Appendix P

# Guideline ACT procedures and checklists

Page 22: [1] Comment [GL8]	Guideline Laptop3	4/04/2013 12:19:00 PM
Guideline ACT will implement Their own pro	ocedure for Environment Management control fol	lowing this CEMP.
The following 17 elements of ISO 14001 are	required for the Guideline ACT EMS:	
1. An environmental policy supported by set		
2. The identification of environmental aspec	ts and impacts, and the identification of significan	ıt
environmental impacts that the organisation	n may cause (GLA-EP-3.0.2);	
3. Identification of legal and other requirem	ents (GLA-EP-3.0.3);	
4. The development of objectives and target	s, and their environmental management programs	S
(GLA-EP-3.0.1);		
5. Defined resources, roles, responsibilities a	and authorities for environmental management (C	GLABP-1.3.1);
6. The development of competence, training	and awareness procedures (GLA-BP-1.2.2);	
7. A communication process of the EMS to al	ll stakeholders and interested parties (GLA-EP-3.0	).1);
8. The development of EMS documentation a	as required by the standard (GLA-EP-3);	
9. The development of document control pro	ocedures (GLA-QP-4.1.1);	
10. The development of operational control	procedures (All GLA BMS);	
11. The development of emergency prepare	dness and response procedures (GLA-EP-3.1.1);	
12. The development of procedures for mon	itoring and measuring of operations that can have	2
significant impact on the environment (GLA	-EP-3.2.1);	
13. An evaluation of compliance procedure (	(GLA-QP-4.2.3);	
14. Procedures developed for the manageme	ent of non-conformance, corrective and preventat	ive
actions (GLA-QP-4.2.2);		
15. The development of a reco	ords management procedure (GL	A-QP-4.1.1);
16. A program for completing	internal EMS audits and correcti	ve action (GLA-QP-4.2.3);
17. The development of proce (GLA-BP-	edures for management review by	y senior management
1.1.1).		
-		

# 3.1 Environmental Management - Project Startup Phase

This series of procedures covers the Environmental Management System for the Project Startup Phase.

Procedure 3.1.1	Preparation of Environmental Management Plan (EMP);
Procedure 3.1.2	Environmental Approvals

Doc. No.: GLA-EP-3.1	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 65

# 3.1.1 Preparation of Environmental Management Plan (EMP)

#### PURPOSE

The purpose of this procedure is to describe what is required for preparing an Environmental Management Plan for each project.

#### **METHODOLOGY**

A Project Management Plan (PMP) incorporating four separate plans is to be drawn up and approved prior to any works commencing (Refer to the Preparation of PMP Procedure GLA-QP-4.1.2). The four separate plans are:

- 1. Work Health & Safety (WHS) Management Plan
- 2. Environment Management Plan
- 3. Quality Management Plan
- 4. Contract Management Plan

The EMP must contain the following as a minimum (refer to Sample EMP GLA-EF-3.1-01):

- Environmental Management Policy
- Environmental Approvals
- General Project Information
- Key Characteristics of the Construction Project
- Environmental Factors & Controls
- Environmental Incident Control Measures
- Environmental Checklists
- Plans, Specifications & Charts.
  - o Project Drawings
  - o Construction Program
  - o Establishment of Erosion Controls Checklist
  - o Erosion & Sediment Control Plan
  - o Waste Management Plan & Disposal Register
  - o Site Environment Weekly Checklist
  - o NCA Report Form

The EMP as part of the PMP must be approved internally and externally (usually by the Client's Representative) and on occasion by the Environment Protection Authority.

#### DOCUMENTATION

GLA-EF-3.1-01

Environmental Management Plan (EMP)

Doc. No.: GLA-EP-3.1.1	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 66

# **3.1.2Environmental Approvals**

#### PURPOSE

The purpose of this procedure is to outline the Environmental Approvals that are required prior to construction commencing.

#### **METHODOLOGY**

No work, except the implementation of the environmental controls, can commence onsite until the following has been completed:

- 1. The EMP as part of the PMP will need to be approved internally (by General Manager) and externally (by Client's Representative and/or Environment Protection Authority)
- 2. The Erosion and Sediment Control Plan has been reviewed and approved (with a stamp) by the Environment Protection Authority
- 3. Any Licences or Permits required from Environment Protection Authority have been obtained
- 4. The appropriate erosion and sediment controls are put in place and checked off using the Establishment of Erosion Controls checklist (GLA-EF-3.1-02)

#### 1) EMP (refer to Preparation of PMP Procedure GLA-QP-4.1.2)

#### 2) Erosion and Sediment Control Plan

The current edition of the *Environment Protection Guidelines for Construction and Land Development in the ACT (Environment Protection Authority – March 2011);* aka "The Green Book", Schedule 11.1 outlines the 'Minimum Standards for Submission of Pollution Control Plans'. When preparing the Erosion and Sediment Control Plan, the PE must address these requirements.

No work can proceed until the PE obtains a stamped, signed copy of the Erosion & Sediment Control Plan from their Environment Protection Authority representative.

#### 3) Licences and Permits

#### Environmental Protection Agreement

Guideline ACT has an Environmental Protection Agreement with the Environment Protection Authority which all employees must adhere to

The Environment Protection Agreement is valid for a period of 3 years and is for:

- i. Land development, or the construction of a commercial building, on a site of 0.3 hectares or more and including the construction of associated public infrastructure; or
- ii. The construction of public infrastructure on a site of 0.3 hectares or more.

There may be other licences and permits that are required for particular projects. The PE is to discuss with the Environment Protection Authority which licences and permits are applicable to their project.

#### 4) Establishment of Erosion Controls

The erosion controls need to be established as per the approved Erosion and Sediment Control plan. Once the controls are in place, they need to be checked using the Establishment of Erosion Controls checklist (GLA-EF-3.1-02). The Foreman is to sign the checklist, verifying that the controls have been

Doc. No.: GLA-EP-3.1.2	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 67

Guideline ACT Pty Ltd Environmental Management – Project Startup Phase

implemented. The PE is then to sign the checklist verifying that they have inspected the environmental controls, which are installed as per the Erosion & Sediment Control Plan.

Upon completion of the Establishment of Erosion Controls checklist (GLA-EF-3.1-02), the local Environment Protection Authority representative must be notified so they inspect the controls. The notification must be nominated by the PE on the checklist.

#### **DOCUMENTATION**

GLA-EF-3.1-02

**Establishment of Erosion Controls** 

Doc. No.: GLA-EP-3.1.2	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 68

## 3.2 Environment - Construction Phase

This series of procedures covers the Environmental Management System for the Construction Phase.

Procedure 3.2.1Environmental Monitoring;Procedure 3.2.2Discharging Water;Procedure 3.2.3Contaminated Sites;Procedure 3.2.4Waste Management.

Doc. No.: GLA-EP-3.2	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 69

# 3.2.1 Environmental Monitoring

#### PURPOSE

This procedure is to describe the method for monitoring the effectiveness of the environmental controls on site as well as the implementation of the environmental system.

All environmental controls require maintenance.

#### METHODOLOGY

#### Weekly Environmental Checklist

A site environment inspection needs to be completed at least once per week and after a rain event to monitor all environmental controls and their effectiveness. The inspection is to be recorded using the Site Environment Weekly Checklist (GLA-EF-3.2-01). The Project Engineer (PE) is responsible for ensuring the check is completed and documented by competent personnel.

The Foreman is to ensure any actions raised are completed before the next inspection. After completion of appropriate action, the checklist is to be forwarded to the PE for review, signing and filing in the project file. The PE shall ensure that any actions raised have been completed.

#### Auditing

Environmental management forms part of the following audits:

#### Project Management System Audit:

The Environmental Management Plan (EMP) shall be subject to an audit at least once for each project to determine whether the provisions of the Environmental Management System are being implemented effectively and in accordance with legislative requirements. Refer to the Quality - Construction Phase - Audit Procedure (GLA QP-4.2.3) for further details.

#### Guideline Internal Audit:

Significant aspects of the Environmental Management System will be audited internally by the Systems Manager (SM) approximately once per month for each project. Refer to the Quality - Construction Phase - Audit Procedure (GLA QP-4.2.3) for further details.

The above audits may identify areas of potential improvements to the Environmental Management System.

#### Management Review

The Managing Director (MD) shall carry out an annual management review to evaluate the continuing suitability, adequacy and effectiveness of the Environmental Management System. In the review the MD shall consider outcomes from summaries of Non Conformance/ Corrective Action (NCA) Reports (GLA-QF-4.2-20), discussions with the SM & review of KPIs. The MD will report the outcomes of the review to the Management Review Meeting and the SM will record this review on the Management Review Meeting Minutes (GLA-BF-1.2-02).

#### DOCUMENTATION

GLA-EF-3.2-01

Site Environment Weekly Checklist

Doc. No.: GLA-EP-3.2.1	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 70

Guideline ACT Pty Ltd Environmental Management – Construction Phase

# 3.2.2 DISCHARGING WATER

#### PURPOSE

The purpose of this procedure is to describe the requirements for discharging water.

#### METHODOLOGY

The management of water quality involves consideration of:

- Surface Water
- Ground Water
- Waterway

The protection of the above is addressed in the following documentation:

- ✓ EMP (refer to Preparation of EMP Procedure GLA-EP-3.1.1, and Preparation of PMP Procedure GLA-QP-4.1.2)
- ✓ Erosion & Sediment Control Plan (refer to the Environmental Approvals Procedure GLA-EP-3.1.2)
- ✓ EPA Licences and Permits (refer to the Environmental Approvals Procedure GLA-EP-3.1.2). The conditions of the license or permit must be followed at all times

#### De-watering

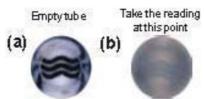
Most projects will require the discharge of treated water back into the waterway; the following procedure must be followed:

When de-watering, the following tests are required to ensure that the water being discharged is the same or better quality than the waterway that it will end up in:

- Turbidity (must be less than 50NTU's)
- pH (must be between 6.5 and 8.5).

Turbidity Tube Instructions:

- 1. Using a clean bucket or container, take a large sample of water (preferably from the center of the water body, not the edges)
- 2. Hold the tube out of direct sunlight (and have a piece of white paper underneath if possible)
- 3. Pour water slowly from the bucket/container into the tube (whilst looking in from the top of the tube) until the image at the bottom of the tube is just visible (see below).



- 4. Take the reading on the tube that is closest to the water level. If the water is between 2 marks, take the smaller number.
- 5. Repeat the process again to ensure the measurement is accurate.
- 6. Rinse the tube in clean water.

The results of this monitoring must be written on the Water Discharge Record (GLA-EF-3.2-02).

#### **DOCUMENTATION**

GLA-EF-3.2-02

Water Discharge Record

Doc. No.: GLA-EP-3.2.2	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 71

# 3.2.3 Contaminated Sites

#### PURPOSE

This procedure describes what to do when a suspected Contaminated Site is found, or areas of contamination are found.

Examples of potential contamination include:

- Smelly dirt
- Buried rubbish
- Asbestos in the form of fibro sheeting or conduits and other pipelines

#### METHODOLOGY

On discovering Asbestos, refer to the High Risk Activities Procedure (GLA-SP-2.2.4).

On discovering any other potential contamination:

- Immediately isolate and cordon off the potential contaminated site, preventing entry into the area;
- Contact the EPA to advise and assist in formulating an action plan. This may include specialist consultants and subcontractors;
- Contact Worksafe ACT to determine whether the contamination may contain a risk to workers or the general public and liaise to formulate an action plan;
- Contact the Client's Representative and inform them of the discovery and action to date;
- Raise an Incident Report (GLA-SF-2.2-09) and an NCA Report (GLA-QF-4.2-20).

Notifications and internal reporting are to be completed within 24 hours.

#### DOCUMENTATION

Contact the EPA for the following useful reference material:

EPA Information Sheet No. 4 - 'Requirements for the Re-use and Disposal of Contaminated Soil'

EPA Information Sheet No. 6 – 'Management of Small Scale, Low Risk Soil Asbestos Contamination'

EPA Information Sheet No. 5 – 'Requirements for the Transport and Disposal of Asbestos Contaminated Wastes'

	Doc. No.: GLA-EP-3.2.3	Revision: 0	
ſ	Approved by: Managing Director	Date: February 2012	BMS Page 72

# 3.2.4 Waste Management

# PURPOSE

This procedure is to describe the requirements for formulation of a Waste Management Plan and monitoring it through the use of the Waste Management Register.

#### **METHODOLOGY**

A Waste Management Plan (GLA-EF-3.2-03) is to be drawn up at the commencement of the project between the Project Engineer (PE) and Systems Manager (SM). The Waste Management Plan is to be signed off by the General Manager (GM). This Waste Management Plan is to be incorporated into the PMP.

The Waste Management Plan is to be communicated to staff via toolboxes.

The Waste Register is to be maintained throughout the project construction period and the effectiveness of the Waste Management Plan is to be measured against it through audits.

Below are some examples of typical waste that need to be considered when formulating the Waste Management Plan:

- Waste from over ordering of materials etc
- Packaging from suppliers
- General refuse from site personnel e.g. lunch wrappers etc
- Off cuts
- Management of soils including rock
- Excess topsoil
- Recyclable existing pavements
- Out of date chemicals

At the construction phase the steps to follow to ensure effective waste management are as follows:

#### STEP 1 – Educate staff about the Project Waste Management Plan

- Communicate the plan with staff;
- Open dialogue with Client's Representative on reducing waste and the use of recycled material.

#### STEP 2 – Implement Waste Avoidance Strategies

- Design works to avoid waste generation;
- Request minimal packaging from material suppliers;
- Ensure that materials that will generate minimal waste are used;
- Order the correct quantity of material.

#### STEP 3 – Implementation of Reduction, Re-use and Recycling Strategies

#### Reduction

• Target locations and materials that contribute high levels of wastage;

Doc. No.: GLA-EP-3.2.4	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 73

Guideline ACT Pty Ltd

Environmental Management – Construction Phase

- For maximum results in reducing waste, identify high levels of waste and attempt to reduce, resulting in a high result;
- Avoid damaging materials.

#### Re-use

- Ensure separation of materials is achieved on site when possible;
- Ensure excess resources are retained for future use;
- Ensure salvageable resources are retained for future use or re-sale;
- Take care of all salvaged materials (signs, posts, etc)

#### <u>Recycle</u>

- Establish stockpile areas for separated materials for further processing or storage;
- Establish a mixed recyclables deposit facility on site if not separating;
- Use recycled material where possible and avoid cross contamination.

#### STEP 4 – Review and Improve

- Determine areas requiring improvement;
- Compare the outcomes and results to those from other work sites;
- Discuss results with all relevant staff; and
- Use the knowledge and experiences gained on the next project;
- Review the effectiveness of the waste management plan and monitoring in the project completion review.

#### DOCUMENTATION

GLA-EF-3.2-03

Waste Management Plan

Doc. No.: GLA-EP-3.2.4	Revision: 0	
Approved by: Managing Director	Date: February 2012	BMS Page 74

#### ESTABLISHMENT OF EROSION CONTROLS

Project No.: \_\_\_\_\_ Project Name: \_\_\_\_\_

EPA approved Erosion & Sed Control Plan obtained? Dwg No. Date Approved:

Environmental Licences & Permits	Requ	ired?	Approved
	No	Yes	Date
Environmental Agreement			
Environmental Authorisation			
Permit to construct Sediment Control Pond			
Clarification on discharge requirements in non-urban areas			
Waterways Works Licence			
Water Access Entitlement			
Exemption from the Requirement for a Licence to Take Water			
Approval to remove spoil			
Approval to place material within a waterway (more than 100m <sup>3</sup> )			

Items that may need consideration for preparing the environmental control measures

Environmental Control	Requ	ired?
	Yes	No
Buffer zone fencing		
Trees to be retained		
Stockpile locations		
Protect stormwater structures		
Erosion control ponds		
Concrete wash out bay		
Nominated parking areas		
Check for fauna habitats that may be affected by works		
Fuel and chemical storage		
Asbestos checklist		

Implementation of Erosion & Sed Controls	Complete?		Re -inspect
	Yes	No	Frequency
Install all measures as per approved plans			Weekly
			(Form GLA-EF-3.2-01)

#### Comments

EPA notified of commencement of works? EPA Name:

Date:

Date:

#### Guideline ACT Sign Off (all actions above complete):

Foreman Name: Sign: Date:

Engineer Name:

Doc No: GLA EF 3.1-02	Revision 0	Page 1 of 1
Approved: Managing Director	Date: February 2012	

Sign:

#### SITE ENVIRONMENT WEEKLY CHECKLIST

Project No. & Name:

\_\_\_\_\_ Date: \_\_\_\_\_

Inspection completed by (Names):

Rainfall during week:

(dates & amount)

Environmental Check	Action Required/ Comments	Action Complete initial & date
All silt fencing in good effective operational condition		
Sedimentation pond still effective for site and has capacity		
Adequate quantity of flocculant stockpiled on site		
Date stabilised entry/exit maintained (turned over)		
Adjoining public roads - must clear mud/dirt or dust (record action		
complete eg "road swept on")		
Dust control – dust adequately controlled		
Work area clear of rubbish		
Adequate construction waste bins provided and emptied regularly		
Recycling of construction waste adopted where appropriate		
Is contaminated waste being disposed of correctly? i.e. oil, asbestos		
All diversion drains maintained & without obstruction		
Straw bales secured in drainage lines & in good condition		
All pipelines & sumps protected from sediment?		
Tree protection installed as required		
All machinery used on site adequately silenced		
All fuel and chemical stored in correctly		
MSDS available (& current) for all fuels /chemicals		
Is the Waste Register up to date?		

#### NOTES:

PE CHECK: All outstanding items closed out

 Name:
 \_\_\_\_\_\_
 Date:

Doc. No.: GLA-EF-3.2-01	Revision: 0	Page 1 of 1
Approved by: Managing Director	Date: February 2012	

**Guideline ACT** 

# WATER DISCHARGE RECORD

Project No. & Name:

Location:

Requirements for dewatering: Turbidity < 50NTU, pH between 6.5-8.5, ensure no oil or grease in pond

ч		Uate of discharge									Page 1 of 1	
Sign off - ok to proceed with		Sign										
Sign off – ok	dewatering	Name										
	Meets Requirements?	0 Action										
	Aleets K	Yes No										2012
	Kesult	~									Revision: 0	Date: February 2012
	Meets Requirements?	0 Action									Я	Date:
TU)	Meets R	Yes No										
ty ()	Kesult											
Name of	Checking Person										3.2-02	Approved by: Managing Director
Time											GLA-EF-	oy: Mana
Date .											Doc. No.:	Approved t

## WASTE MANAGEMENT PLAN

#### 1. **PRINCIPLES**

The construction will use the following waste management principles, in order of priority:

- 1. avoid the use of excess materials and production of waste,
- 2. reuse waste materials (such as off cuts) on site where possible,
- 3. recycle waste, and
- 4. dispose of waste correctly.



#### REDUCTION RE-USE RECYCLING RECOVERY DISPOSAL

When deciding how to minimise waste management impacts, consider the following:

- will construction generate surplus material which can be recycled?
- will construction generate waste material which can be disposed on site?
- will construction generate waste material which will have to be disposed off-site?
- will site personnel generate litter or rubbish?

GLA-EF-3.2-03	Revision No. 0	Page 1 of 4
Approved by: Managing Director	Date: February 2012	

#### 2. WASTE MANAGEMENT PLAN

The waste management plan involves three major steps:

- 1. estimating the type and quantity of waste generated on site;
- 2. specifying whether the waste is;
  - reused on site;
  - reused or recycled offsite; or
  - disposed of to landfill.
- 3. identifying who is responsible for recycling or landfilling.

This Plan is summarised in Attachment A.

Effluent from the amenities for which Guideline ACT is responsible, will be discharged into the local sewerage system, where available. Otherwise, septic tanks and portable self-contained toilets of suitable capacity may be used subject to acceptable arrangements for disposal of the effluent. Pit toilets are not to be used.

Littering or dumping of unwanted waste or disposal of surplus construction materials or permitting such activities on any land on or around the site, is illegal unless specifically permitted in accordance with the specification.

Set up skip bins or other appropriate receptacles to contain waste materials, litter and spoil. Provide separate bins for recyclable and non-recyclable material, dispose of their contents offsite at a suitable waste disposal location on a regular basis. Chemical, fuel and lubricant containers, solid and liquid wastes must be disposed of in accordance with EPA or local Guideline ACT Pty Ltd requirements.

Green wastes shall be mulched for re-use (when appropriate) or taken to a composing facility.

#### 3. FURTHER REFERENCES AND CONTACTS

The following documents provide additional information on managing environmental impacts at construction sites:

- EPA ACT, Environment Protection Guidelines for Construction and Land Development in the ACT, the "Green Book", March 2011
- Department of Territory and Municipal Services (TAMS), Waste Minimisation in the Construction and Demolition Industry, ACT NO Waste

#### Contacts

• ACT Environment Protection Authority

13 22 81

www.environment.act.gov.au

GLA-EF-3.2-03	Revision No. 0	Page 2 of 4
Approved by: Managing Director	Date: February 2012	

# Attachment A - Waste Management Plan

Waste Materials		mated antity	Destination						
Materials	Vol (m <sup>3</sup> )	Mass (t)	On site (specify proposed reuse or recycling methods)	Off site (specify recycler and recycling outlet)	<b>Disposal</b> (specify landfill site)				
Plastic wrapping									
Cardboard packaging									
Bricks									
Timber and green waste									
Fencing materials									
Asphalt and bituminous surfacing									
Concrete, rubble, pipes, etc.									
Mixed waste									
Topsoil									
Earthworks spoil									
Effluent									
	ļ								
	ļ								

GLA-EF-3.2-03	Revision No. 0	Page 3 of 4
Approved by: Managing Director	Date: February 2012	

# WASTE DISPOSAL REGISTER

Date	Waste Material	Quantity	Transport By	Disposal Site
			<u></u>	

GLA-EF-3.2-03	Revision No. 0	Page 4 of 4
Approved by: Managing Director	Date: February 2012	

# **INCIDENT REPORT FORM**

Date of Incident:	Time of Incident:	Project No & Name:	
Exact Location of Acc	ident/ Incident:		
Name(s) of personnel	involved:		
Name(s) of Witness(e	es):		
Describe the Incident:	·		
Describe apparent <b>ca</b>	use of Incident:		
Describe <b>result</b> of Inc	ident (e.g. damage, near mis	ss etc):	
Did the Incident invo	olve an injury? (tick box)	No	Yes
Name of Injured Per	son(s):		
Was First Aid Admir	histered? (tick box)	No	Yes
If yes for First Aid, pro	ovide details (injury location &	k first aid details):	
	od by (Namo):		
	ed by (Name):		
	wing action taken? (tick as		
Back to Work	Hospital/ Am	bulance:	Doctor/ Clinic
Person Completing	Report		
Name:	Date Report Completed:	Signature:	
		3	

Doc No.: GLA-SF-2.2-09	Revision: 2	Page 1 of 2
Approved by: Managing Director	Date: January 2013	

# Office Use Only

Α	<b>Rehabilitation Officer:</b> Does the insurance compar	ny need to be notified?		Yes	No			
	If yes, provide details:							
В	Accident/Incident Investigation by General Manager (competent HSR)							
	Does the incident need to b	e reported to authorities	s?	Yes	No			
	Have the relevant authoritie	s been notified?		Yes	No			
	Outcome of Investigation:							
	Action taken to prevent re-occurrence:							
	Is Toolbox Meeting required? Yes/No Date of Toolbox Meeting:							
	Does a Non Conformance/	Corrective Action (NCA)	Rep	ort need to be ra	aised? Yes/No			
Nar	ne: D	Date:	_ Sig	gnature:				
С	Review by Health & Safety Manager							
	Have relevant authorities be Further preventative action			Yes Yes	N/A No			
	If yes, provide details:							
Con	nment:							
All re	quired actions completed/ inc	ident closed off:						
Nar	ne: D	Date:	Sig	gnature:				
D	Review by Managing Dire	ctor						
Con	nment:							
Nam		Date:	Si	gnature				
Doc	No.: GLA-SF-2.2-09	Revision: 2			Page 2 of 2			
	roved by: Managing Director	Date: January 2013						