



SUPPORTING DOCUMENTATION FOR ISH1 AND ISH2

FOR THE DEVELOPMENT CONSENT ORDER APPLICATION FOR THE ALTERATION AND CONSTRUCTION OF HAZARDOUS WASTE AND LOW LEVEL RADIOACTIVE WASTE FACILITIES AT THE EAST NORTHANTS RESOURCE MANAGEMENT FACILITY, STAMFORD ROAD, NORTHAMPTONSHIRE

PINS project reference: WS010005

PINS document reference: 11.3

April 2022



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Document reference 11.3

Supporting documentation for ISH1 and ISH2

Issue Specific Hearing 1

Agenda Item	Supporting document	Annex
3cii	LIVA Viewpoint Summary Table	А
	Additional Viewpoint A (Stamford Road) and Viewpoint B (Paddock/Dog Walking Field Of The Barn Property) Looking Towards Work No. 3 (Drawing number EN0RTH034) Viewpoint 3 (Footpath Mx15): Existing View and Photomontage View during Operational Stage (Phases 20 & 21) with 15m high building In Work No. 2 (Drawing number EN0RTH035)	
	View and Photomontage View during	
	Operational Stage (Phases 20 & 21) with 15m high building In Work No. 2 (Drawing number EN0RTH036)	

Issue Specific Hearing 2

Agenda Item	Supporting document	Annex
3d	Table presenting the Waste policies and targets relevant to Green House Gases and <i>Net Zero</i>	В
6a	Augean's approach to the application of the waste hierarchy to wastes managed by Augean.	C



ANNEX A LVIA VIEWPOINT SUMMARY TABLE DRAWING NUMBER ENORTH034 DRAWING NUMBER ENORTH035 DRAWING NUMBER ENORTH036



LVIA Viewpoints where the likely significant visual and landscape effects of Work No. 2 (Waste treatment and recovery facility) and Work No. 3 (Site reception and office area) were assessed regarding existing and potential new built features

Viewpoint Assessed	Location of Viewpoint	Distance from Work Nos 2 & 3	Work No. 2: Waste treatment and recovery facility	Work No. 3: Site reception and office area	Where this is stated in the LVIA (PINS document reference 5.4.14.1, APP-088)	
VP1	Jurassic Way, near Roval Oak Pub	Work No. 2: 1.7km, Work No. 3: 2.5km	Not assessed (No views of site)	Not assessed (No views of site)	Page 103	
VP2	FP MX18, west of Collyweston Quarry	Work No.2: 1.3km, Work No. 3: 2.0km	Not assessed (No views of Area 2)	Not assessed (No views of Work No. 3)	Page 104	
VP3	FP MX15, west of site	Work No. 2: 500m, Work No. 3: 1.2km	Assessed	Not assessed (No views of Work No. 3)	Page 107 Views of the waste treatment and recovery facility, specifically the silos within the north-eastern part of this area, [the development site] would continue for a longer duration than would otherwise be the case, due to the Proposed Development. In addition, the silos may be moved to another location within the treatment facility as part of the longer-term operational requirements. This would cause some minor visual effects but when compared with the existing visual context, and the fleeting nature of the view for Footpath users crossing this gap in the woodland blocks, the Significance of Effects would not be of a major level. As noted above, views of the silos and other infrastructure within this area would, at some point, be screened by the evolving landfill landform.	The facil silos of V effe As s of E with trea mas situ resp effe tow app bey ente effe and stru befo carr A p 15n 2 [Do
VP4	FP MX13 to southwest of site	Work No 2: 950m, Work No 3: 1.3km	Not assessed (No views of Work No 2)	Not assessed (No views of Work No 3)	Pg 110	
VP5	Stamford Rd, near Westhay Lodge	Work No 2: 1.4km, Work No 3: 750m	Not assessed (No views of Work No 2)	Not assessed (No views of Work No 3)	Pg 112	
VP6	BW NE8 to southeast of site	Work No 2: 1.7km, Work No 3: 1.0km	Not assessed (No views of site)	Not assessed (No views of site)	Pg 114	
VP7	Willow Lane, north of Kings Cliffe	Work No 2: 2.1km, Work No 3: 2.0km	Not assessed (No views of site)	Not assessed (No views of site)	Pg 115	
VP8	BW NE25 northeast of Kings Cliffe	Work No 2: 2.6km, Work No 3: 2.0km	Not assessed (No views of site)	Not assessed (No views of site)	Pg 116	

AU/KCW/LZH/1724/01





Supplementary Comments

silos at the waste treatment and recovery ility are approximately 14m high and if the s were moved anywhere within the footprint Work No. 2 there would only be minor visual ects.

stated in the Applicant's response to Q8.1.3 ExQ1 (REP2-006) if a building 120m by 102m a height of 15m is constructed on the waste atment and recovery facility, whilst the ssing would change from the current ation, the conclusions of the LVIA with pect to VP3 would not change (i.e. visual ects would be of minor adverse significance). views from VP3 are transient, not oriented ards the site and are limited to an proximately 52m stretch of Footpath MX15, yond which to the north and south, the route ers well established woodland which ectively screens views of the waste treatment recovery facility, even in winter. All uctures in Work No 2 would be removed fore the final phase of landfilling (Phase 11) is ried out.

photomontage has been prepared to show a m high building of 120m x 102m in Work No. (refer to Drawing No. ENORTH035) ocument reference 11.3]

Viewpoint Assessed	Location of Viewpoint	Distance from Work Nos 2 & 3	Work No. 2: Waste treatment and recovery facility	Work No. 3: Site reception and office area	Where this is stated in the LVIA (PINS document reference 5.4.14.1, APP-088)	
VP9	BW NE8 northeast of Kings Cliffe	Work No 2: 2.3km, Work No 3: 1.6km	Not assessed (No views of Work No 2)	Assessed	Pg 118 The existing 7.9m high building is either not visible or barely discernible from this location and at all points along this PRoW. Therefore an additional 8m high building placed anywhere within Work No. 3 would be similarly inconspicuous in the view and is very likely to be missed by PRoW users.	Furt App 006) is sh is c docu that build shed the simi repla diffe rem PRo char sign whe For is n build soft soft soft soft soft soft soft soft
VP10	FP NE20 northeast of Kings Cliffe	Work No 2: 2.5km, Work No 3: 1.9km	Not assessed (No views of the site)	Not assessed (No views of the site)	Pg 120	
VP11	FP NE20 near Bedford Purlieus Wood	Work No 2: 2.7km, Work No 3: 2.1km	Not assessed (No views of Work No 2)	Assessed	Pg 122 The existing 7.9m high building is either not visible or barely discernible from this location and at all points along this PRoW. Therefore an additional 8m high building placed anywhere within Works Area 3 would be similarly inconspicuous in the view and is very likely to be missed by PRoW users.	Furt App 006) is sh in the be n heig be n an a were was exis visu but rega unad cont For is n buik port cons so the



Supplementary Comments

her clarification was provided in the licant's response to Q8.1.3 of ExQ1 (REP2-). The maximum height assessed in the LVIA hown for the 7.9m high storage shed which urrently in the site reception area (PINS ument reference 2.6. APP-009). It is unlikely it will be necessary to have additional dings of this height and size but the storage d will need to be retained for the duration of operations. If an additional storage shed of lar dimensions were constructed, or a acement storage shed was constructed in a erent location, with the existing shed oved, this may increase the visual effects on W users to a limited extent but would not nge the conclusions in the ES regarding their ificance into the unacceptable category, in the baseline context is taken into account. the smaller buildings within Work No 3, there no limit to the numbers or locations of dings (typically single or double height acabin type structures) that could be structed as the buildings would not be visible here would be no visual effects.

her clarification was provided in the licant's response to Q8.1.3 of ExQ1 (REP2-). The maximum height assessed in the LVIA nown for the storage shed which is currently he site reception area (PINS document rence 2.6. APP-009). It is unlikely that it will necessary to have additional buildings of this the storage shed will need to etained for the duration of the operations. If additional storage shed of similar dimensions e constructed or a replacement storage shed constructed in a different location, with the ting shed removed, this may increase the al effects on PRoW users to a limited extent would not change the conclusions in the ES arding their significance into the cceptable category, when the baseline text is taken into account.

the smaller buildings within Work No 3 there no limit to the numbers or locations of dings (typically single or double height acabin type structures) that could be structed as the buildings would not be visible here would be no visual effects.

Viewpoint Assessed	Location of Viewpoint	Distance from Work Nos 2 & 3	Work No. 2: Waste treatment and recovery facility	Work No. 3: Site reception and office area	Where this is stated in the LVIA (PINS document reference 5.4.14.1, APP-088)	
VP12	Junction of FP MX18 & FP MX15 west of site	Work No 2: 750m, Work No 3: 1.5km	Not assessed (No views of Work No 2)	Not assessed (No views of Work No 3)	Pg 123	-
VP13	The Barn property, west of Westhay Lodge	Work No 2: 1.2km, Work No 3: 700m	Assessed	Not assessed (No clear views of Work No 3)	Pg 126 Residents are used to viewing the evolving landfill which reduces sensitivity to further activity to some extent. B&B guests are not similarly conditioned to the view but would experience it for a relatively short duration. [This comment relates to both Work Nos 2 and 3] The waste treatment and recovery facility (Work No. 2) is largely screened by the existing ENRMF landfill and any relocation of the silos would not cause notable visual disturbance. The facility is likely to be fully screened in a few years anyway by the landfill.	Furt App 006 Lode view infra whice In a is p for v of T with If a dime stora loca may exte the unad cont For is n (typi strue build top the v leve

Further viewpoints for additional clarification

The locations of Viewpoints A and B are shown on drawing reference ENORTH034

Viewpoint	Location of Viewpoint	Distance from Area 2 and Area 3	Area 2: Waste treatment and recovery facility	Area 3: Site reception and office area	
VPA	Stamford Rd, c. 285m north of Westhay Lodge	Work No 2: 1.1km, Work No 3: 445m	No views of Work No 2	Views of Work No 3	The existing 7.9m from this viewpo proportion of the v ExQ1 8.1.3 [REP 2

AU/KCW/LZH/1724/01 April 2022



Supplementary Comments

ther clarification was provided in the blicant's response to Q8.1.3 of ExQ1 (**REP2**b). For residents at The Barn and Westhay loge, the existing scale of the landfill within the w and the current visibility of various astructure/buildings influences the context in ch any new development would be viewed. addition, the storage shed within Work No. 3 partially screened by intervening vegetation views from the garden to the immediate west The Barn property, and is not visible from hin the property itself.

an additional storage shed of similar ensions were constructed, or a replacement rage shed was constructed in a different ation, with the existing shed removed, this y increase the visual effects to a limited ent but would not change the conclusions in ES regarding their significance into the icceptable category, when the baseline text is taken into account.

the smaller buildings within Work No 3, there o limit to numbers or locations of buildings ically single or double height portacabin type ctures) that could be constructed as the dings would likely not be seen and even if the parts of the buildings were partially visible, visual effects would be of a Negligible - Minor el.

Comments

high storage shed in Work No. 3 can be seen bint. The building occupies a very small riew. As stated in the Applicant's response to **2-006]** due to the landfill in the background,

					the shed does not visibility to some operation as a w roadside hedge th are restricted. I dimensions were constructed in a removed, this may a limited extent bu unacceptable cate account, including users. For the smaller by the numbers or lo height portacabin the buildings wou of the buildings wou a Negligible level.
VPB	Paddock in northern field owned by residents of The Barn, occasionally used by B&B guests for dog walking	Work No 2: 1.2km, Work No 3: 615m	No views of Work No 2	Views of Work No 3	The existing 7.9m visible from this v proportion of the v ExQ1 8.1.3 [REP at The Barn and landfill within the infrastructure/built an additional st constructed, or a a different locatio increase the visu change their signi the baseline conte For the smaller built the numbers or lo height portacabin the buildings wou of the buildings wou



t emerge above the skyline which reduces its extent and it does effectively merge into the whole. In addition, due to the height of the he majority of views of the site from the road If an additional storage shed of similar constructed or a replacement storage shed a different location, with the existing shed ay increase the visual effects on road users to ut would not change their significance into the egory, when the baseline context is taken into ag the low sensitivity of the majority of road

buildings within Work No 3 there is no limit to boations of buildings (typically single or double a type structures) that could be constructed as all likely not be seen and even if the top parts are partially visible, visual effects would be of

n high storage shed in Work No. 3 is partially viewpoint. The building occupies a very small view. As stated in the Applicant's response to **2-006]** with respect to the view for residents d Westhay Lodge, the existing scale of the e view and the current visibility of various ldings provides the baseline visual context. If torage shed of similar dimensions were replacement storage shed was constructed in on, with the existing shed removed, this may ual effects to a limited extent but would not ificance into the unacceptable category, when text is taken into account.

buildings within Work No 3, there is no limit to ocations of buildings (typically single or double a type structures) that could be constructed as all likely not be seen and even if the top parts were partially visible for residents or guests of isual effects would be of a Minor level.



Additional Viewpoint A (Stamford Road, approximately 445m from storage shed in Work No. 3): Existing View



Additional Viewpoint B (Paddock/dog walking field of The Barn, approximately 615m from the storage shed in Work No. 3): Existing View







Viewpoint 3 (Footpath MX15): Existing (Summer) View



Viewpoint 3 (Footpath MX15): Proposed View at the operational stage (Phases 20 & 21) with 15m high building in Work No. 2





Client	Augean			
Site	ENRMF			
Project	PROPOSED WESTERN EXTE	NSION		
Drawing	Title VIEWPOINT 3 (FOOTPATH MX15): VIEW AND PHOTOMONTAGE VIEV OPERATIONAL STAGE (PHASES 2 WITH 15m HIGH BUILDING IN WOF	EXISTING V DURING 10 & 21) RK NO. 2		
Date	APRIL 2022	Drawing No.		
Scale	Not to Scale @ A3	ENORTH035		
File Ref.	2204_008 006_ENORTH035_VP3 & 15m Building	Revision 0		
DB Landscape Consultancy				



Viewpoint 13 (The Barn residential property - garden): Existing View



Viewpoint 13 (The Barn residential property - garden): Proposed View at the operational stage (Phases 20 & 21) with 15m high building in Work No. 2





Client					
Site	ENRMF				
Project	PROPOSED WESTERN EXTE	NSION			
Drawing VI VI OF 15	Drawing Title VIEWPOINT 13 (THE BARN - GARDEN): EXISTING VIEW AND PHOTOMONTAGE VIEW DURING OPERATIONAL STAGE (PHASES 20 & 21) WITH 15m HIGH BUILDING IN WORK NO. 2				
Date	APRIL 2022	Drawing No.			
Scale	Not to Scale @ A3	ENORTH036			
File Ref.	2204_008 006_ENORTH036_VP13 & 15m Building	Revision 0			
DB Landscape Consultancy					

ANNEX B

TABLE PRESENTING THE WASTE POLICIES AND TARGETS RELEVANT TO GREEN HOUSE GASES AND NET ZERO





Waste policies and targets relevant to Green House Gases and <u>Net Zero</u>

	Policy name	Policy details and targets	Applicant's comments
1.	National Planning Policy for Waste (2014)	This policy was published in October 2014 together with a number of waste management strategies.	This Policy does not include planning policy for radioactive wastes.
2.	The Government Strategy for Hazardous Waste Management in England (2010)	This policy sets out important principles that aim to encourage reductions in hazardous waste arisings and the wider application of the waste hierarchy to the management of hazardous waste.	This policy pre-dates the Hazardous Waste NPS.
3.	Government Resources and Waste Strategy (2018)	This policy includes a commitment to consult on further ways to encourage hazardous waste producers to implement the waste hierarchy.	None of these targets are relevant to the waste accepted at the existing ENRMF or as part of the proposed development.
		This policy also identifies a number of strategic ambitions:	
		 To work towards all plastic packaging placed on the market being recyclable, reusable or compostable by 2025; To work towards eliminating food waste to landfill by 2030; The government will introduce measures for England to increase household recycling by requiring all local authorities to collect a consistent set of dry materials from households in England; to collect food waste separately from all households on a weekly basis; and to arrange for separate garden waste collection. These measures are expected to increase recycling from households from current levels to 65% by 2035. 	
		 This will support our ability to meet commitments on recycling outlined in the Resources and Waste Strategy and in legislation. 5. The United Kingdom is committed to meeting its target of recovering at least 70% by weight of non-hazardous construction and demolition (C&D) waste by 2020. 6. To increase the amount of household like material collected from businesses and other organisations in the municipal waste sector so that 	
		we can increase recycling of waste	

Waste policies and targets relevant to Green House Gases and <u>Net Zero</u>

	Policy name	Policy details and targets	Applicant's comments	
		overall and achieve targets to recycle 65% of municipal waste by 2035. Our latest best available estimates for recycling in this sector put recycling rates at approximately 43%.		
4.	Waste Management Plan for England (January 2021)	 This policy states that Waste Management Plans must: Include the measures to be taken so that, by 2035: 1. the preparing for re-use and the recycling of municipal waste is increased to a minimum of 65% by weight. 2. the amount of municipal waste landfilled is reduced to 10% or less of the total amount of municipal waste generated (by weight). 3. Conform to the strategy for the reduction of biodegradable waste going to landfill required by section 17(1) of the Waste and Emissions Trading Act 2003 	None of these targets are relevant to the waste accepted at the existing ENRMF or as part of the proposed development.	
5.	Environmental Services Association report (annual - latest version published 2021)	A net-zero greenhouse gas emissions strategy for the UK recycling and waste sector. This report represents the view of the leading waste trade sector body.	Augean is a member of the leading waste trade sector body. However the actions and targets in this report are not relevant to the hazardous waste sector.	
6.	Resources and Waste Strategy: Monitoring Progress (November 2021)	 Defra's review of the Government's Resources and Waste Strategy (item 3 above) notes that: In 2019, the waste management sector in England generated an estimated 15.6 million tonnes CO2e (MtCO2e) of greenhouse gas emissions, 71.1% less than the equivalent figure in 1990 (53.9 MtCO2e). Total emissions were at a similar level in 2019 to 2018. In 2019, the waste management sector accounted for 4.7% of England's overall territorial emissions, down from 8.5% in 1990. These figures exclude recycling and incineration with energy from waste (EfW), as these recovery processes are not considered waste management for the purposes of the National Atmospheric Emissions Inventory. The greenhouse gas 	There is no metric for the monitoring and reporting on emissions from the treatment of waste accepted at the existing ENRMF or which will be accepted as part of the proposed development . The approach to reducing GHG emissions is that advanced by the Applicant.	

Waste policies and targets relevant to Green House Gases and <u>Net Zero</u>

Policy name	Policy details and targets	Applicant's comments
	 emissions from EfW were around 6.2 MtCO2e in 2019. In isolation, all waste management processes are emitters of greenhouse gases, but processes such as recycling can contribute to offsetting emissions that might otherwise have arisen. When assessing emissions from waste management, it is important to consider any greenhouse gas savings that may arise through the process of treatment, such as associated with substituting virgin with recycled material, generating energy via incinerating waste, or reducing nitrate fertiliser via anaerobic digestion. The figures providedabove do not account for these savings. 3.7 million tonnes of hazardous waste was generated in 2018, an increase of 24% from 3 million tonnes in 2010. Commercial and 	
	industrial activities are consistently the largest source of hazardous waste.	

ANNEX C

AUGEAN'S APPROACH TO THE APPLICATION OF THE WASTE HIERARCHY TO WASTES MANAGED BY AUGEAN



Additional information submitted in response to Agenda Item 6a for <u>ISH2.</u>

Augean's approach to the application of the waste hierarchy to wastes managed by Augean

The Waste Regulations (England and Wales) Regulations 2011 require the Producer/Holder of a waste to apply the waste hierarchy to their wastes in identifying the most appropriate route for it, according to the characteristics of the waste. This requires identifying the waste management option that meets the highest hierarchical option. However, not all wastes have valid opportunities for recovery, recycling or reuse, hence disposal (for example, by incineration or landfill) remains a valid hierarchical option. This is confirmed in the National Planning Statement for Hazardous Waste.

Augean provides a wide range of services through its treatment, decommissioning, transfer, industrial services, recovery and recycling capability and landfill disposal facilities, and in doing so provides solutions for the handling and treatment of difficult wastes with the aim to optimise and find useful purpose for these materials. Where this is not appropriate, Augean provides safe disposal in highly engineered landfills for wastes that cannot be recycled, reused or recovered, where this is the best practicable environmental option for such wastes.

Augean has specialist treatment and recycling centres that process by-products and waste materials to provide cost effective solutions that span the waste hierarchy for a broad range of hazardous wastes from a wide spectrum of UK sectors at our sites. We provide services which fully utilise assets providing thermal, biological, physico-chemical and mechanical treatment solutions with a focus on generating process residues to appropriate specifications allowing their recycling or recovery as alternative materials and sources of energy for a broad range of process industries.

Augean has significant processing capacity at its two main hazardous waste landfill sites to sustainably treat ash residues from waste and biomass power plants and we continue to provide an important support service to this growing sector. The permits allow the operation of a physico-chemical treatment process to remove the contaminants from soils leaving a clean fraction comprising soil and aggregate which can be reused or used for engineering on the landfills.

The Augean facilities at Avonmouth specialise in the recycling and recovery of:

- Contaminated industrial solvents
- Oils
- Sludges
- Waste Water

The Avonmouth Site has three distillation units that are used to recover solvents from various solvent-based waste streams. The distillate is blended to meet a resale specification and sold back into the market. Avonmouth can offer a toll recovery service (i.e. take a customer's own waste solvent and process it to meet an agreed specification. The recycled material is then returned to the customer for re-use); or also recover solvents to a product specification for onward use in the market (i.e. not sent back to original supplier), with dedicated storage tanks for customers' waste and distillate product.

Our EcoCentre in Peterhead provides thermal, mechanical and chemical innovations to separate the water, oil and solids from oil and gas sector wastes. Oily solids are transferred to a thermomechanical cutting cleaner (TCC) unit for further processing, which recovers oil from the waste. The recovered oil is stored before being used to fuel the TCC process, thus

completely removing the oil from the waste chain and also negating the need for importing virgin fuel oil from elsewhere.

Augean's innovative Port Clarence Waste Recovery Park in Teesside handles a wide range of hazardous wastes including bulk and packaged waste (in drums, IBCs etc), sludges and effluents for recovery and disposal. The site is an integrated waste management facility that uses several complementary processes to recover more waste for reuse, recycling and treatment providing techniques which deliver BAT (Best Available Techniques) for the treatment of hazardous and non-hazardous waste streams using technologies such as stabilisation, bioremediation together with other forms of material recovery.

Despite the fact that it is the producer/holder that makes the decision on the appropriate waste hierarchical option, Augean's environmental management system procedures require that all wastes are subjected to a rigorous technical assessment and testing regime before they are accepted and when they are received.

Controls start before the waste is received by carrying out pre- acceptance checks to ensure Augean can verify the waste type and composition and who has produced it; and to ensure that it is going to be managed according to the most appropriate hierarchical option.

All wastes are subject to Technical Assessment before they are dispatched to ensure that the waste is capable of being effectively handled by Augean; that the appropriate treatment is carried out on the waste; and to ensure that the waste hierarchy is applied. All wastes are checked, tested and verified upon arrival at site to ensure that they are as expected and can be managed safely for treatment followed by recovery or safe disposal in Augean engineered facilities.

Each site has its own set of procedures that is bespoke to the processes that are used to manage every type of waste received at the site and the Augean management system as well as performance against the Augean Environmental Permit and are subject to external verification for compliance and performance.

Waste management option	2019 (tonnes)	2020 (tonnes)	2021 (tonnes)
Re-Use	711.07	5,976.41	1,959.14
Recycling	125,562.93	74,176.94	130,458.27
Waste-To-Energy	650.88	1,988.66	1,982.26
Incineration	241.73	497.23	2,874.43
Landfill	721,699.53	669,079.03	691,710.55
Treatment and transfer for further treatment and/or recovery elsewhere	386,700.85	377,193.81	439,385.4
Total waste diverted from landfill/incineration	10.5%	7.4%	10.6%

The data below shows how much waste has been handled by Augean during the last three years for which data are available by different hierarchical options.

Augean's performance in terms of overall sustainability is included in a Corporate and Social Responsibility (CSR) Report which is produced each year and is available on Augean's website. A copy of the CSR Report for 2020 is provided with this submission as Document reference 11.4.

Performance is presented based on a number of industry standards including 'Green Alliance. Indicating Right: Environmental Performance Indicators for the Waste Management Sector' and standard disclosure taken from the Global Reporting Initiative (GRI) Sustainability Reporting Standards