

Waterway Recovery Group
in conjunction with

Canal and River Trust and Grantham Canal Society

WRG 2018 SITE SPECIFIC PLAN

Site: Lock 14, Grantham Canal

Version: v02

Date: 3rd October 2018

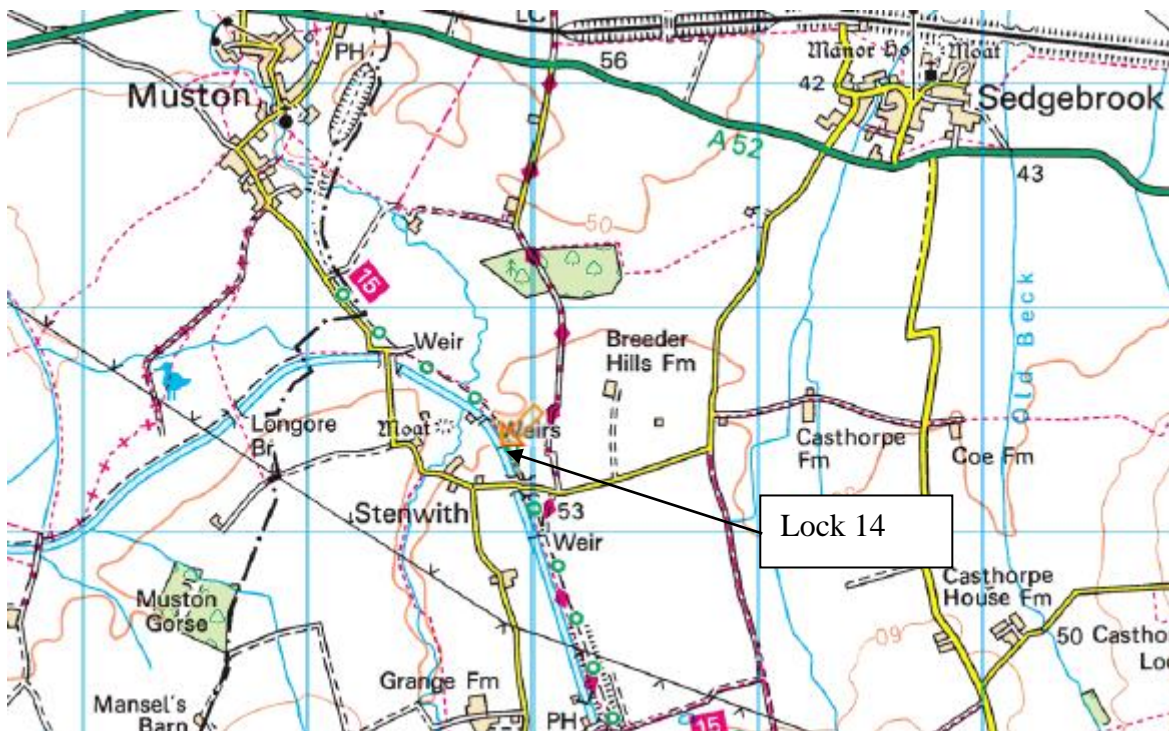
Name: M Bradley

**Position: Technical Support Officer, Inland Waterways
Association**

Site	Grantham Canal	MS Title	Lock Restoration	Ref	CC201818,21,24,25
Work Area	Lock 14, Woolthorpe Flight				
Assessor	Mikk Bradley	Date Assessed		11 th July 2018	
Review	V2 review 3/10/18, task list for camp CC201825 added.		Forecast Retirement Date		

SITE DESCRIPTION

Site Location: Lock 14, Stenwith, nearest postcode NG32 2HE



Site Details: Lock 14 in the Woolsthorpe flight is a derelict lock with a concrete weir at the location of the top gates. The lock is in water at bottom water level. The lock chamber is due to be rebuilt, but this plan relates to the initial work for site preparation and temporary works.

Site Setup: access to the site is across the field from minor road through Stenwith.

- A site compound has been established by Canal and River Trust (CRT) at the end of an access track across the field and adjacent to the lock.
- Site cabins with welfare facilities have been established in the site compound.
- A parking area has been established in the compound, but part of this project is to construct an additional access track and parking area between locks 14 and 13.
- A materials storage area has been established in the compound area, but part of this plan is to establish a materials storage area on the towpath side of the lock.

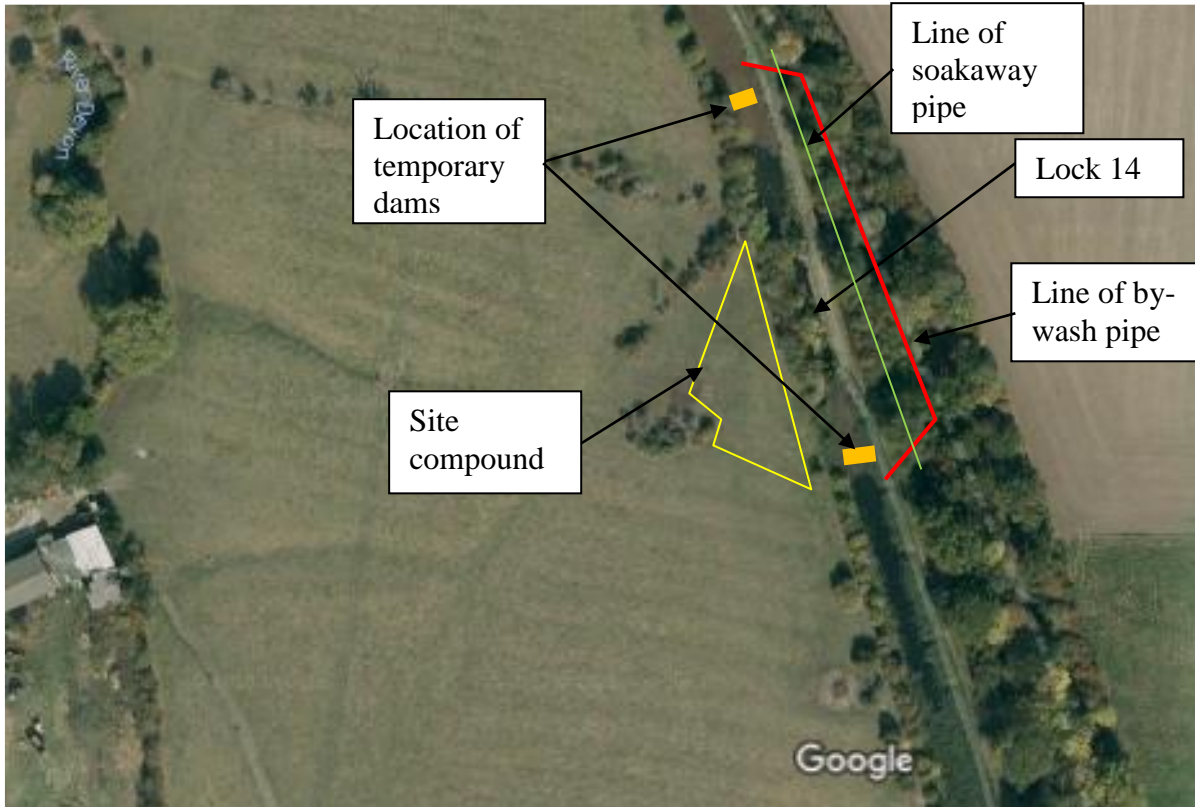
What are the jobs that need to be done?

the list of tasks from CRT is as follows;

- Task Plan – Task 1; Bywash pipe installation (creation of channel route & correct levels, veg & tree root clearance, installing pipes, constructing connections to canal).
- Task Plan – Task 2; Construction of towpath side soakaway (installation of 150mm dia pipe).
- Task Plan – Task 3; Site fencing & gates (herras).
- Task Plan – Task 4; Construction of stone dams – substantial size as also vehicle access route across canal (CRT might get top dam completed before the camps).
- Task Plan – Task 5; Clearing & lifting of coping stones along lock wall (including removal of existing fence & brackets).
- Task Plan – Task 6; Reducing ground level on towpath side.
- Task Plan – Task 7; Dismantling of towpath side lock wall.
- Task Plan – Task 8; Construction of additional access track & parking area between Lock 14 & 13 (potential

training task for WRG machine operators?).

General site Plan



KEY SITE WIDE HAZARDS

The canal and lock are in water. Dams are to be installed either end of the lock chamber to allow the lock rebuild in the dry and to provide access from the site compound to the towpath side of the lock.



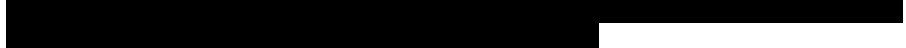
The locksides are uneven and there is a drainage channel between the towpath and the cycleway which runs parallel to the canal. The sides of the drainage channel are steep and covered with vegetation. The vegetation will be cut back and the drainage filled in to create materials storage space. The cycleway will be fenced off.

The lock walls have partially collapsed and are known to be structurally unstable. Part of the project is to remove the lock chamber walls.

Members of the public have access to the towpath and cycleway. The towpath will be closed for the duration of the work with a diversion route along the adjacent cycleway.

The towpath lock wall is at full height with a timber post and rail fence. As part of the demolition the fence will be removed exposing a high drop into the lock chamber. The fence will be removed with the lock in water and during demolition the lock wall will be used as edge protection.

WRG LOGISTICS

<p>Site Leader(s) CC201818</p>	
<p>Site Leader(s) CC201821</p>	
<p>Site Leader(s) CC201824</p>	

	[REDACTED]
Site Leader(s) CC201825	[REDACTED]
Local Contact	[REDACTED] [REDACTED] [REDACTED]
CRT Contact (if nec)	[REDACTED]
Site First Aiders	TBA
Number of Volunteers on site	<i>11 (numbers may vary each day) *All visitors must check in with the Canal Camp Leader to ensure they are given a basic site induction before going on site.</i>
CDM CONSIDERATIONS	
<i>CDM 2015 is the main set of regulations for managing health, safety and welfare on all small or large construction projects and applies to all construction work as well as maintenance. CDM regulations will apply to most, if not all Canal Camps.</i>	
<p>Client: Canal and River Trust Principal Designer: Canal and River Trust (Jayne Slaughter) Principal Contractor: Canal and River Trust (Stuart Gadsby) Are there any other contractors (or volunteer groups) on site? Yes/No (delete as appropriate) Waterway Recovery Group Grantham Canal Society volunteers</p> <p>Is your project 'Notifiable'? Please answer yes or no to the following question: Is your project expected to last MORE than 30 working days and have MORE than 20 workers working on site at any one time, OR involve MORE than 500 person days? Yes/No (delete as appropriate)</p> <ul style="list-style-type: none"> • If you answered NO your project is not notifiable. • If you answered YES your project is notifiable and will require the submission of a F10 and further role appointments. F10 is included in Appendix 1 and is displayed on site. 	
ACCESS ARRANGEMENTS	
<i>The site is accessed via a track from Woolsthorpe Lane across open fields. CRT have a site compound which is manned weekdays.</i>	
WELFARE ARRANGEMENTS	
<i>There is an established site compound with offices and welfare facilities. The WRG gazebo will be established within the compound to provide additional shelter.</i>	

EMERGENCY INFORMATION

Nearest Hospital: Grantham & District Hospital, Manthorpe Road, Grantham, NG31 8DG.



Minor injuries unit:

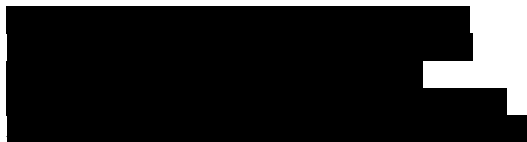
A copy of the locations & directions to hospital/minor injuries unit will be found in the WRG vans and project plan.

Mobile phone signal: Poor, best phone signal is near the road.

ACCIDENTS AND INCIDENT REPORTING

All accidents, incidents or near misses should be reported via the accident book or on a near-miss postcard located in the first aid box. These will be collated by the CRT site supervisor. Copies will be made available to WRG head office. A muster point just outside the compound will be nominated by CRT for site evacuations.

Serious accidents/incidents or any damage to WRG vehicles/plant to be reported to the Duty Director and Head Office immediately.



BURIED OR OVERHEAD SERVICES

There are no overhead services.

CRT report that a phone cable may be present in the towpath but the representative from the phone company was unable to locate it.

There are buried services beneath the access point into the field from the road (electric, water, BT) and overheads above the road junction outside the field entrance.

GROUND CONDITIONS

Access track and compound area are formed of rolled stone. Part of this project is to form the temporary haul routes around the site and across the canal to the towpath area.

PERMISSIONS

CRT has permission to occupy the farmers field adjacent to the lock.

ENVIRONMENTAL FACTORS

CRT have carried out an Environmental Appraisal for the site. This is a separate document. Some vegetation clearance has been undertaken, but a survey for protected species will be carried out by CRT prior to any further vegetation clearance or demolition works. Prior to any tree felling the CRT ecologist will carry out a check for bat roosts and nesting birds.

Invasive species, Water Fern has been identified. CRT will provide guidance on dealing with this as required.

The cottage at Lock 13 is listed, however this work is located away from the cottage.

Tree protection to be installed as directed by CRT ecologist. No spoil stored over tree roots.

Refuelling plant and equipment: Funnels will be available for refuelling, together with a spill kit. Small tools will be refuelled in a designated area. Drip trays will be used for static plant.

SITE MATERIALS

Fuel – Petrol	Only required for small tools and will be stored in a storage container with clear labelling. COSHH Assessment
Fuel – Butane Gas	Only used for welfare for the provision of hot water, stored externally. COSHH Assessment
Fuel – Diesel	Used for plant and generator. Will be stored in a bunded trailer which will be refilled by the hire company. COSHH Assessment.
Upvc pipes	Used for the soakaway and the by-wash diversion pipework.
Concrete	Used to form the base of manholes on the line of the by-wash diversion. COSHH Assessment
Concrete Blocks	Used to form the manhole chambers . COSHH Assessment
Stone	Used to form the stone dams upstream and downstream of the lock chamber.


PLANT / EQUIPMENT ON SITE

Excavator	CRT will be responsible for hiring excavators for the camps. WRG will only use authorised operators with valid DA cards.
Dumper	CRT will be responsible for hiring excavators for the camps. WRG will only use authorised operators with valid DA cards.
Bricksaw	Supplied by WRG.

RISK ASSESSMENT

In addition to this you will need to complete a risk register which will incorporate full risk assessments.

Site Specific Risks	For the following sub headings (and other site specific risks you come across) consider the following – What could go wrong? What effect will this have? How serious are the consequences? How will you mitigate the risk? Add full details to separate risk assessment.	Risk Register (This is your risk assessment that covers the risks in more detail)
Public	A towpath closure and diversion will be in place and reinforced with good signage. Site will be enclosed with Heras fencing as part of this project. Visitors to report to site office for briefing.	30
Sustrans path	This is outside the site, but the installation of the by-pass pipework will be carried out adjacent to the path. Caution is needed when working on the path outside the work area.	31
Water control	The weir at the top end of the lock can be adjusted to lower the water level for the installation of the offtake for the by-wash diversion. Dams are being installed as part of this project.	20
Plant	There will be segregated route for plant and pedestrians. Safe working zones and banksmen will be used.	4, 10, 17, 18, 23, 24, 26, 27
Volunteers	Volunteers will receive a safety briefing at the start of the camp. Any GCS volunteers will receive a site induction.	2, 3, 5, 6, 16, 19, 25, 28
Materials	Wherever possible materials movements will be carried out by mechanical means. The demolition may require manual sorting and storing of materials. Manual handling will be included in the safety induction.	8, 9, 11, 12, 13, 14, 15, 29

Working near Water	Life jackets and throw lines will be available on site. No lone working will be allowed.		21, 22
Slips/Trips	The sides of the open channel between the towpath and Sustrans cycle path are steep, uneven and covered with vegetation. Access points will be established, vegetation cleared along the working lies. Volunteers will be made aware of the hazards.		1
Working at height	When the lock chamber is dewatered and during demolition of the lock chamber walls there will be an exposed drop. The method of demolition will require that a safe height of wall is retained to provide edge protection.		7
PPE (TO BE WORN AT ALL TIME ON SITE) (Other task specific PPE will be detailed in the individual MS)			COMPETENCY
Safety helmet	Y	At all times	Volunteers to be instructed in working methods and equipment as appropriate. All volunteers will be given a standard induction before starting work and Toolbox Talks given as the camp progresses as seen fit by the Camp Leader. Are there any specific competencies required? List DA authorisations here TBA
Hi-viz vest	Y	At all times	
Safety footwear	Y	At all times	
Gloves	Y	Recommended at all times and when mixing/handling concrete	SUPERVISION
Long sleeve clothing	Y	When mixing concrete	
Safety goggles	Y	At all times	
Face mask	Y	When mixing concrete	SCHEDULING
Ear Defenders	Y	When using brick saw, brushcutter	Tasks to complete first throughout week.
SPECIFIC SITE WIDE RULES			
<p>CRT will provide details of any in house procedures that apply on the site. Long trousers worn at all times.</p> <p>All WRG volunteers on site must have had the WRG induction procedure and assembled their PPE kits.</p> <p>Site leader to provide daily briefing to ensure all workers know the plan. WRG volunteers must not enter any areas of the work site without permission. Care must be taken that WRG activities do not interfere with or affect the routine functioning of the work site and activities of Trust volunteers.</p>			
CHANGES TO THE PLAN DURING THE PROJECT (continue on a separate sheet as necessary)			
<p>The leadership team for camp CC201825 has been added.</p> <p>Between camps CC2018 24 and 201825 the cofferdams have been sealed and the section of canal between the dams has been dewatered.</p> <p>The task list for the camp CC201825:</p> <ul style="list-style-type: none"> • Complete the removal of silt and debris to expose the lock invert and timber approach floors at either end of the lock ready for engineering inspection. • Complete the dismantling of the towpath and offside lock walls to invert level. • Complete the ground excavation behind both lock walls to invert level. • Breaking out and removal of concrete weir. • Preparation for the concrete foundations for new lock walls including placing blinding layer both sides. 			
Approved by		Signed	Date
Retired by		Signed	Date



**CC201818,21,24,25
Project Plan**

Version: v02

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Date	Nature of Review	Changes Required	Reviewer
	Internal Review		
	Trust Review		
	Approved by Insurers/ HO		

Appendix 1 – F10 notification



**Health and Safety
Executive**

Notification of construction project

Notification No	60627360PC	Date Submitted	19/05/2018 16:07:49
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Notification type	This is a NEW notification
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About the location of the site

Address of the construction site	Grantham Canal Lock 14 and 15 Woodthorpe Lane GRANTHAM Nottinghamshire NG20 1SA
In which local authority is the site address (County, Geographical Area and Local Authority)?	England, Nottinghamshire, Baseline District Council

About the project

Description of project	Civil Engineering - Repair - Waterway		
Time Allowed by Client (in weeks)	22		
Start date	19/05/2018	Duration (in weeks)	200
No of people on site	20	No of contractors on site	3
Description of the construction work	The works are to rebuild Locks 14 and 15 on the Grantham Canal. The works will be carried out by volunteers. The works will involve demolition, masonry rebuilding and repairs, excavations and installing lock gates.		

About those involved in the project

Role	Principal Contractor	Name	Canal & River Trust - Stuart Gaddy
Email	stuart.gaddy@canalrivertrust.org.uk	Phone no	02020-604040
Address	The Mill, Mather Road NORWICH, Nottinghamshire NG24 1PB England		

Role	Client	Name	Canal & River Trust - Karen Rice
Email	karen.rice@canalrivertrust.org.uk	Phone no	02020-604040
Address	Feams Wood Hepton Street LE11 5JL West Yorkshire LS28 8PQ England		

Role	Designer	Name	Canal & River Trust - Jayne Slaughter
Email	jayne.slaughter@canalrivertrust.org.uk	Phone no	01203404040
Address	The Kiln Mether Road NE16 6PX Nottinghamshire NG16 1PB England		

Role	Principal Designer	Name	Canal & River Trust - Jayne Slaughter
Email	jayne.slaughter@canalrivertrust.org.uk	Phone no	01203404040
Address	The Kiln Mether Road NE16 6PX Nottinghamshire NG16 1PB England		

Declaration details:

Declaration			
As client for this project, I hereby declare that I am aware of my duties under the Construction (Design and Management) Regulations 2015 (S.I. 2015/67).			
Name	David Heys		
Date	16/05/2018	Role	CD&M
Confirmation Email	david.heys@canalrivertrust.org.uk		

Client Signature (Can be used for your own records, ONLY if required)

Declaration

As client for this project, I hereby declare that I am aware of my duties under the Construction (Design and Management) Regulations 2015.

Name:

Declaration Signature:

Date: