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	XI. an inventory of waste water and waste gas streams (see BAT 3);	As above. Also regular monitoring of surface water discharge undertaken	Yes

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XII. residues management plan (see description in Section 6.5);	As above. Also regular testing of waste residues coordinated by EMR's Waste and Environmental Impacts Manager (Section 4.2 of EMR Newmarket's Environmental Management Plan).	Yes
XIII. accident management plan (see description in Section 6.5);	As above. Also EMR Newmarket's Emergency Plan [Accident Management Plan].	Yes
XIV. odour management plan (see BAT 12);	The permitted activities at EMR Newmarket are not expected to give rise a significant odour nuisance at sensitive receptors. The EA has therefore never requested an odour management plan. BAT 12 would therefore not apply.	N/A
XV. noise and vibration management plan (see BAT 17).	The permitted activities at EMR Newmarket are not expected to give rise a significant noise and vibration nuisance at sensitive receptors. The EA has therefore never requested a noise and vibration management plan. BAT 12 would therefore not apply.	N/A
BAT 2. In order to improve the overall environmental performance of the plant, BAT is to use all of the techniques given below.		Yes
a. Set up and implement waste characterisation and pre-acceptance procedures	All wastes are received internally from EMR and are therefore well understood, trusted and undergo regular analysis overseen by EMR's Waste and Environmental Impacts Manager.	Yes
b. Set up and implement waste acceptance procedures	Section 4.1 of EMR Newmarket's Environmental Management Plan and	Yes
c. Set up and implement a waste tracking system and inventory	EPPs 1.1 to 1.3 and 1.17 Sections 4.1.1 and 7.2 of EMR Newmarket's Environmental Management Plan	Yes
d. Set up and implement an output quality management system	Regular testing of outputs and waste residues coordinated by EMR's Waste and Environmental Impacts Manager. EMR Newmarket is accredited under quality management system ISO9001	Yes
e. ensure waste segregation	All wastes are segregated by grade and stored in separate bays. See section 4.4 of EMR Newmarket's Environmental Management Plan.	Yes
f. Ensure waste compatibility prior to mixing or blending of waste	No mixing or blending of wastes occurs at EMR Newmarket	N/A
g. sort incoming solid waste	Principle aim of EMR Newmarket is to sort and recover recyclable materials. See section 4 of EMR Newmarket's Environmental Management Plan	Yes
BAT 3. In order to facilitate the reduction of emissions to water and air, BAT is to establish and to maintain an inventory of waste water and waste gas streams, as part of the environmental management system (see BAT 1), that incorporates all of the following features:	Regular monitoring of surface water discharge undertaken and results retained. EMR Newmarket will implement the new monitoring requirements once the new installation permit is issued	Yes
(i) information about the characteristics of the waste to be treated and the waste treatment processes, including:	Regular testing of waste residues coordinated by EMR's Waste and Environmental Impacts Manager. Information on waste treatment processes contained in Section 4 of EMR Newmarket's Environmental	Yes
(a) simplified process flow sheets that show the origin of the emissions;	Management Plan. Process Flow Chart forms part of the EMR Newmarket's EMS and was provided with application	Yes

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(b) descriptions of process-integrated techniques and waste water/waste gas treatment at source including their performances	Regular monitoring of surface water discharge undertaken and results reported. EMR Newmarket will implement the new monitoring requirements once the new installation permit is issued	Yes
(ii) information about the characteristics of the waste water streams, such as:	As above	Yes
(a) average values and variability of flow, pH, temperature, and conductivity;	As above	Yes
(b) average concentration and load values of relevant substances and their variability (e.g. COD/TOC, nitrogen	As above	Yes
species, phosphorus, metals, priority substances/micropollutants); (c) data on bioeliminability (e.g. BOD, BOD to COD ratio, Zahn-Wellens test, biological inhibition potential (e.g.	As above	Yes
inhibition of activated sludge)) (see BAT 52); (iii) information about the characteristics of the waste gas streams, such as:	No waste gas streams emitted	N/A
(a) average values and variability of flow and temperature;	As above	N/A
(b) average concentration and load values of relevant substances and their variability (e.g. organic compounds,	As above	N/A
POPs such as PCBs);	A3 450VC	N/A
(c) flammability, lower and higher explosive limits, reactivity;	As above	N/A
(d) presence of other substances that may affect the waste gas treatment system or plant safety (e.g. oxygen,	As above	N/A
nitrogen, water vapour, dust).		
BAT 4. In order to reduce the environmental risk associated with the storage of waste, BAT is to use all of the techniques given below.		Yes
a. Optimised storage location	Section 4.4 of EMR's Environmental Management Plan	Yes
b. Adequate storage capacity	Section 4.4 of EMR's Environmental Management Plan	Yes
c. safe storage operation	Section 4.4 of EMR's Environmental Management Plan	Yes
d. Separate area for storage and handling of packaged hazardous waste	Packaged hazardous waste is not received.	N/A
BAT 5. In order to reduce the environmental risk associated with the handling and transfer of waste, BAT is to se	t	Yes
up and implement handling and transfer procedures. Handling and transfer procedures aim to ensure that wastes are safely handled and transferred to the respective	Section 4 of EMR Newmarket's Environmental Management Plan	Yes
storage or treatment. They include the following elements:	Costions 1. Found 0.2 of FNAD November lettle Favire and costs I Management	V
<ul> <li>handling and transfer of waste are carried out by competent staff;</li> </ul>	Sections 1.5 and 8.3 of EMR Newmarket's Environmental Management Plan	Yes
— handling and transfer of waste are duly documented, validated prior to execution and verified after execution;	Section 7 of EMR Newmarket's Environmental Management Plan	Yes
— measures are taken to prevent, detect and mitigate spills;	Section 4.6 of EMR Newmarket's Environmental Management Plan and EPP 5.2.	Yes
— operation and design precautions are taken when mixing or blending wastes (e.g. vacuuming dusty/powdery	No mixing or blending of waste occurs at EMR Newmarket	N/A
wastes).		
Handling and transfer procedures are risk-based considering the likelihood of accidents and incidents and their environmental impact	Section 4 of EMR Newmarket's Environmental Management Plan	Yes
1.2. Monitoring BAT 6. For relevant emissions to water as identified by the inventory of waste water streams (see BAT 3), BAT is to monitor key process parameters (e.g. waste water flow, pH, temperature, conductivity, BOD) at key locations (e.g. at the inlet and/or outlet of the pretreatment, at the inlet to the final treatment, at the point where the emission leaves the installation).	Regular monitoring of surface water discharge undertaken and results reported. EMR Newmarket will implement the new monitoring requirements once the new installation permit is issued	Yes
BAT 7. BAT is to monitor emissions to water with at least the frequency given below, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	Regular monitoring of surface water discharge undertaken and results reported. EMR Newmarket will implement the new monitoring requirements once the new installation permit is issued	Pending permit issue

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Once every month: Chemical oxygen demand (COD), Hydrocarbon oil index (HOI), Total organic carbon (TOC), Total suspended solids (TSS), Phenol index, Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Nickel (Ni), Lead (Pb), Zinc (Zn). Mercury (Hz)	Most parameters are currently analysed for, the remaining parameters will be included once the new permit is issued.	Pending permit issue
Once every six months: PFOA and PFOS	PFOA and PFOS analysis will be implemented once the new permit is issued.	Pending permit issue
BAT 8. BAT is to monitor channelled emissions to air with at least the frequency given below, and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	Point source emissions have been assessed to ensure correct sampling ports and access for monitoring once the permit is issued. Some preemptive monitoring has been undertaken, but the full monitoring programme will be implemented upon permit issue.	Pending permit issue
Once every six months: Dust, NH3, TVOC	As above	Pending permit issue
BAT 10. BAT is to periodically monitor odour emissions.	The permitted activities at EMR Newmarket are not expected to give rise an odour nuisance at sensitive receptors and there have been no substantiated complaints of this nature. BAT 12 would therefore not apply.	N/A
Odour emissions can be monitored using:  — EN standards (e.g. dynamic olfactometry according to EN 13725 in order to determine the odour concentration or EN 16841-1 or -2 in order to determine the odour exposure);	As above	N/A N/A
— when applying alternative methods for which no EN standards are available (e.g. estimation of odour impact), ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality	As above	N/A
The monitoring frequency is determined in the odour management plan (see BAT 12).	As above	N/A
generation of residues and waste water, with a frequency of at least once per year.	ISO50001 accreditation in place	Yes
	As above	Yes
1.3. Emissions to air BAT 12. In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:	The permitted activities at EMR Newmarket are not expected to give rise a significant odour nuisance at sensitive receptors. The EA has therefore never requested an odour management plan. BAT 12 would therefore not apply.	N/A
— a protocol containing actions and timelines;	As above. Also Section 6.5 of EMR Newmarket's Environmental	N/A
— a protocol for conducting odour monitoring as set out in BAT 10;	Management Plan. As above. Also Section 6.5 of EMR Newmarket's Environmental	N/A
— a protocol for response to identified odour incidents, e.g. complaints;	Management Plan. As above. Also Section 6.5 of EMR Newmarket's Environmental	N/A
— an odour prevention and reduction programme designed to identify the source(s); to characterise the contributions of the sources; and to implement prevention and/or reduction measures.	Management Plan. As above. Also Section 6.5 of EMR Newmarket's Environmental Management Plan.	N/A
BAT 13. In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to use one or a combination of the techniques given below.	The permitted activities at EMR Newmarket are not expected to give rise a significant odour nuisance at sensitive receptors.	Yes
a. Minimising residence times (only applicable to open systems).	Waste are processed quickly.	Yes

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<ul><li>b. using chemical treatment (Not applicable if it may hamper the desired output quality).</li><li>c. Optimising aerobic treatment</li></ul>	As above As above	N/A N/A
BAT 14. In order to prevent or, where that is not practicable, to reduce diffuse emissions to air, in particular of dust, organic compounds and odour, BAT is to use an appropriate combination of the techniques given below.		Yes
a. Minimising the number of potential diffuse emission sources	The majority of waste processing is undertaken in buildings. Dust emissions are directed to point source emission points with abatement where feasible.	Yes
b. Selection and use of high integrity equipment (Applicability may be restricted in the case of existing plants due to operability requirements).	Section 4 of EMR Newmarket's Environmental Management Plan.	Yes
c. Corrosion prevention	Sections 3.1.5, 4.1.5, 4.1.6 and 4.1.7 of EMR Newmarket's Environmental Management Plan	Yes
d. Containment, collection and treatment of diffuse emissions (The use of enclosed equipment or buildings may be restricted by safety considerations such as the risk of explosion or oxygen depletion. The use of enclosed equipment or buildings may also be constrained by the volume of waste).	The majority of waste processing is undertaken in buildings. Dust	Yes
e. Dampening f. Maintenance	Section 6.5 of EMR's Environmental Management Plan. Sections 3.1.5, 4.1.5, 4.1.6 and 4.1.7 of EMR Newmarket's Environmental	Yes Yes
g. Cleaning of waste treatment and storage areas h. Leak detection and repair (LDAR) programme	Management Plan EPP 4.11 Sections 3.1.5, 4.1.5, 4.1.6 and 4.1.7 of EMR Newmarket's Environmental Management Plan	Yes Yes
1.4. Noise and vibrations BAT 17. In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to set up, implement and regularly review a noise and vibration management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:	The permitted activities at EMR Newmarket are not expected to give rise a significant noise and vibration nuisance at sensitive receptors. The EA has therefore never requested a noise and vibration management plan. BAT 12 would therefore not apply.	N/A
a protocol containing appropriate actions and timelines;     II. a protocol for conducting noise and vibration monitoring;	As above As above	N/A N/A
III. a protocol for conducting noise and vibration mointoring,  III. a protocol for response to identified noise and vibration events, e.g. complaints;	As above	N/A
IV. a noise and vibration reduction programme designed to identify the source(s), to measure/estimate noise and vibration exposure, to characterise the contributions of the sources and to implement prevention and/or reduction measures.	As above	N/A
BAT 18. In order to prevent or, where that is not practicable, to reduce noise and vibration emissions, BAT is to use one or a combination of the techniques given below.	Section 6.4 of EMR Newmarket's Environmental Management Plan	Yes
a. Appropriate location of equipment and buildings (for existing plants, the relocation of equipment and building exits or entrances may be restricted by a lack of space or excessive costs).	The majority of automated processing takes place in buildings. The site is designed to locate the noisiest operations away from sensitive receptors and the site is shielded by rows of trees.	Yes
b. Operational measures	Minimum handling of wastes, waste acceptance procedures, plant maintenance, and specified waste management operations (Sections 4 and 6.4 of EMR Newmarket's Environmental Management Plan).	Yes
c. low noise equipment	Programme to to replace mobile plant with electric equivalents, and fit	Yes
d. Noise and vibration control equipment (applicability may be restricted by lack of space (for existing plants)).	white noise reversing alarms. Noise abatement controls fitted where feasible.	Yes

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	Programme to to replace mobile plant with electric equivalents, white noise reversing alarms.	Yes
1.5. Emissions to water BAT 19. In order to optimise water consumption, to reduce the volume of waste water generated and to prevent or, where that is not practicable, to reduce emissions to soil and water, BAT is to use an appropriate combination of the techniques given below.	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
a. Water management b. Water recirculation	As above Recycled water used with the Heavy Media Plant (Section 4.1.6 of EMR Newmarket's Environmental Management Plan).	Yes
·	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
	Sections 3.1.5 to 3.1.6 of EMR Newmarket's Environmental Management Plan	Yes
e. Roofing of waste storage and treatment areas (applicability may be constrained when high volumes of waste are		Yes
	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
h. Design and maintenance provisions to allow detection and repair of leaks (The use of above-ground components is generally applicable to new plants. It may be limited however by the risk of freezing. The installation of secondary	Section 3.1.5 of EMR Newmarket's Environmental Management Plan	Yes
containment may be limited in the case of existing plants).  i. Appropriate buffer storage capacity (Generally applicable to new plants - For existing plants, applicability may be limited by space availability and by the layout of the water collection system).	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
•	Sealed drainage system as defined in sections 3.1.2 to 3.1.3 of EMR Newmarket's Environmental Management Plan)	Yes
a. Equalisation	As above	N/A
c. Physical separation, e.g. screens, sieves, grit separators, grease separators, oil water separation or primary	As above As above	N/A Yes
settlement tanks. d. Adsorption	As above	N/A
·	As above	N/A
f. precipitation	As above	N/A
g. chemical oxidation	As above	N/A
h. chemical reduction	As above	N/A
·	As above	N/A
3 6-	As above	N/A
11 0	As above	N/A
	As above	N/A
	As above	N/A
, g	As above	N/A
· ·	As above	N/A
p. Sedimentation	As above	N/A

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q. Filtration (e.g. sand filtration, microfiltration, ultrafiltration) r. floatation	As above As above	Yes N/A
BAT-associated emission levels (BAT-AELs) for direct discharges to a receiving water body	Most parameters are currently analysed for, the remaining parameters will be included once the new permit is issued.	Pending issue of permit
Total organic carbon (TOC) 10-60 mg/l	Monitoring to be implemented once the new permit is issued.	Pending issue of permit
Chemical oxygen demand (COD) 30-180 mg/l Total suspended solids (TSS) 5-60 mg/l Hydrocarbon oil index (HOI) 0,5-10 mg/l Phenol index 0,05-0,2 mg/l	Currently monitored and results indicate compliance Currently monitored and results indicate compliance Currently monitored and results indicate compliance Monitoring to be implemented once the new permit is issued.	Yes Yes Yes Pending issue of permit
Arsenic (expressed as As ) 0,01-0,05 mg/l	Monitoring to be implemented once the new permit is issued.	Pending issue of permit
Cadmium (expressed as Cd) 0,01-0,05 mg/l Chromium (expressed as Cr) 0,01-0,15 mg/l Copper (expressed as Cu) 0,05-0,5 mg/l Lead (expressed as Pb) 0,05-0,1 mg/l Nickel (expressed as Ni) 0,05-0,5 mg/l Mercury (expressed as Hg) 0,5-5 µg/l	Currently monitored and results indicate compliance Monitoring to be implemented once the new permit is issued.  Monitoring to be implemented once the new permit is issued.	Yes Yes Yes Yes Yes Pending issue of permit
Zinc (expressed as Zn) 0,1-1 mg/l	Currently monitored and results indicate compliance	Yes
1.6. Emissions from accidents and incidents BAT 21. In order to prevent or limit the environmental consequences of accidents and incidents, BAT is to use al of the techniques given below, as part of the accident management plan (see BAT 1).	ı	
a. Protection measures     b. Management of incidental/accidental emissions     c. Incident/accident registration and assessment system	EMR Newmarket's Emergency Plan EMR Newmarket's Emergency Plan EMR Newmarket's Emergency Plan	Yes Yes Yes
1.7. Material efficiency BAT 22. In order to use materials efficiently, BAT is to substitute materials with waste. Waste is used instead of other materials for the treatment of wastes (e.g. waste alkalis or waste acids are used for pH adjustment, fly ashes are used as binders).	Raw materials are used for very specific purposes (e.g. magnetite and ferrosilicon for heavy media separation, liquid and soild flocculants to aid the settlement of particulates in floatation tanks and anti-foaming agents) and require properties that wastes would not exhibit	N/A N/A
1.8. Energy efficiency BAT 23. In order to use energy efficiently, BAT is to use both of the techniques given below.	EMR Newmarket is accredited against the ISO50001 energy management system.	Yes
a. Energy efficiency plan b. Energy balance record	As above As above	Yes Yes
1.9 Reuse of packaging BAT 24. In order to reduce the quantity of waste sent for disposal, BAT is to maximise the reuse of packaging, as part of the residues management plan (see BAT 1).		Yes

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Packaging (drums, containers, IBCs, pallets, etc.) is reused for containing waste, when it is in good condition and sufficiently clean, depending on a compatibility check between the substances contained (in consecutive uses). If necessary, packaging is sent for appropriate treatment prior to reuse (e.g. reconditioning, cleaning).	Pallets and drums are re-used wherever their condition allows.	Yes
2. BAT CONCLUSIONS FOR THE MECHANICAL TREATMENT OF WASTE 2.1. General BAT conclusions for the mechanical treatment of waste 2.1.1 Emissions to air 2.2.3 Emissions to air 3.3.4 Emissions to air 3.4 Emissions to air		Was
BAT 25. In order to reduce emissions to air of dust, and of particulate-bound metals, PCDD/F and dioxin-like PCBs, BAT is to apply BAT 14d and to use one or a combination of the techniques given below.	Dust emissions are directed to point source emission points with abatement where feasible (cyclone and fabric filters)	Yes
a. cyclone	As above	Yes
b. fabric filter	As above	Yes
c. wet scrubbing d. Water injection into the shredder	Not feasible  No metal shredder at EMR Newmarket.	N/A N/A
u. Water injection into the shreader	No metal sinedder at Livik Newmarket.	N/A
BAT-associated emission level (BAT-AEL) for channelled dust emissions to air from the mechanical treatment of waste		
Dust 2-5 mg/Nm3 (when fabric filter not used upper end of the range is 10mg/Nm3)	Pre-emptive monitoring suggests compliance but the full monitoring programme will be implemented upon permit issue.	Pending issue of permit
4. BAT CONCLUSIONS FOR THE PHYSICO-CHEMICAL TREATMENT OF WASTE 4.1. BAT conclusions for the physico-chemical treatment of solid and/or pasty waste 4.1.1. Overall environmental performance BAT 40. In order to improve the overall environmental performance, BAT is to monitor the waste input as part of the waste pre-acceptance and acceptance procedures (see BAT 2).	of All wastes are received internally from EMR and are therefore well understood, trusted and undergo regular analysis overseen by EMR's Waste and Environmental Impacts Manager. Subjected to waste acceptance procedures (Section 4.1 of EMR Newmarket's Environmental Management Plan and EPPs 1.1 to 1.3 and 1.17)	Yes
Monitoring the waste input, e.g. in terms of:	Regular testing of waste residues coordinated by EMR's Waste and Environmental Impacts Manager (Section 4.2 of EMR Newmarket's Environmental Management Plan)	Yes
<ul> <li>content of organics, oxidising agents, metals (e.g. mercury), salts, odorous compounds;</li> </ul>	As above. Salts and odorous compounds are not relevant.	Yes
<ul> <li>H2 formation potential upon mixing of flue-gas treatment residues, e.g. fly ashes, with water.</li> </ul>	No mixing of flue gas treatment residues	N/A
A 1.2 Emissione As Air		
4.1.2 Emissions to Air BAT 41. In order to reduce emissions of dust, organic compounds and NH3 to air, BAT is to apply BAT 14d and to	See abatement measures for BAT 25	N/A
use one or a combination of the techniques given below.  a. adsorption	See abatement measures for BAT 25	N/A
b. biofilter	See abatement measures for BAT 25	N/A
c. thermal oxidation	See abatement measures for BAT 25	N/A
d. wet scrubbing	See abatement measures for BAT 25	N/A
BAT-associated emission level (BAT-AEL) for channelled emissions of dust to air from the physicochemical treatment of solid and/or pasty waste		Pending issue of permit
Dust 2-5 mg/Nm3	Pre-emptive monitoring suggests compliance but the full monitoring programme will be implemented upon permit issue.	Pending issue of permit