

**TETRON TREATMENT LIMITED
WASTE TREATMENT FACILITY
WHARF ROAD**

Technical Standard & Operational Management Plan

Job Number- 203162/TOP Revision A

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CONTENTS

- 1.0 INTRODUCTION**
- 2.0 MANAGEMENT**
- 3.0 OPERATIONS**
- 4.0 SITE INFRASTRUCTURE**
- 5.0 EMISSIONS AND MONITORING**
- 6.0 WASTE**
- 7.0 INFORMATION MANAGEMENT**

DRAWINGS

203162/D/001	Site Location Plan
203162/D/003	Site Layout Plan
203162/D/004	Site Drainage Plan
203162/D/005	Site Monitoring Plan

SCHEDULES

Schedules 1.1 to 1.3	Permitted waste operations
Schedules 2.1 to 2.3	Permitted wastes

SCHEMATICS

Schematic 1	Pre-Acceptance Procedure - Process Flow Diagram
Schematic 2	Area 1 Non-hazardous treatment by wet screening
Schematic 3	Area 2 Mixed waste treatment

APPENDIXES

Appendix A	Asbestos Management Plan
Appendix B	Surface Water and Process Water Management and Treatment Plan
Appendix C	Complaints Procedure and Form

1.0 INTRODUCTION

Overview

- 1.1 This operational and technical standard supports the bespoke permit application for a non-hazardous waste storage and treatment operations at the Waste Treatment Facility, Wharf Road, Doncaster, DN1 2ST. The storage and treatment activities include:
- Washing non-hazardous hydrocarbon impacted mineral and wet wastes;
 - Sorting and picking non-hazardous Household, Commercial and Industrial (HCI) skip waste through picking line and trommel;
 - Crushing and screening of non-hazardous and inert construction and demolition soils/aggregate wastes; and
 - Bulking of up and storage of asbestos wastes for off-site transfer.
- 1.2 The site will have a total capacity to handle up to 150,000 tonnes of waste per annum. The site operations will be set up into three distinct areas. These areas are as follows:
- Area 1: treatment and storage of non-hazardous hydrocarbon impacted mineral and wet wastes;
 - Area 2a and 2b: treatment of non-hazardous Household, Commercial and Industrial (HCI) skip waste through picking line and trommel and treatment of inert and non-hazardous inorganic waste through crushing and screening; and
 - Area 3: asbestos bulking and storage area limited to a maximum of 10 tonnes of asbestos waste per day and 2,500 tonnes per annum).
- 1.3 The operation site layout is shown in drawing 203162/D/003. The site surfacing and surface water drainage design is shown in drawing 20316/D/004. The site also comprises access/egress, site office, weighbridge, maintenance building, fuel storage area and quarantine area which are not part of the three processing/storage areas.
- 1.4 The permitted waste types and permitted activities are set out in Schedules 1 and 2.

2.0 MANAGEMENT

Management

- 2.1 The site will be operated by Tetron Treatment Limited in accordance with their management systems.
- 2.2 The site will have specific management plans including, but not limited to, the following:
- Technical Standard and Operational Management Plan (this document);
 - Particulate Emissions Management Plan;
 - Fire Prevention Plan;
 - Asbestos Management Plan (Appendix A);
 - Noise Management Plan;
 - Accident Prevention and Management Plan; and
 - Spill Response Plan.
- 2.3 These plans and other site procedures set out the following:
- Environmental Policy;
 - Register of Environmental Effects;
 - Operational controls and responsibilities including method of works;
 - Site Infrastructure Plan;
 - Site and equipment maintenance regime;
 - Contingency plans;
 - Accident plans and procedures;

- Complaints procedure;
- Staff and Training records; and
- Review process.

2.4 The site will clearly establish and monitor performance for key objectives, this includes but not limited to:

- proportion of recovered materials from wastes by each stream;
- incidents and complaints by category; and
- non-conformances.

Staffing

2.5 All staff will have clearly defined roles and responsibilities with specified skills for each post required.

2.6 At all times there will be sufficient staff to manage and operate activities on the site without causing a risk to the environment. Staff employed at the site on a typical shift may include:

- Site Director;
- Operational Site Manager;
- Compliance Advisor;
- Recycling Operatives and Office Workers; and
- Fitters and Maintenance Engineers.

2.7 In accordance with Environment Agency Guidance¹ 'the site will be supervised by the Technically Competent Person (TCP) and at least one member of staff who is fully conversant with the requirements of the Permit and Technical Standard regarding, in particular, the following:

- Waste acceptance and control procedures;
- Operational controls and environmental monitoring;
- Maintenance;
- Record-keeping;
- Accident/incident action plans; and
- Notifications to the Environment Agency (EA).

2.8 The TCP will be on site for at least 20 % of the operation of the facility.

2.9 Technical staff will demonstrate continuing competence by passing periodic assessment. Personal training records will be maintained.

2.10 All contractors will be trained about the relevant working controls and legal responsibilities relating to their areas of works.

2.11 The Site Manager will only authorise for works to be undertaken once relevant legal requirements and a site-specific risk assessment has been completed.

¹ <https://www.gov.uk/guidance/legal-operator-and-competence-requirements-environmental-permits>

Closure

- 2.12 The site has been subject to a Site Condition Report to characterise the land condition prior to the commencement of works. This is included within the main application and was undertaken prior to its operation as a waste facility.
- 2.13 In the event that any part, or the whole of, the operation ceases to operate under the Permit, that proportion of the site will be in closure. At cessation of the works the area will be fully cleaned and made safe.
- 2.14 The nature of the wastes imported, materials recovered and the associated processes operated will be documented on a quarterly basis. This information will be maintained as part of the development of the Site Condition Report.
- 2.15 The data will be reviewed with regard to the likely site condition and a closure plan will be developed, including a targeted site investigation, to demonstrate that the site condition is acceptable. If remedial works are necessary, these will be developed and agreed with the Agency as part of the closure process.

3.0 WASTE MANAGEMENT OPERATIONS

Overview

- 3.1 This section sets out the waste management processes. This section examines the system wide operations to be applied and the waste specific processing operations in each of the areas. The waste operations and permitted waste types are set out in Schedules 1 and 2. The annual throughputs are set out in Table 3.1.

Activity	Quantity
Area 1: treatment and storage of non-hazardous hydrocarbon impacted mineral and wet wastes R3 - Recycling/reclamation of organic substances. R5 - Recycling of other inorganic compounds. R13 – Storage pending onward recovery.	150,000 tonnes per annum
Area 2: treatment of non-hazardous Household, Commercial and Industrial (HCI) skip waste through picking line and trommel. Treatment of inert/non-hazardous wastes through crushing and screening. R3 - Recycling/reclamation of organic substances. R4 - Recycling/reclamation of metals. R5 - Recycling of other inorganic compounds. R13 – Storage pending onward recovery. D9 - Physical treatment of waste prior to any other disposal operation D14 – Repackaging prior to submission to any of the operations numbered D1 to D13 i.e. bulking up transfer stations prior to disposal. D14 - Repackaging prior to submission to any of the operations numbered D1 to D13 i.e. bulking up transfer stations prior to disposal. D15 – Temporary storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	150,000 tonnes per annum No treatment of slags/ashes, shredding of metals, or wastes destined for incineration or co-incineration will exceed 75 tonnes per day. There is no biological treatment.
Area 3: asbestos bulking and storage D15 – Temporary storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	Maximum of 10 tonnes of asbestos will be accepted/stored at site per day. 2,500 tonnes per annum.

Waste Pre-acceptance

3.2 Specific testing procedures prior to import are set out by waste type. The Operator will obtain and check the following information prior to accepting wastes at the facility:

- The nature of the process producing the waste including variability of the process;
- Composition of the waste, including analysis of a representative sample from the production process; and
- For every hazardous waste stream accepted a Waste Acceptance Form (WAF) will be generated. Non-hazardous waste will be given a WAF if the waste stream exceeds² 200 tonnes.
- The WAF will set out the EWC code and characteristics, including chemical constituents, state (form), quantity and treatability and any controls that need to be applied. For non-hazardous waste streams below the 200 tonne threshold the same assessment will be completed, but not recorded in the WAF form.
- Wastes destined for Area 3 asbestos storage will also comply with pre-acceptance procedures in accordance with the Asbestos Management Plan (attached in Appendix A).

3.3 The Operator will only approve the waste for treatment if it is satisfied that the characterisation is sufficient, including a consideration of variability. Furthermore, no waste will be accepted unless the facility has a prior defined management process for the treatment and sufficient capacity.

Waste Acceptance

3.4 The WAF will be provided to the weighbridge operator upon arrival. No waste will be accepted unless the site has been approved under the small waste stream procedure or under a WAF. On arrival of a load, the weighbridge operator will check that it has been authorised. There will be no ad-hoc acceptance on gate.

3.5 The operator will have the facility to check the waste on arrival. Only waste that conforms to the type and description in the documentation supplied by the producer and/or holder will be accepted. Schematic 1 shows an overview of acceptance and on-site treatment. The waste must conform to the WAF data sheet. Area 3 will conform to the pre-acceptance procedures in Appendix A.

3.6 Before waste can be accepted onto the site, the following information should be provided:

- The process producing the waste;
- The quantity of the waste;
- Chemical analysis of the waste (if applicable);
- The form the waste takes (solid, liquid, sludge etc.);
- Any hazards associated with the waste;
- Any specific handling requirements; and
- An EWC code.

3.7 Any waste received without prior assessment will be refused permission.

3.8 All records relating to pre-acceptance procedures will be kept by the operator for at least two years.

3.9 Hazardous wastes delivered to the site must be accompanied by a Hazardous Waste Consignment Note (HWCN).

3.10 Non-hazardous waste will be transferred under a Waste Transfer Note. These will be checked, signed and retained by the operator for 2 years. Hazardous wastes delivered to the site will be accompanied by a Hazardous Waste Consignment Note (HWCN). These notes will be checked, signed and retained on file for a 3 year period.

² Waste stream is a homogeneous waste from a single site.

- 3.11 Wastes will only be accepted if it is delivered to the site by registered waste carriers.
- 3.12 Wastes will only be accepted onto the site when there is sufficient storage capacity for that waste and the site is adequately staffed to receive it.
- 3.13 The site team will direct the vehicle to the correct operational area of the site and to which feedstock stockpile they are transporting it to.
- 3.14 Vehicular unloading will be supervised by a trained operative and the waste material will be further inspected. If there is any uncertainty regarding the waste type against the expected characterisation as set out in the WAF then the material and/or the vehicle will be isolated until the assessment can be concluded. If the total waste is unacceptable the vehicle will be re-loaded and the waste consignment rejected from the site.
- 3.15 In the event that potentially unacceptable waste is identified post-tipping this will be segregated and taken to the quarantine area. If further testing is required to determine acceptability this will be under instruction by the Operation Manager or delegate.
- 3.16 The producer of the waste will be notified of the potential incident and, if deemed necessary, the importation of the waste stream will be stopped until acceptability can be confirmed. In the event that the waste is unacceptable, the producer will be notified to remove the material from site. The details of this incident will be recorded in the Site Diary.
- 3.17 The pre-acceptance and acceptance procedure is shown in Schematic 1.

Cleaning

- 3.18 Throughout the day, dust on road surfaces and internal concrete surfacing will be minimised by the sweeping fines and soils, as required. The internal haul road, vehicle movement areas and stockpiles will be kept damp during periods of dry weather. During downtime and periods of low activity, the site maintenance and cleaning will be undertaken.

Storage of waste

- 3.19 The site will accept, store and process waste in three different areas of the site. Area 1 will accept mineral and wet non-hazardous wastes. All waste in Area 1 will be stored within an bunded enclosure. Area 2 will accept mixed non-hazardous HCI skip waste, and the waste will be stored in 5 m concrete bays underneath a 3-sided enclosure. Inerts and excavation arisings will be stockpiled on the concrete slab. Area 3 will accept asbestos waste impacted material, and waste will be stored in sealed skips beneath in concrete bays. The location for the storage of different material types and the quarantine area is set out in the 'Site Layout Plan' (drawing ref- 203162/D/003).

Quarantine

- 3.20 The pre-acceptance procedures will be implemented at the site to avoid unacceptable waste being received at the site. Despite these controls, mixed waste streams can contain unexpected waste that is not suitable for processing, as presented in Table 3.2. Upon identification these wastes will typically be rejected and returned with the carrier to the producer. The rejection will be notified to the producer and a record maintained in the site diary.
- 3.21 In the unlikely event the unacceptable waste is identified following placement, the material will be isolated and transferred to the Quarantine Area.
- 3.22 All quarantined wastes will be removed within 1 working week of discovery. If this is not possible, it will be notified to the Environment Agency.
- 3.23 The Quarantine Area will have a bunded cage for chemical storage and containers available at all times to control and store safely any unacceptable wastes, as required. The area will also be on a sealed drainage system and under an enclosure in the event stockpiled material is

stored there temporarily pending off site transfer. The maximum amount of quarantined waste that will be stored is 50 cu m.

Table 3.2 Quarantine controls		
Waste type	Waste processing controls	Storage controls
Containers with dangerous substances, (e.g. oils and paints) within waste.	Waste processing to stop in vicinity of the container to be isolated. Container and associated product removed and characteristics assessed.	Placed in isolation in bunded cage. Once classification complete, the waste is to be removed from the site.
Hazardous soils (un-acceptable hazardous material) and demolition material.	Waste processing in zone to immediately stop in the event of identification. Area to be demarcated by fencing. It will not be disturbed until a full characterisation of the waste has been undertaken by competent personnel and review of health and safety requirements undertaken.	Once safe working control developed, wastes will be transferred to Quarantine Area for offsite disposal or recovery. The affected hardstanding will then be fully swept clean – arisings will be transferred to container. A permit to continue will be issued to demonstrate all areas are clean.

3.24 An inventory of the wastes within the Quarantine Area will be maintained at all times, detailing the date identified, the waste characteristics and the date for removal.

Area 1- Non-Hazardous Wet & Mineral Waste Treatment Area

3.25 Vehicles containing hydrocarbon impacted non-hazardous wet and mineral wastes will be directed by site operatives to the Area 1 bunded enclosure located towards the centre of the site. The location of the Area 1 processing area is shown in drawing 203162/D/003 and the treatment process flow diagram is shown in Schematic 2.

3.26 The vehicles will reverse up a 15 m impermeable concrete surfaced ramp and discharge/unload the contents directly into the hopper of the barrel wash plant. Drop heights will be minimised as far as practical to prevent spillage of the waste.

3.27 The ramp is fitted with an ACO drain that leads to a sub-surface drainage tank within the Area 1 enclosure to prevent the non-hazardous waste from entering the wider surface water drainage. Location of the Area 1 enclosure drainage design is shown in the Drainage Plan (drawing ref- 203162/D/004).

3.28 The barrel wash is designed to float off the light organic fractions, whilst the denser minerals sink and are transferred to a cyclone and sieves. This leaves the mineral waste, split into 3 fractions:

- Aggregate sized (>5mm)
- Sand fraction (>0.1 mm to 5 mm)
- Silts/clays (<0.1 mm) held in suspension within the treatment effluent.

3.29 The barrel wash applies a water onto the wastes. This application separates the clays and silts from waste matrix. It also splits the fines sands which become entrained within the water. The heavy laden effluent is treated through cyclone and the resulting material is then sieved. The barrel washing plant enables up to 70% of the fine mineral wastes and organic materials to be removed from waste matrix, leaving the coarser fraction.

3.30 The silt and clay fraction is pumped from the barrel washed to a separator tank. The silt laden effluent enters the clarification tank. The silt and clay particles coagulate and fall from suspension to the base of the tank. These silts and clays are pumped from the tank to an agitation tank and then then to the filter press.

- 3.31 The process waters are treated through a series of clarifiers and filters. The water management processes for the wet processing plant (soil washing) is set out in Appendix B of the Operating Standard.

Area 2a- HCl Mixed Skip Waste Processing Area

- 3.32 A trommel and picking line will be operated to recover recyclables from the mixed HCl waste streams. The location of the picking line and storage bays are shown in drawing 203162/D/003. The process flow diagram is shown in Schematic 3. Recovered material may be transferred to the Crushing and Screening area for further processing.
- 3.33 Prior to loading the hopper of the trommel, an excavator operator will manually segregate out the oversize fraction (> 300 mm) of cardboard, metals, timber, textiles, plastics, aggregate and paper from the mixed waste feedstock. The segregated material will be placed in designated skips/bays for onward recovery off-site.
- 3.34 The remaining material in the mixed waste feedstock will be loaded by an excavator into the trommel which separates the fine fraction (0-12 mm) from the mixed waste matrix into concrete storage bay beneath the trommel.
- 3.35 The remaining material from the trommel will enter a picking station via conveyor where timber, plastics, paper and textiles will be hand picked. The segregated material will be placed into segregated waste skips beneath the picking line.
- 3.36 Following the picking station a magnet will remove ferrous metals from the mixed waste material leaving a segregated aggregate product at the end.
- 3.37 The segregated waste materials will be stored in skips/concrete bays awaiting further recovery on-site or will be bulked up for transfer off-site for further recovery or disposal.

Area 2b - Aggregate Crushing and Screening of Inert Waste

- 3.38 The resizing and screening of non-hazardous and inert waste will occur within the western portion of the site. The process flow diagram is shown in Schematic 4. The location of the inert and non-hazardous resizing area is shown in drawing 203162/D/003.
- 3.39 Prior to screening, the C&D waste will be manually segregated by an excavator to remove any incidental timber, metal or plastic waste and placed in a designated skip and bulked up with the requisite segregated recycle in Area 2. Any identified unacceptable wastes will be transferred to the quarantine area.
- 3.40 The feedstock will be screened/crushed through standalone power screens and crushers. The systems will operate with the dust suppression systems accordingly. During periods of no rain, the dust prevention systems will be on.
- 3.41 The crusher will be used to re-size demolition and construction waste which is > 50 mm in diameter, as determined necessary by the Site Manager. The crusher segregates metals from concrete. Segregated metal will be transferred to a bulking up container.
- 3.42 Soils may also be sized through a power screen. This process removes potential foreign items from the soil matrix, including metals, plastics and pipework. This material will be manually separated segregated to the relevant bulking up container.
- 3.43 Once recovered the soils will be transferred to recovered material storage areas. Material will be stored by engineering grading in line with the Highways Specification. Testing will be undertaken in accordance with the principles of the WRAP Aggregates Protocol and industry approved specifications or purchaser specification.

Area 3- Asbestos Waste Storage Area

3.44 The asbestos waste storage area is located within a 5 m high 3-sided enclosed bay along the northern boundary of the site. The storage location is shown in drawing 203162/D/003. The Asbestos Management Plan in Appendix A details the working procedures and testing requirements for acceptance, bulking up and storage of asbestos containing wastes.

Material Testing and Records

3.45 Engineering tests and environmental analysis will be undertaken routinely to ensure that they are suitably characterised and certified for the intended use on all output from the process or for onward recovery/disposal. Engineering analysis will be completed in accordance with the BS13242³, a Factory Protocol and environmental tests. All testing will be completed at a UKAS accredited laboratory. The environmental testing requirements is attached in Table 3.3.

Table 3.3 Environmental Testing		
Output	Testing	Frequency
Sands and aggregate fraction	<i>Inorganic Compounds</i> Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc) Non-metals (Cyanide, BOD, TOC), Asbestos <i>Organic Compounds</i> Total Petroleum Hydrocarbons Polycyclic Aromatic Hydrocarbons BTEX	At least monthly (production period) or every 10,000 tonnes of each product stream, whichever comes first.
Filter cake	As sands and aggregate fraction Waste Acceptance Criteria (where for disposal for landfill)	As above Following basic characterisation, 1 test per 1000 cu m or per production month (which ever is more frequent)..
Residual waste	<i>Inorganic Compounds</i> Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc) Non-metals (Cyanide, BOD, TOC) <i>Organic Compounds</i> Total Petroleum Hydrocarbons Polycyclic Aromatic Hydrocarbons BTEX	Per production month

3.46 The tests completed will be used to demonstrate that the materials have been recovered to an agreed specification and/or the waste characterisation. These records will be maintained on site for two-year period following recovery.

Transfer of Material and Waste

3.47 The recovered aggregates/soils/recycleate will be bulked up for onward use. Transfer will occur by haulage vehicle.

3.48 In the event that materials cannot be recovered on-site and remain waste, they will be transferred from the facility for further recovery at a suitably permitted site. They will be fully characterised prior to onward transfer.

Waste Volumes and Weights

3.49 For each waste and material consignment the weight will be assessed by weighbridge and recorded on site. In the event the weigh bridge is not available due to technical failure the load will be recorded and a relevant density conversion applied.

³ Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

Hours of Operation

3.50 Table 3.5 sets out the working hours at the site.

Table 3.5 Working Hours	
Day	Hours
Monday to Friday	07:00 – 18:00
Saturday and Sunday	07:00 – 14:00
Public or Bank Holidays	No operations.

4.0 SITE INFRASTRUCTURE

Provision of Site Identification Board

4.1 A site notice board will be positioned where clearly visible to persons passing the site entrance, providing details of key project contacts.

4.2 The site identification board will be inspected weekly by the site supervisor to ensure it is clearly legible from the site boundary and free from damage or vandalism. The site manager will record all inspections in the site diary.

4.3 The site identification board will provide the following information:

- Site name and address
- Permit holder's name
- Operator name
- Environmental Permit reference number
- Emergency contact name and telephone number
- Confirmation that the site is permitted by the Environment Agency
- The EA's telephone number (03708 506 506)
- The days and hours of operation.

4.4 The site identification board will be constructed from durable materials and maintained in a clearly legible condition throughout the entire duration of operations at the site.

Vehicle Guidance and Traffic Management Signs

4.5 Signs will be positioned within the facility, where required, to clearly guide traffic around the site and to guide company and external users of the site to the appropriate parking and waste receiving and loading areas. The site management will ensure that all signs are maintained in a good order and record this in the site diary.

4.6 In addition to signage, internal traffic and vehicles will also be directed by site staff.

Site Security, Fencing and Gates

4.7 The sole access to the site will be from Wharf Road. The access will be secured by lockable steel gates. The site will have CCTV to provide 24/7 security and the Operator will be notified by the third-party security company. At times when the site is not operational, the waste recovery areas will be secured with temporary Herras-type fencing to prevent unauthorized access. Any stockpiled material and plant will also be secured within temporary fencing.

4.8 The entire perimeter of the site is protected by secure fencing to prevent trespass. Wind breaking fencing/mesh will be installed to reduce the potential for fugitive dust and fibre emissions.

4.9 The integrity of the fencing and gates will be inspected on a weekly basis by the Site Manager. Any damage or defects that reduce security at the site will be temporarily repaired as soon as practicably possible and permanently repaired within seven days. Damage to the site fencing and gates will be recorded in the site diary, along with any required repairs.

4.10 The site staff will be instructed that, in the event of finding evidence of un-authorised access and/or vandalism, the matter must be reported to the Police and the Site Manager who will then take the appropriate action.

4.11 Security will be provided from the site office, which will monitor access into and out of the site. Gates will be closed and locked outside working hours.

Lighting

4.12 If required, security lights will be provided internally facing into the operational area. The lights are angled to minimise spillage and will be operational during dark winter evening periods to create a safe and secure working area.

4.13 All lights will be regularly inspected with all faults being repaired as and when necessary. All repairs will be recorded in the site diary.

Site Drainage

4.14 Details of the site drainage and water treatment is set out in Appendix B.

4.15 Clean roof water will be harvested, where possible, for re-use within the wet processing areas, fire / dust suppression and maintenance to reduce the demand on potable water sources.

Potentially Polluting Leaks and Spillages from Vehicles and Tanks

4.16 The operator will maintain its vehicles, plant and equipment in accordance with relevant legislation. This ensures the manufacturers' schedules are followed and ensures vehicles, plant and equipment are fit for purpose. The operator will train and authorise its staff to operate the vehicles, plant and equipment to uphold the above.

4.17 Mobile fuel tanks will be on site for re-fuelling plant and it is possible that oil or lubricants will be required on site for the maintenance of plant or equipment. All potentially polluting substances will be stored in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and the appropriate Pollution Prevention Guidelines (for example, PPG 2 or PPG 26).

4.18 The site supervisor will ensure that only authorised and trained staff carry out activities involving the refuelling of plant or associated maintenance.

4.19 The maintenance schedule and inspections of fuel tank and infrastructure by the site manager will be recorded in the site diary.

Procedures for Control and Remediation of Leaks and Spillages

4.20 Leaks and spillages from operational equipment on site will be controlled by the application of good housekeeping techniques and regular documented maintenance of all plant and equipment. In the event of spillages or leaks in the defined operational areas, a supply of spill response absorbent granules/pads will be available in the office / welfare unit. This will prevent potentially polluting materials entering the surface water run-off.

4.21 All site staff will be trained to deal with any spillages or leaks according to the above procedures. The site supervisor and TCP will ensure the required remedial actions are completed to an appropriate standard.

4.22 In the event of a significant spillage, the Environment Agency will be notified of the event as soon as possible. All significant spillages and leaks will be recorded in the site diary.

Fire Prevention and Control

4.23 The risk associated with the occurrence of fire in Areas 1, 3 and 4 is considered to be low as the majority of waste streams are construction and demolition, wet non-hazardous hydrocarbon impacted and asbestos wastes and processing is predominately wet processing. The risk

associated with the occurrence of fire without controls at the site is high as the permitted waste streams in Area 2 contains potentially combustible material types.

- 4.24 The Fire Prevention Plan has been produced as a standalone management plan that sets out the working controls to be applied and reporting procedures for the Area 2 operational area.

5.0 ENVIRONMENTAL CONTROL AND MONITORING

Control, Inspection and Reporting of Dust, Fibres and Particulates

- 5.1 The Particulate Emissions Management Plan document reference 203162/PEMP outlines the control measures, inspection regime, monitoring and reporting of dust, fibres and particulate emissions.

Control of odours

- 5.2 It is considered that the majority of the types, nature and quantity of waste permitted to be accepted at the site be present a low risk of excessive odour generation by the operation of the facility.
- 5.3 Strong odorous waste streams and sludges are not included on the list of permitted wastes. In the event that non-compliant odorous waste is accepted, it will be isolated and removed from site in accordance with the site dispatch procedure. The Operator will reject odorous wastes during inspection against the Duty of Care paperwork. Waste Transfer Notes for the rejected material will be completed by the site manager and returned to the waste producer within 72 hours.
- 5.4 If notified by the Environment Agency that the site activities are giving rise to odour pollution outside the site, the operator will produce an Odour Management Plan. The plan will be implemented until otherwise agreed in writing by the Environment Agency.

Control and Monitoring of Noise

- 5.5 It is considered that the noise levels generated by the site, given the control mechanisms proposed, would not result in nuisance given the nature and hours of the operations and the distance of the site from nearby residential receptors. All controls and reporting will be in accordance with the noise Management Plan (203162/NMP)

Control of Pests, Scavenging Birds and Other Scavengers

- 5.6 The risk of pests is considered low. Non-conforming (putrescible) and odorous wastes will not be accepted at the site. The site supervisor will visually monitor for pests throughout the working day.
- 5.7 Albeit highly unlikely, if pest infestations are noted at the site, a pest control contractor will be arranged to attend the site. Pest control measures include the placement of poisoned bait in sealed traps.
- 5.8 The risk of scavenging birds and other scavengers is anticipated to be negligible.

Control of Litter

- 5.9 It will be the responsibility of the site staff to constantly monitor the site for signs of escaping materials either from the storage area or from vehicles delivering materials to the site, particularly during periods of windy weather.
- 5.10 The operator will retrieve litter that escapes the site as soon as it is detected.
- 5.11 In the event that there is an escape of litter from the confines of the site and into the local environment, it will be the responsibility of the site staff to arrange for sweeping and/or litter picking of the affected areas within the working day. The operation or delivery generating the escape of litter will be stopped and thereafter controlled to minimise further releases and any container releasing fugitive material will be covered or removed from site immediately.

- 5.12 Records of inspections or remedial actions will be made in the site diary.
- 5.13 An excessive spillage of materials anywhere within the site or on the adjacent highway will be dealt with immediately by sweeping of the surface and litter picking if required. Such a spillage and the action taken will be recorded in the site diary.

6.0 WASTE

- 6.1 The processes at the site generate residual waste from the following sources as per Table 6.1 below:

Table 6.1 Area Waste Codes	
Area 1	
19 02 06	Soil washing silt / filter cake
19 12 02	Ferrous metals (transferred to Area 2)
19 12 03	Non-ferrous metals (transferred to Area 2)
19 12 09	Mineral waste (transferred to Area 2)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (transferred to Area 2)
Area 2	
19 12 01	Paper and cardboard
19 12 02	Ferrous metals
19 12 03	Non-ferrous metals
19 12 04	Plastic and rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	Mineral waste
19 12 10	Refuse Derived Fuel (<75 tonnes per day)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

- 6.2 In line with the EMS all recyclable waste material will be sent for onward recovery. Where recovery is not possible the waste will be assessed for suitability to be recovered for energy regeneration. Only those materials which cannot be re-used will be sent for disposal.
- 6.3 Records of all waste movements will be recorded in accordance with the Duty of Care regulations and Section 7 of this plan.

7.0 INFORMATION MANAGEMENT

- 7.1 The Operator keeps all records relating to the site at the company head office. Records will be legible, made as soon as reasonably practicable and, if amended, be amended in such a way that the original and any subsequent amendments remain legible or are capable of retrieval. All records relating to the site will be retained for a minimum of 6 years.
- 7.2 The Site Diary/environmental log will be maintained at the site offices.
- 7.3 The operator recognises the Duty of Care requirements of the Permit. The operator will adhere to Section 34 of the Environmental Protection Act 1990 'Waste Management: The Duty of Care – A Code of Practice'.
- 7.4 In line with documented procedures, and the statutory requirements, records are maintained in relation to the following:
- Waste Acceptance Forms (WAFs) on all potential wastes to be processed at the site;

- characteristics and volumes of waste accepted and waste dispatched (and all other records required by the Duty of Care);
 - emissions monitoring data (air quality monitoring, odour monitoring and drainage inspections);
 - recorded environmental effects including minor and significant pollution incidents;
 - complaints from the public;
 - daily site inspection reports (including severe weather conditions adversely affecting site activities, where necessary);
 - maintenance schedules and records (including breakdown repairs);
 - daily log of extra-ordinary events at the facility including rejected waste loads;
 - non-conformances to the EMS, mandatory and voluntary standards;
 - emergencies;
 - TCP attendance at site; and
 - records of training.
- 7.5 A copy of the permit and this management plan and supporting documents is kept available on site. All records, to be held in electronic or paper form, is available to the relevant authorities on site and kept for a minimum of two years.
- 7.6 Within one month of the end of each quarter, the Operator will submit to the Environment Agency the tonnages of the waste received and recovered, as well as any waste to disposal as necessary. Hazardous consignment returns will also be undertaken.
- 7.7 Any other requirements of the permit will be reported accordingly. This will include:
- Notification when plant has broken down resulting in a potential to pollute;
 - When a condition of the permit has been breached; and
 - When a limit in the permit has been breached and there is considered significant adverse impact.
- 7.8 The site is inspected by the TCP or Site Supervisor at least daily. The inspection will assess environmental controls, permit requirements and operational performance. The results are written up in the daily diary.
- 7.9 In the event of a change, all notifications will be in accordance with the conditions in the permit.
- 7.10 All testing of wastes and monitoring of emissions is undertaken in accordance with industry accepted standards and accreditation. Only laboratories and equipment which are suitably accredited is used. A schedule of equipment, calibration and testing accreditation is maintained by the site.

Drawings

Schedules

Schedule 1 – Permitted Waste Operations

Schedule 1.1 Activity A1 Permitted Waste Operations			
Activity	Activity Listed in schedule 1 of EP Regulations	Description	Limits of waste
Activity A1: Physical treatment of non-hazardous wastes through wet screening	N/A	<p>Storage and treatment of non-hazardous soils and sludges.</p> <p>R3 - Recycling/reclamation of organic substances.</p> <p>R5 - Recycling of other inorganic compounds.</p> <p>R13 - Storage pending onward recovery.</p> <p>D9 - Physico Chemical Treatment of soils and sludges via washing.</p> <p>D14 - Bulking up of filter cake and residual waste</p> <p>D15 - Temporary storage of hazardous waste.</p>	<p>150,000 tonnes per annum.</p> <p>2,500 tonnes of non-hazardous waste will be stored at any time.</p> <p>Permitted waste streams in schedule 2.1.</p>

Schedule 1.2 Activity A2 Permitted Waste Operations			
Activity	Activity Listed in schedule 1 of EP Regulations	Description	Limits of waste
Waste transfer station with treatment of non-hazardous wastes and crushing screening mineral based wastes. Treatment includes segregation by manual picking, crushing and screening and re-packaging.	N/A	<p>Treatment and storage of non-hazardous waste</p> <p>R3 - Recycling /reclamation of organic substances</p> <p>R4 - Recycling /reclamation of metals and metal compounds</p> <p>R5 - Recycling of other inorganic compounds</p> <p>R13 - storage pending onward recovery.</p> <p>D9 - Physical treatment of waste prior to any other disposal operation.</p> <p>D14 - Repackaging prior to submission to any of the operations numbered D1 to D13 i.e. bulking up transfer stations prior to disposal.</p> <p>D15 - Temporary storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>150,000 tonnes per annum.</p> <p>2,500 tonnes of non-hazardous waste will be stored at any time.</p> <p>No liquids or sludges permitted.</p> <p>Permitted waste streams in schedule 2.2.</p>

Schedule 1.3 Activity A3 Permitted Waste Operations

Activity	Activity Listed in schedule 1 of EP Regulations	Description	Limits of waste
Asbestos storage	N/A	<p>Storage and bulking up asbestos containing materials</p> <p>D15 - Temporary storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>No more than 10 tonnes of asbestos waste will be stored at the site per day.</p> <p>Annual through put limited to 2,500 tonnes per annum.</p> <p>Asbestos will arrive at site double-bagged or within sealed skip.</p> <p>Permitted waste types set out in Schedule 2.4.</p>

Schedule 2 - Waste types

Schedule 2.1: Activity A1 Wet Screening and Separation	
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 04	Freshwater drilling muds and wastes
01 05 07	drilling fluids including barite
01 05 08	drilling fluids including chloride
15	WASTE PACKAGING
15 01	Packaging
15 01 01	Clean Glass Only
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous solutions from surface wash down operations
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones
17 05 06	dredging spoil
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physio/chemical treatment
19 08	screenings
19 08 02	Wastes from de-sanding
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	Sludges from water clarification
19 09 03	Sludges from decarbonation
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation
19 13 06	sludges from groundwater remediation
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 03	other municipal wastes
20 03 03	street-cleaning residues

Schedule 2.2: Activity A2- Non-Hazardous and Inert Wastes Processing for Recovery and Disposal	
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, PHYSICAL & CHEMICAL TREATMENT OF MINERALS
01 01	wastes from mineral treatment
01 01 01	waste from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical & chemical processing of non-metalliferous minerals
01 04 08	waste gravel & crushed rocks other than those mentioned in 010407
01 04 09	waste sand & clays
01 04 11	waste from potash & rock salt processing other than those mentioned in 010407
01 04 12	tailings & other wastes from washing & cleaning of minerals other than those mentioned in 010407 & 010411
01 04 13	wastes from stone cutting & sawing other than those mentioned in 010407
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea & tobacco preparation & processing; conserve production; yeast & yeast extract production, molasses preparation & fermentation
02 01 10	waste metal
03	WASTES FROM WOOD PROCESSING & THE PRODUCTION OF PANELS & FURNITURE, PULP, PAPER & CARDBOARD
03 01	wastes from wood processing & the production of panels & furniture
03 01 05	sawdust , shavings, cuttings, wood, particle board & veneer other than those mentioned in 03 01 04
03 03	wastes from pulp paper & cardboard production & processing
03 03 08	wastes from sorting of paper & cardboard destined for recycling
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	wastes from the MFSU of plastics, synthetic rubber & man-made fibres
07 02 13	waste plastic
10	WASTES FROM THERMAL PROCESSES
10 01	waste from power stations and other combustion plants
10 01 01	bottom ash and slag only
10 01 02	pulverised fuel ash only
10 01 05	gypsum (solid) only
10 01 07	gypsum (sludge) only
10 01 15	bottom ash and slag only from co-incineration other than those mentioned in 10 01 14
10 11	wastes from manufacture of glass and glass products
10 11 12	clean glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products(after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster products and articles and products made from them
10 13 11	waste from cement based composite materials other than those mentioned in 10 13 09 & 10 13 10
10 13 14	waste concrete
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS & PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper & cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths & protective clothing
15 02 03	absorbents, filter materials, wiping cloths & protective clothing other than those mentioned in 150202
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end of life vehicles from different means or transport (including off road machinery) & wastes from dismantling of end-of life vehicles & vehicle maintenance (except 13, 14, 1606, & 1608)
16 01 03	end-of-life tyres
16 02	wastes from electrical & electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics

Schedule 2.2: Activity A2- Non-Hazardous and Inert Wastes Processing for Recovery and Disposal	
Waste code	Description
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 05	(including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS & THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION & WATER FOR INDUSTRIAL USE
19 08	Wastes from waste water treatment plants
19 08 02	Washed sewage grit (without odour)
19 08 99	Stone filter media (free of sewage or odour)
19 09	Wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	Washed sewage grit (without odour)
19 12	Wastes from the mechanical treatment of waste (eg sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper & cardboard
19 12 04	plastic & rubber
19 12 05	Glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	waste from soil & groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	MUNICIPAL WASTES (HOUSEHOLD WASTE & SIMILAR COMMERCIAL, INDUSTRIAL & INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 1501)
20 01 01	paper & cardboard
20 01 02	Glass
20 01 10	Clothes
20 01 11	Textiles
20 01 28	paints inks, adhesives & resins other than those mentioned in 20 01 27
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 39	Plastics
20 01 40	Metals
20 01 41	wastes from chimney sweeping
20 02	garden & park wastes (including cemetery waste)
20 02 02	soil and stones
20 03	other municipal wastes
20 03 07	street-cleaning residues

Schedule 2.3 Activity A3 Asbestos storage area	
Waste code	Description
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 07	wastes from the MFSU of halogens & halogen chemical processes
06 07 01*	wastes containing asbestos from electrolysis
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 04*	waste from asbestos processing
10	WASTES FROM THERMAL PROCESSES
10 13	wastes from the manufacture of cement lime & plaster & articles or products made from them
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 09*	waste from asbestos cement manufacture containing asbestos
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS & PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos) including empty pressure containers
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end of life vehicles from different means or transport (including off road machinery) & wastes from dismantling of end-of life vehicles & vehicle maintenance (except 13, 14, 16 06, & 16 08)
16 01 11*	brake pads containing asbestos
16 02 12*	discarded equipment containing free asbestos
17	CONSTRUCTION & DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 06	insulation materials & asbestos-containing construction materials
17 06 01*	insulation materials containing asbestos
17 06 03*	other insulation materials consisting of or containing dangerous substances
17 06 05*	construction materials containing asbestos

Schematics

Appendix A

Asbestos Management Plan

Appendix B
**Surface Water and Process Water Management
and Treatment Plan**

Appendix C

Complaints Procedure & Form