

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager


Revision: 1.0

Date: May 2020

Page 1 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Project Name & location:	Cethana & Tribute PHES Geotech drilling	Audit Date:	2-5 June 2020
Lead Auditor:	Adam D'Andrea	Signature:	
Auditee:	James Butler		
Legal requirements associated with this project:	<ul style="list-style-type: none"> <li>Reserve Activity Assessment (as part the EIA)</li> </ul>		
Scope:	<p>Geotechnical investigations as part of the PHES feasibility investigations for both Cethana and Tribute sites. Both sites have been combined in the one audit report as their scopes are very similar.</p> <p><b>NB: Due to the current COVID-19 pandemic across the world, site visits by Auditors to AMI project sites have been postponed.</b></p> <p><b>This Remote Environmental Self-audit is to be completed by the site manager within 72 hours of receiving it. Evidence shall be attached as a photo, link or comment as applicable..</b></p> <p><b>Please name the photo based on the Item number so it can be referenced easier.</b></p>		

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 2 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Item	Audit Element	Findings	Evidence/Comments
<b>ENVIRONMENTAL UNDERSTANDING</b>			
	Is the project EIA printed out <b>or</b> easily accessible online to staff and contractors to view?  Are highest environmental aspects discussed in site inductions, toolbox talks etc?	Ok	Copy of EIA on site and signed. Toolbox meeting daily along with pre-start to check for safety issues and potential environmental impacts ie oil spills, wild animals, noise
	Are the EIA controls checked for their effectiveness?	Ok	EIA provided to all staff and discussed prior to works commencing. James Butler and Joe Booth on site during pad construction and development. Regular site visits throughout drilling investigations. Regular questions to works team regarding environment.
<b>STAKEHOLDERS (interested parties)</b>			
	How have interactions with stakeholders, community members either on site or online occurred?  Have they been recorded?	Ok	Constant interaction and communication with key stakeholders has occurred. Key stakeholders include Hydro Tasmania, Parks and Wildlife, MRT, STT and various contractors. Also regular communication with members of public/community. Stakeholder engagement is via face to face, email or phone. Records of these are available on request. <ol style="list-style-type: none"> <li>1. P&amp;WS</li> <li>2. STT</li> <li>3. Hydro Tasmania</li> </ol> <p>Auditor comment: both MRT and PWS have been on site and inspected the works. A copy of their report has been sited as part of this audit.</p>

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 3 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Item	Audit Element	Findings	Evidence/Comments
<b>ENVIRONMENTAL INCIDENTS</b>			
	Are environmental hazards, near misses and/or incidents being recorded within SAP?	Ok	Yes ( safety Hazards or near misses only) – No environmental Hazards or near misses have been recorded on SAP but email received from Tim Salmon (HT Senior Safety Partner) providing recommendations.
	Are there any incidents outstanding for investigation?	No	
<b>WATERWAYS, SEDIMENT &amp; EROSION</b>			
	Are all physical barriers such as sediment fences, filters and drain covers free of debris and unblocked? Are they in good working order?	Ok	Photos of <ol style="list-style-type: none"> <li>1. Quinn Creek Geotech matting</li> <li>2. Quinn Creek site Drainage</li> <li>3. Cethana drain &amp; sumps</li> <li>4. Tribute BH01 culvert</li> </ol>
	Is there potential for contaminants to enter any waterways within close proximity to the project site?	Ok	No water return at Tribute means no drill cuttings are returned to surface. All water run off at Cethana sites pass via a double sump system to allow settlement, water recycling and any run of is directed well away from existing water courses. All contaminant materials and fuels are bunded accordingly. Spill kits available on site. Photos. <ol style="list-style-type: none"> <li>1. Tribute sumps</li> <li>2. Tribute bunds</li> <li>3. Tribute fuel bunds</li> <li>4. Spill kits</li> </ol>

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 4 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Item	Audit Element	Findings	Evidence/Comments
	<b>The</b> Water section of the Cethana EIA has been filled out as N/A. Please provide evidence showing consideration was given to the possibility of negative environmental risk to waterways occurring from 15,000KL of water being taken for drilling offtakes.	<b>Ok</b>	Water has been carted to CE BH04. Water to CE-BH06 has been pumped uphill from nearby creek. It is then directed through settling sumps before its released back down bank well away from creek. Water at Quinn Creek is been gravity sourced from nearby creek with ample 24 hour supply. Ball valve fitted to tanks to prevent overflow. Photo's provided.
	Is drilling water tested prior to discharge onto bushland?	<b>Ok</b>	Not required as part of MRT Exploration Licence.
<b>HAZARDOUS SUBSTANCES (including Oil)</b>			
	Are substances being stored within an appropriate facility (i.e. storeroom, flammables / corrosives cupboard, gas bottles store, oil tanks, etc.) with the facility in good condition?	Yes	Please see photo's attached  Please include list of Hazardous Substances and their volumes stored on site <ol style="list-style-type: none"> <li>1. Gas Bottles x 3</li> <li>2. Fuel – Fuel containers within bunds</li> <li>3. Oil – Oil containers within bunds</li> </ol> <b>Auditor comment: based on photos provided, the bunding system looked appropriate.</b> <b>Unclear if jerry cans are labelled with what substance they contain?</b>
	Are spill kits easily accessible and unopened? If they have been opened, is the stock within date and well stocked? Are the kits in an ideal location in case of a spill?	<b>Ok</b>	Kits in excellent conditions with back up oil pads on sites. Kits stored on rig and downstream of work site in event of oil/fuel spill.

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 5 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Item	Audit Element	Findings	Evidence/Comments
<b>GENERAL WASTE MANAGEMENT</b>			
	Are all bins and skips covered, secured, and emptied regularly?	Ok	Heavy duty garbage bags are stored up high in shelter throughout day and stored secured nightly. Rubbish taken out at every opportunity.  Auditor comment: rubbish is kept in secure mesh basket to keep out fauna and stop from blowing away.
<b>LAND MANAGEMENT</b>			
	Are there any stockpiles of soil, concrete or other waste on site and are they being managed correctly? le: <ul style="list-style-type: none"> <li>Not located next to a drainage line/waterway</li> <li>Sediment fence on the downward slope</li> <li>A plan for removal is in place.</li> </ul> <b>NB: stockpiles of waste products are not permitted on Hydro or private land without prior permission from the Tas EPA.</b>	N/A	
	How are contractors advised of the clearing footprint and the “no-go areas” (eg toolbox meetings, site induction etc)	Ok	Pre start meetings and James Butler on site to advise locations and mark approve tracks. Key Stakeholders advised of plans and then approvals sought. Key stakeholders invited to visit site and approve throughout the development and drilling process.
	How is vegetation managed for this project?	Ok	Brush cut and removed to side of tracks and work area.

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 6 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

Item	Audit Element	Findings	Evidence/Comments
	Are there any protected flora or fauna considerations for the site? If so, are these being complied with?	Ok	Minimal disturbance to flora, plus access tracks to reduce impact.  <b>Auditor comment: tracks are laid with geofabric and woodchips to create minimum vegetation disturbance.</b>
	How will land be rehabilitated?  Has monitoring of rehab been budgeted for and who will undertake monitoring progress? What does successful rehab look like?	Ok	Removal of equipment and removal of wood chips used to improve safety. Removal of geo-fabric material. Site will naturally regenerate over time. Budget allowed for re-hab works and progress will be monitored by Hydro Tasmania in conjunction with P&WS. Successful rehab will see regenerated button grass at site in 12 months' time post drilling.  <b>Auditor comment: rehab will be audited in mid-July 2020</b>
<b>SITE MANAGEMENT</b>			
	Does the overall site appear to be generally clean and tidy (no rubbish, build up, etc.)?	Ok	See site Photos attached

## Continual improvement

Is there evidence that the site/team is continually improving the suitability, adequacy and effectiveness of the environmental management system to enhance environmental performance? If so, how?

**Auditee has provided ample evidence that improvements were made once project commenced.**

1. The clearing and improvement of original site drainage at TR BH02 following first heavy rain event.
2. Access Track improvements including steps, geofabric and woodchips (approved by P&WS)
3. Water tank ball valves to stop overflow of tanks at site
4. Phytophera Footbath

## HSEF1501.6 – Environmental Management System (EMS) Audit Checklist

Approved by: Climate &amp; Environment Manager

Revision: 1.0

Date: May 2020

Page 7 of 4

**Ratings of non-conformance:** Major (MAJ), Minor (MIN), Opportunity for Improvement (OFI), Conformance (OK), Not Applicable (N/A)

Form variations to suit user, system / software constraints, legal requirements or corporate requirements are permissible, as long as the intent of the form is not compromised.

## Comments

Any further information to be captured as part of the audit.

Audit evidence provided has been excellent and gave a good understanding of the site and works taking place.

It would be worth capturing any changes to the controls (see the *Continual improvement* section above) on the EIA itself for future reference and for future drilling projects.