

Appendix 2-9 – BES Liner Method Statement



Method Statement

Task: Method Statement for placing BES layers to Phase XV

Location of Task: Drehid Waste Management Facility Phase XV

Duration of Task: (dd/mm/yy)

From: 10th October 2022 to:16th December 2022

Note: Site Management will be advised of any changes to the schedule

Personnel:

Contracts Manager:

Project Manager:

Site Foreman:

Site Engineer:

Operatives:

Up to 7No. operatives involved in task

Plant & Equipment to be used:

1. Komatsu 170/210 excavators.
2. Cat 312 Excavator fitted with GPS 3D Grading
3. Komatsu D61 dozer with GPS3D Grading
4. 2 x 30 Tonne dumpers

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5. 2 x 12ton Bergmann track dumpers
6. Bomag Roller
7. Brushes & Leaf Blowers

First Aid:

The following persons will be available to administer first aid:

1. xxx
2. xxx

Permits

Hot Works Permit	Yes	No	N/A	✓	
Roof Permit	Yes	No	N/A	✓	
Confined Space Permit	Yes	No	N/A	✓	
Have you completed a work Permit	Yes	✓	No	N/A	This method statement and RA qualifies as a permit.

Specific Training Requirements:

All Personnel have FAS Safe Pass Certification or Equivalent	Yes	✓	No
All Operatives have received Safety Induction	Yes	✓	No
All operatives are trained and competent to carry out the tasks assigned to them	Yes	✓	No

Certification:

All tools/ equipment are tested and certified in date.

This document will be signed by those involved in the task and issued to Main Contractor &/or kept in main contractors Safety folder onsite

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Personal Protective Equipment (PPE)

Minimum PPE to be worn by all personnel shall be:

1. Hard hat
2. Boots
3. Hi - Vis Vests
4. Safety glasses when required
5. Gloves when required

Job specific PPE to be included in above list (if applicable)

Method of Work:

- Before work commences all employees involved in the works will be briefed on the approved method statement, risk assessments and will sign to say that they will adhere to their requirements.
- Daily prestart checks will be conducted by the operator of each item of plant. This will include a break test. Weekly inspection sheets will be filed in main contractor office onsite.

- All plant will have keys removed when not operating and parked in the designated area next to the main contractor compound out of hours.
- All refueling will take place away from ignition sources and will be from the bunded fuel bowser next to the main contractor compound entrance or directly from the suppliers' tanker on site. No smoking near the fuel bowser during refueling.
- Main contractor operatives will be made aware of other persons in the area and where necessary will cease work until it is safe to resume.
- All mobile plant and equipment will be fitted with lights, beacon and reversing alarms as required under the 2013 Construction Regulations.
- Adequate lighting will be put in place if the contractor is working outside of daylight hours.
- Speed limit signs will be erected along the haul route. Speed limit of 15km/h and a minimum travel distance between machines of 30m will be adhered to at all times.
- Haul routes will be maintained when required and at the end of the Contract.

Placing BES in Phase XV to design levels:

- Formation level will be inspected/approved/agreed with Bord Na Mona representative before commencing placing of BES in the cell.
- Main Contractor site engineer will carry out a GPS survey of formation level prior to placing any BES material.
- Approved geotextile filter layer will be placed on the embankment and floor in advance of material being placed in the cell.
- Main Contractor will commence by constructing a ramp with BES down the embankment in the NE corner of the cell to access the cell floor.
- A trial pad of BES will then be completed on the embankment and floor with the CQA laboratory representative supervising and testing with a NDG to check the required roller compaction levels.
- BES material will be loaded into the Bell 30T dumpers directly from the batching plant hopper into the dumper skips.

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- The BES material will be drawn to the top of the access ramp where it will be tipped at the excavator/dozer and moved down the ramp and into the cell. From here it will be loaded into the tracked dumpers and moved to the BES working face and tipped in front of the GPS dozer/excavator. A 300mm layer of BES will be placed with the GPS dozer/excavator.
- Any standing water on the formation level will be brushed off or blow off using sweeping brushes and/or mechanical leaf blowers.
- The 1st layer of BES will be compacted with the smooth drum roller making 4 passes (or as advised following test area on floor and embankment with NDG)
- BES will be placed on the embankment in the first instance allowing for lap lengths in the geotextile on the floor followed by placing material on the floor.
- Permeability cores will be undertaken at the rate of 3 no. per 10,000m² area per BES lift by the CQA laboratory representative.
- The location of tests shall be agreed with BNM in advance of any samples being taken.
- The 2nd 300mm layer of BES will be placed following compaction of the first layer with the Bomag roller on the embankment.
- All filling operation will be carried out in layers, with each layer being rolled and fully compacted before the next layer commences.

- The 2no.compacted layers will form a 500mm layer of BES over the work area within the cell.
- The CAT 312 GPS excavator will be used to grade the top of the BES layer to the correct levels.
- The HPDE liner and protective geo-textile layers will be placed as soon as is practical to cover the BES layer placed to Phase XV.

Personal Protective Equipment

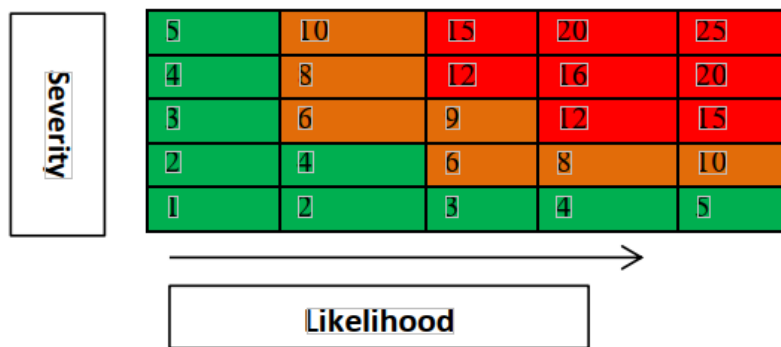
The following equipment must be worn at all times:

- Safety Boots
- Hard Hat
- Hi Vis Jacket
- Gloves where required
- Hearing and eye protection where required

Authorisation of work on a daily basis: As a requirement, a daily log of all employees under Main Contractor control including all sub-contractors will be kept in the site office and will include the activity and working location of each employee on the site. Visitors will also have to be logged in.

Risk Factor = Severity X Likelihood. Risk is then graded as follows:

Likelihood:	5=Certain 4= Very likely 3=likely/possible 2 = unlikely 1= very unlikely/rare
Severity:	5 = fatality, permanent damage to environment 4=Major Injury, long term adverse impact 3=major short term adverse impact 2=minor 1=no lost time



Hazard	Risk	Who is at risk	RR (Before)		Control Measures	RR (After)		By whom
			L	S		L	S	

Risk Assessment to be completed.

Additional Notes, Risks, Precautions ETC. not covered above:

1. Covid 19 protection measures will be implemented as per current Government/HSE/CIF guidelines and will be subject to constant review.
2. All accidents to be report immediately to site personnel
3. Any employee or subcontractor not obeying method and safety statements will be removed from site immediately
4. All employees, subcontractors and visitors must be safety inducted before working on site.

Prepared By: xxx

Title: xxx

Company: Main Contractor

Site Name & Address: Drehid Waste Management Facility

Date:

Confirmation of Communication to each operative:

“I wish to confirm that I have read, understand and shall carry out the above task in accordance with this Method Statement. I shall bring to the attention of the supervisor any issues, which may affect Safety whilst carrying out the task”

Name	Signature	Date