

Appendix A

Data Log



Entec

An AMEC company



List of data required for Gatwick WCS, from Crawley, Horsham, Mid Sussex and Reigate and Banstead Councils:

Data Required For the Administrative Area	Reason	Received Date / Source
<ul style="list-style-type: none"> Existing housing numbers and population figures by ward, parish or district (Existing numbers needed geographically to link to wastewater treatment works catchments) 	Existing housing/population numbers are needed to determine existing demand and effluent flows, and also to determine the remaining housing numbers required to meet the RSS target from 2010 to 2026.	Crawley –12.05.10 Horsham – email 04.05.10 Mid Sussex – 12.05.10 Reigate & Banstead – 30.04.10
<ul style="list-style-type: none"> An average occupancy rate for housing in the study area, if available 	Occupancy rates needed to determine population numbers.	Crawley & Horsham - Inception minutes (m010) Mid Sussex – email 07.05.10 Reigate & Banstead – 30.04.10
<ul style="list-style-type: none"> Proposed/preferred development sites location (shapefiles if possible), 	Development polygons, if available, will be used for mapping outputs and assessment of flood risk.	Crawley – 29.04.10 Horsham – 06.05.10 AMR by parish Mid Sussex – 04.05.10 Reigate & Banstead – 30.04.10 (PDF)
<ul style="list-style-type: none"> Proposed housing numbers by ward and timeline of development. 	Future housing numbers will be used to determine predicted demand for water supply and increase in sewage effluent.	Scenarios agreed by various emails with the authorities during June 2010
<ul style="list-style-type: none"> Proposed non-residential development sites, with floor area and location (and shapefiles if possible) 		Crawley – 29.04.10, ELR review 18.06.10 Horsham –18.06.10 Mid Sussex –18.06.10 Reigate & Banstead – 30.04.10
<ul style="list-style-type: none"> Other planning documents to provide background to the aims and objectives of the Core Strategy and LDF 		Crawley – email 27.04.10 Horsham – email 06.05.10 Mid Sussex – email 27.04.10 Reigate – email 05.05.10
<ul style="list-style-type: none"> Surface Water Flood Maps (available to Councils from Environment Agency website) 	Surface Water flood maps to highlight susceptibility to surface run-off flooding	Horsham – D021 Crawley - D031 Mid Sussex – D 024 Reigate – email 01.06.10

Data Required For the Administrative Area	Reason	Received Date / Source
<ul style="list-style-type: none"> • GIS Polygons of Council's administrative boundaries • GIS Polygon of Study Area (as used in the Scoping Study) 	Boundary shapefiles required for mapping outputs	D014 27.04.10 D054 – Mix Sussex
<ul style="list-style-type: none"> • Data and outputs from the Scoping Study 		From proposal

List of data required for Gatwick WCS:

Item	Data Required	Source & Ownership	Reason	Received Date / Source	
Water Resources	GIS shapefiles of Source Protection Zones	Environment Agency (EA)	To determine constraints for infiltration SuDS	17.06.10 provided by Mid Sussex DC	
	GIS/Info of existing supply network Information on known bottlenecks	Sutton & East Surrey Water (SES), Southern Water (SW), South East Water (SEW)	To review potential constraints to growth from infrastructure	High level discussion with water companies, information needed is too detailed and not available at this stage	
	Most up to date information on indicative/finalised sustainability reductions	EA/SES, SW, SEW	To review potential constraints to growth from environmental concerns	EA advised no sustainability reductions	
	Final Water Resources Management Plan	SES, SW, SEW	To confirm information used is the most up to date for the water resource assessment	SEW – Jan 2010 version and xls (online) SWS – Sep 2009 version (online) SWS – xls received 17/05/2010 S&ES – Mar 2010 version (online)	
	Still waiting for S&ES Sutton and East Surrey xls (left message with Jeremy Downer). And GIS				
	Details of the growth allowances in the Council areas included within the Final WRMP. i.e. additional number of households and timescale over which they are assumed to be constructed, occupancy of the new households, per capita consumption allowance.	SES, SW, SEW	To check against the council's growth targets	Water companies have used South East Plan figures	
Details of planned water supply network improvements (funded and planned in PR09) within SES, SW, SEW Resource Zones.	SES, SW, SEW	To inform the potential constraints to growth in the future / planning period	Not included		

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	Details e.g. location and timing of new trunk mains, enhancements/booster stations etc. Info on drivers already anticipated e.g. new growth or maintenance.			
Wastewater / sewerage	List of all wastewater treatment works (WwTW), brief description of treatment processes, and population served (current/ and basis of future estimates) and proportion of trade effluent (as population equivalent)	Thames Water (TWS), SWS	To review existing wastewater treatment in the Borough	SWS – list of works, 01.06.10 TWS – list of works, 10.06.10
	Discharge quality consents for WwTW, and current and historic performance (summary of compliance/effluent quality)		To review the historic performance of works – have they ever failed to meet quality standards?	SWS – 01.06.10 TWS – 17.09.10
	WwTW discharge flow data (DWF, max flow, measured mean flow) Summary statistics on flows for all works would also be very useful		To determine the capacity of works to receive additional flow	SWS – 01.06.10 TWS – 10.06.10
	Any WwTW affected by discharge to UWWT Directive sensitive areas		To determine constraints to discharges and hence growth	SWS – 01.06.10
	Maps/shapefiles showing WwTW catchments		To map growth areas to wastewater treatment works	SWS – 17.05.10 Thames – 04.06.10
	Indication of current hydraulic/treatment headroom available at WwTW (and limiting factor, i.e. inlet works, secondary treatment etc).		To inform capacity assessments	SWS – 01.06.10
	Indication of current headroom available in sewer system, AMP or other internal modelling and reports considering future			

Item	Data Required	Source & Ownership	Reason	Received Date / Source
	<p>growth scenarios</p> <p>Projected headroom after future growth scenarios.</p> <p>Any internal reports with further information</p>			
	List of CSOs (and known issues; current and historic)		To review constraints to development	SWS/TWS – tel call, no major CSOs
	Sewer network coverage (map/shapefile or schematic)		To collate existing information on sewerage	Not provided
	Sewer incidents (e.g. flooding, blockages)		To collate existing information on sewer capacity	Not provided
	AMP5 asset specific plans (e.g. upgrades) or summaries of long-term wastewater management plans		Required to include planned improvements in our assessment of future capacity in the sewerage infrastructure	Tel call with SWS and TWS
	Sludge management		To collate existing information and plans for the future	Not provided, from web documents
Water Quality	Shapefiles or Maps of existing WFD status for watercourses in the Borough, showing overall status and also phosphorous / BOD / Ammonia / Nitrate levels if available	EA	To collate existing information on water quality	Overall status sent by email from EA 20.08.10
	EA reports/studies specific to any of the relevant WwTW discharges	EA	To gather existing information	Water quality & growth in Mid Sussex – sent 01.06.10
	<p>List of water dependent protected / designated sites and interest features, and GIS shapefiles, including:</p> <p>- Cyprinid or Salmonid Waters; - Environmentally Sensitive Areas; - waters used for drinking water abstraction; -</p>	EA/Natural England	To identify sensitive receptors that require consideration in future growth plans	No additional designations to those already publicly available

Item	Data Required	Source & Ownership	Reason	Received Date / Source
	priority BAP aquatic habitats.			
	Indication of future WFD standards against which compliance will be assessed	EA	To include in our assessment of future environmental capacity	Not available
Flood Risk	GIS shapefiles of flood zones	EA	To collate existing information on flood risks	Received from Councils
	Records of sewer / surface water flooding	TW, SW	To identify areas of reported surface water flood risk	SW flood maps received from Councils
	Rivers shapefiles	EA	For mapping outputs	Received from Councils