

# Biosecurity Management Sub-Plan

## Cross River Rail – Rail, Integration and Systems Alliance

Project number:	Q01080
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Revision number:	04

### Document Approval

Rev	Date	Prepared By	Reviewed By	Approved By	Remarks
A	28/06/19	UNITY – Environment Manager	UNITY – Delivery Manager		IFR
B	08/09/19	UNITY – Environment Manager	UNITY – Delivery Manager		IFR
C	16/09/19	UNITY – Environment Manager	UNITY – Delivery Manager	UNITY – Environment Manager	IFU
00	07/10/19	UNITY – Environment Manager	UNITY – Delivery Manager	UNITY – Environment Manager	IFU
01	23/06/20	UNITY – Senior Environmental Advisor	UNITY – Environment Manager		IFR
02	07/09/20			UNITY – Environment Manager	IFU
03	26/08/21	UNITY – Environmental Coordinator	UNITY – Senior Environmental Representative		IFR
04	05/10/21			UNITY – Environment Manager	IFU
Signature:					

## Plan Control

This Biosecurity Management Sub-Plan (the plan) has been developed for the Cross River Rail – Rail, Integration and Systems Project.

## Approvals, Revisions and Amendments

Plan Approval is in accordance with Section 4.1.2 of the Construction Environmental Management Plan (C-EMP).

Plan reviews and updates is in accordance with Section 7 and Section 8.1 of the C-EMP.

### Revision Details

Revision	Remarks
A	Final C-EMP for Review and endorsement by the Environmental Monitor
B	Incorporation of IEM review comments from 16 & 20 August 2019
C	Incorporation of IEM's second round of review comments from 13 September 2019
00	Incorporation of CRRDA's Observation. Plan Endorsed
01	6 monthly review and updated to incorporate changes linked to RfPC-7 and Updated O-EMP The update does not include new or additional Relevant Project Works Incorporation of changes to Biosecurity Legislation for Fire Ants management
02	Issued for Use
03	Issued for review to the IEM 6 monthly review and update to incorporate <ul style="list-style-type: none"> <li>changes linked to RfPC-11</li> <li>addition of the Southern Area Scope of Works (Dutton Park and Buranda)</li> </ul> Incorporation of additional mitigation measures as an outcome of the Progressive Environment Review and update to flowcharts
04	Issued for Use

# 1 Purpose of this Plan

This sub-plan has been prepared to comply with the:

- Final O-EMP – Outline Nature Conservation Management Plan.

Component	Details
Environmental Outcome(s)	<ul style="list-style-type: none"> <li>• Construction activities do not cause the introduction of new restricted or prohibited matters or spread of new or existing restricted or prohibited matters.</li> </ul>
Relevant Area	<ul style="list-style-type: none"> <li>• Site wide for prohibited and restricted biosecurity matters (except red imported fire ants)</li> <li>• Earthworks within a fire ant biosecurity zone <ul style="list-style-type: none"> <li>– Zone 2: Southern Area (Dutton Park and Buranda), Fairfield, Yeronga, Yeerongpilly, Moorooka, Rocklea and Salisbury for Red Imported Fire Ants (RIFA).</li> </ul> </li> </ul>
Relevant Works/Activities	<ul style="list-style-type: none"> <li>• Clear and grub activities</li> <li>• Import of materials with potential to be carriers (e.g. topsoils, fill material, mulches)</li> <li>• Disposal of material off site</li> <li>• Internal movement of potential fire ants carrier</li> <li>• Stockpiling of material</li> <li>• Use of or transport of mulch on and off site</li> <li>• Rehabilitation and landscaping</li> <li>• Plant mobilisation and demobilisation.</li> </ul>
Performance Criteria	<ul style="list-style-type: none"> <li>• All project sites receiving fire ant carriers must ensure the supplier provides a Biosecurity Instrument Permit or a Biosecurity Queensland certified inspection certificate for fire ant carriers</li> <li>• Ensure appropriate soil hygiene procedures are followed to prevent spread of pest plants and animals, and potential soil pathogens</li> <li>• Pest species declared under the <i>Biosecurity Act 2014</i> are not spread or introduced during construction.</li> </ul>
Sustainability	Eco-1
Mitigation Measure	<ul style="list-style-type: none"> <li>• Undertake an ecological survey to identify matters of biosecurity concern.</li> <li>• For Prohibited matters (pest fauna and flora), Unity will <ul style="list-style-type: none"> <li>– report it to Biosecurity Queensland (BQ) on 13 25 23 within 24 hours of becoming aware of the findings, unless Unity is aware that it has already been reported.</li> <li>– take all reasonable steps to minimise the risks of the prohibited matter and not make the situation worse. The extent of the actions to be taken will be based on advice from BQ</li> </ul> </li> <li>• For Category 1 or 2 restricted matters excluding Fire Ants, (pest fauna and flora), Unity will <ul style="list-style-type: none"> <li>– report the matter to Biosecurity Queensland on 13 25 23 within 24 hours of becoming aware of the findings, and seek advice on actions required to be implemented</li> <li>– not take any action likely to exacerbate the biosecurity risk.</li> <li>– only take action when it is likely to minimise the biosecurity risk posed by the category 1 or category 2 restricted matter. The extent of the actions to be taken will be based on advice from BQ</li> </ul> </li> <li>• For Categories 3, 4, 5, 6 and 7 restricted flora matters – the below management measures will be implemented <ul style="list-style-type: none"> <li>– Where viable flora species are identified within the disturbance footprint, Unity will review their classification under the Biosecurity Regulation 2016.</li> <li>– Unity will also review the spread and type (e.g. grass vs tree) of the species to confirm the management measures to be implemented. Management measures may include isolation of the species, chemical treatment, removal and other hygiene procedures required.</li> </ul> </li> </ul>

Component	Details
	<ul style="list-style-type: none"> <li>– Where viable pest flora species are to be disturbed within the QR corridor due to the Project Works, Unity will contact QR to discuss any upcoming weed treatment (routine or as required re-growth management) within the rail corridor.</li> <li>– Where viable pest flora species are identified outside of the proposed disturbance footprint, Unity will contact the relevant asset owners (e.g. BCC, QR, Others) to advise them of the findings.</li> <li>– Management measures will be detailed in the SEP</li> <li>• In the event that other pest fauna species are identified in the project footprint, notify the Delivery Authority so appropriate escalation to the Brisbane City Council pest management team can occur (eg. feral dog)</li> <li>• All machinery / equipment will be inspected and declared weed seed and Fire Ant free prior to arriving on site, using Unity Plant and Equipment Clean Down Declaration which will be kept with Plant Department. The Declaration is to be completed by the owner of the equipment</li> <li>• Obtain relevant Biosecurity Instrument Permits for material movements within the corridor and off site</li> <li>• Where materials movement restriction applies within the corridor and offsite, detail restrictions in the Workpacks and SEPs</li> <li>• Ensure that movement restrictions and details associated with RIFA mapping from Biosecurity Queensland is covered in the site inductions all staff, personnel and subcontractors must attend</li> <li>• Comply with movement restrictions for potential Fire Ants Carrier as detailed in section 2</li> <li>• Work closely with any subcontractors and suppliers to ensure that the import of potential RIFA carrier is managed in accordance with the <i>Biosecurity Act 2014</i> requirements, including where relevant that suppliers have a current Biosecurity Instrument Permit/s issued by DAF</li> <li>• Ensure the Materials Import Restriction from RIFA zones is detailed in material import contracts</li> <li>• Where fire ants nest(s) are identified UNITY will <ul style="list-style-type: none"> <li>– Report any sighting of fire ants to Biosecurity Queensland when not on QR Land</li> <li>– In the event of Fire Ants within the Rail Corridor, <ul style="list-style-type: none"> <li>■ Unity will report the matter to QR's environmental team</li> <li>■ QR's environmental team will notify BQ and their corridor maintenance team</li> <li>■ QR's environmental team will advise Unity of the outcome of the notification to BQ</li> </ul> </li> <li>– Quarantine the area to prevent any further ground disturbance works from occurring within at least 1 m from the nest</li> <li>– Where a significant infestation is identified - Biosecurity Queensland will determine any further quarantine requirements.</li> </ul> </li> <li>• All machinery / equipment will be inspected and declared weed seed and Fire Ant carrier free using the Machinery Clean Down Form prior to leaving a site within zone 2. The form is to be completed by the operator of the machinery / equipment and kept with the Plant Department.</li> </ul>
Monitoring	<p>Monitoring is undertaken in accordance with the Construction Monitoring Program (Attachment 4 of the C-EMP).</p> <p>Monitoring is to occur 14 days prior to excavation in a fire ant zone.</p> <p>Monitoring for fire ants is to be undertaken by personnel suitably trained / qualified in the identification of fire ants.</p> <p>Where monitoring requirements for fire ants are a condition of a BIP, these requirements will take precedence.</p>
Reporting	<p>Reporting is undertaken in accordance with Section 8.2 of the C-EMP.</p> <p>Where reporting requirements for fire ants are a condition of a BIP, these requirements will take precedence.</p>

Component	Details
Corrective Action	Management of corrective actions will be undertaken as per Section 6 of the C-EMP.
Auditing	<ul style="list-style-type: none"> <li>As per Section 7 of the C-EMP</li> <li>RIFA – UNITY will undertake regular subcontractor audits to confirm compliance with biosecurity requirements.</li> </ul>

## 2 Red Imported Fire Ants Movement Restrictions

### 2.1 Publicly Available Information

The Department of Agriculture and Fisheries website has extensive information regarding fire ants

The website contains information on

- How to report sightings of fire ants. The environment team will coordinate and manage any reports of sightings of fire ants within the project boundaries
- Mapping of fire ant biosecurity zones. The Queensland Spatial Catalogue (QSpatial) will be used to determine the extents of each zone and will be checked at regular intervals.
- Fire ant identification training. Selected Unity Staff will undertake the training. Awareness training will be provided to the broader project team, including of sub-contractors via means of toolbox talks and project induction.
- Movement restrictions (see below summary table)

The website must be consulted at regular intervals to remain appraised of any key changes to the management of fire ants: <https://www.daf.qld.gov.au/business-priorities/biosecurity/invasive-plants-animals/ants/fire-ants>

### 2.2 Biosecurity Instrument Permits

A Biosecurity Instrument Permit is required to move material from Zone 2 (highest risk zone), unless:

- One of the below requirements are met, and the material is being moved within zone 2

Control	Requirements
Treatment	<ul style="list-style-type: none"> <li>• Inspect the area to be excavated up to 14 days prior to excavation - if fire ants are found report them to BQ and do not disturb</li> <li>• If fire ants are identified the following must occur <ul style="list-style-type: none"> <li>○ Undertake direct nest injection (DNI) of any fire ant nests 14 days before excavation (can only be undertaken by a qualified pest controller), and</li> <li>○ Treat the site with an appropriate bait in the area to be excavated</li> </ul> </li> </ul>
Storage	<ul style="list-style-type: none"> <li>• Store material off-ground and covered (e.g. in a shed, under a shade cloth or tarpaulin), or</li> <li>• Store material on-ground, and covered, either on concrete, bitumen (no cracks), or a barrier that cannot be penetrated by fire ants (e.g. 200µm unperforated plastic sheeting)</li> <li>• If material is stored as per the above disturbance MUST also occur as per the recommendations of the Soil movement guidelines</li> </ul>
Disturbance	<p>Disturbing requires undertaking vigorously turning, crushing, washing or screening the stockpile:</p> <ul style="list-style-type: none"> <li>• Every 21 days (recorded), and</li> <li>• 24 hours prior to moving the material to another location (recorded).</li> </ul>
Disposal	<ul style="list-style-type: none"> <li>• Material is taken from zone 2 to a waste facility within zone 2 requires no further controls.</li> </ul>

- If materials are required to be taken from Zone 2 to another zone, UNITY will apply for and comply with the relevant Biosecurity Instrument Permits, unless the material is taken to a licensed landfill also located in Zone 2.

The DAF website maintain a list of waste disposal facilities within fire ant biosecurity zones in South East Queensland that can accept fire ant carriers: <https://www.business.qld.gov.au/industries/farms-fishing-forestry/agriculture/land-management/health-pests-weeds-diseases/pests/movement-controls/waste>

Unity will ensure that the waste disposal facilities selected for taking potential fire ants' carriers (e.g. contaminated soils) can accept such material prior to sending the material off-site for lawful disposal.

## 2.3 Soil and Mulch Management

The following flowcharts summarise how soils, quarry materials and mulch are to be managed by UNITY when generated from the Project Boundaries or when imported within the Project Boundaries.

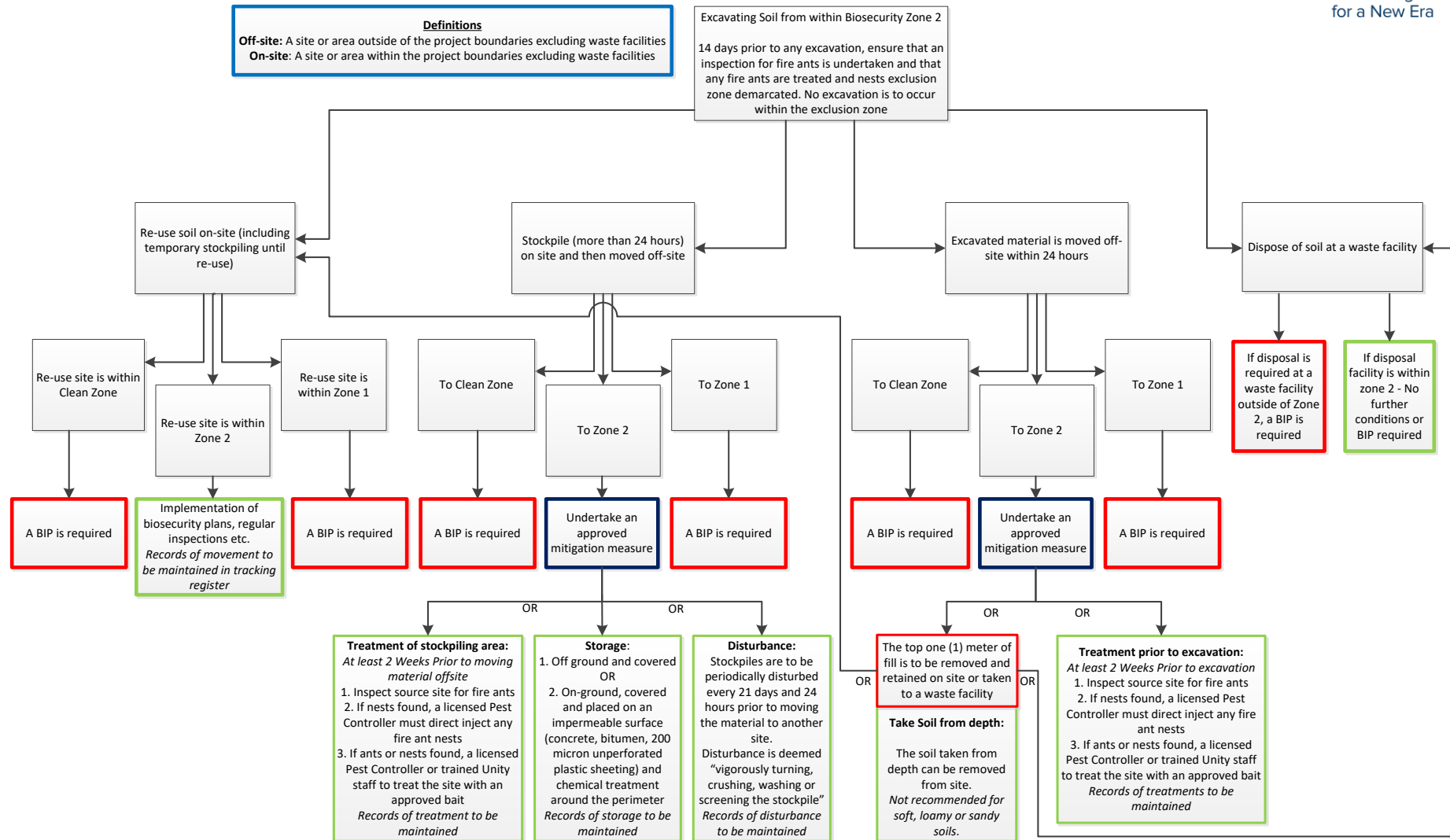


Figure 1: Soil management from Zone 2



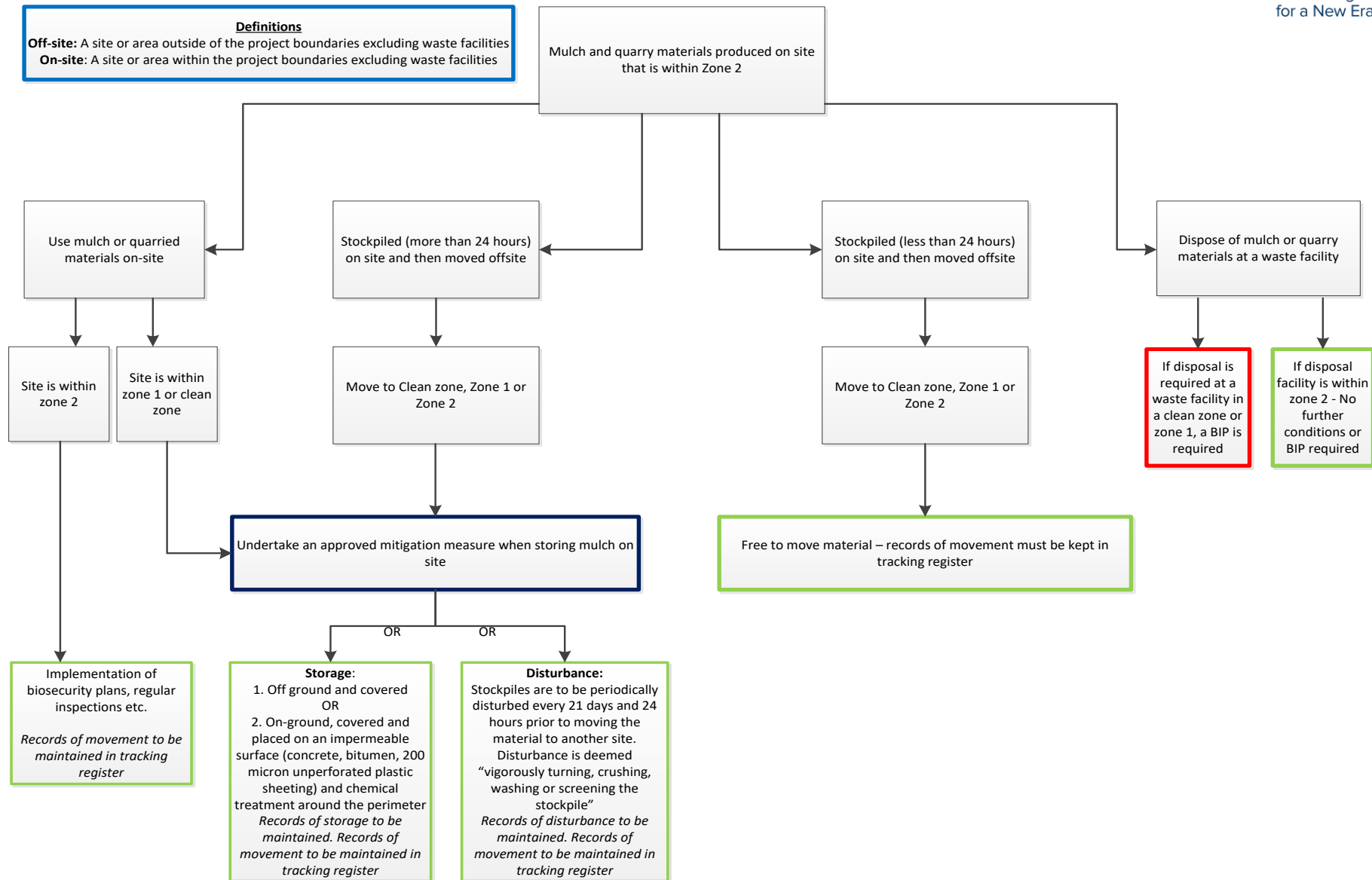


Figure 2: Mulch and quarry materials management from Zone 2