

Introduction

This document provides information required under items (h), (i) and (j) of Section 4.2 of the Bryn Pica Landfill Site PPC Permit (No. DP3732SQ), which states:

A report or reports on the performance of the Activities over the previous year shall be submitted to the Agency by the 31st January (or other date agreed in writing by the Agency) each year. The reports shall include as a minimum:

- (h) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographic survey (i.e. the additional volume of the landfill void that is occupied by waste);
- (i) an assessment of the settlement behaviour of the landfill body based on the difference survey for the areas of the landfill which did not receive waste between the surveys;
- (j) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey.

Item h – Volumetric Difference

The volumetric difference calculated between the topographical surveys taken at Bryn Pica in January 2014 and December 2014 gives a fill volume during that period of **94,300 cubic metres**.

Item i – Settlement Behaviour

The table on the next page an assessment of the settlement behaviour of the landfill body based on the difference between annual topographical surveys. Also please find Drawing No.AC2015/ENG/03/002 included to demonstrated the settlement behaviour.

Item j – Calculation of the Remaining Void Space

The remaining capacity of the landfill is based on the December 2014 Phase 4A void survey, and the proposed basal design as submitted in the PPC, compared with the agreed Pre settlement Waste Contours prepared for the PPC.

The remaining void calculated for the Bryn Pica Landfill Site is **3,031,736 cubic metres**.

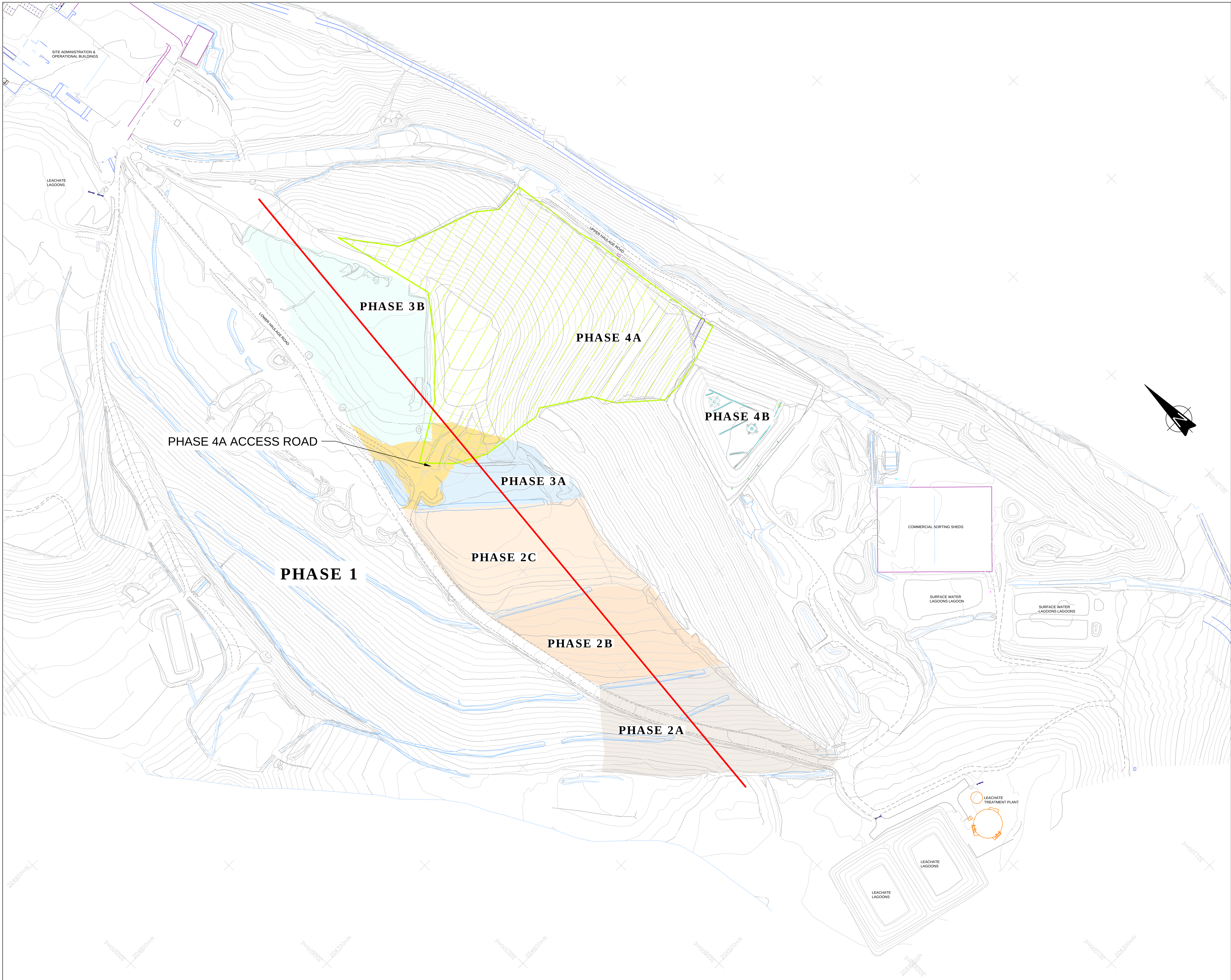
		Restored Waste Cell Areas					
		Phase 4A	Phase 3B	Phase 3A	Phase 2C	Phase 2B	Phase 2A
Feb-15	Average Waste Level	317.89	316.67	310.33	307.39	299.61	286.23
	Average Waste Thickness	45.51	45.96	38.54	34.62	25.81	11.52
	Percentage Difference	1.2	0.5	-1.1	0.2	0.1	-0.3
Mar-14	Average Waste Level	318.46	316.89	309.90	307.46	299.64	286.20
	Average Waste Thickness	46.08	46.18	38.11	34.70	25.84	11.48
	Percentage Difference		0.8	0.0	0.4	0.4	0.6
Mar-13	Average Waste Level		317.27	309.91	307.60	299.74	286.27
	Average Waste Thickness		46.55	38.12	34.83	25.95	11.55
	Percentage Difference			2.0	0.3	0.4	0.2
Feb-12	Average Waste Level			310.69	307.71	299.84	286.30
	Average Waste Thickness			38.89	34.94	26.04	11.58
	Percentage Difference			1.0	0.4	0.2	-0.6
Jan-11	Average Waste Level			311.06	307.86	299.90	286.23
	Average Waste Thickness			39.27	35.10	26.10	11.51
	Percentage Difference			0.9	0.4	0.1	0.5
Jan-10	Average Waste Level			311.43	307.99	299.92	286.29
	Average Waste Thickness			39.64	35.23	26.13	11.57
	Percentage Difference			1.5	1.0	1.3	0.8
Dec-09	Average Waste Level			312.02	308.36	300.26	286.38
	Average Waste Thickness			40.23	35.59	26.47	11.67
	Percentage Difference			1.8	-3.3	0.2	21.0
Jan-08	Average Waste Level			312.75	307.22	300.32	289.48
	Average Waste Thickness			40.96	34.46	26.52	14.76
	Percentage Difference				4.4	1.4	-1.3
Jan-07	Average Waste Level				308.80	300.69	289.29
	Average Waste Thickness				36.04	26.89	14.58
	Percentage Difference					3.1	-0.4
Jan-06	Average Waste Level					301.55	289.23
	Average Waste Thickness					27.75	14.51
	Percentage Difference					2.4	2.8
Jan-05	Average Waste Level					302.24	289.65
	Average Waste Thickness					28.44	14.93
	Percentage Difference					-9.1	-12.3
Feb-04	Average Waste Level					299.86	288.02
	Average Waste Thickness					26.1	13.3
Overall Difference		-0.57	-0.59	-2.419	-1.412	-2.630	-3.414
Assumed Difference (Average Base Level)		272.381	270.712	271.793	272.765	273.797	274.719



Average level omitted for Phase 4A permanent capping works haulage road.

Level prior to restoration.

Restored level.



- NOTES
1. ALL LEVELS TO mAOD
 2. DO NOT SCALE FROM THIS DRAWING
 3. FOR SECTION DETAILS PLEASE REFER TO AC2013/ENG/003/002

KEY

SETTLEMENT SECTION LINE

OPERATIONAL WASTE CELL

PHASE 2A RESTORED CAPPING AREA (AV.LEVEL 286.269m)

PHASE 2B RESTORED CAPPING AREA (AV.LEVEL 299.742m)

PHASE 2C RESTORED CAPPING AREA (AV.LEVEL 307.598m)

PHASE 3A RESTORED CAPPING AREA (AV.LEVEL 309.908m)

PHASE 3B RESTORED CAPPING AREA (AV.LEVEL 317.266m)

PHASE 4A ACCESS ROAD

REV	DESCRIPTION	DATE	BY

CLIENT

AMGEN CYMRU
BRYN PICA
LLWYDGOED
ABERDARE
CF44 0BX

TEL: 01685 870770
FAX: 01685 874684



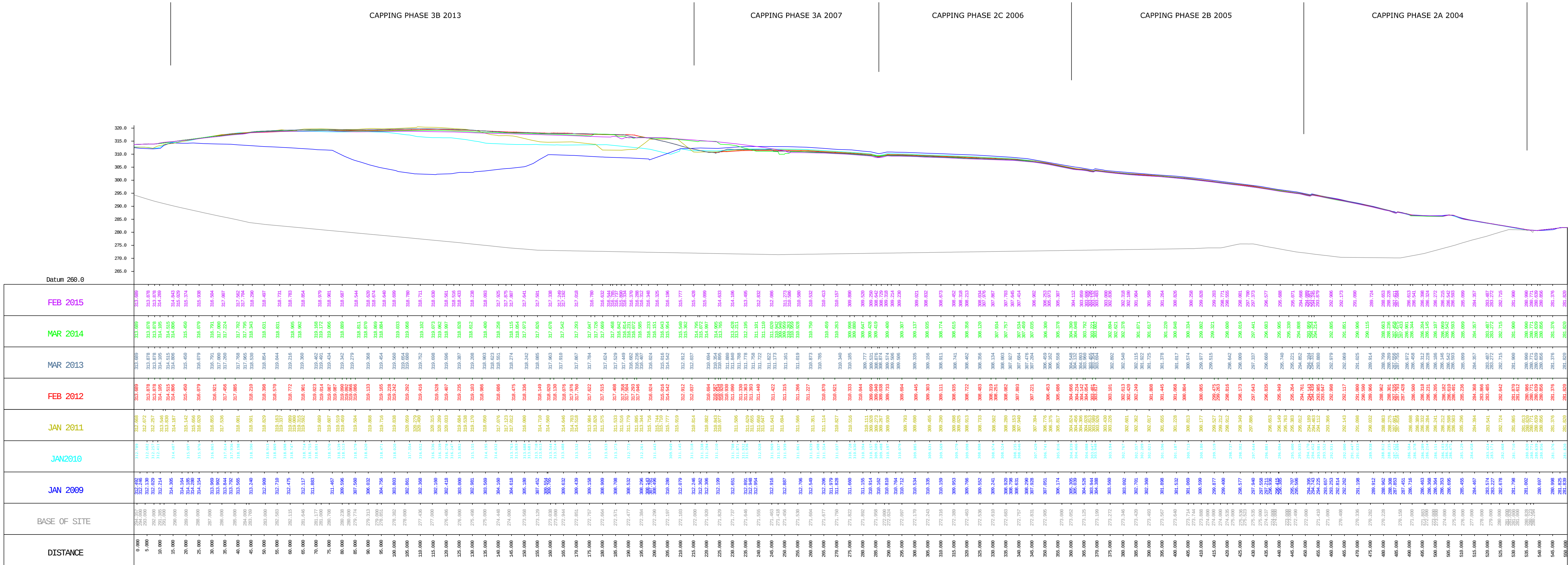
JOB TITLE

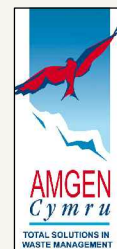
**BRYN PICA LANDFILL SITE
ANNUAL REPORT 2012**

DRAWING TITLE

**SITE SURVEY
MARCH 2013**

DRAWN	DATE	APPROVED	DATE
A.P.W.	14/03/14	L.F.	14/03/14
SCALE	SHEET	DRAWING NUMBER	REVISION
1:1250	A1	AC2014/ENG/03/001	0





AMGEN CYMRU

BRYN PICA

LLWYDGOED

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PROJECT TITLE

BRYN PICA WASTE MANAGEMENT FACILITY ANNUAL REPORT 2014

DRAWING TITLE

TYPICAL SECTION THROUGH PHASES 2A, 2B, 2C, 3A & 3B SHOWING SETTLEMENT CHARACTERISTICS

DRAWN BY

APW

DATE

16.02.2015

CHECKED BY

APW

16.02.2015

SCALE

1:750

SHEET SIZE

A1

DRAWING No:

AC2015/ENV/03/002

REVISION

1

REV

DESCRIPTION

DATE

BY

NOTES