Twelve: PAH Analysis Results - 2nd September 2019

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Analyte	Sample Details and Results (mg/kg)				
	EX001	EX001	EX001	EX001	EX001
	S2	S5	S6	S19	S21
	2.5m	2.5m	2.5m	2.5m	2.5m
Arsenic	11	27	8	10	20
Barium	312	225	199	172	173
Beryllium	0.9	4	0.9	1	2.3
Boron (Water Soluble)	< 1	< 1	< 1	< 1	< 1
Cadmium	0.3	0.5	< 0.2	0.4	0.3
Chromium	16	14	15	13	4
Chromium (Hexavalent)	< 2	< 2	< 2	< 2	< 2
Copper	31	53	29	30	56
Lead	130	24	98	169	33
Mercury	< 1	< 1	< 1	< 1	< 1
Nickel	31	15	29	34	72
Selenium	< 3	< 3	< 3	< 3	< 3
Vanadium	15	14	13	13	7
Zinc	56	18	52	94	14

Table Thirteen: CLEA Metals Suite Analysis Results - 2nd September 2019

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3.4 Soil Sampling Visit Three - 13th November 2019

3.4.1 Soil Sampling Details

Work Completed By Contractor	Our Observations and Recommendations
Since our last visit, Williams had installed the new underground fuel tanks (in the vicinity of EX001) and that area of the site was now completely backfilled. Works were continuing on the new forecourt including stanchions for the new canopy and new pump islands. The frame of the new shop building was up and building works were continuing. The site welfare offices had moved to the back (south) of the site. During our first visit, we encountered hydrocarbon contaminated soils near the surface in TP101 and TP102 which exceeded target levels and needed to be removed from the site. This area had been cleared, ready for the excavation of shallow impacted soils (~0.5m- ~1.0m).	We attended site to further delineate and verify the removal of the contaminated material identified under the front of the site. We constructed a series of trial pits around the location of TP101 and TP102. The geology we encountered in all of our trial pits was generally consistent, with a thin layer of sandy gravelly Made Ground underlying the block paving/concrete. The Made Ground was typically black with hydrocarbon staining. Underlying the Made Ground was stiff brown clay that did not appear to be impacted by hydrocarbon contamination (confirmed with PID) While excavating this area, Williams encountered old metal fuel lines and two previously unidentified, abandoned underground fuel storage tanks. These tanks were located underneath the central forecourt and in the site entrance near the eastern boundary. The two tanks were relatively small (~2,250litre and ~4,500litre capacity). The smaller one had been concrete slurry filled. The larger tank was found empty and strong petrol odours were noted. Williams exposed the tanks showing they were installed within a concrete bund. Where possible, we collected soil samples from around the tanks. We also constructed trial pits through the area of suspected shallow contamination, though we were limited in the locations we could dig due to ongoing site operations. Soil samples were analysed for TPH (banded and speciated), BTEX, PAHs and CLEA Metals. The results of our hydrocarbon analysis are provided as Tables Fifteen to Seventeen and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure Three and as Attachment Two.



Photograph Eleven - Breaking ground at front of site



Photograph Twelve - Hydrocarbon impacted soil.

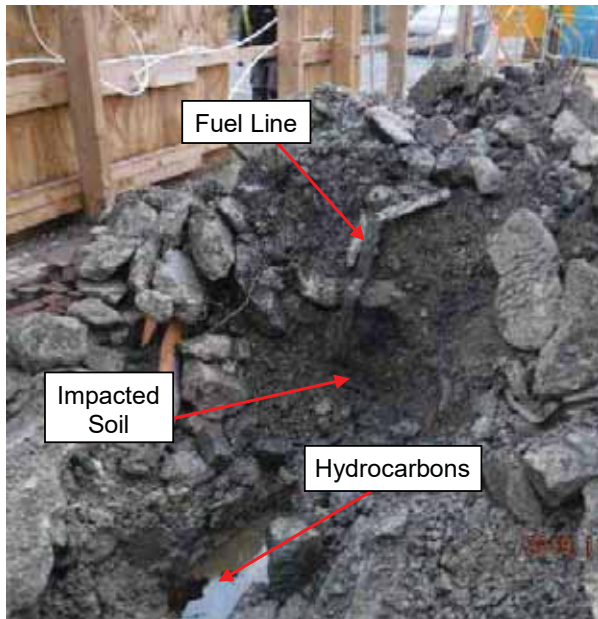
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Photograph Thirteen - Site overview: Excavator at front of site breaking out concrete



Photograph Fourteen - Contamination found around redundant fuel lines



Photograph Fifteen - Exposing abandoned tank at the front of the site.

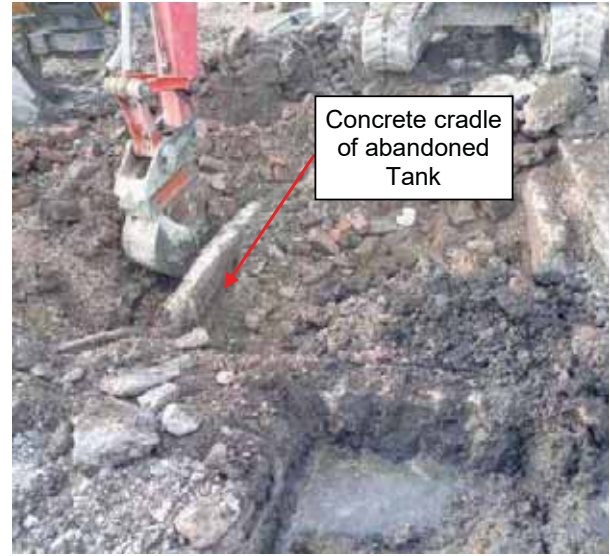
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Photograph Sixteen - Lid of abandoned tank with fill point and vent holes visible.



Photograph Seventeen - Trial pit constructed adjacent to the abandoned tank

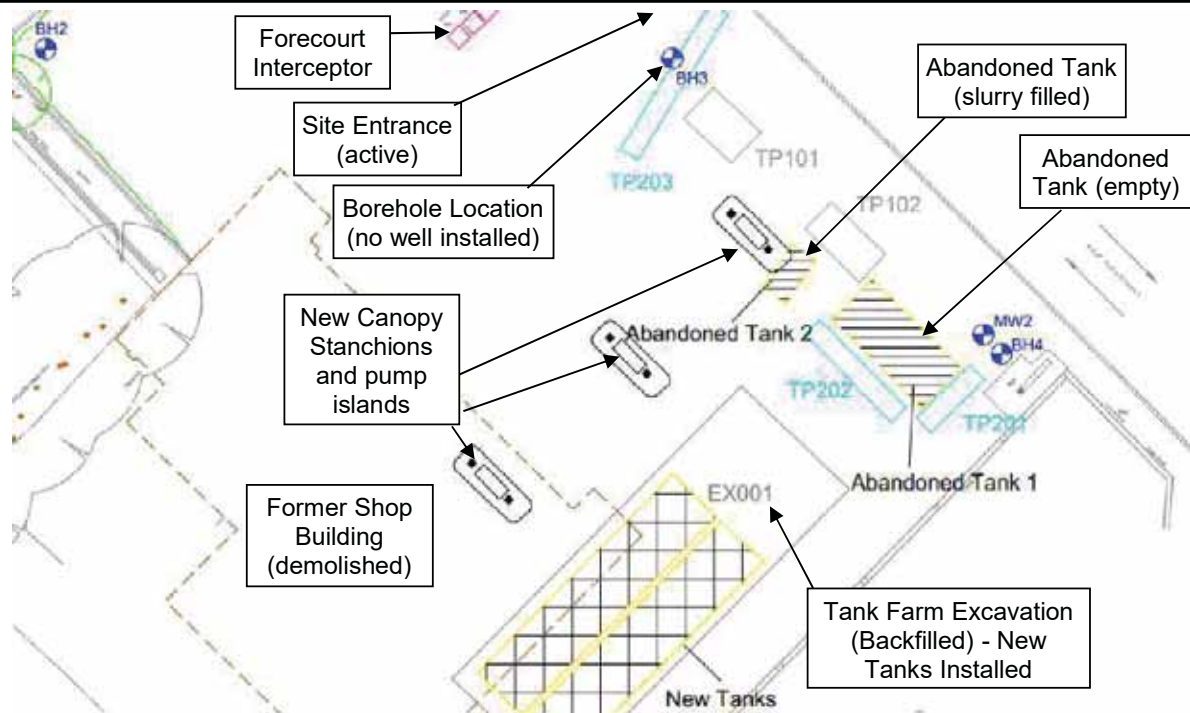


Figure Three: Sampling Location - 13th November 2019

Table Fourteen: Details of Site Visit – 13th November 2019

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3.4.2 Analytical results - 13th November 2019

Analyte	Sample Details and Results (mg/kg)						
	TP201	TP202	TP202	TP202	TP203	TP203	TP203
	S3	S2	S3	S4	S1	S3	S5
	3.0m	1.5m	2.5m	3.0m	0.4m	0.4m	0.4m
C ₆₋₈ TPH Band	<0.5	<0.5	7.3	<0.5	190	116	26.3
>C ₈₋₁₀ TPH Band	<0.5	0.977	4.44	<0.5	294	202	48.9
>C ₁₀₋₁₂ TPH Band	<0.5	<0.5	2.88	<0.5	97.4	80.7	13.9
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	6.95	<0.5	296	244	19.6
>C ₁₆₋₂₁ TPH Band	<0.5	0.982	14.3	<0.5	262	219	19.1
>C ₂₁₋₃₅ TPH Band	1.39	14.3	59.1	<0.5	72.3	61.5	0.831

Analyte	Sample Details and Results (mg/kg)						
	TP203	TP203	TP203	TP203	TP203	TP203	
	S7	S8	S9	S10	S11	S12	
	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	
C ₆₋₈ TPH Band	5.62	19.3	11.2	14.2	35.2	2.35	
>C ₈₋₁₀ TPH Band	22	34.8	34.1	32.7	54.2	5.68	
>C ₁₀₋₁₂ TPH Band	27.4	13.7	43.9	43.7	30.5	13	
>C ₁₂₋₁₆ TPH Band	54.6	27.9	83.1	105	51.2	19.4	
>C ₁₆₋₂₁ TPH Band	50.1	27.3	82.7	97	45.2	19.6	
>C ₂₁₋₃₅ TPH Band	1.57	1.21	3.85	7.58	4.14	3.68	

Table Fifteen: TPH (Banded) Analysis Results – 13th November 2019

Analyte	Sample Details and Results (mg/kg)						
	TP201	TP201	TP202	TP202	TP203	TP203	TP203
	S1	S2	S1	S2	S2	S4	S6
	0.4m	1.5m	1.0m	1.5m	0.4m	0.4m	0.4m
Benzene	<0.1	<0.1	0.813	0.259	7.18	2.92	0.307
Toluene	<0.1	<0.1	1.14	<0.1	48.4	5.74	2.01
Ethylbenzene	<0.1	<0.1	11.7	0.224	22.5	6.38	6.3
p+m Xylene	<0.1	<0.1	25	0.494	79.7	19.2	17.5
o Xylene	<0.1	<0.1	0.914	<0.1	24.4	2.68	1.94

Table Sixteen: BTEX Analysis Results – 13th November 2019

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Analyte	Sample Details and Results (mg/kg)					
	TP201	TP201	TP202	TP203	TP203	TP203
	S1	S2	S1	S2	S4	S6
	0.4m	1.5m	1.0m	0.4m	0.4m	0.4m
C ₆₋₈ Aliphatic TPH	<2.5	<2.5	41.1	207	34.3	71.9
>C ₈₋₁₀ Aliphatic TPH	<2.5	<2.5	68.3	296	68.7	101
>C ₁₀₋₁₂ Aliphatic TPH	<2.5	<2.5	<2.5	76.6	15.5	22.3
>C ₁₂₋₁₆ Aliphatic TPH	<5	<5	<5	227	55.2	42.5
>C ₁₆₋₂₁ Aliphatic TPH	<5	<5	<5	201	48	37.5
>C ₂₁₋₃₅ Aliphatic TPH	<10	<10	<10	48.8	<10	<10
C ₆₋₈ Aromatic TPH	<1	<1	1.95	55.6	8.66	2.32
>C ₈₋₁₀ Aromatic TPH	<1	<1	61.4	242	58.6	82.8
>C ₁₀₋₁₂ Aromatic TPH	<1	<1	1.74	52	16.4	26.7
>C ₁₂₋₁₆ Aromatic TPH	<2.5	<2.5	<2.5	135	33.7	26.4
>C ₁₆₋₂₁ Aromatic TPH	<2.5	<2.5	<2.5	107	22.6	18.6
>C ₂₁₋₃₅ Aromatic TPH	<2.5	<2.5	<2.5	21.4	3.21	<2.5
Table Seventeen: TPH (speciated) Analysis Results – 13 th November 2019						
Analyte	Sample Details and Results (mg/kg)					
	TP201			TP203		
	S1			S2		
	0.4m			0.4m		
Naphthalene	0.49			10.7		
Acenaphthylene	< 0.1			< 0.1		
Acenaphthene	< 0.1			< 0.1		
Fluorene	< 0.1			< 0.1		
Phenanthrene	0.87			2.11		
Anthracene	< 0.1			< 0.1		
Fluoranthene	0.23			0.53		
Pyrene	0.23			0.64		
Benzo(a)anthracene	0.13			0.34		
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Analyte	Sample Details and Results (mg/kg)	
	TP201	TP203
	S1	S2
	0.4m	0.4m
Chrysene	0.2	0.34
Benzo(b)fluoranthene	0.18	0.27
Benzo(k)fluoranthene	< 0.1	< 0.1
Benzo(a)pyrene	< 0.1	0.16
Dibenzo(ah)anthracene	< 0.1	< 0.1
Benzo(ghi)perylene	< 0.1	< 0.1
Total PAHs (EPA16)	2.3	15.1

Table Eighteen: PAH Analysis Results – 13th November 2019

Analyte	Sample Details and Results (mg/kg)	
	TP201	TP203
	S1	S2
	0.4m	0.4m
Arsenic	7	8
Barium	53	59
Beryllium	< 0.5	< 0.5
Boron (Water Soluble)	1.5	< 1
Cadmium	3.7	1.9
Chromium	8	8
Chromium (Hexavalent)	< 2	< 2
Copper	17	18
Lead	751	488
Mercury	< 1	< 1
Nickel	7	6
Selenium	< 3	< 3
Vanadium	10	12
Zinc	610	399

Table Nineteen: CLEA Metals Analysis Results – 13th November 2019

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3.5 Soil Sampling Visit Four- 22nd November 2019

Work Completed By Contractor	Our Observations and Recommendations
Williams had removed the two abandoned tanks, identified during our last visit. The hydrocarbon impacted material from the front of the site had been stockpiled and was awaiting removal from the site. Williams had broken through the base of the concrete cradle of the abandoned tanks in preparation for our sampling visit. The remainder of the concrete cradle was left in place. For safety reasons, following removal of the abandoned tanks, the excavations were backfilled with inert Type 2 fill.	We attended site to collect verification samples from beneath the two abandoned tanks (after they had been removed) (TP301 / TP302) and from excavation following removal of the forecourt interceptor (EX101). Hydrocarbon impacted sands encountered around the tanks (within the concrete cradle) was removed and stockpiled for off-site disposal. The soil we observed underneath the cradles where the two tanks had been removed consisted of stiff brown slightly sandy clay. We did not observe any hydrocarbon staining and the PID results indicated no significant hydrocarbon impact in these samples. Geology in the vicinity of the former forecourt interceptor was proved to comprise Made Ground ~1.2m depth, underlain by stiff grey brown clay. The eastern wall of the excavation had some black hydrocarbon staining in the shallow soils. Samples collected were sent to our laboratory and analysed for TPH (banded and speciated), and BTEX. The results of our hydrocarbon analysis are provided as Tables Twenty One to Twenty Three and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure Four and as Attachment Two.

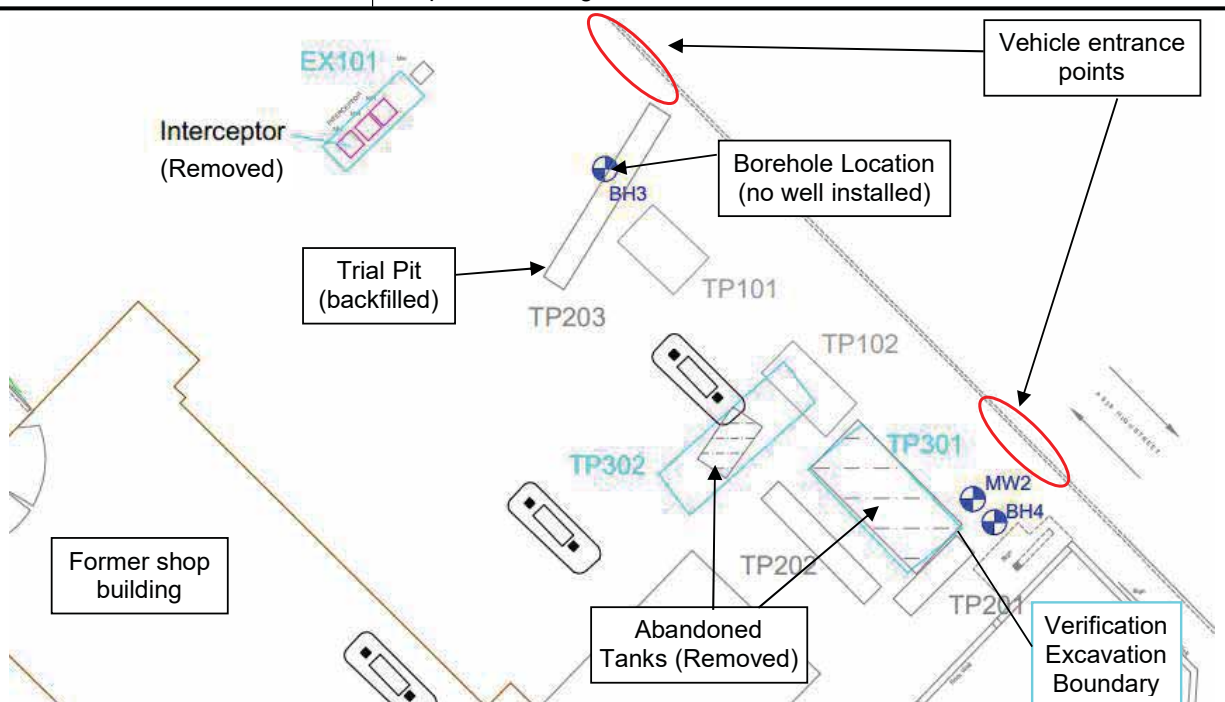


Figure Four: Sampling Location - 22nd November 2019

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Photograph Eighteen - Abandoned tanks removed from the site.



Photograph Nineteen - EX301 - Small slurry filled tank location



Photograph Twenty - EX301 - Concrete cradle of abandoned tanks visible.



Photograph Twenty-One - EX301, excavation extended to allow delineation of the observed possible hydrocarbon impact.

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Photograph Twenty-Two - Forecourt interceptor empty and ready for removal.



Photograph Twenty-Three - Interceptor being removed. Western wall visible



Photograph Twenty-Four - Interceptor being removed. Large concrete cradle on eastern wall. Impacted soil beyond cradle



Photograph Twenty-Five - Interceptor and concrete cradle removed.

Table Twenty: Details of Site Visit – 22nd November 2019

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3.5.1 Analytical results - 22nd November 2019

Analyte	Sample Details and Results (mg/kg)			
	TP301	TP301	TP302	TP302
	S5	S8	S1	S6
	3.0m	2.0m	1.5m	2.0m
C ₆₋₈ Aliphatic TPH	<5	11	19.6	<5
>C ₈₋₁₀ Aliphatic TPH	<5	64.7	8.07	<5
>C ₁₀₋₁₂ Aliphatic TPH	<2.5	207	6.52	<2.5
>C ₁₂₋₁₆ Aliphatic TPH	<5	588	14.7	<5
>C ₁₆₋₂₁ Aliphatic TPH	<5	687	16.3	<5
>C ₂₁₋₃₅ Aliphatic TPH	<10	167	<10	<10
C ₆₋₈ Aromatic TPH	<5	<5	<5	<5
>C ₈₋₁₀ Aromatic TPH	<5	363	22.5	7.32
>C ₁₀₋₁₂ Aromatic TPH	<1	129	6	<1
>C ₁₂₋₁₆ Aromatic TPH	<2.5	320	9.28	<2.5
>C ₁₆₋₂₁ Aromatic TPH	<2.5	327	6.85	<2.5
>C ₂₁₋₃₅ Aromatic TPH	<2.5	86.9	<2.5	<2.5

Table Twenty-one: TPH (speciated) Analysis Results - Soil – 22nd November 2019

Analyte	Sample Details and Results (mg/kg)			
	TP301	TP301	TP302	TP302
	S5	S8	S1	S6
	3.0m	2.0m	1.5m	2.0m
MTBE	<5	<5	<5	<5
Benzene	<1	<1	<1	<1
Toluene	<1	2.82	2.42	<1
Ethylbenzene	<1	17.8	1.92	<1
p+m Xylene	<1	76.4	7.3	1.99
o Xylene	<1	35.7	2.4	<1

Table Twenty-two: BTEX Analysis Results - Soil – 22nd November 2019

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Analyte	Sample Details and Results (mg/kg)						
	EX101	EX101	EX101	EX101	EX101	TP301	TP301
	S1	S2	S3	S5	S6	S2	S4
	1.5m	1.5m	2.0m	3.5m	3.5m	1.5m	2.5m
C ₆₋₈ TPH Band	<5	11.9	<5	<5	<5	<5	21.2
>C ₈₋₁₀ TPH Band	<5	20.9	<5	<5	<5	<5	33.4
>C ₁₀₋₁₂ TPH Band	<0.5	2.93	<0.5	<0.5	<0.5	<0.5	30.3
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	69.3
>C ₁₆₋₂₁ TPH Band	0.892	0.518	5.98	<0.5	<0.5	0.724	77.7
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	9.2	<0.5	<0.5	83.1	12.4
Analyte	TP301	TP301	TP302	TP302	TP302	TP302	
	S6	S7	S2	S3	S4	S5	
	3.0m	3.0m	2.5m	2.5m	2.5m	2.5m	
C ₆₋₈ TPH Band	<5	<5	<5	38.2	<5	109	
>C ₈₋₁₀ TPH Band	<5	<5	7.9	60.6	<5	147	
>C ₁₀₋₁₂ TPH Band	<0.5	<0.5	2.65	43.3	<0.5	48.6	
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	0.868	101	<0.5	120	
>C ₁₆₋₂₁ TPH Band	<0.5	<0.5	0.77	98	0.726	110	
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	12.7	<0.5	21.9	
Table Twenty-three: TPH (banded) Analysis Results - Soil – 22 nd November 2019							

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3.6 Soil Sampling Visit Five - 26th November 2019

Work Completed By Contractor	Our Observations and Recommendations
while installing the new interceptor (adjacent to the former interceptor location), Williams encountered a third and fourth abandoned underground tank. Both tanks were constructed from steel and had been concrete slurry filled. The tanks were found installed directly into the underlying soils, with no bund structure encountered. Williams had dug around and removed the third tank to allow them to install the new interceptor.	We attended site to collect samples from around and beneath the third and fourth abandoned tanks after they had been removed (EX201). The geology encountered while removing the tanks remained consistent with previous observations, there was some shallow Made Ground to ~1.0m depth which appeared to be impacted by hydrocarbons (black staining and odour), followed by stiff grey brown clay that did not appear to be impacted. Hydrocarbon impacted soils from shallow depth (top ~1.0m) around the tanks were stockpiled separately for off-site disposal. The tanks had an estimated capacity of ~4,500litres and were installed directly into the ground (no cradle). They were installed to ~2.0m depth. The excavation that had been dug to install the new interceptor was ~3.0m deep, we noted slow water ingress ~2.8m depth. This water did not have any visible hydrocarbon sheen. Samples collected were sent to our laboratory and analysed for TPH and BTEX. The results of our hydrocarbon analysis are provided as Tables Twenty Five and Twenty Six and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure Five and as Attachment Two.

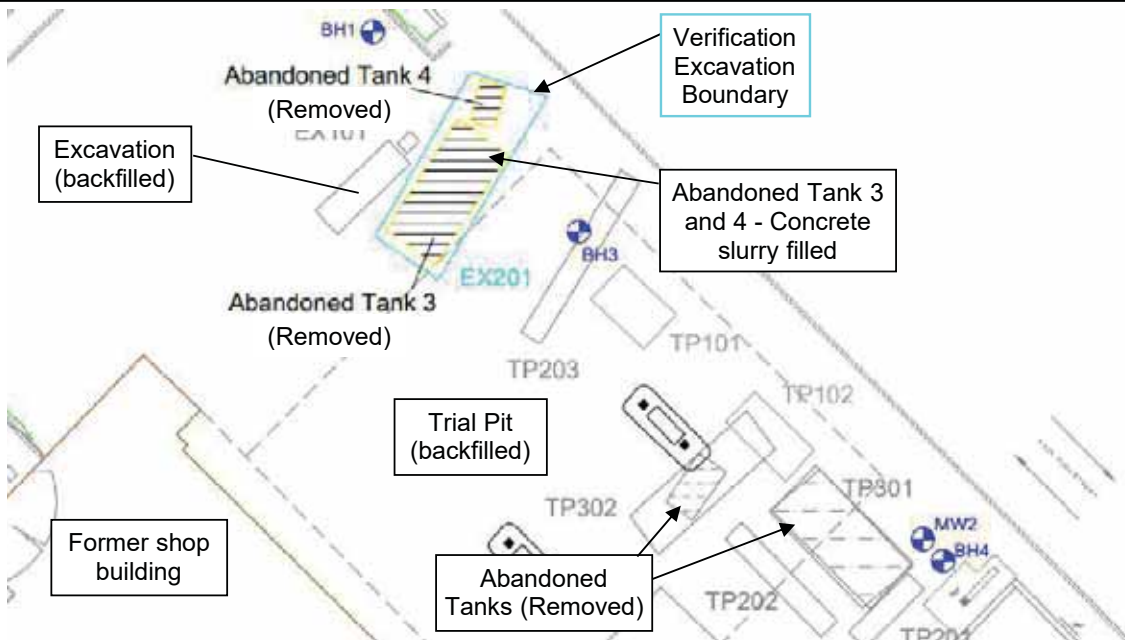


Figure Five: Sampling Location - 26th November 2019

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Photograph Twenty-Six - Third abandoned tank found adjacent to the old interceptor. Concrete slurry filled.



Photograph Twenty-Seven- Abandoned tank #3 after it had been removed



Photograph Twenty-Eight - EX201 following removal of third abandoned tank. Fourth abandoned tank visible in northern wall of the excavation.



Photograph Twenty-Nine - EX201, excavation prepared for interceptor installation. Water pooling at the base of the excavation.

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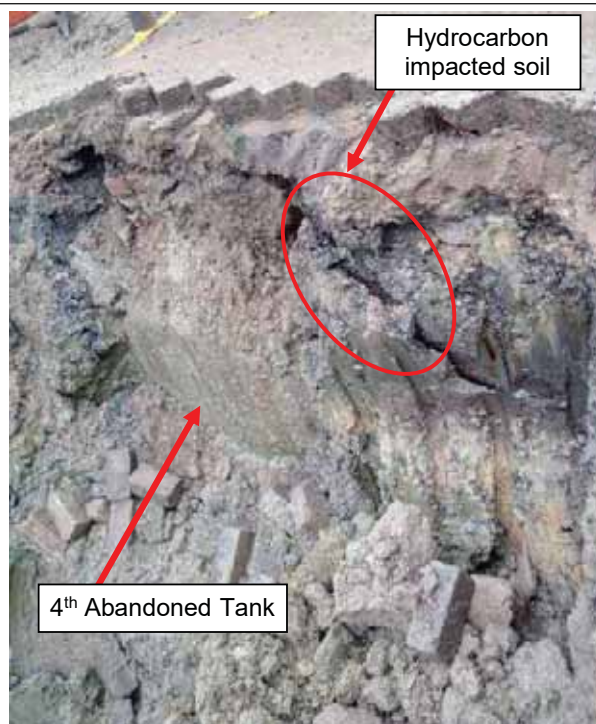
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Photograph Thirty - Fourth abandoned tank - hydrocarbon impacted soil visible at shallow depth.



Photograph Thirty-One - Abandoned tank being removed

Table Twenty-four: Details of Site Visit – 26th November 2019

3.6.1 Analytical results - 26th November 2019

Analyte	Sample Details and Results (mg/kg)						
	EX201	EX201	EX201	EX201	EX201	EX201	EX201
	S1	S2	S3	S4	S5	S6	S7
	3.0m	3.0m	3.0m	3.0m	2.0m	2.0m	2.0m
C ₆₋₈ TPH Band	<5	12.7	<5	<5	<5	<5	<5
>C ₈₋₁₀ TPH Band	3.83	22.9	<5	<5	5.45	<5	7.93
>C ₁₀₋₁₂ TPH Band	<0.5	0.716	<0.5	<0.5	<0.5	<0.5	4.34
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.79
>C ₁₆₋₂₁ TPH Band	<0.5	0.529	0.514	0.576	0.63	0.68	4.9
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Analyte	Sample Details and Results (mg/kg)						
	EX201	EX201	EX201	EX201	EX201	EX201	EX201
	S8	S9	S10	S11	S12	S13	S14
	2.0m	0.5m	0.5m	0.5m	1.5m	1.5m	1.5m
C ₆₋₈ TPH Band	24.6	466	111	65.5	94.8	116	42.4
>C ₈₋₁₀ TPH Band	22.3	537	89.3	39.9	79.3	60.6	47
>C ₁₀₋₁₂ TPH Band	3.73	36.2	8.65	3.51	18.5	22.9	18.7
>C ₁₂₋₁₆ TPH Band	<0.5	4.62	0.756	<0.5	0.821	0.729	<0.5
>C ₁₆₋₂₁ TPH Band	0.609	0.676	0.676	0.614	0.516	<0.5	<0.5
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	<0.5	<0.5	1.54	1.89	1.68

Analyte	Sample Details and Results (mg/kg)						
	EX201	EX201	EX201	EX201	EX201	EX201	
	S15	S16	S17	S18	S19	S20	
	1.0m	0.5m	0.5m	0.5m	0.5m	0.5m	
C ₆₋₈ TPH Band	108	54.5	96.5	125	40.4	41.4	
>C ₈₋₁₀ TPH Band	96.2	43.9	128	96.5	60.3	100	
>C ₁₀₋₁₂ TPH Band	190	2.57	28.5	82.4	9.47	17.1	
>C ₁₂₋₁₆ TPH Band	314	<0.5	7.5	15.4	0.589	2.4	
>C ₁₆₋₂₁ TPH Band	295	0.742	5.81	1.32	0.505	1.5	
>C ₂₁₋₃₅ TPH Band	123	0.507	4.05	<0.5	<0.5	<0.5	

Table Twenty-five: TPH (banded) Analysis Results - Soil – 26th November 2019

Analyte	Sample Details and Results (mg/kg)						
	EX201	EX201	EX201	EX201	EX201	EX201	EX201
	S1	S2	S3	S4	S5	S6	S7
	3.0m	3.0m	3.0m	3.0m	2.0m	2.0m	2.0m
MTBE	<5	<5	<5	<5	<5	<5	<5
Benzene	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
p+m Xylene	<1	1.34	<1	<1	<1	<1	1.53
o Xylene	<1	<1	<1	<1	<1	<1	<1

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Analyte	Sample Details and Results (mg/kg)						
	EX201	EX201	EX201	EX201	EX201	EX201	EX201
	S8	S9	S10	S11	S12	S13	S14
	2.0m	0.5m	0.5m	0.5m	1.5m	1.5m	1.5m
MTBE	<5	21.9	5.37	<5	<5	6.01	<5
Benzene	<1	4.64	1.09	<1	<1	<1	<1
Toluene	<1	5.44	1.19	5.28	<1	9.34	4.55
Ethylbenzene	<1	16.6	3.66	2.65	3.36	5.43	3.59
p+m Xylene	<1	5.46	1.85	3.6	<1	4.12	2.92
o Xylene	<1	3.24	<1	2.11	<1	4.81	3.33
Analyte	EX201	EX201	EX201	EX201	EX201	EX201	
	S15	S16	S17	S18	S19	S20	
	1.0m	0.5m	0.5m	0.5m	0.5m	0.5m	
MTBE	7.75	8.15	17.5	5.5	5.72	<5	
Benzene	2.44	5.5	<1	1.48	3.73	2.1	
Toluene	3.19	1.11	2.54	2.98	<1	<1	
Ethylbenzene	3.46	2.33	5.38	4.57	2.65	4.34	
p+m Xylene	13	6.52	14.6	2.67	8.39	11.8	
o Xylene	5.61	3.14	5.97	6.94	2.3	3.9	

Table Twenty-six: TPH (banded) Analysis Results - Soil – 26th November 2019

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3.7 Soil Sampling Visit Six - 29th November 2019

Work Completed By Contractor

Williams found a fifth abandoned underground tank in the entrance to the site while digging to install new drainage lines. The underground tank was constructed from steel, and encased in a concrete cradle. The tank was a split compartment tank, one compartment was concrete slurry filled, while the other compartment was empty.

Williams had exposed the tank, and cleaned the empty compartment prior to our arrival on site.

Our Observations and Recommendations

We attended site to collect samples from around and beneath the fifth abandoned tank following its removal and to oversee a the removal of shallow contaminated material from near the site boundary (EX301 / 302).

The fifth abandoned tank had an estimated capacity of ~9,000litres. With the concrete cradle present, the tank extended to ~2.5m below ground level. We did not observe any water entering the excavation following the removal of the tank.

We also oversaw the digging of a drainage line along the boundary of the site, extending from the northern side of the fifth tank to the east and west.

The geology we encountered was consistent with previous visits; comprising shallow impacted Made Ground, overlying stiff grey brown clay that did not appear to be impacted by hydrocarbons.

Samples collected from both our excavations (EX301 and EX302) were sent to our laboratory and analysed for TPH, and BTEX. The results of our analysis are provided as Tables Twenty Eight and Twenty Nine and full laboratory certificates are provided as Attachment Three. Sample locations are provided in Figure Six and as Attachment Two.

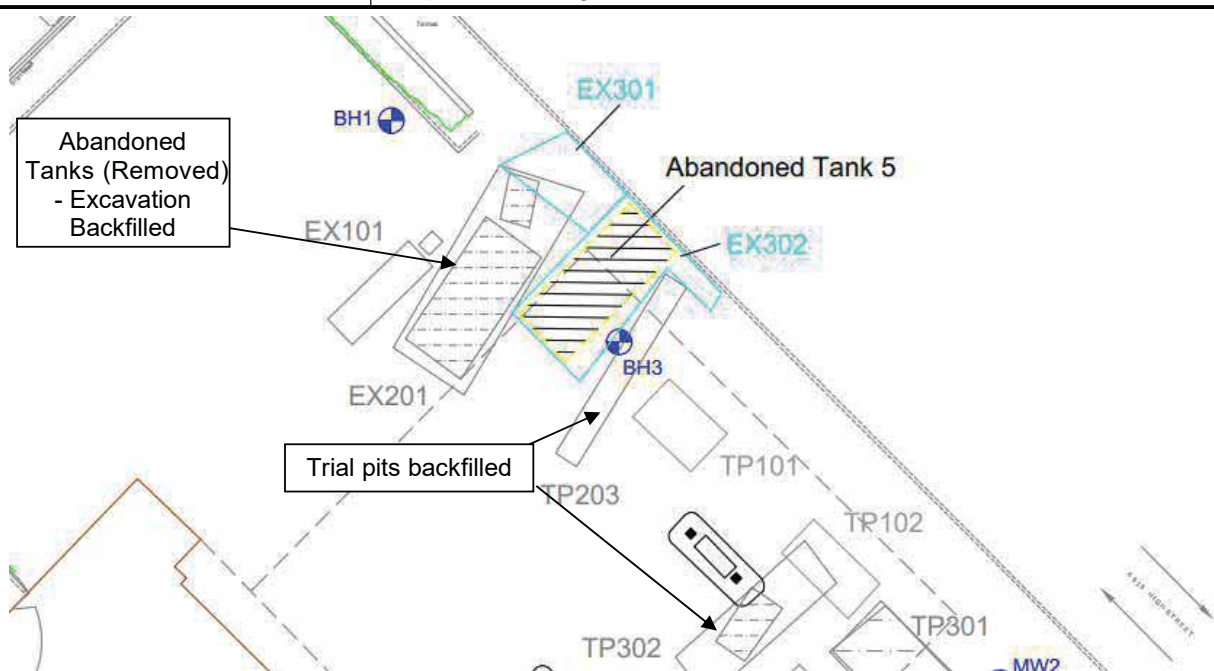


Figure Six: Sampling Location - 29th November 2019

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Photograph Thirty-Two - Overlooking construction site towards fifth abandoned tank



Photograph Thirty-Three- Fifth abandoned tank being cleaned and emptied before removal

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Photograph Thirty-Four - Abandoned Tank 5



Photograph Thirty-Five - Visible brown "Clean" Clay exposed around abandoned Tank 5



Photograph Thirty-Six - Concrete cradle remaining after Abandoned Tank 5 has been removed



Photograph Thirty-Seven - Clean clay visible on the excavation walls - imported fill from previous impacted soil removal visible

Table Twenty-seven: Details of Site Visit – 29th November 2019

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3.7.1 Analytical results

Analyte	Sample Details and Results (mg/kg)						
	EX301	EX301	EX301	EX302	EX302	EX302	EX302
	S1	S2	S3	S1	S2	S3	S4
	2.5m	2.5m	3.0m	0.5m	0.5m	0.5m	0.5m
C ₆₋₈ TPH Band	431	71.6	7.3	15.8	18.2	4.16	8.98
>C ₈₋₁₀ TPH Band	758	94	8.39	25.6	31	8.02	23
>C ₁₀₋₁₂ TPH Band	141	34.7	11	18.1	52.7	43	45.2
>C ₁₂₋₁₆ TPH Band	30.8	5.52	<0.5	19.4	46.7	33.1	68.8
>C ₁₆₋₂₁ TPH Band	1.52	<0.5	<0.5	14.4	36.8	22	60.6
>C ₂₁₋₃₅ TPH Band	1.21	0.525	<0.5	1.44	11	3.95	8.41
Analyte	EX302	EX302	EX302	EX302	EX302	EX302	EX302
	S5	S6	S7	S8	S9	S10	S11
	0.5m	1.5m	1.5m	1.5m	0.5m	0.5m	0.5m
C ₆₋₈ TPH Band	2.27	<0.5	<1.0	<1.0	2.58	8.82	23.1
>C ₈₋₁₀ TPH Band	4.67	<0.5	<1.0	<1.0	12.2	17.8	35.4
>C ₁₀₋₁₂ TPH Band	39.9	<0.5	<0.5	<0.5	22.4	15.8	82.5
>C ₁₂₋₁₆ TPH Band	30.6	<0.5	<0.5	<0.5	21.2	22.5	249
>C ₁₆₋₂₁ TPH Band	16.6	0.571	<0.5	0.559	15.3	22	330
>C ₂₁₋₃₅ TPH Band	1.62	<0.5	<0.5	<0.5	<0.5	2.65	184
Analyte	EX302	EX302	EX302	EX302	EX302	EX302	EX302
	S12	S13	S14	S15	S16	S17	S18
	2.5m	2.5m	2.5m	2.5m	3.5m	3.5m	3.5m
C ₆₋₈ TPH Band	<1.5	<1.0	2.91	<1.5	<0.5	<0.5	<1.0
>C ₈₋₁₀ TPH Band	<1.5	<1.0	6.89	<1.5	1.73	1.18	<1.0
>C ₁₀₋₁₂ TPH Band	1.24	0.682	15.9	9.44	3.22	1.22	<0.5
>C ₁₂₋₁₆ TPH Band	<0.5	<0.5	20.6	21.4	3.17	0.818	<0.5
>C ₁₆₋₂₁ TPH Band	0.949	1.16	17.3	20.6	4.84	2.43	0.561
>C ₂₁₋₃₅ TPH Band	<0.5	<0.5	1.93	1.36	0.881	0.674	<0.5

Table Twenty-eight: TPH (banded) Analysis Results - Soil – 29th November 2019

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Analyte	Sample Details and Results (mg/kg)						
	EX301	EX301	EX301	EX302	EX302	EX302	EX302
	S1	S2	S3	S1	S2	S3	S4
	2.5m	2.5m	3.0m	0.5m	0.5m	0.5m	0.5m
MTBE	18.8	4.29	<0.5	<1.5	1.28	<0.5	<1.0
Benzene	1.26	<1	<0.1	<0.3	<0.2	0.196	0.458
Toluene	6.99	1.45	0.968	1.91	2.44	1.42	1.72
Ethylbenzene	10.8	2.44	0.5	0.888	1.15	0.375	0.884
p+m Xylene	10.5	5.3	1.5	2.76	3.87	1.4	3.82
o Xylene	5.06	1.99	0.566	1.17	1.54	0.636	1.54
Analyte	EX302	EX302	EX302	EX302	EX302	EX302	EX302
	S5	S6	S7	S8	S9	S10	S11
	0.5m	1.5m	1.5m	1.5m	0.5m	0.5m	0.5m
MTBE	<0.5	4.6	<1.0	<1.0	<0.5	<1.0	3.14
Benzene	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.3
Toluene	0.37	<0.1	<0.2	<0.2	0.706	1.04	0.845
Ethylbenzene	0.211	<0.1	<0.2	<0.2	0.56	0.652	0.794
p+m Xylene	0.708	<0.1	<0.2	<0.2	2.48	2.81	2.45
o Xylene	0.266	<0.1	<0.2	<0.2	1.14	1.07	0.954
Analyte	EX302	EX302	EX302	EX302	EX302	EX302	EX302
	S12	S13	S14	S15	S16	S17	S18
	2.5m	2.5m	2.5m	2.5m	3.5m	3.5m	3.5m
MTBE	1.92	<1.0	1.25	<1.5	<0.5	<0.5	1.65
Benzene	<0.3	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2
Toluene	<0.3	<0.2	0.658	<0.3	0.209	0.137	<0.2
Ethylbenzene	<0.3	<0.2	0.339	<0.3	<0.1	<0.1	<0.2
p+m Xylene	<0.3	<0.2	1.31	<0.3	0.388	0.293	<0.2
o Xylene	<0.3	<0.2	0.571	<0.3	0.211	0.154	<0.2
Table Twenty-nine: BTEX Analysis Results - Soil – 29th November 2019							

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3.8 Summary of Remedial Works Completed

During the course of the redevelopment works, we identified shallow impacted soils along the north eastern edge of the former forecourt adjacent to High Street. We consider the identified contamination to be associated with historical petroleum infrastructure (total of five abandoned tanks and associated fuel supply lines) encountered.

Our sampling works confirmed and the hydrocarbon impact was predominantly present in shallow Made Ground material to between ~0.5m and ~1.0m depth. Impacted soils were characterised by dark staining and a hydrocarbon odour. Underlying the shallow impacted Made Ground, we encountered firm to stiff, yellow brown, clay. This clay had prevented verification migration of hydrocarbons and limited the extent of the contamination we identified.

During the various sampling works Williams excavated impacted soils from across the front portion of the site. An estimated 300tonnes of hydrocarbon impacted soil (15loads) has been removed. Copies of the waste transfer notes are included as Attachment Five. A plan showing the area where impacted soil has been removed is provided as Figure Seven below.

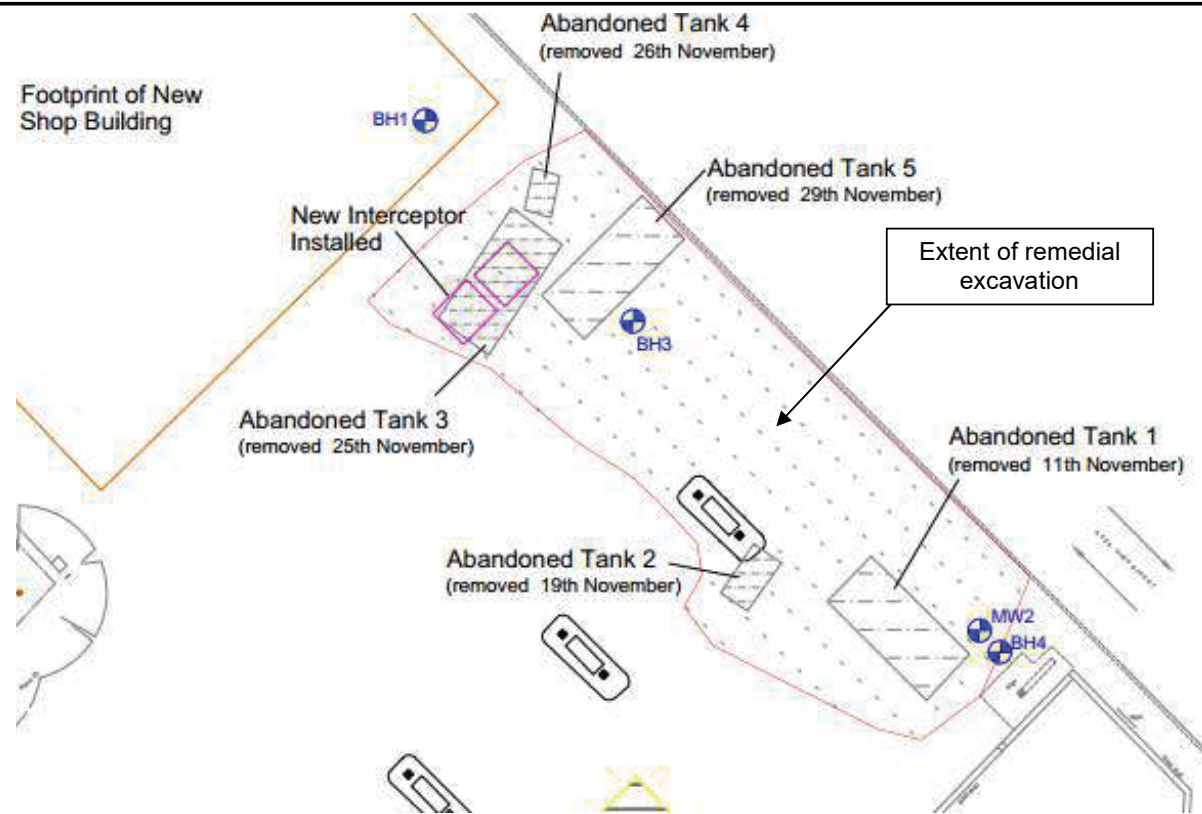


Figure Seven - Summary of Remedial Excavations

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4 Conclusions

We have visited the site on six occasions during the redevelopment works and collected representative soil samples for subsequent chemical analysis. Selected samples have been analysed for compounds likely to be deriving from petrol and diesel, as well as for waste classification purposes.

A total of two known fuel tanks (with a combined total of five compartments) and five additional previously unidentified abandoned tanks have been removed from the site as part of the redevelopment works. The sites former interceptor has been removed, along with the former pipework associated with the various historical fuel infrastructure. New underground storage tanks, fuel lines and interceptor have been installed.

The geology we encountered during the redevelopment works was consistent with our previous observations. We encountered a (generally) thin layer of Made Ground, comprising clayey sand and gravel and characterised by fragments of brick, concrete and wood. The underlying geology comprised yellow brown to grey slightly sandy clay, which we interpret as being Glacial Till Deposits, followed by friable clay or grey highly weathered mudstone which we interpreted as part of the Lower Pennine Coal Measures. We encountered inconsistent perched groundwater; with some water pooling in the base of some of our deeper excavations and shallow water encountered in Made Ground across the front portion of the site.

We identified residual hydrocarbon impact in soil samples collected from shallow depths at the front of the site. Williams have excavated and removed a total of ~300tonnes of hydrocarbon impacted material from the site during the redevelopment.

Based on our site assessment reports (Ref. 1 - Ref. 3), our on-site observations, and the results of our verification soil sampling analysis, we consider the soil remaining in place at the site does not contain concentrations of hydrocarbons in excess of Generic Acceptance Criteria, assuming a commercial end use. We do not consider any further excavation remedial work is required at the site. On this basis, we consider the site does not pose a potential long term risk to the identified receptors and is considered suitable for continued use as a retail filling station.

Waste classification analysis data was provided to William Southern throughout the works program to allow them to classify any waste soils excavated from the site.

Conclusions reached in this report refer only to the areas of the site we sampled and not necessarily to the site as a whole. As at any filling station, abandoned fuel storage tanks, fuel pipework or other areas impacted by hydrocarbons may still exist at the site. Our conclusions do not necessarily apply to soil in these areas.

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**ATTACHMENT ONE:
NOTICE TO INTERESTED PARTIES**

Client: The Co-operative Group Ltd

Report

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NOTICE TO INTERESTED PARTIES

The purpose of our work is to provide general information on the environmental and/or geotechnical conditions existing at the site and related to soil and/or groundwater. The Client or others specified the scope of the investigation and the validity of our conclusions is limited by the scope of work specified. We are not responsible for any such limitations or omissions.

Where stated in this report, we have used information supplied by third parties. While we have evaluated as far as possible the validity of this information, we cannot guarantee its accuracy in any way whatsoever.

No investigation technique is capable of completely identifying all of the contaminants that might be present in the soil or groundwater under a site. Where specified in our report, we have examined the ground by constructing a number of boreholes and/or trial pits. We recovered samples of soil and/or groundwater from available exposures.

The depth and spacing of our Sampling locations were selected to ensure with a reasonable probability that they would be representative of the actual conditions across the whole site. However, safety considerations relating to existing site infrastructure may have restricted our ability to investigate all potential contaminant sources. Specifically, we were unable to investigate the soil and groundwater condition immediately adjacent to the underground structures and/or buried services. These limitations must be borne in mind when considering the conclusions reached in this report.

Soil is intrinsically variable and the spread of contaminants within the soil is therefore subject to a degree of non-uniformity. For these reasons no sampling technique can completely eliminate the possibility of obtaining samples that are not representative of the actual conditions. Our sampling techniques are intended to reduce the possibility to an acceptable level, within the limits imposed by the scope of the investigation.

Groundwater levels and soil vapour levels that we report were accurate at the time of the investigation. Groundwater and soil vapour levels are variable. Long term monitoring may be required to ensure that the levels recorded during our investigation are representative of long term and possible 'worst case' conditions. In accepting our recommendations and/or conclusions the Client acknowledges that further, more detailed investigation would allow a more accurate assessment of site conditions to be made and that this would reduce any consequential risk to the Client.

Our investigation was carried out to assess the significance of contamination resulting from use of the site as identified in this report. Unless we have indicated otherwise, no assessment of the potential impact of any other previous uses has been made. No investigation was carried out to determine whether or not any deleterious or hazardous materials (such as asbestos) have been used in the construction of the buildings present on the site. Unless otherwise stated no investigation or assessment has been made of the presence or otherwise of invasive plant species including but not limited to Japanese Knotweed.

Unless specifically stated otherwise, we have not assessed the effect of any proposed future construction activities on existing structures on or near to the site. Nor, unless stated otherwise, have we assessed the likely effect of trees on existing or proposed structures on or near the site.

We do not accept any responsibility for the cost of remedial works or other costs incurred in whatever way whatsoever as a result of any omissions, errors or other shortcomings in this report unless we have been given reasonable opportunity to verify ourselves that such faults exist and we have been given a reasonable opportunity to carry out works to remedy such faults ourselves using the most practicable means available to us. We do not accept liability for any consequential losses incurred by you while either we or others carry out any remedial works we deem necessary.

This report has been prepared for the Client, as specified on the cover page of this report. In accepting our recommendations and/or conclusions the Client accepts that the terms of our appointment were as detailed in the Proposal, or Proposals, that we provided to the Client before being appointed and that these terms supersede any other terms and/or conditions set out in any contracts agreed between ourselves and the Client, regardless of when such terms and/or conditions were agreed to by us and/or signed by us.

Use of, and reliance on, this report by other third parties will be at such third parties own risk, and we do not accept any liability or responsibility to them.

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**ATTACHMENT TWO:
SOIL VERIFICATION SAMPLING LOCATION PLANS**

Client: The Co-operative Group Ltd

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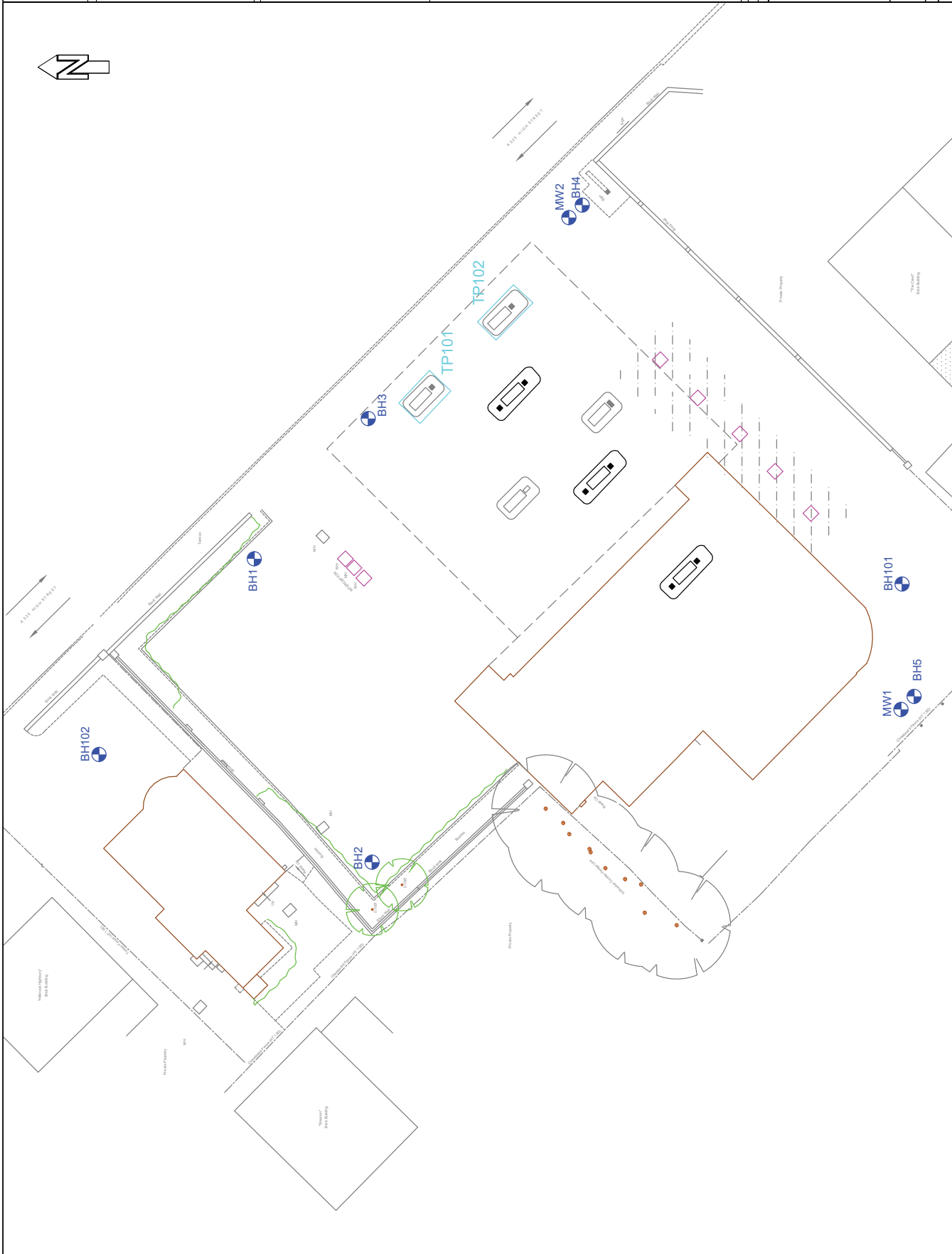
LEGEND

●	Boreholes 2017 - 2019
■	TP or Excavation - This round of Sampling
□	TP or Excavation - Backfilled
▨	Underground Fuel Tank
▩	Underground Tank - Removed

[illegible]

V	DATE	DESCRIPTION

THE LOCATION:					
CO-08 PFS COESPOETH HIGH STREET WREXHAM LL11 3UF					
SAMPLE TYPE:					
VERIFICATION SAMPLING LOCATIONS					
APPROVED BY:	SVS LTD	DATE:	PC		
APPROVED BY:	SVS LTD	DATE:	PC		
DRAWN BY:	M/S/AW	DATE:	PC		
DRAWN BY:	M/S/AW	DATE:	PC		
ISSUED NO:	P17129	DR004	20-01-2017		
ISSUED NO:	P17129	DR004	20-01-2017		
SHEET NO:	1	OF 1	REV:		



DISCLAIMER: THE LOCATION OF UNDER GROUND SERVICES SHOWN ON THIS DRAWING HAS BEEN DETERMINED USING ELECTRO-MAGNETIC (AND/OR) GROUND PROBING RADAR, WHERE REQUESTED. TECHNIQUES AND VISUAL OBSERVATIONS. THE LIMITATIONS OF THIS DRAWING SHOULD BE REALIZED AND NO WARRANTY CAN BE GIVEN THAT ALL SERVICES HAVE BEEN IDENTIFIED. THIS DRAWING MAY NOT INCLUDE THE LOCATION OF ALL PUBLIC SERVICES THAT MAY CROSS THE SITE AND THEREFORE THE RELEVANT SERVICE DIAMETERS SHOULD BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY AND USED IN CONJUNCTION WITH THIS DRAWING. ADDITIONAL SERVICES, STRUCTURES OR OTHER BELOW GROUND OBSTRUCTIONS NOT INDICATED ON THIS DRAWING MAY BE PRESENT OR IN THE FUTURE. THESE SERVICES SHOULD BE LOCATED BY ANOTHER METHOD. LOCATION ACCURACY IS DETERMINED BY MANUFACTURERS' GUIDELINES FOR THE SYSTEM.



Unit 13, Triangle Business Park
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Fax. 01296 739401

[illegible]

-  Boreholes 2017 - 2019
 TP or Excavation - This round of Sampling
 TP or Excavation - Backfilled
 Underground Fuel Tank

[illegible][illegible]

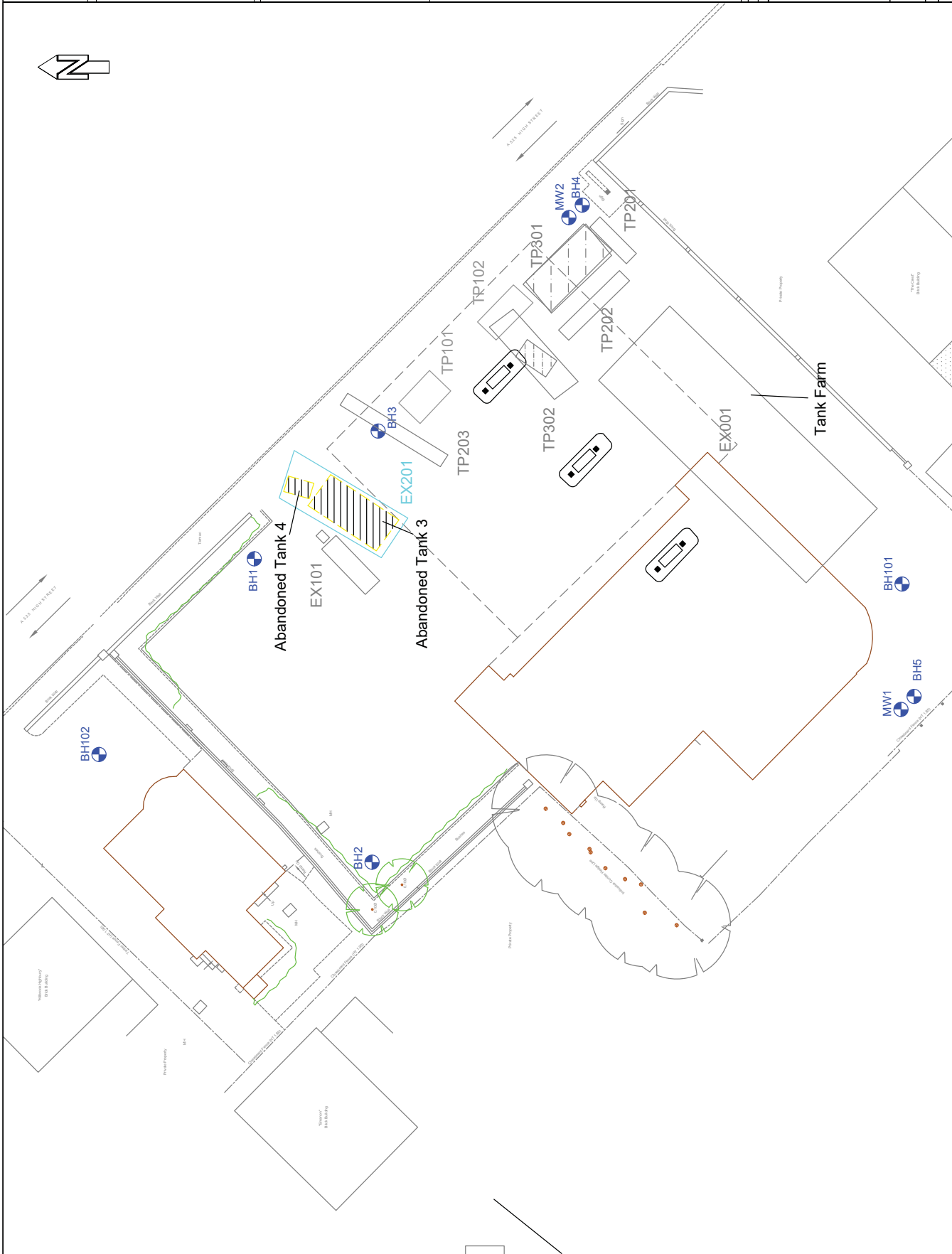
IV	DATE	DESCRIPTION

CO-OP PFS COESPOETH
HIGH STREET
WREXHAM
LL11 3UF

DRAWING TITLE: VERIFICATION SAMPLING LOCATION	DRAWN BY: MS/AW	APPROVED BY: PC
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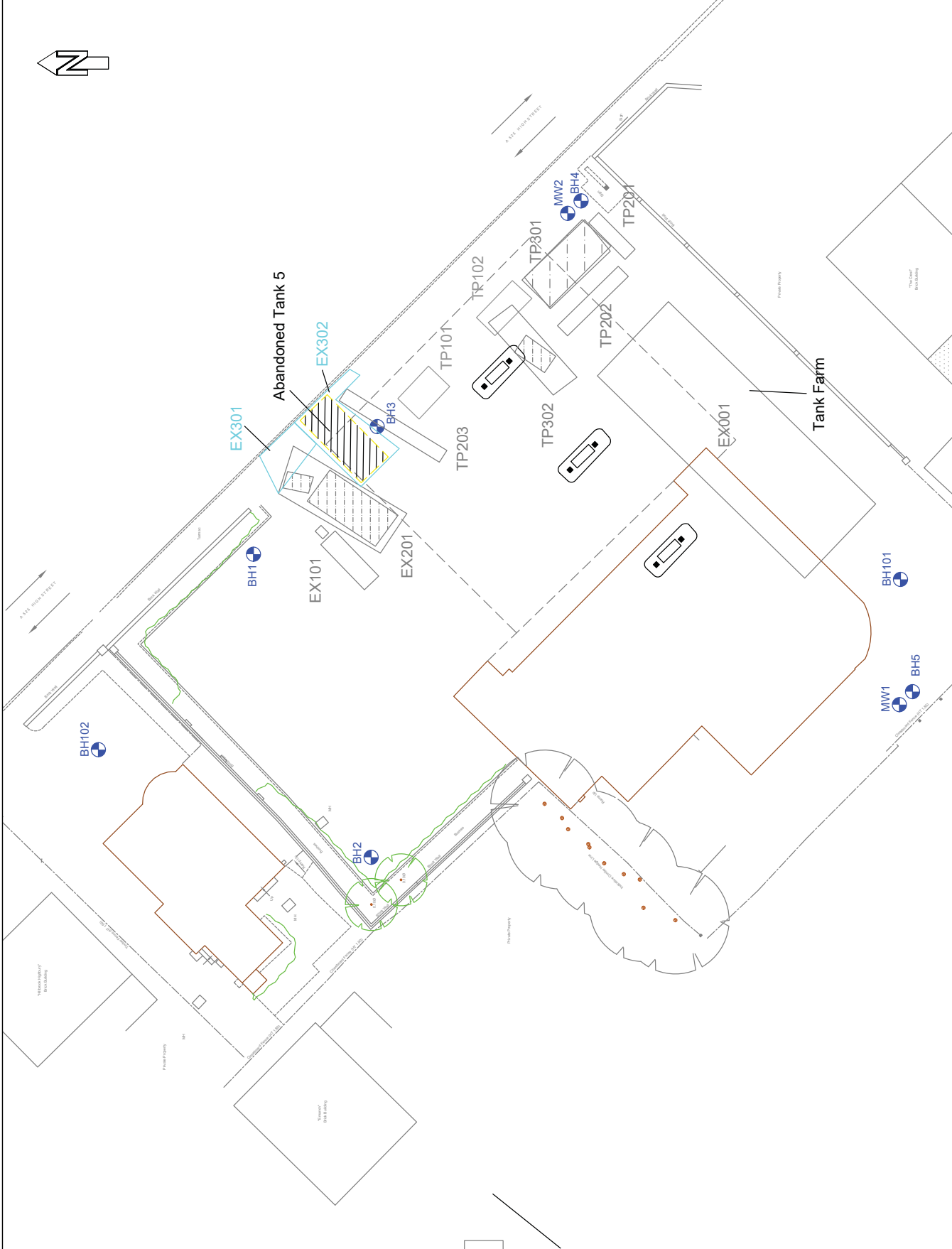
DRAWING NO: P17129 DRO03	SURVEY DATE: 24-01-2017
SHEET NO: 1 OF 1	
REV:	

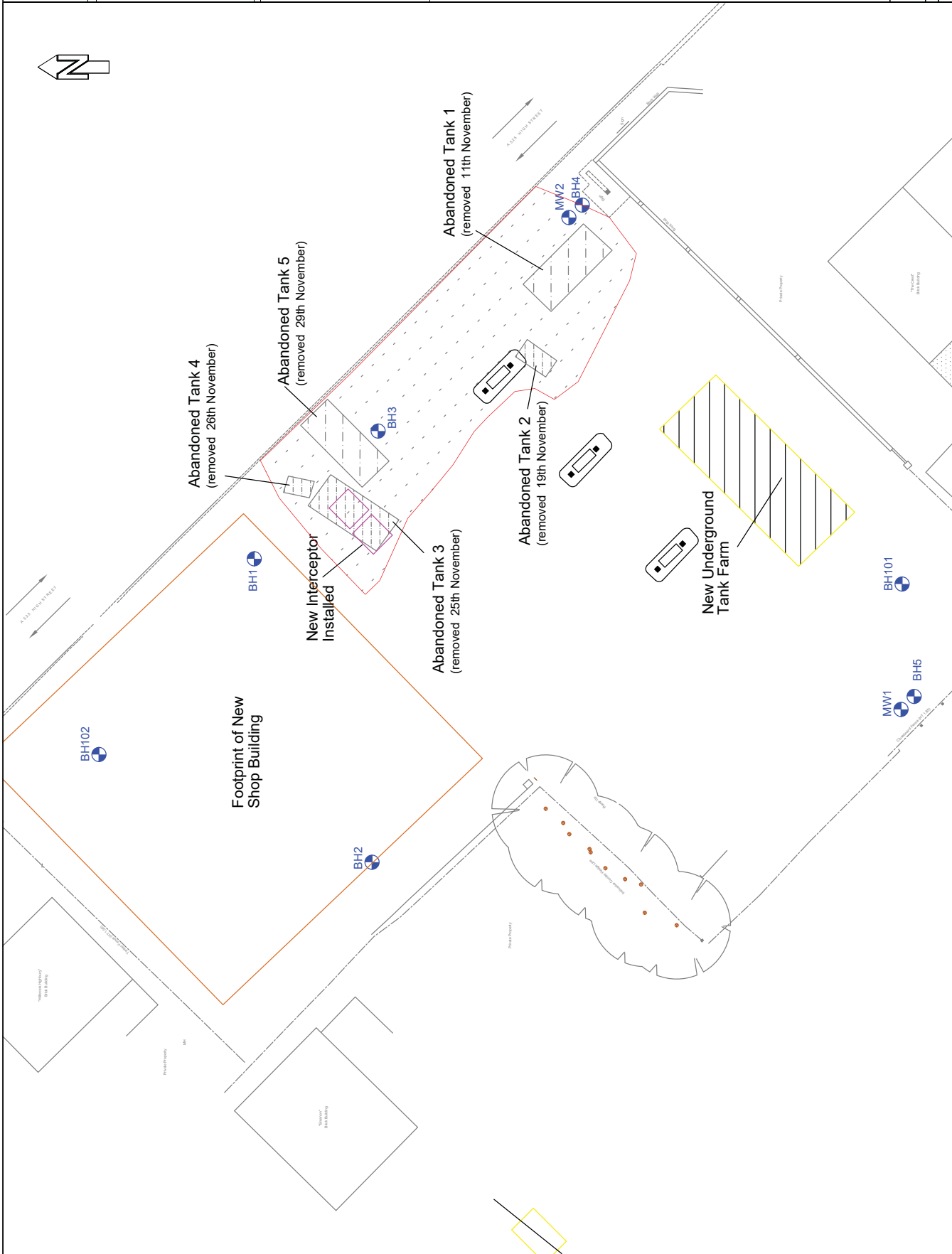
DISCLAIMER: THE LOCATION OF UNDER GROUND SERVICES SHOWN ON THIS DRAWING HAS BEEN DETERMINED USING ELECTRO-MAGNETIC (AND/OR) GROUND PROBING (GPR), WHERE REQUESTED) TECHNIQUES AND VISUAL OBSERVATIONS. THE LIMITATIONS OF THIS DRAWING SHOULD BE REALIZED AND NO GUARANTEE CAN BE GIVEN THAT ALL SERVICES HAVE BEEN IDENTIFIED. THIS DRAWING MAY NOT INCLUDE THE LOCATION OF ALL PUBLIC SERVICES THAT MAY CROSS THE SITE AND THEREFORE THE RELEVANT SERVICE DRAWINGS SHOULD BE USED IN CONJUNCTION WITH THIS DRAWING. ADDITIONAL SERVICES, STRUCTURES OR OTHER BELOW GROUND OBSTRUCTIONS NOT INDICATED ON THIS DRAWING MAY BE PRESENT ON SITE. REFERENCE SHOULD BE MADE TO HISTORICAL PLANS AND AS-BUILT DRAWINGS. EXCAVATIONS IN VICINITY OF SERVICES SHOULD BE CARRIED OUT WITH DUE DILIGENCE (HSE047 DOCUMENT) AVOIDING DAMAGES FROM UNDERGROUND SERVICES. LOCATION ACCURACY IS DETERMINED BY MANUFACTURERS' GUIDELINES FOR THE SYSTEMS

[illegible]

CP17129_0R007	SHEET NO:	24-01-2017
	1 OF 1	REV:

[illegible]

[illegible]



LEGEND

	Boreholes 2017 - 2019
	Contaminated soil removed
	TP or Excavation - Backfilled
	Underground Fuel Tank
	Underground Tank - Removed

[illegible]

	CO-98 FEE GOESPOETH HIGH STREET WREXHAM LL11 3UF	VERIFICATION SAMPLING LOCATIONS	MS/AW
		PERFORMANCE AND COMPARISON WITH PREVIOUS YEARS	SVS LTD MS/AW

[illegible]

Petrol Coedpoeth, Coedpoeth

SUBADRA

Environmental • Geotechnical • Laboratory • Foundations

13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT THREE:
LABORATORY ANALYSIS CERTIFICATES**

Client: The Co-operative Group Ltd

Report	CP17129 CL 007
Date	December 2019
Page	Attachment Three - 1

Report No 07569



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	20th August 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 20th August 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP101	TP101	TP101	TP102						
			S3	S4	S5	S4						
			1.00m	1.00m	1.00m	1.00m						
C6-C8 TPH Band ²	mg/kg	0.5	3.46	2.9	2.96	13.2						
>C8-C10 TPH Band ²	mg/kg	0.5	3.5	3.03	3.05	24.1						
>C10-12 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5						
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5						
>C16-21 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5						
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5						



Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID

2. UKAS 17025



Chain of Custody	19592	Analysed	RC 29/08/19
Received	RC 22/08/19	Reported	KC 03/09/19
Prepared	RC 29/08/19	Page	One of One

Report No 07576



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	20th August 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH CWG - 20th August 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP101	TP101	TP102	TP102	TP102	TP102				
			S1	S2	S1	S2	S3	S5				
			0.60m	0.60m	0.40m	0.50m	0.40m	1.00m				
C6-8 Aliphatic TPH ²	mg/kg	2.5	1170	763	598	462	118	7.11				
>C8-10 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	<2.5	<2.5	15.3				
>C10-12 Aliphatic TPH ²	mg/kg	2.5	691	437	577	673	274	4.99				
>C12-16 Aliphatic TPH ²	mg/kg	5	1770	990	1690	792	565	<5				
>C16-21 Aliphatic TPH ²	mg/kg	5	1420	845	1400	454	489	<5				
>C21-35 Aliphatic TPH ²	mg/kg	10	286	99.2	142	<10	147	<10				
C6-8 Aromatic TPH ²	mg/kg	1	556	121	251	116	21.5	<1				
>C8-10 Aromatic TPH ²	mg/kg	1	3210	1560	1570	1430	893	8.94				
>C10-12 Aromatic TPH ²	mg/kg	1	286	102	405	663	191	12.3				
>C12-16 Aromatic TPH ²	mg/kg	2.5	381	152	481	465	416	4.24				
>C16-21 Aromatic TPH ²	mg/kg	2.5	153	57.7	158	119	299	<2.5				
>C21-35 Aromatic TPH ²	mg/kg	2.5	89.3	14.7	10.7	20.8	43.1	<2.5				



Method: ; IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by followed by separation into aliphatic and aromatic fractions using SPE and analysis by GC-FID

2. UKAS 17025

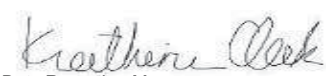


Chain of Custody	19591	Analysed	RC 03/09/19
Received	RC 22/08/19	Reported	KC 04/09/19
Prepared	RC 03/09/19	Page	One of One

Report No 07570



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	20th August 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - BTEX and MTBE - 20th August 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP101	TP101	TP101	TP102	TP102	TP102	TP102			
			S1	S2	S3	S1	S2	S3	S5			
			0.60m	0.60m	1.00m	0.40m	0.50m	0.40m	1.00m			
MTBE ²	mg/kg	0.5	155	74.4	1.06	107	55.4	<0.5	1.69			
Benzene ¹	mg/kg	0.1	160	82.4	<0.1	87.7	61.3	15.3	<0.1			
Toluene ¹	mg/kg	0.1	396	38.3	0.116	163	54.4	6.21	0.694			
Ethylbenzene ¹	mg/kg	0.1	112	73.7	<0.1	47.7	30.1	26.6	<0.1			
p+m Xylene ¹	mg/kg	0.1	482	181	0.244	186	85.8	49	2.58			
o Xylene ¹	mg/kg	0.1	222	<0.1	<0.1	82.7	44.1	15.6	<0.1			



Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID

1. MCerts
2. UKAS 17025



Chain of Custody	19593	Analysed	RC 03/09/19
Received	RC 22/08/19	Reported	KC 03/09/19
Prepared	RC 29/08/19	Page	One of One

E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2																																	
Report No:		7543		Landfill Waste Acceptance Criteria Limits <table border="1"> <thead> <tr> <th>Inert Waste Landfill</th> <th>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</th> <th>Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td>3%</td> <td>5%</td> <td>6%</td> </tr> <tr> <td>--</td> <td>--</td> <td>10%</td> </tr> <tr> <td>6</td> <td>--</td> <td>--</td> </tr> <tr> <td>1</td> <td>--</td> <td>--</td> </tr> <tr> <td>500</td> <td>--</td> <td>--</td> </tr> <tr> <td>100</td> <td>--</td> <td>--</td> </tr> <tr> <td>--</td> <td>>6</td> <td>--</td> </tr> <tr> <td>--</td> <td>To be evaluated</td> <td>To be evaluated</td> </tr> </tbody> </table>			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
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3%	5%	6%																															
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6	--	--																															
1	--	--																															
500	--	--																															
100	--	--																															
--	>6	--																															
--	To be evaluated	To be evaluated																															
Site Reference:		Petrol Coedpoeth, Coedpoeth																															
Project / Job Ref:		CP17129																															
TP / BH No:	TP101	Depth (m)	0.60																														
Sample No:	S2																																
Date Sampled:	20/08/2019	Reporting Date:	22/08/2019																														
Determinand	Unit	MDL																															
TOC ^S	%	< 0.1	3																														
Loss on Ignition ^S	%	<0.01	8.80																														
BTEX ^S	mg/kg	<0.05	652																														
Sum of PCBs ^S	mg/kg	<0.7	< 0.1																														
Mineral Oil (C10-C40) ^S	mg/kg	<10	5301																														
Total PAH ^S	mg/kg	<1.7	22.2																														
pH ^S	pH Units	+ / - 0.1	10.0																														
Acid Neutralisation Capacity ^S	mol/kg (+/-)	<1	1.5																														
Eluate Analysis			10:1 mg/l	Converted 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)																												
Arsenic ^S			0.01	0.1	0.5	25																											
Barium ^S			0.02	0.2	20	300																											
Cadmium ^S			< 0.0005	< 0.005	0.04	5																											
Chromium ^S			< 0.005	< 0.05	0.5	70																											
Copper ^S			0.02	0.2	2	100																											
Mercury ^S			< 0.0005	< 0.01	0.01	2																											
Molybdenum ^S			0.014	0.14	0.5	30																											
Nickel ^S			< 0.007	< 0.07	0.4	40																											
Lead ^S			0.007	0.07	0.5	50																											
Antimony ^S			0.0111	0.11	0.06	5																											
Selenium ^S			0.008	0.08	0.1	7																											
Zinc ^S			< 0.005	< 0.05	4	200																											
Chloride ^S			31	306	800	25000																											
Fluoride ^S			< 0.5	< 5	10	500																											
Sulphate ^S			15	146	1000	50000																											
TDS ^S			185	1850	4000	100000																											
Phenol Index ^S			0.03	0.3	1	-																											
DOC ^S			63.6	636	500	1000																											
Leach Test Information <table border="1"> <tr> <td>Sample Mass (kg)</td> <td></td> </tr> <tr> <td>Dry Matter (%)</td> <td></td> </tr> <tr> <td>Moisture (%)</td> <td></td> </tr> </table>							Sample Mass (kg)		Dry Matter (%)		Moisture (%)																						
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Results are expressed on a dry weight basis, after correction for moisture content where applicable. Stated limits are for guidance only and Fast Analysis cannot be held responsible for any discrepancies with current legislation U denotes UKAS accredited test S denotes subcontracted test n.d. Result not determined																																	
Released By			Kate Clark	Laboratory Manager																													

E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

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--	To be evaluated	To be evaluated																															
Site Reference:		Petrol Coedpoeth, Coedpoeth																															
Project / Job Ref:		CP17129																															
TP / BH No:	TP102	Depth (m)	0.50																														
Sample No:	S2																																
Date Sampled:	20/08/2019	Reporting Date:	22/08/2019																														
Determinand	Unit	MDL																															
TOC ^S	%	< 0.1	4																														
Loss on Ignition ^S	%	<0.01	9.60																														
BTEXS	mg/kg	<0.05	319																														
Sum of PCBs ^S	mg/kg	<0.7	< 0.1																														
Mineral Oil (C10-C40) ^S	mg/kg	<10	11242																														
Total PAH ^S	mg/kg	<1.7	130																														
pH ^S	pH Units	+ / - 0.1	8.2																														
Acid Neutralisation Capacity ^S	mol/kg (+/-)	<1	1.2																														
Eluate Analysis			10:1 mg/l	Converted 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)																												
Arsenic ^S		< 0.01	< 0.1	0.5	2	25																											
Barium ^S		< 0.02	< 0.2	20	100	300																											
Cadmium ^S		< 0.0005	< 0.005	0.04	1	5																											
Chromium ^S		< 0.005	< 0.05	0.5	10	70																											
Copper ^S		0.03	0.3	2	50	100																											
Mercury ^S		< 0.0005	< 0.01	0.01	0.2	2																											
Molybdenum ^S		0.022	0.22	0.5	10	30																											
Nickel ^S		< 0.007	< 0.07	0.4	10	40																											
Lead ^S		0.011	0.11	0.5	10	50																											
Antimony ^S		0.0150	0.15	0.06	0.7	5																											
Selenium ^S		< 0.005	< 0.05	0.1	0.5	7																											
Zinc ^S		0.016	0.16	4	50	200																											
Chloride ^S		34	340	800	15000	25000																											
Fluoride ^S		< 0.5	< 5	10	150	500																											
Sulphate ^S		7	66	1000	20000	50000																											
TDS ^S		139	1390	4000	60000	100000																											
Phenol Index ^S		0.38	3.8	1	-	-																											
DOC ^S		108	1080	500	800	1000																											
Leach Test Information <table border="1"> <tbody> <tr> <td>Sample Mass (kg)</td> <td>0.11</td> </tr> <tr> <td>Dry Matter (%)</td> <td>83.3</td> </tr> <tr> <td>Moisture (%)</td> <td>20.2</td> </tr> </tbody> </table>							Sample Mass (kg)	0.11	Dry Matter (%)	83.3	Moisture (%)	20.2																					
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Site Reference:		Petrol Coedpoeth, Coedpoeth																															
Project / Job Ref:		CP17129																															
TP / BH No:	TP102	Depth (m)	1.00																														
Sample No:	S5																																
Date Sampled:	20/08/2019	Reporting Date:	22/08/2019																														
Determinand	Unit	MDL																															
TOC ^S	%	< 0.1	1.6																														
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Barium ^S		< 0.02	< 0.2	20	100	300																											
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Chromium ^S		0.007	0.07	0.5	10	70																											
Copper ^S		0.04	0.4	2	50	100																											
Mercury ^S		< 0.0005	< 0.01	0.01	0.2	2																											
Molybdenum ^S		0.004	0.04	0.5	10	30																											
Nickel ^S		0.013	0.13	0.4	10	40																											
Lead ^S		0.027	0.27	0.5	10	50																											
Antimony ^S		< 0.0060	< 0.06	0.06	0.7	5																											
Selenium ^S		< 0.005	< 0.05	0.1	0.5	7																											
Zinc ^S		0.039	0.39	4	50	200																											
Chloride ^S		49	487	800	15000	25000																											
Fluoride ^S		< 0.5	< 5	10	150	500																											
Sulphate ^S		2	19	1000	20000	50000																											
TDS ^S		121	1210	4000	60000	100000																											
Phenol Index ^S		0.03	0.3	1	-	-																											
DOC ^S		42	420	500	800	1000																											
Leach Test Information																																	
Sample Mass (kg)			0.12																														
Dry Matter (%)			77.6																														
Moisture (%)			29																														
Results are expressed on a dry weight basis, after correction for moisture content where applicable. Stated limits are for guidance only and Fast Analysis cannot be held responsible for any discrepancies with current legislation U denotes UKAS accredited test S denotes subcontracted test n.d. Result not determined																																	
Released By		<i>Katherine Clark</i>		Kate Clark		Laboratory Manager																											

Report No 07640



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	 Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001
			S1	S5	S6	S7	S8	S10	S11	S12	S16	S18
			4.00m	2.50m	2.50m	4.00m	4.00m	2.50m	4.00m	2.50m	4.00m	2.50m
C6-C8 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<1	<1.5	<0.5
>C8-C10 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	1.89	<1	<1.5	1.01
>C10-12 TPH Band ²	mg/kg	0.5	3.92	<0.5	<0.5	9.61	<0.5	3.74	23.7	31.9	3.19	44.1
>C12-16 TPH Band ²	mg/kg	0.5	8.17	0.56	<0.5	9.61	<0.5	4.56	23.6	87.4	7.34	60.7
>C16-21 TPH Band ²	mg/kg	0.5	4.97	0.659	<0.5	2.26	<0.5	2.28	11.2	53.7	3.72	12.1
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.08	598	15.8	3.12	21.5



Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID

2. UKAS 17025



Chain of Custody	19714	Analysed	RC 06/09/19
Received	RC 05/09/19	Reported	KC 12/09/19
Prepared	RC 06/09/19	Page	One of Two

Report No 07640



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - TPH Banded - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001
			S19	S20	S21	S23	S24	S26	S28	S29	S31	S32
			2.50m	2.50m	2.50m	4.00m	4.00m	4.00m	4.00m	4.00m	4.00m	4.00m
C6-C8 TPH Band ²	mg/kg	0.5	<0.5	<1.5	<1	<0.5	<1.5	<1	<1.5	<1	<1.5	<1.5
>C8-C10 TPH Band ²	mg/kg	0.5	<0.5	<1.5	<1	1.26	<1.5	<1	<1.5	<1	<1.5	<1.5
>C10-12 TPH Band ²	mg/kg	0.5	0.843	<0.5	<0.5	23.6	<0.5	<0.5	<0.5	<0.5	0.641	1.31
>C12-16 TPH Band ²	mg/kg	0.5	0.981	0.878	<0.5	59.2	0.556	<0.5	<0.5	<0.5	1.85	2.63
>C16-21 TPH Band ²	mg/kg	0.5	1.32	1.38	<0.5	45.3	0.827	<0.5	<0.5	<0.5	2.12	2.31
>C21-35 TPH Band ²	mg/kg	0.5	60.3	0.575	<0.5	23.9	<0.5	<0.5	<0.5	<0.5	1.64	0.679



Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID

2. UKAS 17025



Chain of Custody	19714	Analysed	RC 06/09/19
Received	RC 05/09/19	Reported	KC 12/09/19
Prepared	RC 06/09/19	Page	Two of Two

Report No 07626



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH CWG - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001					
			S3	S4	S14	S17	S30					
			4.00m	4.00m	4.00m	2.50m	4.00m					
C6-8 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	<2.5	<2.5					
>C8-10 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	17	<2.5					
>C10-12 Aliphatic TPH ²	mg/kg	2.5	45.2	<2.5	<2.5	205	<2.5					
>C12-16 Aliphatic TPH ²	mg/kg	5	82.7	<5	<5	278	5.07					
>C16-21 Aliphatic TPH ²	mg/kg	5	53.1	<5	<5	52.9	<5					
>C21-35 Aliphatic TPH ²	mg/kg	10	63	<10	<10	136	<10					
C6-8 Aromatic TPH ²	mg/kg	1	<1	<1	<1	<1	<1					
>C8-10 Aromatic TPH ²	mg/kg	1	<1	<1	<1	5.44	<1					
>C10-12 Aromatic TPH ²	mg/kg	1	9.44	<1	<1	54.7	<1					
>C12-16 Aromatic TPH ²	mg/kg	2.5	32.8	<2.5	<2.5	104	3.18					
>C16-21 Aromatic TPH ²	mg/kg	2.5	20.7	<2.5	<2.5	48.1	<2.5					
>C21-35 Aromatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	95.4	<2.5					



Method: ; IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by followed by separation into aliphatic and aromatic fractions using SPE and analysis by GC-FID

2. UKAS 17025



Chain of Custody	19715	Analysed	RC 10/09/19
Received	RC 05/09/19	Reported	KC 11/09/19
Prepared	RC 06/09/19	Page	One of One

Report No 07625



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - BTEX and MTBE - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001	EX001
			S1	S3	S4	S9	S11	S13	S17	S18	S22	S23
			4.00m	4.00m	4.00m	4.00m	4.00m	4.00m	2.50m	2.50m	4.00m	4.00m
MTBE ²	mg/kg	0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene ¹	mg/kg	0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene ¹	mg/kg	0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene ¹	mg/kg	0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p+m Xylene ¹	mg/kg	0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o Xylene ¹	mg/kg	0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	0.43	<0.1	<0.1	<0.1



Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID

1. MCerts
2. UKAS 17025

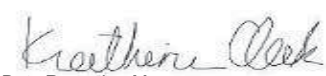


Chain of Custody	19712	Analysed	RC 10/09/19
Received	RC 05/09/19	Reported	KC 11/09/19
Prepared	RC 06/09/19	Page	One of Two

Report No 07625



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - BTEX and MTBE - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001					
			S24	S25	S27	S29	S32					
			4.00m	4.00m	4.00m	4.00m	4.00m					
MTBE ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Benzene ¹	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
Toluene ¹	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
Ethylbenzene ¹	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
p+m Xylene ¹	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
o Xylene ¹	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1					

		Method: IH QM: MS Soil Moisture Content; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID
		1. MCerts 2. UKAS 17025

	Chain of Custody	19712	Analysed	RC 10/09/19
	Received	RC 05/09/19	Reported	KC 11/09/19
	Prepared	RC 06/09/19	Page	Two of Two

Report No 07652



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - PAHs (EPA16) - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001					
			S2	S10	S12	S14	S20					
			2.50m	2.50m	2.50m	4.00m	2.50m					
Naphthalene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.86					
Acenaphthylene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Acenaphthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Fluorene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Phenanthrene ³	mg/kg	0.1	0.19	0.30	0.77	0.22	1.15					
Anthracene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Fluoranthene ³	mg/kg	0.1	< 0.1	0.27	0.75	0.18	0.29					
Pyrene ³	mg/kg	0.1	0.15	0.27	0.77	0.19	0.49					
Benzo(a)anthracene ³	mg/kg	0.1	< 0.1	< 0.1	0.64	< 0.1	0.27					
Chrysene ³	mg/kg	0.1	< 0.1	< 0.1	0.29	< 0.1	0.39					
Benzo(b)fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.29					
Benzo(k)fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Benzo(a)pyrene ³	mg/kg	0.1	< 0.1	< 0.1	0.48	< 0.1	0.23					
Indeno(1,2,3-cd)pyrene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Dibenzo(ah)anthracene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1					
Benzo(ghi)perylene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.43					
Total PAHs (EPA16) ³	mg/kg	1.6	< 1.6	< 1.6	3.7	< 1.6	4.4					

Method: Determination of PAH compounds by extration in acetone and hexane followed by GC-MS

3. Subcontracted

	Chain of Custody	19713	Analysed	RC 06/09/19
	Received	RC 05/09/19	Reported	KC 27/11/19
	Prepared	RC 10/09/19	Page	One of One

Report No 07653



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - CLEA metals plus Chromium VI - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX001	EX001	EX001	EX001	EX001					
			S2	S5	S6	S19	S21					
			2.50m	2.50m	2.50m	2.50m	2.50m					
Arsenic ³	mg/kg	2	11	27	8	10	20					
Barium ³	mg/kg	5	312	225	199	172	173					
Beryllium ³	mg/kg	0.5	0.9	4.0	0.9	1.0	2.3					
Boron (Water Soluble) ³	mg/kg	1	< 1	< 1	< 1	< 1	< 1					
Cadmium ³	mg/kg	0.2	0.3	0.5	< 0.2	0.4	0.3					
Chromium ³	mg/kg	2	16	14	15	13	4					
Chromium (Hexavalent) ³	mg/kg	2	< 2	< 2	< 2	< 2	< 2					
Copper ³	mg/kg	4	31	53	29	30	56					
Lead ³	mg/kg	3	130	24	98	169	33					
Mercury ³	mg/kg	1	< 1	< 1	< 1	< 1	< 1					
Nickel ³	mg/kg	3	31	15	29	34	72					
Selenium ³	mg/kg	3	< 3	< 3	< 3	< 3	< 3					
Vanadium ³	mg/kg	2	15	14	13	13	7					
Zinc ³	mg/kg	3	56	18	52	94	14					

Method: Determination of metals by aqua-regia digestion followed by ICP-OES.

3. Subcontracted



Chain of Custody	19717	Analysed	RC 06/09/19
Received	RC 05/09/19	Reported	KC 27/11/19
Prepared	RC 06/09/19	Page	One of One

E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2																																	
Report No:		7647		Landfill Waste Acceptance Criteria Limits <table border="1"> <thead> <tr> <th>Inert Waste Landfill</th> <th>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</th> <th>Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td>3%</td> <td>5%</td> <td>6%</td> </tr> <tr> <td>BB</td> <td>BB</td> <td>10%</td> </tr> <tr> <td>6</td> <td>BB</td> <td>BB</td> </tr> <tr> <td>1</td> <td>BB</td> <td>BB</td> </tr> <tr> <td>500</td> <td>BB</td> <td>BB</td> </tr> <tr> <td>100</td> <td>BB</td> <td>BB</td> </tr> <tr> <td>BB</td> <td>>6</td> <td>BB</td> </tr> <tr> <td>BB</td> <td>To bM Mr aur tMl</td> <td>To bM Mr aur tMl</td> </tr> </tbody> </table>			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	BB	BB	10%	6	BB	BB	1	BB	BB	500	BB	BB	100	BB	BB	BB	>6	BB	BB	To bM Mr aur tMl	To bM Mr aur tMl
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																															
3%	5%	6%																															
BB	BB	10%																															
6	BB	BB																															
1	BB	BB																															
500	BB	BB																															
100	BB	BB																															
BB	>6	BB																															
BB	To bM Mr aur tMl	To bM Mr aur tMl																															
Site Reference:		Petrol Coedpoeth, Coedpoeth																															
Project / Job Ref:		CP17129																															
TP / BH No:	EX001	Depth (m)	4.00																														
Sample No:	S14																																
Date Sampled:	04/09/2019	Reporting Date:	12/09/2019																														
Determinand	Unit	MDL																															
TOC ^S	%	< 0.1	1.3																														
Loss on Ignition ^S	%	<0.01	8.- 0																														
ETXm ^S	/ gkg	<0.05	0.- 0																														
Su/ of PCEs ^S	/ gkg	<0.1	< 0.1																														
7 inMr aOial C10BC80 ^(S)	/ gkg	<10	--																														
Totr aP4 ^S	/ gkg	<1.A	< 1.A																														
H ^S	Hj p nits	U kB0.1	+ .8																														
4 cid NMuter asr tion Cr H city ^S	/ oad2g lUK	<1	< 1																														
Eluate Analysis			10:1 mg/l	Converted 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)																												
4esMic ^S			< 0.01	< 0.1	0.5	- 5																											
Er eu/ ^S			0.03	0.3	- 0	100																											
Cr d/ iu/ ^S			< 0.0005	< 0.005	0.08	1																											
Ched/ iu/ ^S			< 0.005	< 0.05	0.5	10																											
CoHMe ^S			0.01	0.1	-	50																											
7 Mcuey ^S			< 0.0005	< 0.01	0.01	0.-																											
7 oaybdMhu/ ^S			0.00A	0.0A	0.5	10																											
Nic2M ^S			< 0.00A	< 0.0A	0.8	10																											
LM d ^S			< 0.005	< 0.05	0.5	10																											
4nti/ ony ^S			< 0.0060	< 0.06	0.06	0.A																											
SMhiu/ ^S			< 0.005	< 0.05	0.1	0.5																											
Zinc ^S			0.010	0.10	8	50																											
ChæddM ^S			8	35	+00	15000																											
FæoddM ^S			0.6	6	10	150																											
Suahr tM ^S			1-	1- 8	1000	- 0000																											
TDS ^S			+3	+30	8000	60000																											
PhMoalndM ^S			< 0.01	< 0.1	1	B																											
DOC ^S			11.-	11-	500	+00																											
Leach Test Information																																	
Sr / HM7 r ss l2g(			0.11																														
De y 7 r ttMl % (			+3.-																														
7 oistudMl % (			20.2																														
RMuás r eMMHæssMl on r dey wMght br sis, r fMtecoedMtion foe/ oistudMcontMnt whMMr Hæcr bMl Str tMl æl its r dMfoeguidr ncMony r nd Fr st 4 nr gysis cr nnot bMhMæ dMæHnsibæMfoer ny discædMæciMæ with cæMnt æMgæ sation p dMhotMæ p K4S r cædMtiMæ tMæ t S dMhotMæ subconter ctMl tMæ t n.d. RMuæ not dMMæ inMl																																	
RMæ t sMl Ey		<i>Kristhina Clark</i>		Kr tMæææ		Lr boæ toey 7 r nr gMæ																											

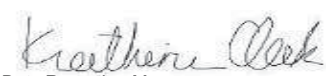
E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2									
Report No:		7647				Landfill Waste Acceptance Criteria Limits			
Site Reference:		Petrol Coedpoeth, Coedpoeth				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Project / Job Ref:		CP17129							
TP / BH No:	EX001	Depth (m)	2.50						
Sample No:	S17								
Date Sampled:	04/09/2019	Reporting Date:	12/09/2019						
Determinand	Unit	MDL							
TOC ^S	%	< 0.1	3.1	3%					
Loss on Ignition ^S	%	<0.01	+A0	BB					
ETXmS	/ gkg	<0.05	0.0+	6					
Su/ of PCEs ^S	/ gkg	<0.1	< 0.1	1					
7 inMr aOial C10BC80 ^(S)	/ gkg	<10	538	500					
Totr aP4 ^S	/ gkg	<1.A	8.9	100					
H ^S	Hj p nits	U kB0.1	10.1	BB					
4cid NMutr asr tion Cr H city ^S	/ oad2g lUK	<1	1.-	BB					
Eluate Analysis			10:1 mg/l	Converted 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)				
4esMic ^S		< 0.01	< 0.1	0.5	-	-	5		
Er eu/ ^S		< 0.-	< 0.-	- 0	100		300		
Cr d/ iu/ ^S		< 0.0005	< 0.005	0.08	1		5		
Chao/ iu/ ^S		< 0.005	< 0.05	0.5	10		A0		
CoHMe ^S		< 0.01	< 0.1	-	50		100		
7 Mcuey ^S		< 0.0005	< 0.01	0.01	0.-		-		
7 oaybdMhu/ ^S		0.01-	0.1-	0.5	10		30		
Nic2M ^S		< 0.00A	< 0.0A	0.8	10		80		
LM d ^S		< 0.005	< 0.05	0.5	10		50		
4nti/ ony ^S		< 0.0060	< 0.06	0.06	0.A		5		
SMhiu/ ^S		< 0.005	< 0.05	0.1	0.5		A		
Zinc ^S		< 0.005	< 0.05	8	50		- 00		
ChoadM ^S		10	9A	+00	15000		- 5000		
FaoadM ^S		0.6	6	10	150		500		
Suahr tM ^S		3+	3A6	1000	- 0000		50000		
TDS ^S		159	1591	8000	60000		100000		
PhMoalndM ^S		< 0.01	< 0.1	1	B		B		
DOC ^S		13.-	13-	500	+00		1000		
Leach Test Information									
Sr / HM7 r ss l2g(			0.10						
De y 7 r tMl % (			++.						
7 oistudMl % (			12.8						
RMuás r eMMHMsMl on r dey wMght br sis, r fMecoection foe/ oistudMcontMnt whMMr H-acr bM Str tMl á its r dMfoeguidr ncMonay r nd Fr st 4 nr gsis cr nnot bMhM dMhnsibaMfoer ny discdMhMciMs with cuamt dMgisa tion p dMhotMs p K4S r cceMtitMl tMst S dMhotMs subconter ctMl tMst n.d. RMuá not dMMf inMl									
RMt sMl Ey		<i>Kierthana Clark</i>		Kr tMCar d		Lr boer toey 7 r nr gMl			

Report No 07666



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	2nd September 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - Asbestos Screen - 2nd September 2019

Analyte	Unit	Method Detection Limit	Sample Details				
			EX001	EX001	EX001	EX001	EX001
			S2	S5	S6	S19	S21
			2.50m	2.50m	2.50m	2.50m	2.50m
Asbestos Screen ³	NA	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Asbestos Matrix ³	NA	0					
Asbestos Type ³	NA	0					

Method: Samples are screened by optical microscopy. Identification is performed using dispersion staining and polarised light microscopy.

3. Subcontracted

	Chain of Custody	19711	Analysed	RC 06/09/19
	Received	RC 05/09/19	Reported	KC 13/09/19
	Prepared	RC 06/09/19	Page	One of One

Report No 08180



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - TPH Banded - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP201	TP202	TP202	TP202	TP203	TP203	TP203	TP203	TP203	TP203
			S3	S2	S3	S4	S1	S3	S5	S7	S8	S9
			3.00m	1.50m	2.50m	3.00m	0.40m	0.40m	0.40m	1.50m	1.50m	1.50m
C6-C8 TPH Band ²	mg/kg	0.5	<0.5	<0.5	7.3	<0.5	190	116	26.3	5.62	19.3	11.2
>C8-C10 TPH Band ²	mg/kg	0.5	<0.5	0.977	4.44	<0.5	294	202	48.9	22	34.8	34.1
>C10-12 TPH Band ²	mg/kg	0.5	<0.5	<0.5	2.88	<0.5	97.4	80.7	13.9	27.4	13.7	43.9
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	<0.5	6.95	<0.5	296	244	19.6	54.6	27.9	83.1
>C16-21 TPH Band ²	mg/kg	0.5	<0.5	0.982	14.3	<0.5	262	219	19.1	50.1	27.3	82.7
>C21-35 TPH Band ²	mg/kg	0.5	1.39	14.3	59.1	<0.5	72.3	61.5	0.831	1.57	1.21	3.85



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20267	Analysed	RC 21/11/19
Received	BO 15/11/19	Reported	KC 25/11/19
Prepared	KC 19/11/19	Page	One of Two

Report No 08180



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - TPH Banded - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP203	TP203	TP203							
			S10	S11	S12							
			1.50m	1.50m	1.50m							
C6-C8 TPH Band ²	mg/kg	0.5	14.2	35.2	2.35							
>C8-C10 TPH Band ²	mg/kg	0.5	32.7	54.2	5.68							
>C10-12 TPH Band ²	mg/kg	0.5	43.7	30.5	13							
>C12-16 TPH Band ²	mg/kg	0.5	105	51.2	19.4							
>C16-21 TPH Band ²	mg/kg	0.5	97	45.2	19.6							
>C21-35 TPH Band ²	mg/kg	0.5	7.58	4.14	3.68							



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20267	Analysed	RC 21/11/19
Received	BO 15/11/19	Reported	KC 25/11/19
Prepared	KC 19/11/19	Page	Two of Two

Report No 08179



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Oak</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH CWG - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP201	TP201	TP202	TP203	TP203	TP203				
			S1	S2	S1	S2	S4	S6				
			0.40m	1.50m	1.00m	0.40m	0.40m	0.40m				
C6-8 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	41.1	207	34.3	71.9				
>C8-10 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	68.3	296	68.7	101				
>C10-12 Aliphatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	76.6	15.5	22.3				
>C12-16 Aliphatic TPH ²	mg/kg	5	<5	<5	<5	227	55.2	42.5				
>C16-21 Aliphatic TPH ²	mg/kg	5	<5	<5	<5	201	48	37.5				
>C21-35 Aliphatic TPH ²	mg/kg	10	<10	<10	<10	48.8	<10	<10				
C6-8 Aromatic TPH ²	mg/kg	1	<1	<1	1.95	55.6	8.66	2.32				
>C8-10 Aromatic TPH ²	mg/kg	1	<1	<1	61.4	242	58.6	82.8				
>C10-12 Aromatic TPH ²	mg/kg	1	<1	<1	1.74	52	16.4	26.7				
>C12-16 Aromatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	135	33.7	26.4				
>C16-21 Aromatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	107	22.6	18.6				
>C21-35 Aromatic TPH ²	mg/kg	2.5	<2.5	<2.5	<2.5	21.4	3.21	<2.5				



Method: ; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by followed by separation into aliphatic and aromatic fractions using SPE and analysis by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20266	Analysed	RC 22/11/19
Received	BO 15/11/19	Reported	KC 25/11/19
Prepared	KC 19/11/19	Page	One of One

Report No 08174



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP201	TP201	TP202	TP202	TP203	TP203	TP203			
			S1	S2	S1	S2	S2	S4	S6			
			0.40m	1.50m	1.00m	1.50m	0.40m	0.40m	0.40m			
MTBE ²	mg/kg	0.5	<0.5	<0.5	3.04	<0.5	12.5	1.85	4.39			
Benzene ¹	mg/kg	0.1	<0.1	<0.1	0.813	0.259	7.18	2.92	0.307			
Toluene ¹	mg/kg	0.1	<0.1	<0.1	1.14	<0.1	48.4	5.74	2.01			
Ethylbenzene ¹	mg/kg	0.1	<0.1	<0.1	11.7	0.224	22.5	6.38	6.3			
p+m Xylene ¹	mg/kg	0.1	<0.1	<0.1	25	0.494	79.7	19.2	17.5			
o Xylene ¹	mg/kg	0.1	<0.1	<0.1	0.914	<0.1	24.4	2.68	1.94			



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20268	Analysed	RC 22/11/19
Received	BO 15/11/19	Reported	KC 25/11/19
Prepared	KC 19/11/19	Page	One of One

Report No 08181



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - PAHs (EPA16) - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP201	TP203								
			S1	S2								
			0.40m	0.40m								
Naphthalene ³	mg/kg	0.1	0.49	10.7								
Acenaphthylene ³	mg/kg	0.1	< 0.1	< 0.1								
Acenaphthene ³	mg/kg	0.1	< 0.1	< 0.1								
Fluorene ³	mg/kg	0.1	< 0.1	< 0.1								
Phenanthrene ³	mg/kg	0.1	0.87	2.11								
Anthracene ³	mg/kg	0.1	< 0.1	< 0.1								
Fluoranthene ³	mg/kg	0.1	0.23	0.53								
Pyrene ³	mg/kg	0.1	0.23	0.64								
Benzo(a)anthracene ³	mg/kg	0.1	0.13	0.34								
Chrysene ³	mg/kg	0.1	0.20	0.34								
Benzo(b)fluoranthene ³	mg/kg	0.1	0.18	0.27								
Benzo(k)fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1								
Benzo(a)pyrene ³	mg/kg	0.1	< 0.1	0.16								
Indeno(1,2,3-cd)pyrene ³	mg/kg	0.1	< 0.1	< 0.1								
Dibenzo(ah)anthracene ³	mg/kg	0.1	< 0.1	< 0.1								
Benzo(ghi)perylene ³	mg/kg	0.1	< 0.1	< 0.1								
Total PAHs (EPA16) ³	mg/kg	1.6	2.3	15.1								

Method: Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS

3. Subcontracted



Chain of Custody	20265	Analysed	RC 22/11/19
Received	BO 15/11/19	Reported	KC 15/11/19
Prepared	KC 18/11/19	Page	One of One

Report No 08182



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	13th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - CLEA metals plus Chromium VI - 13th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP201	TP203								
			S1	S2								
			0.40m	0.40m								
Arsenic ³	mg/kg	2	7	8								
Barium ³	mg/kg	5	53	59								
Beryllium ³	mg/kg	0.5	< 0.5	< 0.5								
Boron (Water Soluble) ³	mg/kg	1	1.5	< 1								
Cadmium ³	mg/kg	0.2	3.7	1.9								
Chromium ³	mg/kg	2	8	8								
Chromium (Hexavalent) ³	mg/kg	2	< 2	< 2								
Copper ³	mg/kg	4	17	18								
Lead ³	mg/kg	3	751	488								
Mercury ³	mg/kg	1	< 1	< 1								
Nickel ³	mg/kg	3	7	6								
Selenium ³	mg/kg	3	< 3	< 3								
Vanadium ³	mg/kg	2	10	12								
Zinc ³	mg/kg	3	610	399								

Method: Determination of metals by aqua-regia digestion followed by ICP-OES.

3. Subcontracted



Chain of Custody	20269	Analysed	RC 22/11/19
Received	BO 15/11/19	Reported	KC 15/11/19
Prepared	KC 18/11/19	Page	One of One

Report No 08236



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	22nd November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 22nd November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX101	EX101	EX101	EX101	EX101	TP301	TP301	TP301	TP301	TP302
			S1	S2	S3	S5	S6	S2	S4	S6	S7	S2
			1.50m	1.50m	2.00m	3.50m	3.50m	1.50m	2.50m	3.00m	3.00m	2.50m
C6-C8 TPH Band ²	mg/kg	0.5	<5	11.9	<5	<5	<5	<5	21.2	<5	<5	<5
>C8-C10 TPH Band ²	mg/kg	0.5	<5	20.9	<5	<5	<5	<5	33.4	<5	<5	7.9
>C10-12 TPH Band ²	mg/kg	0.5	<0.5	2.93	<0.5	<0.5	<0.5	<0.5	30.3	<0.5	<0.5	2.65
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	69.3	<0.5	<0.5	0.868
>C16-21 TPH Band ²	mg/kg	0.5	0.892	0.518	5.98	<0.5	<0.5	0.724	77.7	<0.5	<0.5	0.77
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	<0.5	9.2	<0.5	<0.5	83.1	12.4	<0.5	<0.5	<0.5



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20336	Analysed	RC 28/11/19
Received	BO 25/11/19	Reported	KC 29/11/19
Prepared	RC 28/11/19	Page	One of Two

Report No 08236



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	22nd November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 22nd November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP302	TP302	TP302							
			S3	S4	S5							
			2.50m	2.50m	2.50m							
C6-C8 TPH Band ²	mg/kg	0.5	38.2	<5	109							
>C8-C10 TPH Band ²	mg/kg	0.5	60.6	<5	147							
>C10-12 TPH Band ²	mg/kg	0.5	43.3	<0.5	48.6							
>C12-16 TPH Band ²	mg/kg	0.5	101	<0.5	120							
>C16-21 TPH Band ²	mg/kg	0.5	98	0.726	110							
>C21-35 TPH Band ²	mg/kg	0.5	12.7	<0.5	21.9							



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20336	Analysed	RC 28/11/19
Received	BO 25/11/19	Reported	KC 29/11/19
Prepared	RC 28/11/19	Page	Two of Two

Report No 08237



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	22nd November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH CWG - 22nd November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP301	TP301	TP302	TP302						
			S5	S8	S1	S6						
			3.00m	2.00m	1.50m	2.00m						
C6-8 Aliphatic TPH ²	mg/kg	2.5	<5	11	19.6	<5						
>C8-10 Aliphatic TPH ²	mg/kg	2.5	<5	64.7	8.07	<5						
>C10-12 Aliphatic TPH ²	mg/kg	2.5	<2.5	207	6.52	<2.5						
>C12-16 Aliphatic TPH ²	mg/kg	5	<5	588	14.7	<5						
>C16-21 Aliphatic TPH ²	mg/kg	5	<5	687	16.3	<5						
>C21-35 Aliphatic TPH ²	mg/kg	10	<10	167	<10	<10						
C6-8 Aromatic TPH ²	mg/kg	1	<5	<5	<5	<5						
>C8-10 Aromatic TPH ²	mg/kg	1	<5	363	22.5	7.32						
>C10-12 Aromatic TPH ²	mg/kg	1	<1	129	6	<1						
>C12-16 Aromatic TPH ²	mg/kg	2.5	<2.5	320	9.28	<2.5						
>C16-21 Aromatic TPH ²	mg/kg	2.5	<2.5	327	6.85	<2.5						
>C21-35 Aromatic TPH ²	mg/kg	2.5	<2.5	86.9	<2.5	<2.5						



Method: ; IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by followed by separation into aliphatic and aromatic fractions using SPE and analysis by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20337	Analysed	RC 28/11/19
Received	BO 25/11/19	Reported	KC 29/11/19
Prepared	RC 28/11/19	Page	One of One

Report No 08238



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	22nd November 2019
Client	Subadra Consulting Ltd	Report Approved By	 Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 22nd November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			TP301	TP301	TP302	TP302						
			S5	S8	S1	S6						
			3.00m	2.00m	1.50m	2.00m						
MTBE ²	mg/kg	0.5	<5	<5	<5	<5						
Benzene ¹	mg/kg	0.1	<1	<1	<1	<1						
Toluene ¹	mg/kg	0.1	<1	2.82	2.42	<1						
Ethylbenzene ¹	mg/kg	0.1	<1	17.8	1.92	<1						
p+m Xylene ¹	mg/kg	0.1	<1	76.4	7.3	1.99						
o Xylene ¹	mg/kg	0.1	<1	35.7	2.4	<1						



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20338	Analysed	RC 28/11/19
Received	BO 25/11/19	Reported	KC 29/11/19
Prepared	RC 28/11/19	Page	One of One

Report No 08244



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	26th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - TPH Banded - 26th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201
			S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
			3.00m	3.00m	3.00m	3.00m	2.00m	2.00m	2.00m	2.00m	0.50m	0.50m
C6-C8 TPH Band ²	mg/kg	0.5	<5	12.7	<5	<5	<5	<5	<5	24.6	466	111
>C8-C10 TPH Band ²	mg/kg	0.5	3.83	22.9	<5	<5	5.45	<5	7.93	22.3	537	89.3
>C10-12 TPH Band ²	mg/kg	0.5	<0.5	0.716	<0.5	<0.5	<0.5	<0.5	4.34	3.73	36.2	8.65
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.79	<0.5	4.62	0.756
>C16-21 TPH Band ²	mg/kg	0.5	<0.5	0.529	0.514	0.576	0.63	0.68	4.9	0.609	0.676	0.676
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20366	Analysed	RC 29/11/19
Received	BO 27/11/19	Reported	KC 02/12/19
Prepared	KC 28/11/19	Page	One of Two

Report No 08244



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	26th November 2019
Client	Subadra Consulting Ltd	Report Approved By	 Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 26th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201
			S11	S12	S13	S14	S15	S16	S17	S18	S19	S20
			0.50m	1.50m	1.50m	1.50m	1.00m	0.50m	0.50m	0.50m	0.50m	0.50m
C6-C8 TPH Band ²	mg/kg	0.5	65.5	94.8	116	42.4	108	54.5	96.5	125	40.4	41.4
>C8-C10 TPH Band ²	mg/kg	0.5	39.9	79.3	60.6	47	96.2	43.9	128	96.5	60.3	100
>C10-12 TPH Band ²	mg/kg	0.5	3.51	18.5	22.9	18.7	190	2.57	28.5	82.4	9.47	17.1
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	0.821	0.729	<0.5	314	<0.5	7.5	15.4	0.589	2.4
>C16-21 TPH Band ²	mg/kg	0.5	0.614	0.516	<0.5	<0.5	295	0.742	5.81	1.32	0.505	1.5
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	1.54	1.89	1.68	123	0.507	4.05	<0.5	<0.5	<0.5



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20366	Analysed	RC 29/11/19
Received	BO 27/11/19	Reported	KC 02/12/19
Prepared	KC 28/11/19	Page	Two of Two

Report No 08243



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	26th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 26th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201
			S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
			3.00m	3.00m	3.00m	3.00m	2.00m	2.00m	2.00m	2.00m	0.50m	0.50m
MTBE ²	mg/kg	0.5	<5	<5	<5	<5	<5	<5	<5	<5	21.9	5.37
Benzene ¹	mg/kg	0.1	<1	<1	<1	<1	<1	<1	<1	<1	4.64	1.09
Toluene ¹	mg/kg	0.1	<1	<1	<1	<1	<1	<1	<1	<1	5.44	1.19
Ethylbenzene ¹	mg/kg	0.1	<1	<1	<1	<1	<1	<1	<1	<1	16.6	3.66
p+m Xylene ¹	mg/kg	0.1	<1	1.34	<1	<1	<1	<1	1.53	<1	5.46	1.85
o Xylene ¹	mg/kg	0.1	<1	<1	<1	<1	<1	<1	<1	<1	3.24	<1



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20367	Analysed	RC 29/11/19
Received	BO 27/11/19	Reported	KC 02/12/19
Prepared	KC 28/11/19	Page	One of Two

Report No 08243



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	26th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - BTEX and MTBE - 26th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201	EX201
			S11	S12	S13	S14	S15	S16	S17	S18	S19	S20
			0.50m	1.50m	1.50m	1.50m	1.00m	0.50m	0.50m	0.50m	0.50m	0.50m
MTBE ²	mg/kg	0.5	<5	<5	6.01	<5	7.75	8.15	17.5	5.5	5.72	<5
Benzene ¹	mg/kg	0.1	<1	<1	<1	<1	2.44	5.5	<1	1.48	3.73	2.1
Toluene ¹	mg/kg	0.1	5.28	<1	9.34	4.55	3.19	1.11	2.54	2.98	<1	<1
Ethylbenzene ¹	mg/kg	0.1	2.65	3.36	5.43	3.59	3.46	2.33	5.38	4.57	2.65	4.34
p+m Xylene ¹	mg/kg	0.1	3.6	<1	4.12	2.92	13	6.52	14.6	2.67	8.39	11.8
o Xylene ¹	mg/kg	0.1	2.11	<1	4.81	3.33	5.61	3.14	5.97	6.94	2.3	3.9



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20367	Analysed	RC 29/11/19
Received	BO 27/11/19	Reported	KC 02/12/19
Prepared	KC 28/11/19	Page	Two of Two

Report No 08289



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	 Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX301	EX301	EX301	EX302	EX302	EX302	EX302	EX302	EX302	EX302
			S1	S2	S3	S1	S2	S3	S4	S5	S6	S7
			2.50m	2.50m	3.00m	0.50m	0.50m	0.50m	0.50m	0.50m	1.50m	1.50m
C6-C8 TPH Band ²	mg/kg	0.5	431	71.6	7.3	15.8	18.2	4.16	8.98	2.27	<0.5	<1.0
>C8-C10 TPH Band ²	mg/kg	0.5	758	94	8.39	25.6	31	8.02	23	4.67	<0.5	<1.0
>C10-12 TPH Band ²	mg/kg	0.5	141	34.7	11	18.1	52.7	43	45.2	39.9	<0.5	<0.5
>C12-16 TPH Band ²	mg/kg	0.5	30.8	5.52	<0.5	19.4	46.7	33.1	68.8	30.6	<0.5	<0.5
>C16-21 TPH Band ²	mg/kg	0.5	1.52	<0.5	<0.5	14.4	36.8	22	60.6	16.6	0.571	<0.5
>C21-35 TPH Band ²	mg/kg	0.5	1.21	0.525	<0.5	1.44	11	3.95	8.41	1.62	<0.5	<0.5



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20383	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
Prepared	RC 04/12/19	Page	One of Three

Report No 08289



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TPH Banded - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302
			S8	S9	S10	S11	S12	S13	S14	S15	S16	S17
			1.50m	0.50m	0.50m	0.50m	2.50m	2.50m	2.50m	2.50m	3.50m	3.50m
C6-C8 TPH Band ²	mg/kg	0.5	<1.0	2.58	8.82	23.1	<1.5	<1.0	2.91	<1.5	<0.5	<0.5
>C8-C10 TPH Band ²	mg/kg	0.5	<1.0	12.2	17.8	35.4	<1.5	<1.0	6.89	<1.5	1.73	1.18
>C10-12 TPH Band ²	mg/kg	0.5	<0.5	22.4	15.8	82.5	1.24	0.682	15.9	9.44	3.22	1.22
>C12-16 TPH Band ²	mg/kg	0.5	<0.5	21.2	22.5	249	<0.5	<0.5	20.6	21.4	3.17	0.818
>C16-21 TPH Band ²	mg/kg	0.5	0.559	15.3	22	330	0.949	1.16	17.3	20.6	4.84	2.43
>C21-35 TPH Band ²	mg/kg	0.5	<0.5	<0.5	2.65	184	<0.5	<0.5	1.93	1.36	0.881	0.674



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025

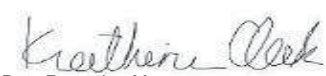


Chain of Custody	20383	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
Prepared	RC 04/12/19	Page	Two of Three

Report No 08289

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E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - TPH Banded - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX302									
			S18									
			3.50m									
C6-C8 TPH Band ²	mg/kg	0.5	<1.0									
>C8-C10 TPH Band ²	mg/kg	0.5	<1.0									
>C10-12 TPH Band ²	mg/kg	0.5	<0.5									
>C12-16 TPH Band ²	mg/kg	0.5	<0.5									
>C16-21 TPH Band ²	mg/kg	0.5	0.561									
>C21-35 TPH Band ²	mg/kg	0.5	<0.5									



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; IH QM:E9.5 based on TNRCC 1005 by GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

2. UKAS 17025



Chain of Custody	20383	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
Prepared	RC 04/12/19	Page	Three of Three

Report No 08288



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	
Sample Type	Soil		Duty Reporting Manager

Soil - BTEX and MTBE - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX301	EX301	EX301	EX302	EX302	EX302	EX302	EX302	EX302	EX302
			S1	S2	S3	S1	S2	S3	S4	S5	S6	S7
			2.50m	2.50m	3.00m	0.50m	0.50m	0.50m	0.50m	0.50m	1.50m	1.50m
MTBE ²	mg/kg	0.5	18.8	4.29	<0.5	<1.5	1.28	<0.5	<1.0	<0.5	4.6	<1.0
Benzene ¹	mg/kg	0.1	1.26	<1	<0.1	<0.3	<0.2	0.196	0.458	<0.1	<0.1	<0.2
Toluene ¹	mg/kg	0.1	6.99	1.45	0.968	1.91	2.44	1.42	1.72	0.37	<0.1	<0.2
Ethylbenzene ¹	mg/kg	0.1	10.8	2.44	0.5	0.888	1.15	0.375	0.884	0.211	<0.1	<0.2
p+m Xylene ¹	mg/kg	0.1	10.5	5.3	1.5	2.76	3.87	1.4	3.82	0.708	<0.1	<0.2
o Xylene ¹	mg/kg	0.1	5.06	1.99	0.566	1.17	1.54	0.636	1.54	0.266	<0.1	<0.2



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20382	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
Prepared	RC 04/12/19	Page	One of Three

Report No 08288



E: lab@astanalysis.co.uk T: 01296 739 423
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Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302	EX302
			S8	S9	S10	S11	S12	S13	S14	S15	S16	S17
			1.50m	0.50m	0.50m	0.50m	2.50m	2.50m	2.50m	2.50m	3.50m	3.50m
MTBE ²	mg/kg	0.5	<1.0	<0.5	<1.0	3.14	1.92	<1.0	1.25	<1.5	<0.5	<0.5
Benzene ¹	mg/kg	0.1	<0.2	<0.1	<0.2	<0.3	<0.3	<0.2	<0.1	<0.3	<0.1	<0.1
Toluene ¹	mg/kg	0.1	<0.2	0.706	1.04	0.845	<0.3	<0.2	0.658	<0.3	0.209	0.137
Ethylbenzene ¹	mg/kg	0.1	<0.2	0.56	0.652	0.794	<0.3	<0.2	0.339	<0.3	<0.1	<0.1
p+m Xylene ¹	mg/kg	0.1	<0.2	2.48	2.81	2.45	<0.3	<0.2	1.31	<0.3	0.388	0.293
o Xylene ¹	mg/kg	0.1	<0.2	1.14	1.07	0.954	<0.3	<0.2	0.571	<0.3	0.211	0.154



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20382	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
Prepared	RC 04/12/19	Page	Two of Three

Report No 08288



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	CP17129 Petrol Coedpoeth	Sampled	28th November 2019
Client	Subadra Consulting Ltd	Report Approved By	<i>Katherine Clark</i> Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 28th November 2019

Analyte	Unit	Method Detection Limit	Sample Details									
			EX302									
			S18									
			3.50m									
MTBE ²	mg/kg	0.5	1.65									
Benzene ¹	mg/kg	0.1	<0.2									
Toluene ¹	mg/kg	0.1	<0.2									
Ethylbenzene ¹	mg/kg	0.1	<0.2									
p+m Xylene ¹	mg/kg	0.1	<0.2									
o Xylene ¹	mg/kg	0.1	<0.2									



Method: IH QM:E9.4 based on US EPA 5021 by HS-GC-FID; Soil dried at 110oC. Moisture content calculated as dry weight of sample Method based on BS1377

1. MCerts
2. UKAS 17025



Chain of Custody	20382	Analysed	RC 04/12/19
Received	BO 02/12/19	Reported	KC 06/12/19
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Petrol Coedpoeth, Coedpoeth

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**ATTACHMENT FOUR:
PID SCREENING RESULTS**

Client: The Co-operative Group Ltd

Report

CP17129 CL 007

Date

December 2019

Page

Attachment Four - 1

Site Name:	Petrol Coedpoeth
File Number:	CP17129
Date:	22/08/2019
Initials:	GR

SUBADRA Consultants in the Earth Sciences	
Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL Tel. 01296 739400 Fax. 01296 739401	

PID Screening Notes

Page Number 1 of 1

Description	Sample Location	Sample Number	Depth	PID Screening Value (ppm)
Shallow MG with HC contamination	TP101	S1	0.6m	370.0
	TP101	S2	0.6m	242.0
“Clean” yellow brown clay	TP101	S3	1.0m	12.1
	TP101	S4	1.0m	9.7
	TP101	S5	1.0m	2.8
Shallow MG with HC contamination	TP102	S1	0.4m	212.0
	TP102	S2	0.5m	208.0
	TP102	S3	0.4m	266.0
“Clean” yellow brown mottled grey clay	TP102	S4	1.0m	15.4
	TP102	S5	1.0m	9.0

Table One: VOC Screening Data

Site Name:	Petrol Coedpoeth
File Number:	CP17129
Date:	2/09/2019
Initials:	GR

SUBADRA Consultants in the Earth Sciences	
Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL Tel. 01296 739400 Fax. 01296 739401	

PID Screening Notes

Page Number 1 of 1

Description	Sample Location	Sample Number	Depth	PID Screening Value (ppm)
Grey brown clay from base of Excavation	EX001	S1	4.0m	0.0
Brown clay from side wall	EX001	S2	2.5m	0.0
Grey brown clay from base of Excavation	EX001	S3	4.0m	0.0
	EX001	S4	4.0m	0.0
Brown clay from side wall	EX001	S5	2.5m	0.0
	EX001	S6	2.5m	0.0
Grey brown clay from base of Excavation	EX001	S7	4.0m	0.0
	EX001	S8	4.0m	0.0
	EX001	S9	4.0m	0.0
Brown clay from side wall	EX001	S10	2.5m	0.0
Grey brown clay from base of Excavation	EX001	S11	4.0m	0.0
Brown clay from side wall	EX001	S12	2.5m	0.0
Grey brown clay from base of Excavation	EX001	S13	4.0m	0.0
	EX001	S14	4.0m	0.0
	EX001	S15	4.0m	0.0
	EX001	S16	4.0m	0.0
Brown clay from side wall	EX001	S17	2.5m	42.0
	EX001	S18	2.5m	33.0
	EX001	S19	2.5m	0.0
	EX001	S20	2.5m	0.0
	EX001	S21	2.5m	0.0
Grey brown clay from base of Excavation	EX001	S22	4.0m	0.0
	EX001	S23	4.0m	0.0
	EX001	S24	4.0m	0.0
	EX001	S25	4.0m	0.0
	EX001	S26	4.0m	0.0
	EX001	S27	4.0m	0.0
	EX001	S28	4.0m	0.0
	EX001	S29	4.0m	0.0
	EX001	S30	4.0m	0.0
	EX001	S31	4.0m	0.0
	EX001	S32	4.0m	0.0

Table One: VOC Screening Data

Initials: **GR**

Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL
Tel. 01296 739400 Fax. 01296 739401

Table One: VOC Screening Data

Site Name:	Petrol Coedpoeth
File Number:	CP17129
Date:	22/11/2019
Initials:	GR

Consultants in the Earth Sciences

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Consultants in the Earth Sciences

Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL
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PID Screening Notes

Page Number 1 of 1[illegible]

Table One: VOC Screening Data

Site Name:	Petrol Coedpoeth
File Number:	CP17129
Date:	26/11/2019
Initials:	GR

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Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL
Tel. 01296 739400 Fax. 01296 739401

PID Screening Notes

Page Number 1 of 1[illegible]

Table One: VOC Screening Data

Site Name:	Petrol Coedpoeth
File Number:	CP17129
Date:	26/11/2019
Initials:	GR

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Unit 13, Triangle Business Park, Stoke Mandeville HP22 5BL
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PID Screening Notes: Visit 6

Page Number 1 of 1

Description	Sample Location	Sample Number	Depth	PID Screening Value (ppm)
Shallow sandy clay with no notable hydrocarbon impact	EX301	S1	2.5m	12.8
	EX301	S2	2.5m	0.2
	EX301	S3	3.0m	0.2
“Clean” Grey brown clay from the side wall	EX302	S1	0.5m	0.0
	EX302	S2	0.5m	0.1
	EX302	S3	0.5m	0.5
	EX302	S4	0.5m	2.2
	EX302	S5	0.5m	0.0
Side wall excavation with some visible hydrocarbon impact	EX302	S6	1.5m	0.1
	EX302	S7	1.5m	0.4
	EX302	S8	1.5m	0.1
“Clean” Grey brown clay from the side wall	EX302	S9	0.5m	3.1
	EX302	S10	0.5m	0.0
	EX302	S11	0.5m	6.8
	EX302	S12	0.5m	0.0
	EX302	S13	2.5m	0.2
Side wall excavation with some visible hydrocarbon impact	EX302	S14	2.5m	7.2
“Clean” Grey brown clay from the base of the excavation	EX302	S15	2.5m	0.0
	EX302	S16	3.5m	0.4
	EX302	S17	3.5m	0.1
	EX302	S18	3.5m	0.0

Table One: VOC Screening Data

Petrol Coedpoeth, Coedpoeth

SUBADRA

Environmental • Geotechnical • Laboratory • Foundations

13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT FIVE:
WASTE TRANSFER CERTIFICATES**

Client: The Co-operative Group Ltd

Report

CP17129 CL 007

Date

December 2019

Page

Attachment Five - 1

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0001

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile: CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB6 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of cameras is attached tick here:

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements.

1. Name: Antony Smith

CLWyd Transport Services LTD
On behalf of (company) (name, address, postcode, telephone, e-mail, facsimile):
CLWyd house Ashurst South Wreatham
4139 u6

2. Carrier registration N° / reason for exemption:

Signature:

3. Vehicle Registration N° (or mode of transport if not road): PE 18 NOK
Date: 19/11/9 Time on Site: 1430 Time off Site: 1500

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to ~~apply~~ the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TUDIN, WILLIAMS SOUTHERS CO. On behalf of (company) (name, address, postcode, telephone, e-mail, facsimile):
SOUTHERN HOUSE, GARDEN CLOSE, LAMANGE BUSINESS PARK, ALMOUR, DEVON PL7 5HZ. info@williamsbuild.com.
 Signature: [Signature] Date: 19-11-19 at 1430 hrs 01752 201300

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

[illegible]

I received this waste at the
1. address given in A4 on:

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s) described in B at the address given in A4.

authorises the management of the waste

1. Name

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature _____

Date: _____

41

five

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

LOAD 2 SITE COPY

DANGEROUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0002

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: **CLWYD TRANSPORT SERVICES** On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile): **CLWYD TRANSPORT
CLWYD HOUSE BLACKWOOD BUSINESS PARK
ASH ROAD SOUTH WREXHAM LL13 9UG**

2. Carrier registration N° / reason for exemption: **CB04337** 3. Vehicle Registration N° (or mode of transport if not road): **PK64 402**

Signature: **[Signature]** Date: **19/11/19** Time on Site: **15.15** Time off Site: **15.30**

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: **GARY TOBIN WILLIAMS SOUTHERN LTD** On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile): **SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMOUTH, DEVON, PL7 5HZ 01752 201300**

Signature: **[Signature]** Date: **19-11-19** at **nl** hrs **INFO@WILLIAMSBLVD.COM**

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4,

authorises the management of the waste

1. Name: On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature: Date: at hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

Sheet 2 of 3

how

Scanned with CamScanner

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note CONSIGNOR'S COPY

A1. Consignment Note Code: WILLIA/C0004

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3 The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: **ROBIN JAMES**

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile): **CLWYD TRANSPORT**

2. Carrier registration N° / reason for exemption: **GBD5337**

3. Vehicle Registration N° (or mode of transport if not road): **WREXHAM IND EST. 01978 660022**
P56SDRO

Signature: **[Signature]**

Date: **20/11/19**

Time on Site: **14.45** Time off Site:

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: **GARY TOWN WILLIAMS SOUTHERN LTD.**

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile): **SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ 0152 201300 INFO@WILLIAMS3000.COM**

Signature: **[Signature]**

Date: **20-11-19**

at **14:20**

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the address given in A4 on:

at

hrs

2 Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permits/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

1. Name:

Date:

at

hrs

Signature:

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note CONSIGNOR'S COPY

A1. Consignment Note Code: WILLIA/C0005

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<5000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)

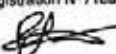
If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: **ROBIN JAMES**

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

ASH RD SOUTH WREXHAM, IND EST LL13 9UG

2. Carrier registration N° / reason for exemption: **CBDU3137**3. Vehicle Registration N° (or mode of transport if not road): **P365DRO**Signature: Date: **26/11/19**Time on Site: **15.05** Time off Site: **15.15**

D CONSIGNOR'S CERTIFICATE

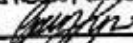
I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: **GARY TOWNS WILLIAMS SOUTHERN LTD.**

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON DEVON. 01752 201300 info@williams-southern.com.

Signature: Date: **26-11-19**

at

PLYMPTON

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the

1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0006

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP P5F, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are: (3) Component	(4) Concentration (% or mg/kg) *6000mg/kg BALANCE	(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES		SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)
If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: KEVIN EDWARDS.

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile): CLYNO TRANSPORT
CLYNO HOUSE BLACKWOOD BUSINESS PARK, ASH ROAD
SARF4 WREXHAM LL13 9UG

2. Carrier registration N° / reason for exemption: CB043387

3. Vehicle Registration N° (or mode of transport if not road):

Signature: [Signature]Date: 26/11/19Time on Site: 15.20 Time off Site: 15.30**D CONSIGNOR'S CERTIFICATE**

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TOLPIN WILLIAMS SOUTHERN LTD

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):
SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMOUTH DENON PL7 5HZ 01752 201300 INFO@WILLIAMSBLVD.COM

Signature: [Signature]Date: 26-11-19at 1530

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0007

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile: CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWQ) code

(1) List of Wastes (EWC) Code (6 digits)	(2) Full Written Description	(3) Quantity (kg)	(4) The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS STONES	~6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of carriers is attached tick here:

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name Mark Lenc

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):
CLWD TRANSFER SERVICES LTD BLACKWOOD BUSINESS PARK, ASH ROAD SOUTH
WAGHAM LL39 9UG 01974 660022 info@clwdtransfer.co.uk

2. Carrier registration N° / reason for exemption: *MT / GWC*

3. Vehicle Registration N° (or mode of transport if not road):

Signature: *M. A. Cenc*

Date: 27/11/19 Time on Site: 14.45 Time off Site: 15.00

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TUDIN WILLIAMS/BOURNBEN LTD.

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):
 Wuxi P&S 01752 201300 info@wuxipmsbuuo.com

Signature: 

Date: 27-11-19 at 14:45 hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

2 Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature: _____

Date _____

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0008

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEFAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: CHRIS JONES

01978 660693 www.lowolbak.co.uk

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

LOWOLBAK 411 ASH RD NORTH WREXHAM LL13 9UF.

2. Carrier registration N° / reason for exemption:

Signature:

CB8DU3630
e Jones

3. Vehicle Registration N° (or mode of transport if not road): DX19 XYU

Date: 27-11-19

Time on Site: 3.30

Time off Site: 15.40

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TUEPIN WILLIAMS SOUTHERN LTD.

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMOUTH DEON PL7 5AZ 01752 201200 INFO@WILLIAMS-SO.co.uk

Signature:

Date: 27-11-19

at 15.30

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note CARRIER'S COPY

A1. Consignment Note Code: WILLIA/C0009

Sheet 1 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAI, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: GARY DAVIES

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CWOYB HOUSE BLACKWOOD BUSINESS PARK ASH ROAD SOUTH WREXHAM

2. Carrier registration N° / reason for exemption: C8003337

3. Vehicle Registration N° (or mode of transport if not road):

G14GDT

Signature: G. Davies

Date: 27-11-19

Time on Site: 15-40

Time off Site: 16-00

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TOWEL WILLIAMS SOUTHERN LTD.

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, DN00. PL7 5HZ 01752 201300 INFO@WILLIAMS-SOUO.COM

Signature: [Signature]

Date: 27-11-19

at 1540

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the

1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s): described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0010

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PGF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: 1 MCTS

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CLW TO TRANSPORT LTD 9062. Carrier registration N° / reason for exemption: CBDO 3337

3. Vehicle Registration N° (or mode of transport if not road):

MX19 EWNSignature: 1 MCTSDate: 28-11-19Time on Site: 15-15Time off Site: 15-45**D CONSIGNOR'S CERTIFICATE**

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: Graham Turner WILLIAMS SOUTHERN LTD

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, DEVON PL7 5HZ 01752 29300 INFO@WILLIAMSOUK.COMSignature: Graham TurnerDate: 28-11-19

at

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0011

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB8 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

(1) List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: Pete Anderson

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CB043337CWYD

2. Carrier registration N° / reason for exemption:

3. Vehicle Registration N° (or mode of transport if not road):

Signature: PADate: 28/11/19Time on Site: 15:45 Time off Site:**D CONSIGNOR'S CERTIFICATE**

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GRY TOWN WILLIAMS SOUTHERN LTD

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, PLYMPTON PL7 5HZ 0152 201300 INFO@WILLIAMSBURO.COMSignature: [Signature]Date: 28-11-19at 15:40

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note CONSIGNOR'S COPY

A1. Consignment Note Code: WILLIA/C0012

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB6 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements.

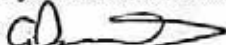
1. Name: CAREN DAVIES

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CWDYD HOUSE BLACKWOODS BUSINESS PARK ASD ROAD SOUTH WREXHAM

2. Carrier registration N° / reason for exemption: C8003337

3. Vehicle Registration N° (or mode of transport if not road):

Signature: 

Date: 03-12-19

Time on Site: 16-15

Time off Site: 16-25

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GRANT TOWEN WILLIAMS SOUTHERN LTD

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON PL7 5HZ 01522 201300 INFO@WILLIAMSBLVD.COM

Signature: 

Date: 03-12-19

at

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the

1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s): described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0013

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB6 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

(1) List of Wastes (EWC) Code (5 digits)	(2) Full Written Description	(3) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are:		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(4) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<5000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements.

1. Name: **CARM DAVIES**

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CLWYD HOUSE BLACKWOOD BUSINESS PARK ASH ROAD SOUTH WREXHAM2. Carrier registration N° / reason for exemption: **CB0U3334**

3. Vehicle Registration N° (or mode of transport if not road):

G14QOTSignature: **GD**Date: **04-12-19**Time on Site: **16-10**Time off Site: **16-20****D CONSIGNOR'S CERTIFICATE**

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: **GARY TOWNS WILLIAMS SOUTHERN LTD.** On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):**SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON - PL7 5HZ. 01752 201300 INFO@WILLIAMSCLWD.COM**Signature: **[Signature]**Date: **04-12-19**

at

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the

1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s): described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note CONSIGNOR'S COPY

A1. Consignment Note Code: WILLIA/C0014

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB6 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

1. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOR. & STONES	~6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN Identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)

If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: DAVE WILLIAMS

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

CLWYA TRANSPORT, WREXHAM, LL13 9UG

2. Carrier registration N° / reason for exemption: CDDW 3337

3. Vehicle Registration N° (or mode of transport if not road): DN 15 525

Signature: 

Date: 5-12-19

Time on Site:

Time off Site:

D CONSIGNOR'S CERTIFICATE

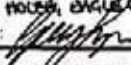
I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: GARY TOBIN WILLIAMS SOUTHERN LTD

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON A75HL 01752 201300 INFO@WILLIAMSBLUES.COM

Signature: 

Date: 05/12/19

at

hrs

E CONSIGNEE'S CERTIFICATE (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

HAZARDOUS WASTE (ENGLAND AND WALES) REGULATIONS 2005-Consignment Note **CONSIGNOR'S COPY**

A1. Consignment Note Code: WILLIA/C0015

Sheet 2 of 3

A NOTIFICATION DETAILS

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): CO-OP PSF, HIGH STREET, COEDPOETH, WREXHAM

3. The waste will be taken to (name, address and postcode): MICK GEORGE, WITCHAM MEADLANDS, BLOCK FEN, MEPAL, CAMBRIDGESHIRE, CB6 2AY

4. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): WILLIAMS SOUTHERN LTD, SOUTHERN HOUSE, EAGLE CLOSE, LANGAGE BUSINESS PARK, PLYMPTON, PL7 5HZ

B DESCRIPTION OF THE WASTE

f. The Process giving rise to the waste(s) was: EXCAVATION

2. The SIC for the process giving rise to the waste: 43.12

WASTE DETAILS (where more than one waste type is collected all of the information, in all 12 columns below, must be completed for each EWC identified) (use additional sheets if necessary, detail consignment note code from A1 on each additional sheet and produce a copy of each additional sheet for each copy of this consignment note)

3. The waste(s) is: Please provide information in all 12 columns for each List of Waste (EWC) code

List of Wastes (EWC) Code (6 digits)	(1) Full Written Description	(2) Quantity (kg)	The Chemical/Biological components of the waste and their concentrations are		(5) Physical Form (gas, liquid, solid, powder, sludge, or mixed)	(6) Hazard Codes(s)
			(3) Component	(4) Concentration (% or mg/kg)		
17 05 03*	SUBSOIL & STONES C/W HEAVY METALS	~20,000	ZINC COMPOUNDS SOIL & STONES	<6000mg/kg BALANCE	SOLID	HP14

(7) Container type, N° & size	(8) Packing Group(s)	(9) UN identification N°(s)	(10) Proper Shipping Name	(11) UN Class(es)	(12) Tunnel Code	(13) Special Handling Requirements
8 X WHEEL TIPPER	N/A	N/A	N/A	N/A	N/A	WEAR APPROPRIATE PPE

C CARRIER'S CERTIFICATE (if more than one carrier is used, please attach schedule for subsequent carriers.)If a schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A4, B3(1), B3(2), B3(5) and B3(7) are correct and I have been advised of any specific handling requirements

1. Name: Steven Warden

C3DU3337

2. Carrier registration N° / reason for exemption:

Signature: Sheld

Clwyd Transport Clwyd House
On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):
Blackwood BS Bus Park
Wrexham

3. Vehicle Registration N° (or mode of transport if not road): P464Y DP

Date:

Time on Site:

Time off Site:

D CONSIGNOR'S CERTIFICATE

I certify that the information in A B and C above are correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labeled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

1. Name: Gwyn Tudor Williams Southern Ltd

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Southern House, Eagle Close, Langage Business Park, Plympton PL7 5HZ 01752 201200 info@williamsbuid.comSignature: [Signature]Date: 05-12-19at 14-10hrs 14-25**E CONSIGNEE'S CERTIFICATE** (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Individual List of Wastes EWC code(s) received (6 digits)	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste Management operation (R or D code)

I received this waste at the
1. address given in A4 on:

at

hrs

2. Vehicle registration N° (or mode of transport if not road):

3. Where waste is rejected, please provide details:

I certify that the waste management licence/permit/authorised exemption N°(s):
described in B at the address given in A4.

authorises the management of the waste

1. Name:

On behalf of (company)(name, address, postcode, telephone, e-mail, facsimile):

Signature:

Date:

at

hrs

PLEASE COMPLETE IN BLOCK CAPITALS AND BLACK INK

Petrol Coedpoeth, Coedpoeth

SUBADRA

Environmental • Geotechnical • Laboratory • Foundations

13 Triangle Business Park, Wendover Road

Stoke Mandeville, Bucks HP22 5BL

Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT SIX:
CONTRACTOR'S TANK REMOVAL REPORT**

Client: The Co-operative Group Ltd

Report

CP17129 CL 007

Date

December 2019

Page

Attachment Six - 1



Co-Op COEDPOETH
High street,
Coedpoeth, Nr Wales.
LL11 3UF

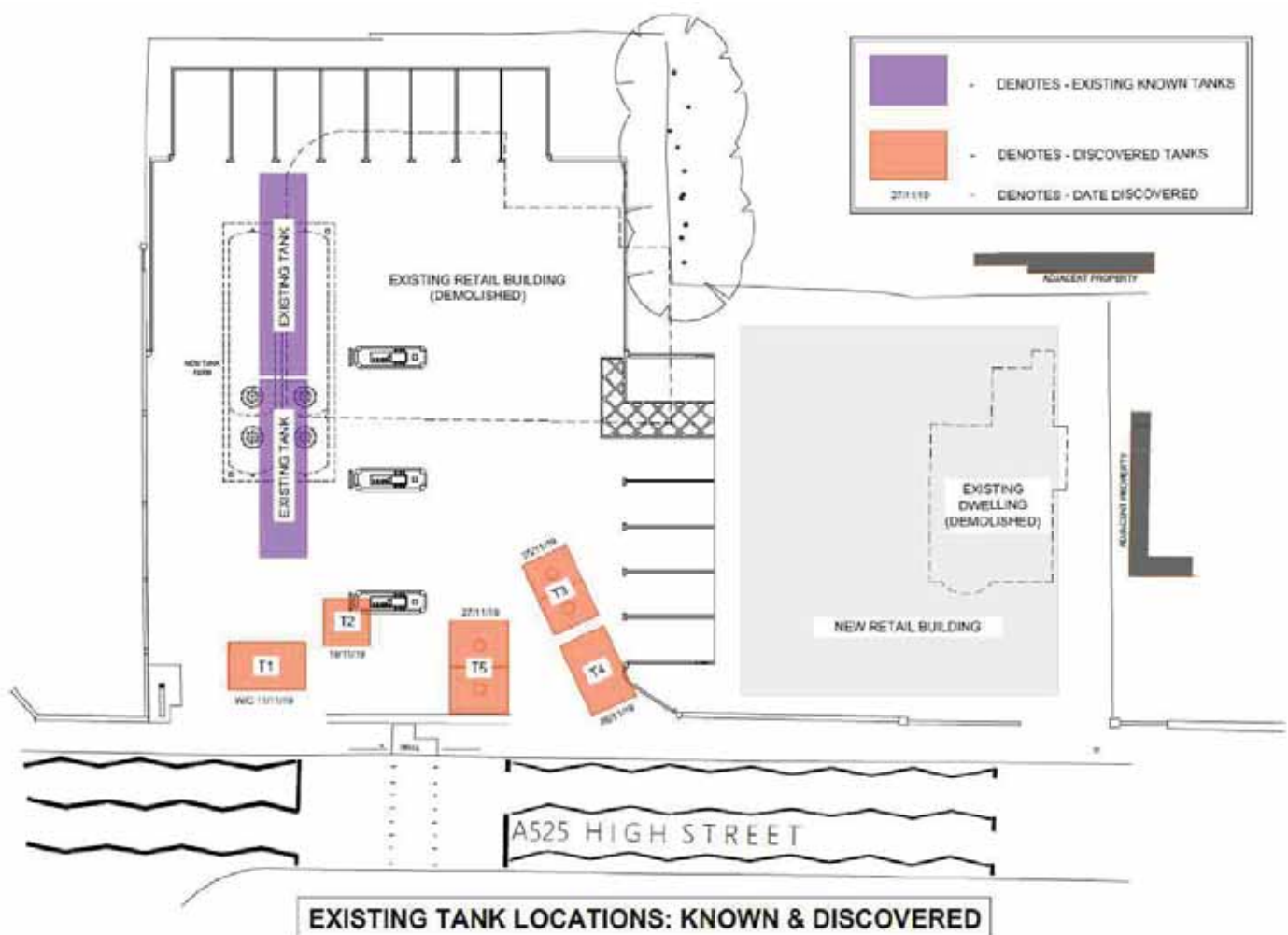
SOUTHERN HOUSE
EAGLE CLOSE
LANGAGE BUSINESS PARK
PLYMPTON
PLYMOUTH
PL7 5HZ

Contents:

3. Site Plan & Key information
4. Photos of Existing known Tanks
6. Photos of Tank 1
8. Photos of tank 2
9. Photos of tank 3
10. Photos of tank 4
11. Photos of tank 5

Site Plan and Key Information.

- Tank 1 on drawing shown discovered 11/11
- Tank 2 on drawing discovered 19/11
- Tank 3 on drawing discovered 25/11
- Tank 4 on drawing discovered 26/11
- Tank 5 on drawing discovered 27/11



Photos of Existing Known Tanks





Photos of Tank 1





Photos of Tank 2



Photos of Tank 3



Photos of Tank 4



Photos of Tank 5



