
Report To:	Environment & Regeneration Committee	Date:	28 April 2016
Report By:	Corporate Director Environment, Regeneration & Resources	Report No:	ERC/ENV/IM/16.274
Contact Officer:	Robert Graham/ Steven Walker	Contact No:	714827/714828
Subject:	Environmental & Commercial Services (Roads) – Flooding Update Report No.7		

1.0 PURPOSE

- 1.1 The purpose of this report is to update Committee of the progress on the Council's flood prevention programme.

2.0 SUMMARY

- 2.1 The Central Greenock Flood Prevention Project is progressing with the works at West Station now on site. Approval to proceed with the additional culvert capacity at Crescent Street is still required from Network Rail, and officers are liaising with the Contactor in terms of getting their design approved at the earliest opportunity. Procurement in respect of the additional automatic trash screens is underway.
- 2.2 Design of the various Flood Prevention Schemes outwith Central Greenock is progressing well, with completion of the design anticipated in the coming months.
- 2.3 The CaLL Group, of which Inverclyde is a constituent Member Authority, intends to publish its "Local Flood Risk Management Plan" later this calendar year. The publication of the Plan is an important milestone in implementing the Flood Risk Management (Scotland) Act 2009.

3.0 RECOMMENDATIONS

- 3.1 That Committee note the current progress on the Central Greenock Flood Prevention Schemes.
- 3.2 That Committee note the current progress on the Flood Prevention Schemes outwith central Greenock.
- 3.3 That Committee note the current progress with regard to the Clyde & Lomond Flood Risk Management Plan, to be published later this year.

Ian Moffat
Head of Environmental and Commercial Services

4.0 BACKGROUND & PROGRESS ON FLOOD PREVENTION PROJECTS

- 4.1 The Council has in place a significant programme for the investigation, design and construction of various flood prevention schemes within Inverclyde, both as part of the Central Greenock Flood Prevention Project, and a number of schemes outwith the Central Greenock area.
- 4.2 In 2014, the Scottish Government awarded grant funding to Inverclyde amounting to £1,743,466 for the Central Greenock Flood Prevention Project (comprising a number of discrete schemes) – this represented 79% of the original estimated total cost for the Project at £2,200,000. The balance of the funding (£467,534) was to come from the previously approved Flood Action Plan. The next phase of the Flood Prevention Scheme outwith Greenock is funded from the residual sum (£776,000) from the Flood Action Plan and an additional £950,000 approved through the budget process in January 2015.
- 4.3 The Council is a Member Authority of the Clyde & Lomond Local Plan District (CaLL Group). The CaLL Local Plan District is a partnership of ten Local Authorities, with Glasgow City Council as lead. The CaLL Group intends to publish its “Local Flood Risk Management Plan” later this calendar year. The publication of the Plan is an important milestone in implementing the Flood Risk Management (Scotland) Act 2009 and improving how we cope with and manage flood events in the CaLL District. The Plan translates this legislation into actions to reduce the damage and distress caused by flooding over the first planning cycle from 2016 to 2022. There are a number of schemes arising from the Plan and which are outwith the Central Greenock Flood Prevention Plan.
- 4.4 The Central Greenock Flood Prevention Project is summarised in the table below:

Scheme	Stage	£ (,000)
Crescent Street – Automatic Trash Screen	Complete	120
Drumfrochar Road – Replacement Culvert	Complete	150
Aberfoyle Road – Flow Control	Complete	111
Minor Flood Works - Emergency	Complete	5
Kings Glen – Attenuation	Complete	137
Mearns Street – Flow Control	Complete	25
West Station – Additional Road Drainage	Construction	540
West Station – Transport Scotland Contribution	-	(237)
Brougham Street – Additional Capacity	Re-design	70
Crescent Street – Additional Capacity	Design/Construction with Network Rail	901
Rankin Park – Automatic Trash Screen	Design	80
Lady Alice Pond – Automatic Trash Screen	Design	80
Craigknowe Burn – Automatic Trash Screen	Design	80
Maintenance of Trash Screen (Crescent St)	Ongoing (3 year period)	42
Design Works Phase 2	Complete	96
Estimated Total		2,200

Notes:

- Mearns Street: This scheme will not be operational until such time as the additional capacity at Crescent Street is constructed and operational; anticipated 2016/17.
- West Station: Works started on site March 2016 and are scheduled for completion around July/August 2016; Transport Scotland has contributed to the costs of this scheme.
- Brougham Street: Currently being redesigned following high tender costs for original

scheme which involved a pipeline via private land; works during 2016/17.

- **Crescent Street:** This scheme is proposed to provide additional culvert capacity on the Carts Burn. Progress has been affected by unforeseen ground conditions and the condition of the existing Scottish Water sewer under the railway bridge. These factors have rendered the original design of thrust boring the pipe under the bridge unviable. The Contractor has been liaising with Network Rail and they have submitted a revised design for the works under the bridge. Officers are liaising with the Contractor to try and achieve a resolution to this matter and to mitigate any further delay to the contract.
- **Automatic Trash Screens:** These are proposed at various locations as noted in the table above and are currently being procured; an additional supplier has been found and tenders are being prepared; works completion 2016/17.

4.5 The Flood Prevention Schemes outwith Central Greenock are summarised in the table below:

Scheme	Stage	£ (,000)
Coves Burn, Gourrock	Design	260
Bouverie Burn, Port Glasgow	Design	334
Gotter Water, Quarriers	Design	205
Glenmosston Burn, Kilmacolm	Design	360
Integrated Catchment Study (Scottish Water Lead)	Design	90
Various Locations – Removal of Road Drainage from Combined Sewer Network		125
Various Locations – Culvert Cleaning, Stilling Ponds, Flap Valves	-	125
Various Locations – Procurement of Additional Plant & equipment to Assist Drainage Operations	-	77
Estimated Total		1,726
A8 East Hamilton Street (Transport Scotland Lead)	Feasibility	Not Known

Notes:

- **Coves Burn, Gourrock:** The external consultant is examining the attenuation of water in the Coves Reservoir as a possible alternative to the upsizing the culvert at Steel Street; budget spend 2016/18.
- **Bouverie Burn, Port Glasgow:** The external consultant is examining the upsizing of the existing culvert at Bouverie Motors, and attenuation of water flows at the Mill Dam; budget spend 2016/18.
- **Gotter Water, Quarriers:** The external consultant is examining the diversion of peak water flows to another watercourse, and additional attenuation; budget spend 2016/18.
- **Glenmosston Burn, Kilmacolm:** The external consultant is examining the repairs of the existing culverts at Market Place, additional capacity to pipes at Gowkhouse Road, and the possible attenuation at Glen Moss; budget spend 2016/18.
- **Integrated Catchment Study:** Scottish Water are leading the catchment based study examining flooding issues at A8 East Hamilton Street, Oak Mall and other flooding hotspots in Inverclyde; the study will provide detailed information regarding flooding mechanisms from overland flow, sewers and watercourses; the Council is contributing £90k towards the study; study completion by the end of 2017/18.

- Various Locations – Removal of Road Drainage from Combined Sewer Network: Budget spend to remove surface water from the sewer network on completion of the Integrated Catchment study 2017/18.
- Various Locations – Culvert Cleaning, Stilling Ponds, Flap Valves: Budget spend 2016/18.
- Various Locations – Procurement of Additional Plant & Equipment to Assist Drainage Operations: Budget spend 2016/18.
- A8 East Hamilton Street: Officers from Inverclyde Council, Scottish Water and Transport Scotland have held meetings to discuss the best way forward to bring an early resolution to the problems at this location. As this is a Trunk Road, Transport Scotland will lead on this issue, and are currently assessing the operation of the existing surface water drainage system to the A8 Trunk Road. Officers from Inverclyde Council will provide Transport Scotland with locations of known flooding points through the A8 and A78 roads network.

4.6 Work on the various flooding schemes and on the Flood Risk Management Plan, as part of the CaLL Group, is progressing, but has been affected to a degree by the problems experienced in replacing the Council's Flooding Officer who left the Council's employment during April 2015. The post has been advertised via the jobs portal on three occasions however no suitable applications have been received; it is thought that the temporary nature of the post is the major contributory factor. As an alternative, Officers have recently sourced a Flooding Officer via a recruitment agency and this will help secure the timeous delivery of the flood schemes.

5.0 IMPLICATIONS

5.1 Finance:

One-off costs:

Cost Centre	Budget Heading	Budget Years	Proposed spend this report (£000s)	Virement from	Other comments
Flooding Strategy	Capital Grant	2015/17	(1,743)		
	Central Greenock Flood Prevention Scheme	2013/17	2,200		Central Greenock Flooding Scheme part funded by Scottish Government
	Free Reserves	2013/17	776		Remainder of approved flooding monies not yet allocated
		2015/18	950		Extra funding requested from reserves as part of the budget

Annually recurring costs:

Cost Centre	Budget Heading	Budget Years	Proposed spend this report (£000s)	Virement from	Other comments
N/A					

Legal

5.2 No implications.

Human Resources

5.3 No implications.

Equalities

5.4 No implications.

Repopulation

5.5 The delivery of the projects identified in this report will assist in making Inverclyde a more attractive place to live and hence contribute to the Council's repopulation agenda.

6.0 CONSULTATIONS

6.1 The Chief Financial Officer has been consulted on this report.

6.2 The Head of Legal and Property Services has been consulted on this report.

7.0 LIST OF BACKGROUND PAPERS

7.1 None.