

ENVIROARM LIMITED

BRYN POSTEG COMPOSTING FACILITY



**CONSTRUCTION QUALITY
ASSURANCE VALIDATION REPORT**

**CONCRETE SLAB CONSTRUCTION FOR COMPOSTING
FACILITY**

REF: ARM/BPLF/CPCQA/1.00/2016
Revision 1.00

BRYN POSTEG COMPOSTING FACILITY

CONCRETE SLAB CONSTRUCTION FOR COMPOSTING FACILITY

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BRYN POSTEG LANDFILL SITE

CONCRETE SLAB CONSTRUCTION FOR COMPOSTING FACILITY

CONSTRUCTION QUALITY ASSURANCE VALIDATION REPORT

1. INTRODUCTION

In August 2013, Enviroarm Limited were requested by Potters Waste Management to carry out supervision and quality control tests on earthworks construction of a concrete pad at Bryn Posteg landfill site for the composting facility under Permit EPR/CB3834RQ.

The initial footprint excavation works were carried out by Potters Waste Management between August 2013 with excavation works completed in June 2016.

Initial preparation works and concreting were directly over the high pressure gas main to protect this from the works on the adjoining landfill cells in Phases 9D.1 and 9D.2 during 2013.

Concreting works were initially slow during 2013, 2014 and 2015 with only small sections completed. The major push to complete the pad commenced in 1st March 2016 with a final delivery on 10 June 2016.

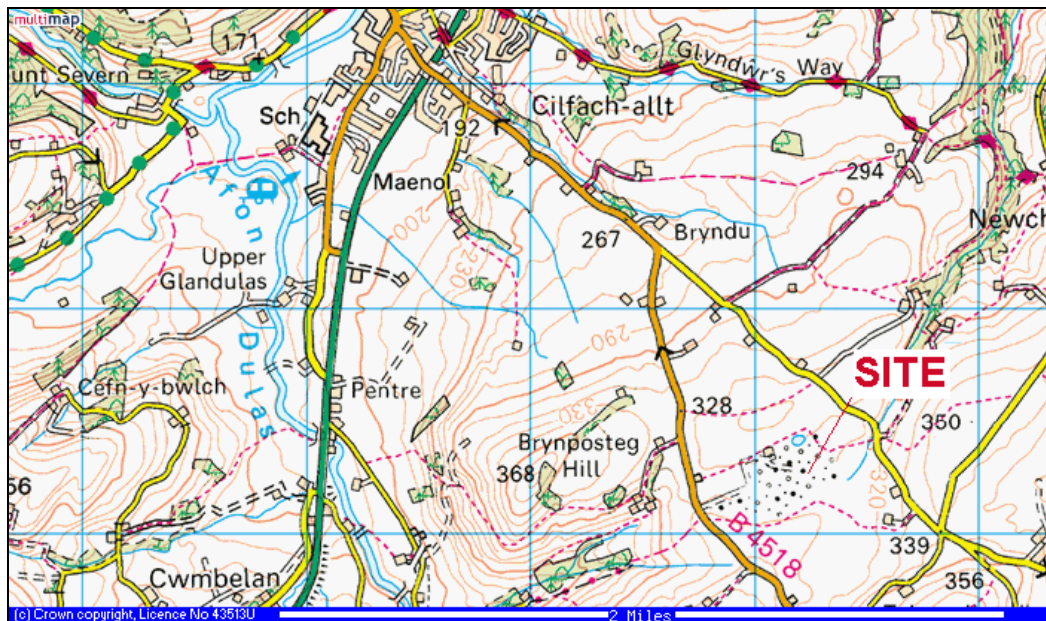
Concrete was supplied direct from TG Group for the entire project with an initial specification of RC28/35 which was then increased to RC40/50 for the deliveries for 2016.

Concrete cube tests were carried out on the placed concrete to ensure compliance with the specification and a survey of the completed pad and expansion joints was carried out by NRG.

2. THE SITE

The Bryn Posteg landfill site is an operational landfill as defined under the Environmental Permitting Regulation 2010 for the receipt of non-hazardous waste. The new compost facility requires the construction of a concrete pad and closed drainage. The site is located approximately 2.8km to the south east of Llanidloes in the County of Powys at National Grid Reference SN 970 822, see Figure 1 and the concrete pad is located on the western boundary along the B4518 and is a requirement under Permit EPR/CB3834RQ.

Figure 1: Site Location



3. FORMATION

3.1 Formation Compaction

The area was rolled and prepared and had a shear strength greater than 50kPa. The Engineer signed off the whole area and the areas for each section were rolled again pre delivery of the concrete. Shear vane tests were carried out over the entire area.

Figure 2 shows a typical value of shear strength achieved on the sub grade.

Preparation of the sub grade consisted over levelling the area off the finished agreed levels using a Komatsu 734 dozer and then subject to rolling with a smooth drum HAMM 3412 roller on the initial sections and the final rolling pre concrete placement was using an AMANN 1200 roller, see Figure 3.

The roller was observed when inspected traversing the area and subjecting the area to a minimum six passes.

Figure 2: View of shear vane test carried out on sub grade formation pre concrete placement



Figure 3: Compaction of sub base pre placement of concrete



4. CONCRETE SLAB

4.1 General

The concrete mix was a R28/32 mix used initially over the gas main but where the loading was considered to be greater the mix was increased for the remainder of the pad to a C40/50 mix with a fibre bond and T32 reinforcement bar placed at 300mm centres used throughout. The concrete slab covers some 4400m² and with 100mm thickness equates to 440m³ or 880 tonnes of concrete. The total delivered amount is 1000 tonnes and therefore covers the walls and base, see Appendix C.

Typical delivery notes for each batch are presented at Appendix A from Tudor Griffith and a copy of the invoices for 2016 are presented at Appendix B.

A cube test was taken to ensure that the concrete complied with the minimum specification.

Vertical sealing walls were completed along the western edge and a clay bund and surface water collection sump were also constructed.

The complete works covered a period from 2013 to 2016.

4.2 Placement

The concrete was laid in sections with steel shuttering to retain the concrete pour. The reinforcement bar was placed at the base and the fibre was added during the pour.

Each section laid out was approximately 120m² and the shuttering allowed for a 100mm depth mix to be placed.

Figure 4:100mm steel shuttering



4.3 Site Visits and Control Testing

Site visits were carried out on a part time basis over the period including during cell construction works and site investigation works on site.

Cube tests were taken for compressive strength on the 25th and 27th May 2016 in accordance with BS EN 12350-1 and compressive strength testing was carried out in accordance with BS EN 12350-3.

The test cubes were submitted to Central Midland Laboratories Ltd. The results are presented at Appendix D, with all results reported in accordance with the C40/50 mix specification.

Figure 5: Cube test taken on site in 2016



4.4 Laboratory Test Results

The laboratory test results are presented at Appendix D and tests indicated a compressive strengths greater than the concrete mix specification.

During the site visits no wet concrete mixes were observed.

4.5 Non-Conformance Records

No non-conformances were observed or recorded during site placement inspections and no failures were reported from the testing.

5. BUNDING AND DRAINAGE

5.1 General

The concrete slab has been designed with a fall to a low point from where surface water or leachate can be removed via a closed system to a tank and can then be removed for leachate treatment at the landfill leachate treatment plant.

The falls, wall, bunding, sump and tank are shown on Drawing No BRYNPOS02/TP/28:01. The fall of the slab is 1:26 allowing suitable falls towards the sump for leachate and rainfall flow.

5.2 Concrete Wall

A 300mm thick concrete wall has been constructed along the western boundary to prevent egress of contaminated waters and leachate and falls to the northern sump and is shown on Figure 6.

5.3 Clay Bund and Settlement Pit

A clay bund has been constructed along the northern edge of the concrete pad to prevent leachate release from the slab. A 100mm diameter pipe is located through the bund and drains directly into a concrete settlement pit which in turn drains to a holding tank.

The height of the clay bund is approximately 1 metre and the clay bund and sump are presented at Figure 7.

The settlement pit and holding tank are presented at Figure 8.

Figure 6: View of western concrete wall



Figure 7: View of northern clay bund wall with outlet point to sump



Figure 8: View of settlement pit and holding tank



6. CONCLUSIONS

The procedures carried out on site based on site observations and testing are that the sub grade was compacted to a shear strength well in excess of 50kPa set as a minimum value for Highways Specification and achieved well over 90kPa on all testing carried out.

The concrete was a high specification mix for the majority of the slab with C40/50 design mix which when tested exceeded the specification. The design also incorporated re-bar and a fibre-tex mix for increased strength placed during pouring.

The original slab section over the gas pipeline was a C28/35 mix however this will not be subject to such loadings as the rest of the slab.

Figure 9: View of slab over gas pipeline in 2013



All falls are towards the sump point at a gradient of 1:26 and no surface waters can leave the pad except through the sump and into the settlement pit and towards the holding tank and therefore is a closed loop system.

The slab has been constructed in accordance with design specifications with appropriate layer thickness and strength. All materials incorporated within the design were therefore placed satisfactorily.

Figure 10: Compost pad concrete slab completed



The compost slab is therefore acceptable for the receipt of waste as it has been constructed in accordance with the approved design and in compliance with the permit requirements for an impermeable surface and sealed drainage layer within Permit EPR/CB3834RQ.

A.R. Morris,

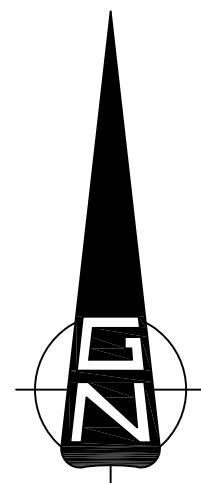
Report prepared by

A.R.Morris B.Sc,M.Sc,C.Geol,FGS,C.Env,MCIWM

for Enviroam Limited

Date: 15/09/2016

DRAWINGS



Point Features (Where Applicable)

- | | |
|--------------------------------|---------------------------------|
| Water Meter | Fence (Solid) |
| Gully | Fence (Chain) |
| First Hydrant | Belt |
| Telecom Box | Safety Fence |
| Teesom Cover | Gate |
| Inspection Cover (Circular) | Gate (No Posts) |
| Inspection Cover (Square) | Overhead Cable |
| Inspection Cover (Rectangular) | Manhole |
| Electricity Pole | Road Sign |
| Lamp Post | Well |
| Telegraph Pole | Retaining Wall |
| Boundary Box | Permanent Ground Marker |
| Stop Valve | Permanent Benchmark |
| Gate Valve | Temporary Benchmark |
| Litter Bin | Top Drain |
| Post | Rock Level |
| Pit | Floor Level |
| Marsh | Inset Level |
| Tree | Cover Level |
| Undergrowth | Phone Ridge |
| Hedge | Underground Service Marker Post |

Additional Notes For Fencing

- | | |
|-----|----------------|
| P/W | Post and Wire |
| P/C | Post and Chain |
| P/R | Post and Rail |
| I/R | Iron Railing |
| PAL | Palisade |
| W/P | Wooden Panel |
| C/P | Concrete Panel |
| S/F | Safety Fence |

Building And Floorplan Features

- | | |
|-------------------------|--|
| Floor Level | |
| Damp Proof Course Level | |
| Soffit Level | |
| Eaves Level | |
| Ridge Level | |
| Threshold Level | |

Notes



NRG Engineering
Services Ltd

Castle View
Station Road
Llanfairfechan
Conwy
LL53 0AN
Tel: 01248 681240
Fax: 01248 680914
email: nrg@nrgsurveys.co.uk
www.nrgsurveys.co.uk
www.COGEO.co.uk

CLIENT

Potters Waste

PROJECT

Bryn Posteg

TITLE

Concrete Slab Asbuilt Survey 07/07/2016

SCALE

1:100@A0

SHEET

Newlyn

DATE

Local

SURVEYED BY

DB

DRAWN BY

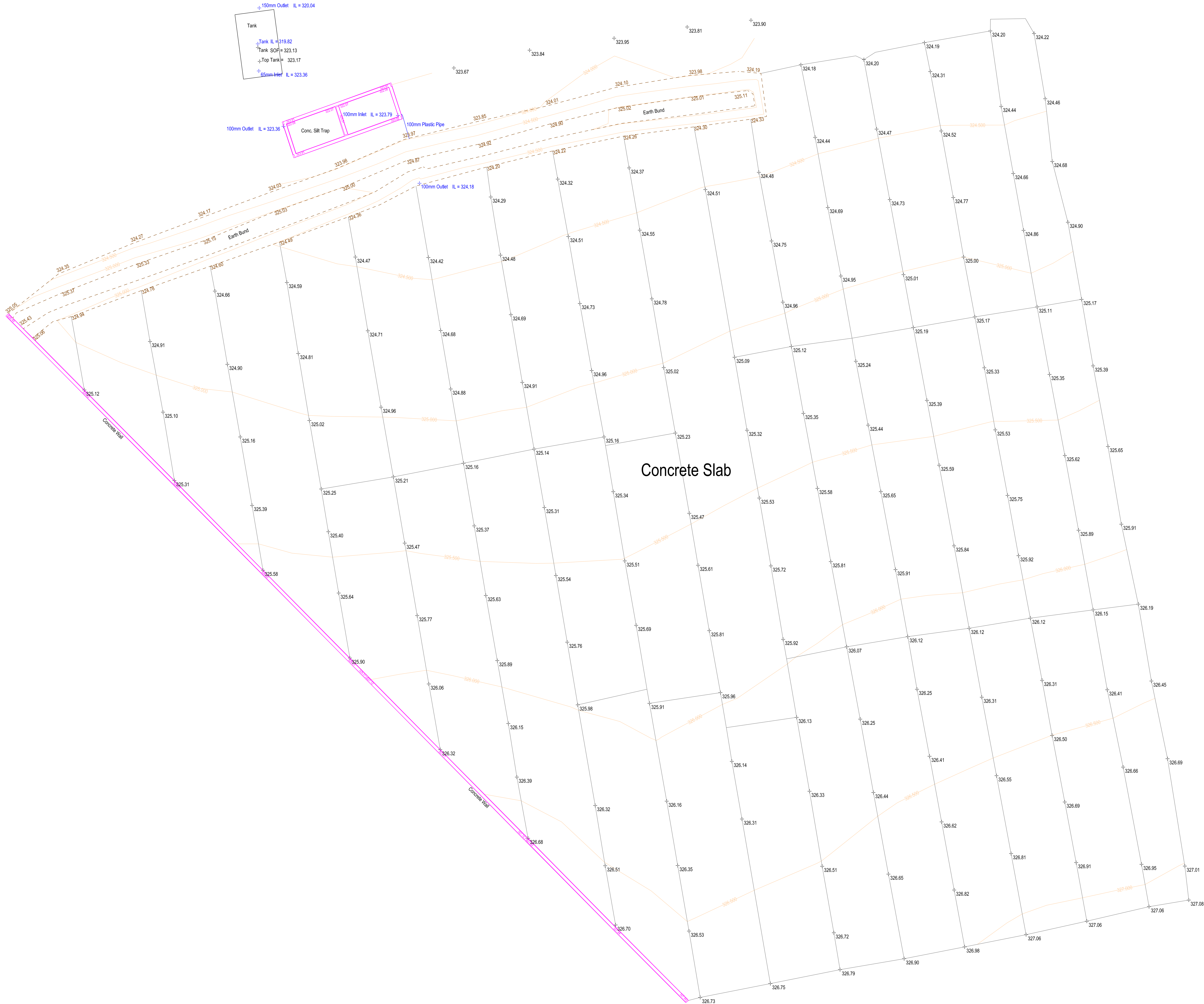
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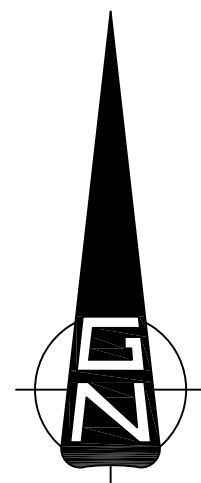
DATE

08/07/2016

DRAWING REFERENCE

BRYNPOS02/TP128 : 01





Point Features (Where Applicable)

- | | |
|--------------------------------|---------------------------------|
| Water Meter | Fence (Solid) |
| Gully | Fence (Chain) |
| First Hydrant | Belt |
| Telecom Box | Safety Fence |
| Traction Cover | Gate |
| Inspection Cover (Circular) | Gate (No Posts) |
| Inspection Cover (Square) | Overhead Cable |
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| PIC | Post and Chain |
| PRT | Post and Rail |
| IR | Iron Railing |
| PAL | Palisade |
| WJP | Wooden Panel |
| CIP | Concrete Panel |
| SIF | Safety Fence |

Building And Floorplan Features

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|-------------------------|--|
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| Damp Proof Course Level | |
| Soffit Level | |
| Eaves Level | |
| Ridge Level | |
| Threshold Level | |

Notes



NRG Engineering Services Ltd

Castle View
Station Road
Llanfairfechan
Conwy
LL53 0AN
Tel: 01248 681240
Fax: 01248 680914
email: nrg@nrgsurveys.co.uk
www.nrgsurveys.co.uk
www.COGEO.co.uk

CLIENT

Potters Waste

PROJECT

Bryn Posteg

TITLE

Concrete Slab Drainage 2016

SCALE

1:100@A0 SATURN Newlyn DB Local

SUPPORTED BY

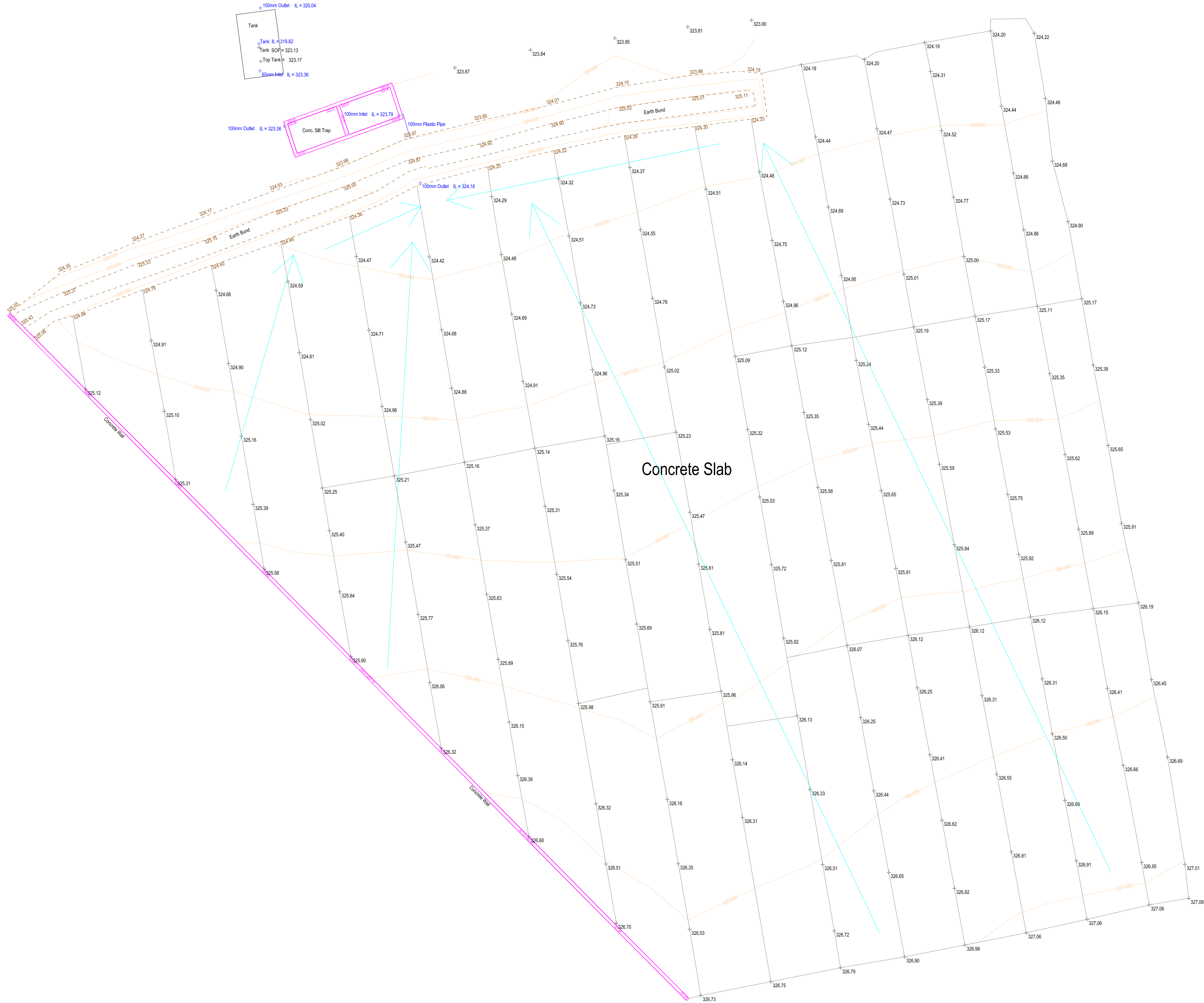
DB

DATE

08/07/2016

DRAWING BY

BRYNPOS02/TP/28 : 02



APPENDIX A:

Concrete Delivery Note Sample



Customer Name & Address SUNDORNE PRODUCTS (LLANIDLOES) LTD T/A POTTERS WASTE MANAGEMENT				Date 13/11/2015		Ticket No 606521	
Customer No SUN010		Vehicle/Haulier MV15RYT		Driver DEREK G		Delivery Address TIP LLANIDLOES	
Mix Description RC28/35				Cement Type CEMI		Aggregate Size 20MM AGG	
Min Cement Content 280 0.6		Max Water Cement Ratio		Admixtures WRA		Other	
Customer Order No				Load Size 6 m ³			
In accordance with our General Conditions of sale a charge for excessive waiting time may be made				Batcher's Signature 		Quotation Ref 22887	
Delivered / Ordered 6 / 6 m ³							
Supplying Plant NEWTOWN 01686 626008		Time of Loading 10:33		Time Arrived on Site		Time Discharge Commenced	
Time Discharge Completed							
This product conforms to BS8500-1 and EN206-1 where appropriate				Quantity		Unit Price	
This vehicle may leave the public highway at the drivers' discretion on your instructions provided you accept responsibility for personal injury or damage to property.						Cash Sale Invoice £	
Other Charges						£	
Load Received and times on site agreed by:				Total Goods		£	
NAME		SIGNATURE		VAT @ 20%		£	
				Cash Sale Invoice Total		£	
This load of concrete has been prepared in accordance with your specifications and we cannot be held responsible for any additions of water in excess of the designed water content which could result in the concrete being non-conforming							
Sign Here If Any Extra Water is Added							
Name		Signature				Litres Added	
CAUTION		To avoid harm to sensitive skins, minimise contact with wet cement or concrete (e.g. wear protective clothing). Where contact occurs, whether directly or through saturated clothing, wash thoroughly.				Tudor Griffiths Limited, Wood Lane, Ellesmere, SY12 0HY 01691 626262	
						VAT Reg. No 970 0471 34	



Customer Name & Address SUNDORNE PRODUCTS (LLANIDLOES) LTD T/A POTTERS WASTE MANAGEMENT				Date 13/11/2015		Ticket No 606523	
Customer No SUN010		Vehicle/Haulier MV15RYT		Driver DEREK G		Delivery Address TIP LLANIDLOES	
Mix Description RC28/35				Cement Type CEMI		Aggregate Size 20MM AGG	
Consistence S2							
Min Cement Content 280 0.6		Max Water Cement Ratio		Admixtures WRA		Other	
Customer Order No		Load Size 1.5 m ³					
In accordance with our General Conditions of sale a charge for excessive waiting time may be made				Batcher's Signature		Quotation Ref 22887	
Delivered / Ordered 7.5 / 7.5 m ³							
Supplying Plant NEWTOWN 01686 626008		Time of Loading 11:46		Time Arrived on Site		Time Discharge Commenced	
Time Discharge Completed							
This product conforms to BS8500-1 and EN206-1 where appropriate				Quantity		Unit Price	
Cash Sale Invoice							
This vehicle may leave the public highway at the drivers' discretion on your instructions provided you accept responsibility for personal injury or damage to property.				Other Charges		£	
Load Received and times on site agreed by:				Total Goods		£	
NAME		SIGNATURE		VAT @ 20%		£	
				Cash Sale Invoice Total		£	
This load of concrete has been prepared in accordance with your specifications and we cannot be held responsible for any additions of water in excess of the designed water content which could result in the concrete being non-conforming							
Sign Here If Any Extra Water is Added							
Name		Signature				Litres Added	
CAUTION		To avoid harm to sensitive skins, minimise contact with wet cement or concrete (e.g. wear protective clothing). Where contact occurs, whether directly or through saturated clothing, wash thoroughly.				Tudor Griffiths Limited, Wood Lane, Ellesmere, SY12 0HY 01691 626262	
						VAT Reg. No 970 0471 34	

APPENDIX B:

Concrete Delivery Invoices



T G Concrete

Wood Lane, Ellesmere, Shropshire, SY12 0HY

Tel 01691 626262

customer@tggroup.co.uk

Part of Tudor Griffiths Limited

www.tggroup.co.uk



INVOICE

Vat No 970 0471 34

Part of Tudor Griffiths Limited							
ACCOUNT NUMBER		INVOICE No		DATE			
SUN010		5864		31-May-2016			
DELIVERY DATE	CUSTOMER ORDER NO	ADVICE NOTE	DELIVERY ADDRESS	PRODUCT DESCRIPTION	WT/VOL/No	PRICE	AMOUNT
25-May-2016	B85POT1	608376 ✓	TIP LLANIDLOES	C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608376 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608378 ✓		C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608378 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608379 ✓		C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608379 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608381 ✓		C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608381 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608382 ✓		C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608382 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608383 ✓		C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80
25-May-2016	B85POT1	608383 ✓		POLY FIBREPACK			
25-May-2016	B85POT1	608386 ✓	C40/50—CIIBS-20-S-AEA——S2——	6.00	104.80	628.80	
				GOODS TOTAL		£	
				VAT @		£	
				INVOICE TOTAL		£	

SIINDORNE PRODUCTS (LLANIDLOES) LTD

TG Concrete Plants Order Telephone Numbers
Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants
01691 626262

TG Concrete Plants Order Telephone Numbers

Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants

01691 626262

Aberystwyth 01970 612763

Bangor 01248 351059

Porthmadog & Pwllheli 01766 530644

SUNDORNE PRODUCTS (LLANIDLOES) LTD
T/A POTTERS WASTE MANAGEMENT
POTTERS YARD
WELSHPOOL
SY21 7YE

Newtown 01686 626008

Welshpool 01938 552382

Our BACS details are: Lloyds Bank
Sort Code 30-00-02
Account No 04008605

15099



T G Concrete

Wood Lane, Ellesmere, Shropshire, SY12 OHY

Tel 01691 626262

customer@tggroup.co.uk

www.tggroup.co.uk

Part of Tudor Griffiths Limited



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Vat No 970 0471 34

Part of Tudor Griffiths Limited							
ACCOUNT NUMBER			INVOICE No		DATE		
SUN010			5864		31-May-2016		
DELIVERY DATE	CUSTOMER ORDER NO	ADVICE NOTE	DELIVERY ADDRESS	PRODUCT DESCRIPTION	WT/VOL/No	PRICE	AMOUNT
25-May-2016	B85POT1	608386 ✓		POLY FIBREPACK	6.00	104.80	628.80
25-May-2016	B85POT1	608389 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
25-May-2016	B85POT1	608389 ✓		POLY FIBREPACK	6.00	104.80	628.80
27-May-2016	B85POT1	608413 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
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27-May-2016	B85POT1	608414 ✓		POLY FIBREPACK	6.00	104.80	628.80
27-May-2016	B85POT1	608415 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608415 ✓		POLY FIBREPACK	6.00	104.80	628.80
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27-May-2016	B85POT1	608417 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608417 ✓		POLY FIBREPACK	6.00	104.80	628.80
27-May-2016	B85POT1	608418 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
				GOODS TOTAL		£	
				VAT @		£	
				INVOICETOTAL		£	
TG Concrete Plants Order Telephone Numbers							
Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants							
01691 526262							

TG Concrete Plants Order Telephone Numbers

Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants

01691 626262

Aberystwyth 01970612763

Bangor 01248 351059

Porthmadog & Pwllheli 01766 530644

Newtown 01686626008

Welshpool 01938 552382

Our BACS details are: Lloyds Bank

Sort Code 30-00-02

Account No 04008605

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POTTERS YARD
WELSHPOOL
SY21 7YE



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SUN010			5864		31-May-2016		
DELIVERY DATE	CUSTOMER ORDER NO	ADVICE NOTE	DELIVERY ADDRESS	PRODUCT DESCRIPTION	WT/VOL/No	PRICE	AMOUNT
27-May-2016	B85POT1	608418 ✓		POLY FIBREPACK	6.00	104.80	628.80
27-May-2016	B85POT1	608419 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608419 ✓		POLY FIBREPACK			
27-May-2016	B85POT1	608420 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608420 ✓		POLY FIBREPACK			
27-May-2016	B85POT1	608421 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608421 ✓		POLY FIBREPACK			
27-May-2016	B85POT1	608422 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608422 ✓		POLY FIBREPACK			
27-May-2016	B85POT1	608423 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
27-May-2016	B85POT1	608423 ✓		POLY FIBREPACK			
31-May-2016	B85POT1	608428 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
31-May-2016	B85POT1	608428 ✓		POLY FIBREPACK			
31-May-2016	B85POT1	608429 ✓		C40/50-CIIBS-20-S-AEA-----S2-----			
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				VAT @		£	
				INVOICE TOTAL		£	
TG Concrete Plants Order Telephone Numbers							
Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants							
01691 626262							
SUNDORNE PRODUCTS (LLANIDLOES) LTD							

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31-May-2016	B85POT1	608430 ✓					
31-May-2016	B85POT1	608430 ✓					
31-May-2016	B85POT1	608431 ✓					
31-May-2016	B85POT1	608431 ✓					
31-May-2016	B85POT1	608433 ✓					
31-May-2016	B85POT1	608433 ✓					
31-May-2016	B85POT1	608434 ✓					
31-May-2016	B85POT1	608434 ✓			6.00	104.80	628.80
				GOODS TOTAL			£ 15720.00
				VAT @			£ 3144.00
				INVOICE TOTAL			£ 18864.00

TG Concrete Plants Order Telephone Numbers

Orders for Ellesmere, Chester, Oswestry, Whitchurch and Wrexham Plants

01691 626262

Aberystwyth 01970 612763

Bangor 01248 351059

Porthmadog & Pwllheli 01766 530644

Newtown 01686 626008

Welshpool 01938 552382

Our BACS details are: Lloyds Bank
Sort Code 30-00-02

Account No 04008605

SUNDORNE PRODUCTS (LLANIDLOES) LTD
T/A POTTERS WASTE MANAGEMENT
POTTERS YARD
WELSHPOOL
SY21 7YE