

DALE FARM ENVIRONMENTAL PERMIT APPLICATION

Section 9: Waste Acceptance Procedure

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1.0 Introduction

1.1 Report Context

Mr. J Townsend-Berridge (JTB) has instructed SLR Consulting Limited (SLR) to prepare a Waste Acceptance Procedure (WAP) as part of the application for a Waste Recovery Environmental Permit (EP) for the use of waste in the restoration of an area of land previously used as a lake on Dale Farm, Southampton.

The purpose of the WAP is to ensure that the site only accepts waste that is:

- Suitable for the activity;
- Is allowed by the permit; and
- Is appropriately considered by the environmental risk assessment.

The WAP will also assist with:

- Ensuring the activities do not cause pollution;
- Assist in the waste sourcing decision making process; and
- Prevent the receipt of non-permitted wastes.

This WAP has been prepared with reference to the Environment Agency (EA) guidance 'Waste Acceptance Procedures for Waste Recovery on Land' dated 18th October 2016¹ and Standard Rules Permit SR2015 No. 39: Use of Waste in a deposit for recovery operation.

¹ Available at: <https://www.gov.uk/guidance/waste-acceptance-procedures-for-waste-recovery-on-land>.

2.0 Waste Acceptance and Pre-Acceptance Procedures

2.1 Waste Pre-Acceptance Criteria

The site proposes to accept only the waste types in Table 2-1 below.

**Table 2-1
Proposed Waste Types**

Waste	Code Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	wastes from mineral excavation
01 01 02	wastes from non-metalliferous excavation
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
10	WASTES FROM THERMAL PROCESSES
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)
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
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 05	soil (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
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION / INDUSTRIAL WASTE
19 12 09	minerals (for example sand, stones)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes
20 02 02	soil and stones

All wastes will be subject to waste acceptance procedures on arrival at the site. Procedures will be in accordance with those set out in Standard Rules Permit SR2015 No. 39: Use of Waste in a deposit for recovery operation. This is deemed sufficient to satisfy the requirements of all waste types to be accepted.

Waste shall only be accepted if it is of a type listed in Table 2-1 and meets the additional restrictions in that table and:

- a) It is inert waste, with the exception of topsoil and dredging spoil;
- b) Appropriate measures have been taken to ensure that the waste is free from contamination;
- c) It has been identified as a suitable waste in the approved waste recovery plan; and
- d) Its chemical, physical and biological characteristics make it suitable for its intended use on the site.

As a minimum, the following information about the characteristics of each waste stream shall be obtained prior to receiving the waste at the site:

- a) The full address where the waste was produced;
- b) The identity of the producer;
- c) All the reasonably identifiable previous uses of the producer site (where the waste is excavation waste);
- d) The process giving rise to the waste;
- e) The physical appearance of the waste including colour and texture;
- f) Where a weighbridge isn't used, a metric conversion factor for volume (cubic metres) to weight (tonnes) for each waste stream; and
- g) The quantity of waste to be imported.

In the event that there is suspicion of contamination, waste will be tested. The waste acceptance criteria that will be adopted at the site will be the inert waste acceptance criteria as detailed in Tables 2-2 and 2-3 below.

Table 2-2
Limit Values for Leaching

Component	Symbol	L/S = 10 l/kg mg/kg Dry Substance
Arsenic	As	0.5
Barium	Ba	20
Cadmium	Cd	0.04
Total Chromium	Cr _{total}	0.5
Copper	Cu	2
Mercury	Hg	0.01
Molybdenum	Mo	0.5
Nickel	Ni	0.4
Lead	Pb	0.5
Antimony	Sb	0.06
Selenium	Se	0.1
Zinc	Zn	4
Chloride	Cl ⁻	800

Fluoride	F ⁻	10
Sulphate ^(a)	SO ₄ ²⁻	1,000
Phenol index	PI	1
Dissolved Organic Carbon ^(b)	DOC	500
Total Dissolved Solids ^(c)	TDS	4,000

(a) This limit value for sulphate may be increased to 6,000 mg/kg, provided that the value of CO (the first eluate of a percolation test at L/S = 0.1 l/kg) does not exceed 1,500 mg/l. It will be necessary to use a percolation test to determine the limit value at L/S = 0.1 l/kg under initial equilibrium conditions.

(b) If the waste does not meet this value for Dissolved Organic Carbon (DOC) at its own pH value, it may alternatively be tested at L/S = 10 l/kg and a pH between 7.5 and 8.0. The waste may be considered as complying with the acceptance criteria for DOC, if the result of this determination does not exceed 500 mg/kg.

(c) The value for Total Dissolved Solids can be used alternatively to the values for Sulphate and Chloride.

Table 2-3
Limit Values for Total Content of Organic Parameters

Parameter	Value mg/kg
Total Organic Carbon (TOC) ^(a)	30,000
BTEX compounds (benzene, toluene, ethyl benzene & xylenes)	6
Polychlorinated biphenyls (PCBs) (7 congeners)	1
Mineral oil (C10 to C40)	500
PAHs (Polycyclic aromatic hydrocarbons) (Total of 17)	100

^(a) In the case of soils, a higher limit value may be permitted by the Environment Agency, provided a Dissolved Organic Carbon value of 500 mg/kg is achieved at L/S 10 l/kg at the pH of the soil or at a pH value of between 7.5 and 8.0.

2.2 Decision to Approve/Not Approve

The pre-acceptance procedure will result in either the waste:

- Being approved for delivery to the site as an inert waste and therefore suitable for recovery at the site;
or
- Failing the site's waste pre-acceptance criteria and therefore not approved for delivery to the site.

If the waste is not approved, the customer will be advised that the waste is unsuitable for receipt at the site.

The waste producer is responsible for ensuring that the sampling procedure employed characterises the waste both chemically and physically, and accounts for the variability of the waste stream.

3.0 Waste Acceptance Procedure – On-site Verification

3.1 Procedures at the Site Entrance

Upon delivery of waste to the site, the objectives of the WAP implemented at the site entrance are to undertake:

- Visual inspection of pre-approved loads;
- Checking and completion of paper work accompanying each load;
- Verification sampling and testing;
- Rejection of unacceptable loads; and
- Ensuring that only pre-approved wastes are accepted at the site.

3.1.1 Visual Inspection of Pre-Approved Loads

All drivers delivering waste to the site will be required to disclose the nature of the waste they are carrying and provide relevant documentation upon arrival at the site.

All loads of waste delivered to site will be visually inspected where practicable. The objective of this inspection is to detect the presence of unauthorised waste. Vehicles that arrive at the site sheeted will be required to unsheet to allow this inspection to take place before they are issued with a ticket.

Where visual inspection is not possible at the site entrance, all loads will be visually inspected at the operational area prior to being recovered. No waste will be recovered at the site unless a visual inspection has been carried out.

3.1.2 Checking and Completion of Paper Work Accompanying Each Load

The competent person on site will ensure that a fully completed waste transfer note is received for every load (unless part of a multiple consignment), and will issue the delivery driver with a receipt.

Only authorised waste carriers (and exempt authorities) will be allowed on site. Any new waste carrier must provide evidence of registration before being allowed to deposit the load.

After inspection of the load, the waste transfer note will be signed to confirm that the details are correct.

Once satisfied that everything relating to a load is acceptable, the load will be directed to the active unloading area, prior to recovery. However, if inspection is not possible at the site entrance, the waste transfer note will only be signed when the vehicle returns to the site entrance after the unloading of waste has taken place.

3.1.3 Management and Monitoring of Approved Job List

The competent person on site will only accept waste that is detailed on an Approved Job List, which contains details on the wastes that have been approved for receipt.

3.1.4 Rejection of Unacceptable Loads

Waste will be rejected from site in the following circumstances:

- If the waste has not been pre-approved and is not on the Approved Job List;
- If the waste does not conform to the description on accompanying paperwork, the waste transfer note or the Approved Job List;
- If the waste is delivered by an unauthorised carrier; or

- If the visual and olfactory inspection reveals the presence of unauthorised waste.

In these circumstances the load will be rejected from site and the competent person will advise the driver that the load is rejected. The producer and carrier of the waste will be informed. Relevant paperwork will be completed.

If a load is rejected before completion of paperwork accepting the waste on site, there will have been no 'transfer' of the waste from the carrier and accordingly a new waste transfer note will not be created. If waste is rejected following completion of the original transfer note, a new transfer note will be generated.

3.2 Procedures at the Operational Area

The objectives of the waste acceptance procedures at the operational area are:

- To carry out further visual inspection of the loads during and following discharge from the delivery vehicle; and
- To implement quarantine and rejection procedures as necessary for non-conforming waste.

3.2.1 Visual Inspection of Loads During and Following Discharge

On arrival at the unloading area, the load will be deposited as directed by the competent person behind the working face.

Every load of waste will be observed by a competent person as it is discharged from the vehicle. The waste will be visually inspected at that stage to ensure there are no unauthorised materials present within the load. The visual inspection will generally be undertaken from the cab of the vehicle, however in the event of suspicion regarding the waste, the cab driver will get out of the vehicle and undertake further inspection.

When the competent person has satisfied themselves as to the acceptability of the waste, it will be deposited over the working face or into a temporary stockpile if immediate deposition is not possible.

If unauthorised waste is observed or suspected it will be dealt with in accordance with the waste rejection procedures.

3.2.2 Quarantine and Rejection Procedures

If non-conforming waste is identified during the visual inspection at the operational area, quarantine and rejection procedures will be implemented in accordance with Section **Error! Reference source not found.** **Error! Reference source not found.**

4.0 Quarantine and Rejection Procedures

The objectives of the quarantine and rejection procedures are to ensure that all non-conforming waste is removed from site and that the waste producer and carrier are informed so that appropriate action can be taken to prevent recurrence.

Non-conforming waste will be identified by the competent person on site. Non-conforming waste will be identified by visual and olfactory means.

Visual criteria used to assess potentially unsuitable loads will be the presence of material not specifically authorised by the permit, or discolouration and staining. Any odorous materials will be rejected as potentially contaminated.

4.1 Rejection at the Site Entrance

Waste will be rejected from site by the competent person in the following circumstances:

- If the waste has not been pre-approved and is not on the Approved Job List;
- If the waste does not conform to the description on the accompanying paperwork, the waste transfer note or the Approved Job List;
- If the waste is delivered by an unauthorised carrier;
- If the visual and olfactory inspection reveals the presence of unauthorised waste.

In these circumstances the load will be rejected from site and the competent person will issue relevant paperwork to the driver.

4.2 Rejection at the Operational Area

If unauthorised waste is observed by the competent person either during or after deposit, the driver of the vehicle will be alerted and the waste will be reloaded onto the vehicle where possible. The vehicle will then be redirected to the site entrance, issued with relevant paperwork and asked to leave the site.

If the vehicle has left the operational area, the competent person will attempt to intercept the vehicle before leaving the site so that the waste can be reloaded, and relevant paperwork issued.

If the vehicle has left the site before the presence of unauthorised waste is identified, the waste will be isolated or moved to a temporary 'quarantine' storage area.

The waste carrier will then be contacted and asked to remove the waste from site. If the carrier is unable to remove the waste it will be consigned to an alternative suitably authorised facility by a registered waste carrier. A duty of care transfer note will be completed for all such transactions. In the event it is necessary to sample such waste to identify a suitable treatment facility, the necessary sampling will be carried out. The waste will be stored in the quarantine area until a suitable alternative facility has been identified.

A skip will be maintained close to the operational area. This skip will be used for the storage of isolated contaminants identified within loads of waste which would not warrant rejection of the load. Such inclusions may include small amounts of plastic or wood. These minor inclusions will be removed from the load and placed in the skip prior to off-site removal.

4.3 Communication with Producer and Carrier

The producer and carrier of any rejected waste will be advised by the completion of relevant paperwork. In the event of repeated deliveries of non-conforming waste, formal letters will be sent to the offending producers

and carriers and the ultimate sanction will be to prohibit them from using the site. A record of prohibited producers and carriers will be maintained on site, and will be available for inspection by the EA.

5.0 Record Keeping

Records will be maintained of all waste transactions relating to the waste recovery operations undertaken at Dale Farm. Records will comprise the following.

5.1 Waste Transfer Notes

All waste accepted for recovery at the site will be accompanied by a waste transfer note (unless it is a multiple consignment) as required by the Duty of Care Regulations, which will provide the following details:

- Waste description including appropriate waste classification code;
- Waste origin;
- Transferor and transferee; and
- Signatures of transferor and transferee.

5.2 Records of Quantity Received

A register of the quantities and characteristics of waste accepted at the site will be maintained on a computerised database. The database will include the following details:

- Date of delivery;
- Waste quantity;
- Waste description and classification code; and
- Waste producer and/or carrier.

A record will also be maintained of all waste that is removed from the facility.

5.3 Waste Information Forms, Waste Rejection Forms & Correspondence

Copies of relevant paperwork and correspondence will be maintained on site.

5.4 Waste Characterisation & Analysis Records

Copies of all information relating to the characterisation and analysis of waste accepted at the site will be maintained.

5.5 Site Log/Diary

The foregoing records will be supplemented by the site log/diary which will be used to record further details relating to waste acceptance and rejection including communication with the EA.

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