

GM Waste DPD: Policy 2 Residual Non Hazardous Waste: Minor Proposed Changes Explanation and Detail

This paper explains the need to update Policy 2 as a result of the recent granting of a planning permission at a landfill site in Greater Manchester and a subsequent review of the capacities of remaining non hazardous waste allocations which revealed a minor drafting error in the figures contained within Tables 6a and 6b. It supports the proposals set out in minor changes (APMC/AGMA/11-17).

A detailed explanation of the issues are as follows:

1. In April 2011 Bury MBC approved an extension of landfilling operations at Pilsworth South Landfill for an additional 1.8million m³ of void space over an additional 4.5 year period (commencing in 2024). As this site now has planning permission there is no need to allocate it within the Waste Plan and the additional capacity available at this site results in a reduction in the Plan's overall capacity requirement for non hazardous residual waste disposal;
2. In reviewing the figures in Policy 2 following the grant of planning permission at Pilsworth South it was found that incorrect figures have been transposed into the Policy from the Model database which feeds into the Needs Assessment (TD010) this has been included in Appendix 1 below. It is the figures in row 18 (cumulative capacity gap for disposal 2011-27) which were included instead of the figures in row 19 (cumulative capacity gap for disposal 2012-2027). The updated figures themselves are not new as they have been part of the Plan since early 2010 and were included as part of the Publication consultation in late 2010. Correct figures for cumulative capacity need to be included within Policy 2 tables 6a and 6b:
 - a. The correct figures have been included in an updated version of tables 6a and 6b in Appendix 2 below as red text in a separate row below the existing information. It is proposed to replace the existing text with the red text within the adopted DPD.
 - b. In addition, the final 4 columns of Table 6b have been updated to reflect a reduction in the overall capacity requirement for non hazardous residual waste disposal throughout the Plan period, due to the recent granting of an extension at Pilsworth South Landfill. The planning permission extends the life of the landfill by 4.5 years. Given the need to restore the site within this time it has been assumed that all inputs to the

site will occur within the Plan period at a rate of 450,000 tonnes per annum with restoration commencing from early 2028.

As a result of the above several changes to the Submitted DPD are necessary:

- a. Update Policy 2 Table 6a and 6b (in line with the tables included below) – Appendix 2;
- b. Update Policy 2 Reasoned Justification – Appendix 3;
- c. Removal of Pilsworth South from Policy 7 and update paragraphs 3.30 and 3.34 – Appendix 4;
- d. Removal of Pilsworth South profile from Submitted DPD Appendix 1 Residual Waste Management Site Profiles
- e. Update paragraph 2.38 and Figure 6 graph to reflect an increase in landfill capacity between 2024-2028 – Appendix 5;
- f. Update Monitoring Table: Policy 2- Non Hazardous Waste Disposal – Appendix 6; and
- g. Update 'Headline Waste capacity Requirements in Greater Manchester' pg 27 of Submission DPD – Appendix 7.

(Appendix 1 is included for the reasons set out within para 2 above)

Appendix 1: Extraction from Waste Capacity Model Database (C&I figures 2011-2027)

Row	C&I Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	Arisings- recycling	2173	2217	2268	2323	2375	2386	2395	2399	2404	2408	2402	2396	2389	2383	2376	2370	2364
2	Arisings- composting	144	155	165	175	186	189	192	195	198	201	201	201	200	200	200	200	200
3	Arisings- treatment	109	159	155	151	147	157	166	174	183	172	172	171	170	170	169	169	168
4	Arisings-Energy recovery	232	290	350	411	471	473	474	474	474	474	474	474	474	473	473	473	473
5	Arisings- landfill	1420	1257	1148	1041	931	910	889	866	843	839	838	838	838	838	837	837	836
6	Total C&I arisings	4078	4078	4086	4101	4110	4115	4116	4108	4102	4094	4087	4080	4071	4064	4055	4049	4041
7	Capacity- recycling	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724
8	Capacity- composting	259	259	259	259	239	239	239	239	239	239	239	239	239	239	239	239	239
9	Capacity- Treatment	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395
10	Capacity- Energy recovery	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
11	Capacity- landfill	1282	832	832	832	482	482	482	482	482	482	482	482	482	450	450	450	450
12	Total C&I capacity	5780	5330	5330	5330	4960	4960	4960	4960	4960	4960	4960	4960	4960	4928	4928	4928	4928
13	Gap- Recycling	551	507	456	401	349	338	329	325	320	316	322	328	335	341	348	354	360
14	Gap- Composting	115	104	94	84	53	50	47	44	41	38	38	38	39	39	39	39	39
15	Gap-Treatment	1286	1236	1240	1244	1248	1238	1229	1221	1212	1223	1223	1224	1225	1225	1226	1226	1227
16	Gap- Energy recovery	-112	-170	-230	-291	-351	-353	-354	-354	-354	-354	-354	-354	-354	-353	-353	-353	-353
17	Capacity- Disposal	-138	-425	-316	-209	-449	-428	-407	-384	-361	-357	-356	-356	-356	-388	-387	-387	-386
18	Disposal- Cumulative Gap 2011-2027	-138	-563	-879	-1088	-1537	-1965	-2372	-2756	-3117	-3474	-3830	-4186	-4542	-5380	-6217	-7054	-7890
19	Cumulative capacity gap for 2012-2027 (PLAN PERIOD) inc new capacity provided by Pilsworth South Extension		-425	-741	-950	-1399	-1827	-2234	-2618	-2979	-3336	-3692	-4048	-4404	-4792	-5179	-5566	-5952

KEY

Updated/Corrected capacity provided through extension to Pilsworth South



Appendix 2
Waste Plan Policy 2: Tables 6a and 6b

Original wording has been included alongside the proposed changes which shown in red text.

Table 6a Disposal Capacity: Cumulative capacity required and facilities identified 2012 – 2019

		2012	2013	2014	2015	2016	2017	2018	2019
EXISTING FIGURES	Cumulative disposal capacity required (tonnes per annum)	563,000	879,000	1,088,000	1,537,000	1,965,000	2,372,000	2,756,000	3,117,000
PROPOSED FIGURES	Cumulative disposal capacity required (tonnes per annum)	425,000	741,000	950,000	1399,000	1,827,000	2,234,000	2,618,000	2,979,000
	Disposal site where capacity will be provided ¹	Pilsworth South Whitehead landfill	Pilsworth South Whitehead Landfill	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>
	Indicative lead in time for Planning purposes	Engineering works at Whitehead	Engineering works at Whitehead	Infilling commences at Whitehead Landfill Extension					

¹ Text in italics indicates new planning permission required

Table 6b Disposal Capacity: Cumulative capacity required and facilities identified 2020 – 2027

		2020	2021	2022	2023	2024	2025	2026	2027
EXISTING FIGURES	Cumulative disposal capacity required (tonnes per annum)	3,474,000	3,830,000	4,186,000	4,542,000	5,380,000	6,217,000	7,054,000	7,890,000
PROPOSED FIGURES * = figures also adjusted to account for Pilsworth South planning permission	Cumulative disposal capacity required (tonnes per annum)	3,336,000	3,692,000	4,048,000	4,404,000	4,792,000*	5,179,000*	5,566,000*	5,952,000*
	Disposal site where capacity will be provided ¹	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i>	Pilsworth South <i>Whitehead Landfill Extension</i> <i>Pilsworth North Extension</i>	<i>Whitehead Landfill Extension</i> <i>Pilsworth North Extension</i>	<i>Whitehead Landfill Extension</i> <i>Pilsworth North Extension</i>	<i>Whitehead Landfill Extension</i> <i>Pilsworth North Extension</i>	<i>Whitehead Landfill Extension</i> <i>Pilsworth North Extension</i>
	Disposal site where	Pilsworth South	Pilsworth South	Pilsworth South	Pilsworth South	Pilsworth South	Pilsworth South	Pilsworth South	Pilsworth South

¹ Text in italics indicates new planning permission required

	capacity will be provided	Whitehead Landfill Extension	Whitehead Landfill Extension	Whitehead Landfill Extension	Whitehead Landfill Extension Pilsworth North Extension	Extension Whitehead Landfill Extension Pilsworth North Extension	Extension Whitehead Landfill Extension Pilsworth North Extension	Extension Whitehead Landfill Extension Pilsworth North Extension	Extension Whitehead Landfill Extension Pilsworth North Extension
	Indicative lead in time for Planning purposes	Planning permission sought for Pilsworth North Extension	Engineering work commences at Pilsworth North Extension	Engineering work continues at Pilsworth North Extension	Infilling commences at Pilsworth North Extension				

N.B The conversion factor of void space volume to tonnes of waste used in the Waste Plan is 1:1 (1m³ of void space will accommodate 1 tonne of non inert waste). The reasons for this conversion factor stem from three sources:

- Environment Agency support the use of this conversion factor <http://www.environment-agency.gov.uk/static/documents/Business/ConversionFactors.xls>
- It is supported by the specific landfill site operators who are best placed to understand the composition of the waste stream being accepted at their sites
- It is supported by neighbouring authorities such as Merseyside in their calculations relating to landfill capacity and waste inputs.

Appendix 3: Update Policy 2 Reasoned Justification

Reasoned Justification

2.40 To maintain an adequate landfill capacity. Adequate means recognising the needs of Greater Manchester and also the importance of landfill capacity regionally whilst seeking not to over-provide which may encourage unnecessary landfilling of wastes.

2.41 The full range of issues including geological, environmental and social constraints were considered when identifying sites for future landfill provision in Greater Manchester, these were addressed through the site search methodology and consultation processes and can be found within the Evidence Base document 'Site Search Methodology'.

2.42 The plan has identified, in Policy 7, suitable sites for this purpose:

- Whitehead Landfill with a total capacity of 4 million m³¹
- Pilsworth North with a total capacity of 2 million m³

2.43 The phasing of these sites as set out in the policy has been determined largely by the operational requirements of these landfills. As Whitehead and Pilsworth South are already operational it is logical to complete operations at these sites before commencing engineering and operations at Pilsworth North. This phased approach supports the need to reduce cumulative impact on the areas surrounding these sites, where two sites at separate locations operate concurrently the vehicle movements and any other low level impacts can be shared between them. This approach also provides security of capacity, so if a site is unoperational for any reason, the other can be used, therefore reducing any requirement for export of waste.

¹ The conversion factor of void space volume to tonnes of waste used in the Waste Plan is 1:1 (1m³ of void space will accommodate 1 tonne of non inert waste)

Appendix 4

New text for Policy 7 Table 11

Site Reference	Site Name	Type of Facility
BU11	Pilsworth North Quarry and Landfill	Residual non hazardous waste disposal
W21	Whitehead Landfill	Residual non hazardous waste disposal

New text for paragraph 3.30

There are three non-hazardous landfills currently accepting waste in Greater Manchester: Pilsworth South on the Bury/ Rochdale border; Highmoor in Oldham; and Whitehead on the Salford/ Wigan border. Whilst an extension permitted at Pilsworth South in 2011 means that there will be some capacity for landfilling in Greater Manchester throughout the Plan period, this will result in provision of only half of the annual non hazardous residual waste capacity required between 2015-2027. Unless new permissions are granted, Greater Manchester will be unable to provide sufficient non-hazardous landfill capacity after 2015.

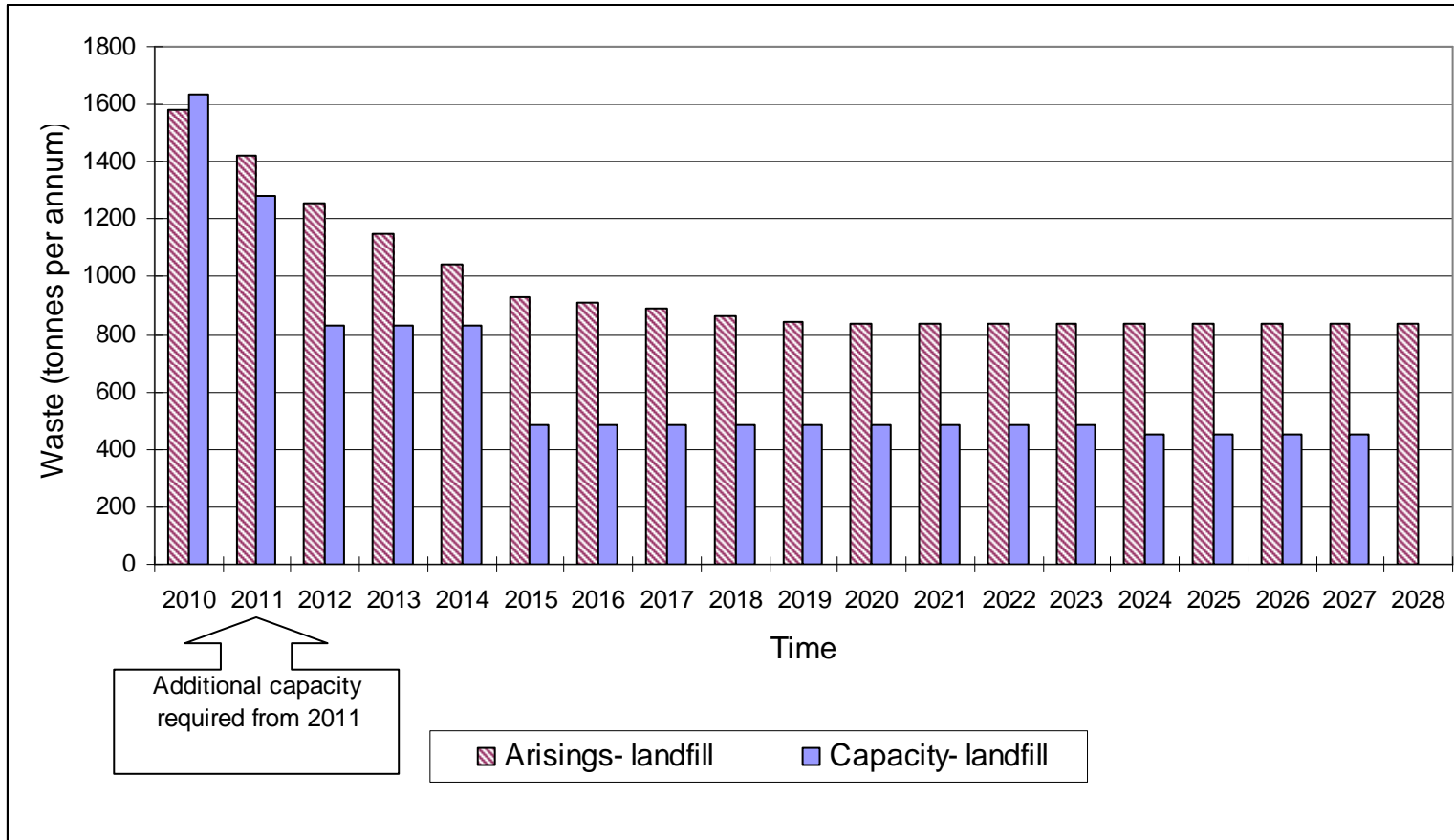
New text for paragraph 3.34

3.34 Notwithstanding the difficulty in identifying new sites for residual waste disposal and their stringent locational requirements, the two sites allocated for residual waste disposal perform well in relation to the Waste Plan's spatial approach.

Appendix 5: Update paragraph 2.38 and Figure 6 graph to reflect an increase in landfill capacity between 2024-2028

2.38. The major component of non hazardous waste is Commercial and Industrial waste, however all major waste streams included within the Needs Assessment, including local authority collected waste also contribute to this. Overall arisings of non hazardous waste to be disposed of via landfill/landraise are set to decline across the plan period. This is largely as a result of the reduction of Local Authority collected waste being sent to landfill as new treatment facilities commence operation, but also because Commercial and Industrial wastes will be diverted from landfill through pretreatment and waste minimisation in line with government targets. Existing available capacity declines sharply between 2010-2015 then stabilises at around 450,000 tonnes per annum, but this level is less than half of the actual capacity required between 2015-2028.

Figure 6: Non hazardous Waste: Disposal Capacity illustrated by arisings and current and planned capacity from 2010-2028



Appendix 6: Update Monitoring Table: Policy 2- Non Hazardous Waste Disposal

Target (2012-2027)	Variance	What happens beyond variance
Year: Capacity required 2012: 425,000 2013: 741,000 2014: 950,000 2015: 1,399,000 2016: 1,827,000 2017: 2,234,000 2018: 2,618,000 2019: 2,979,000 2020: 3,336,000 2021: 3,692,000 2022: 4,048,000 2023: 4,404,000 2024: 4,792,000 2025: 5,179,000 2026: 5,566,000 2027: 5,952,000	Capacity is 10% more or less than the capacity required for the year in question.	Implications of more capacity: <ul style="list-style-type: none"> • Transport costs of importing waste attracted by spare capacity • Potential discouragement of waste being dealt with at a higher level in the waste hierarchy Implications of less capacity: <ul style="list-style-type: none"> • Individual sites within Greater Manchester may fill up faster • Need to transport waste to sites in neighbouring authorities Action: <ul style="list-style-type: none"> • Bring forward date of next Needs Assessment to see whether levels of arisings are influencing variance in provision

Appendix 7: Update 'Headline Waste capacity Requirements in Greater Manchester' pg 27 of Submission DPD.

Headline Waste Capacity Requirements in Greater Manchester 2012-2027

Non hazardous waste disposal

Between 2012 and 2027, a total of 5.9 million tonnes of waste disposal capacity will be required; this will be accommodated at two extensions to existing landfill facilities.