

## Cocksburn Reservoir/Dumyat Footpath Works – Environmental Clerk of Works Report

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**Report No. - Week commencing** 14 – 16/04/2018  
**Site visit** 16/04/2018  
**Weather during visit** Mild and dry.  
**Report Issued** 16/04/2018



<b>Summary of construction activity on site</b>	<ul style="list-style-type: none"><li>• Ongoing top surface and reinstatement completion along northern side of Cocksburn Reservoir</li><li>• Top surface works on Section 9, 4 and 2 on Dumyat.</li><li>• Commencement of sub-base laying along Section 6</li></ul>
<b>ECoW Activities</b>	<ul style="list-style-type: none"><li>• Checks of existing drainage and silt mitigation.</li><li>• Walkover Cocksburn Reservoir and Dumyat Hill route.</li><li>• Discussions with McGowans with respect to ongoing activities and issues encountered.</li><li>• Discussions with respect to Section 6 and GWDTEs.</li></ul>
<b>Anticipated future activities on site</b>	<ul style="list-style-type: none"><li>• Completion of Cocksburn Reservoir route within next week or two.</li><li>• Ongoing works along Section 6</li><li>• Minor alterations along Section 2 and 4 to complete all works in sections</li></ul>
<b>Information Requests</b>	<ul style="list-style-type: none"><li>• Concerns over Revised CEMP and SWMP highlighted by SPEN – no further revisions received to date.</li></ul>
<b>Observed Good Practice</b>	<ul style="list-style-type: none"><li>• Good use of plant nappies throughout site including up on hill.</li><li>• Use of appropriate drainage where required with drainage ditches within pathway sites running clear.</li><li>• Good quality reinstatement continues.</li><li>• Proposed minor alterations of drainage on Section 2 and 4 of Dumyat to improve drainage management.</li><li>• Good use of silt fences and other drainage management features</li><li>• Installation of both bridges on northern side of Cocksburn Reservoir undertaken with ongoing reinstatement to high standard.</li><li>• No identified issues with respect to nesting birds to date. Site staff reminded about signs of nesting birds.</li><li>• Proactive management of area of standing water on Cocksburn Reservoir path, with additional culvert installation planned at 'junction'.</li></ul>

<b>New ECoW Observations</b>					
<b>Ref</b>	<b>Site Area</b>	<b>Category</b>	<b>Details</b>	<b>Recommendations</b>	<b>Importance</b>
14.1	Cocksburn	Sensitive Habitats/Species	Section of wet grassland east of reservoir dam has been significantly disturbed by vehicles.	This is unrelated to McGowans work and is assumed to be as a result of members of the public using the location for parking. Included within this report as a record.	Low
14.2	Dumyat	Sensitive Habitats/Species	Reinstatement has been slightly impacted upon by movement of cattle across sections of path – particularly within Section 9.	Although disturbance is not extensive, it is noted that some impact on reinstatement has been caused and is not easily controlled. Ad hoc repairs have been undertaken but further disturbance is possible. Issue likely to become less of an issue as reinstatement becomes settled.	Low
14.3	Dumyat	Sensitive Habitats/Species	Works along Section 6 is now underway and particular care is required to limit impacts on GWDTEs.	Discussions between McGowans and ECoW were undertaken during site visit, with approach agreed. In summary line of path is to avoid significant area of potential GWDTEs. Where crossing such habitats, localised flushed areas will be avoided with appropriate water management (culvert with diffuse outfall) will be sensitively installed. Extensive ditching will be avoided in sensitive areas to avoid any significant changes in hydrological connectivity. Culvert locations discussed and agreed. Path construction and water management to be monitored for effectiveness. Works are in line with those proposed on Tracks Ecology Drawing 18/001/MCG/004 GWDTE Mitigation.	Moderate

**Photographs**



14.1 Disturbed ground at eastern end of reservoir.



High quality reinstatement along Cocksburn Reservoir.



Bridge installation complete including high flow side channel.



Location of standing water to be managed through additional culvert installation.



14.2 Some impacts on reinstatement on Dumyat from cattle.



14.3 Start of Section 6 under construction.



		
<p>14.3 One of two isolated flush areas requiring careful mitigation.</p>	<p>14.3 Second of two isolated flush areas requiring careful mitigation.</p>	

Ongoing ECoW Observations					
Ref	Site Area	Category	Details	Ongoing Notes	Importance
11.1	Cocksburn	Habitats	Storage of top layer material has mixed with adjacent turves, making reinstatement more difficult.	<p>Ensure that turves are not contaminated with stored materials. Ensure that as much material as possible is removed from turves and adjacent habitat as is possible during reinstatement.</p> <p>04/04/2018 – Issue noted by McGowans and area is to be tidied and reinstated as soon as weather allows.</p> <p>10/04/2018 – Reinstatement of area has not been undertaken to date but will be completed as section of path is reinstated to avoid further double handling of material.</p> <p>16/04/218 – Majority of stored material now removed and reinstatement works along section likely in coming days.</p>	Moderate

<b>Recently Closed ECoW Observations</b>					
<b>Ref</b>	<b>Site Area</b>	<b>Category</b>	<b>Details</b>	<b>Notes</b>	<b>Closed</b>
13.1	Cocksburn	N/A	Presence of natural oils within compound area at head of Cocksburn Reservoir path. Seepage is occurring from within the compound area but also outwith upslope.	These oils were confirmed as natural with areas both within and outwith the works area. Observation noted in case of comment from members of the public.  16/04/2018 – No further actions required.	16/04/2018
13.2	Cocksburn	Protected Species	Frogspawn is present within areas of standing water. Some disturbance to these areas has occurred from vandalism of culvert headwall stones.	With respect to McGowans work, ensure that prior to removal of silt fences no frogspawn/tadpoles are present within pooling water behind. Depending on situation, If present, then leave silt fence in situ until tadpoles have developed into froglets. If wider standing water is present then fences may be removed.  16/04/2018 – no further works proposed in location of identified spawn. Headwall stone will be replaced on final snagging to avoid potential for further disturbance of location.	16/04/2018
13.3	Dumyat	Material storage	Culverts stored up on Section 6 are not secured and there is risk of culverts being blown across site.	Consider securing any objects potentially subject to being blown around.  16/04/2018 – Culverts being installed. Concerns over windblow and interference of unsecured materials highlighted to McGowans.	16/04/2018
12.1	Cocksburn/ Compound	Drainage/ Silt	Silty water was observed entering the Cocksburn Reservoir via the eastern tributary of the Cocks Burn which flows under Sheriffmuir Road close to the Site compound. Source of dirty water was identified as coming from two locations. 1 – Section of ditching works approximately 400m north of the compound along	Issue inspected with SPEN and later with McGowans. 1 - McGowans confirmed that urgent ditching work was undertaken on morning of 4 <sup>th</sup> April as a culvert was blocked pushing majority of ditch water onto road north of compound resulting in significant surface water on public road. Ditching works therefore resulted in short period of silt input to ditch. Further investigations of blocked roadside culvert to be undertaken during more favourable weather conditions. On	10/04/2018

			<p>Sheriffmuir Road, and 2 – small volumes of dirty water draining out of entrance to compound and passing over road and into eastern roadside ditch which then flows into burn.</p>	<p>completion of site visit this water was beginning to run clean again.                  2 - Additional silt mitigation within the compound was discussed and a small ditch was extended to catch surface water drainage from hardstanding with additional sumps installed adjacent to entrance gate to improve dirty water management. Options for further silt control in this area are limited but issue requires monitoring to identify whether or not further measures are required.</p> <p>10/04/2018 – No further issues as a result of the ditching works upslope from the compound. Further ditching alterations are not proposed.</p> <p>Extended ditch to catch proportion of surface run off from upper hardcore section near compound appears to be effective. Small amount of upwelling within compound entrance is occurring. This does not seem to pose issue with additional sumps assisting in management of water. Continue to review situation in wet weather.</p>	
12.2	Cocksburn	Drainage/ Silt	<p>Culvert entrance is partially blocked with sub-base material potentially reducing effectiveness of drainage.</p>	<p>Clear culvert entrance to ensure culvert remains effective.</p> <p>10/04/2018 – partial blockage removed.</p>	10/04/2018



281000 281500 282000 282500 283000 283500

699000

698500

698000

697500

697000

# Cocksburn Reservoir and Dumyat Footpath Works

ECoW Visit 14 - 16/04/2018



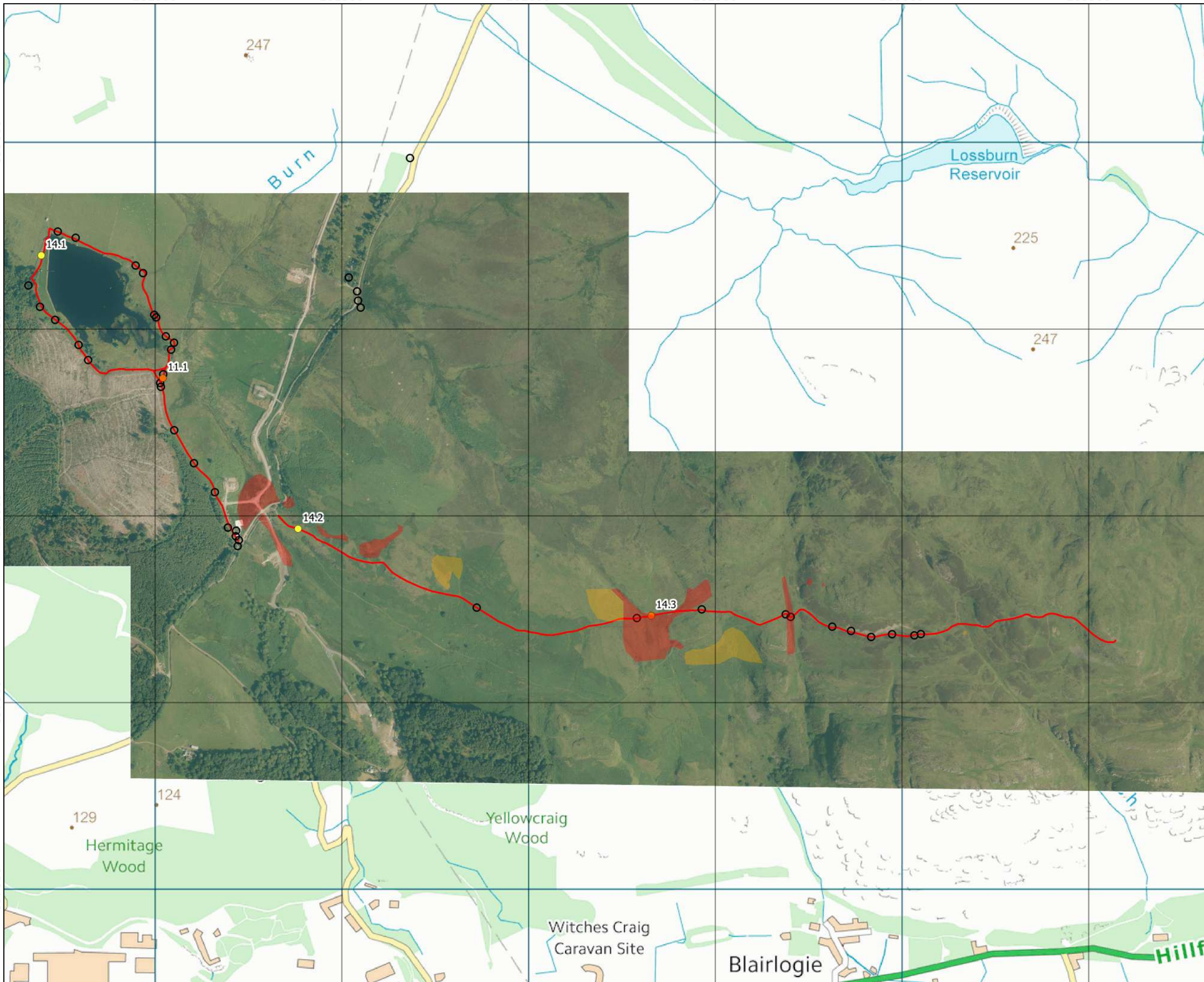
## Legend

### GWDTE Dependency

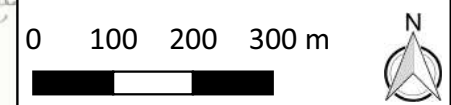
- High Potential
- Moderate Potential

### ECoW Observations

- Moderate
- High
- Low
- Resolved
- Updated Proposed Path Routes



Note: Aerial imagery from 2015 during Beauldy Denny construction



Drawing number: 18/001/MCG/015  
 Revision: 1  
 Date of production: 2018-04-16  
 Drawn by: JB - Tracks Ecology  
 Projection: British National Grid EPSG:27700  
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