

Report for: Cabinet Meeting 9 March 2021.

Title: Flood Water Management Investment Plan (FWMIP) 2021/22

Report authorised by Stephen McDonnell, Director of Environment and Neighbourhoods

Lead Officer: Ann Cunningham, Head of Highways & Parking
02084891355
Ann.Cunningham@haringey.gov.uk

Peter Boddy, Highways and Traffic Manager.
02084891765
Peter.Boddy@haringey.gov.uk

Ward(s) affected: All

**Report for Key/
Non-Key Decision:** Key Decision

1 Describe the issue under consideration.

- 1.1 It is widely recognised that the combined effects of climate change and continuing urban development will give rise to increased flood risk. In London alone, there are many properties that are deemed at risk of flooding.
- 1.2 Haringey is responsible for taking the lead in managing flood risk from surface water, groundwater, reservoirs, rivers, and some of the smaller watercourses. In 2010, the Flood and Water Management Act came into effect and this required the Council to take on the role of lead local flood authority (LLFA) for the Haringey area.
- 1.3 It is not possible to completely stop flooding, but steps can be taken to reduce the effect through measures including that of highways drainage resilience works and schemes to prevent unmanaged flooding.
- 1.4 The Flood Water Management Investment Plan (FWMIP) sets out the capital investment programme for 2021/2022. Appendix 1 sets out the proposed allocation of funding across 15 schemes within the overall programme. This programme has been developed to meet the objectives in the Haringey Local Flood Risk Management Strategy.
- 1.5 The schemes proposed in the Flood Water Management Investment Plan are a 'living document' of proposals which are developed as the Council understands the various issues that have an impact on flooding.

2 Cabinet Member Introduction

- 2.1 The Flood and Water Management Act became law in 2010. Under the Act, Haringey Council was designated as a 'lead local flood authority (LLFA)'. A key part of the work associated with this responsibility is to see what can be done by all to reduce the risk of flooding. Understanding why flooding occurs and putting in place measures that reduce flood risk can be very complex. The proposed works in the Flood Water Management Investment Plan for 2021/22 are as set out in this report and listed in Appendix 1.
- 2.2 This year, in line with our Borough Plan 2019-2023, Flood Risk Management Strategy and Asset Management Strategy, the Council will be investing £869,000 into a range of proposals with the aim of flood prevention and drainage improvements to the public realm.
- 2.3 The Council will continue to engage with residents, community groups, businesses and other interested parties when developing larger flood schemes, where proposals will alter the existing infrastructure. This engagement will include for consultation around the disruption from the proposed construction works and allow consultees to make suggestions for consideration in the formation of the detailed designs.

3 Recommendations

- 3.1 It is recommended that Cabinet:
- a) Approves the Flood Water Management Investment Plan for the 2021/22 financial year as set out in the attached Appendix 1
 - b) Gives delegated approval to the Head of Highways and Parking, consequential on the Flood Water Management Investment Plan:
 - To make decisions relating to scheme design and implementation;
 - To carry out consultation;
 - To consider representations received in response to consultation and to report significant or substantial concerns back to the relevant Cabinet Member; and
 - To make traffic management orders, where there are no valid objections.

4 Reasons for Decision

- 4.1 The FWMIP sets out the Council's flood water management and highways drainage resilience projects for the coming financial year and how they align with the Council's strategic objectives.
- 4.2 The report provides detail of the funding arrangements and seeks authority to proceed with the development and delivery of these projects. Some of those projects will be subject to appropriate consultation.

5 Alternative options considered.

- 5.1 No other options were considered. The Council has a statutory obligation to maintain the public highway network. The Council is the lead local flood

authority in the borough and responsible for taking the lead in managing flood risk from surface water, groundwater, reservoirs, rivers and some of the smaller watercourses. This 2021/22 investment plan has been informed by the Council's Transport Strategy, Asset Management Strategy and Flood Risk Management Strategy. The projects proposed are those that have already been identified as priorities and start the process of reducing the risk of future flooding in the borough.

- 5.2 The funding for the proposed projects comes from Council resources approved by Cabinet in December 2020 as part of the Capital Programme and external grant received since the approval of the Highways Works Plan 2020/21

6 Background Information

- 6.1 Flooding is likely to become a more frequent event due to climate change, and the scale of flood events may also increase in the future. The cause of the increase in flood events would be wetter weather throughout the year contributing to surface water flooding overloading the existing drainage systems, as well as river flooding through increased catchment runoff, leading to the risk of many more properties being deemed at risk of flooding.
- 6.2 The Flood & Water Management Act 2010 has assigned new responsibilities to local authorities including making Haringey a lead local flood authority (LLFA). This requires the borough to work with strategic partners such as the Environment Agency, water companies and others to manage various aspects of flood risk. In line with its responsibilities as a LLFA, a Local Flood Risk Strategy was produced and subsequently adopted by Haringey in July 2019.
- 6.3 That Strategy not only aims to clarify the roles of the key partners and improve collaborative working through the sharing of information, but to identify flood management solutions that can be developed to provide multiple benefits to the natural and social environment. The FWMIP 2021/22 identifies projects and programmes of work to achieve this objective as well as supporting the ongoing process of identifying and developing future opportunities.
- 6.4 There are a number of external funding opportunities to support the delivery of the Council's flood water management projects. This includes match funding through the Environment Agency for flood water management schemes and the GLA's Greener City Fund for local SuDS projects. Grant funding of £219k has been awarded to support the FWMIP for 2021/22.
- 6.5 In 2020, the government announced a £200 million fund for innovative projects to help communities be more resilient to flooding and coastal change. This fund provides opportunity to develop and test new and emerging approaches and ambitions. On average, each of the selected projects will receive £6 million between from April 2021 and 31 March 2027. With this funding, projects will need to demonstrate how practical innovative actions can work to improve resilience to flooding. The London Borough of Haringey prepared and applied for 2 separate bids:

- a) As a single LLFA forming a partnership with different community groups.
- b) As an LLFA forming a joint partnership with the London Borough of Enfield, Hackney, Waltham Forest, Environment Agency, Thames Water, University of East London, Imperial College London and Thames 21.

6.6 Single and joint bids were made to the Environment Agency on the 29th January 2021 for these flood resilience proposals, which if successful, will significantly add to the FWMIP.

Single Bid

“Combining nature-based solutions and smart control systems to deliver flood and climate change resilience for the Moselle Brook and Stonebridge Brook catchments”.

The project covers the catchments of the Moselle Brook and Stonebridge Brook passes critical drainage areas in the borough. The key aspects of the project include:

- a) SuDS interventions within the contributing catchment to intercept flows prior to entering the piped networks which contribute to the Moselle and Stonebridge Brook.
- b) Nature-based solutions along the alignment of the Moselle and Stonebridge Brooks as a means of making space for water, improving water quality, and adding to the amenity provisions for the local communities.
- c) Use of 'smart' sensors and real time control. Controls would be placed at critical junctions on the pipe network to enable flows to be managed during high flow situations.
- d) Active controls could also be placed along the watercourses to make full utilisation of the storage available in public open space rather than flooding downstream properties.

Joint Bid

“Building flood resilient communities and neighbourhoods in the London Lea Catchment”.

The scheme seeks to deliver hundreds of small-scale sustainable drainage schemes (SuDS) features to homes, schools, and other areas of private and public land in locations that would deliver tangible flood and other benefits. There are multiple components to this including:

- a) Encouraging and incentivising private householders (especially in deprived flood risk catchments) to install low-cost SuDS features such as rain gardens/planters and green roofs.
- b) Encouraging, incentivising and optimising the delivery of SuDS retrofit of large or multiple buildings, focusing on schools, care homes and housing associations.
- c) Developing and installing a local monitoring system (i.e. smart water butts and a network of gully sensors) to improve evidence on the costs and

- benefits of small scale innovative resilience actions. These devices can act as a local community flood warning system.
- d) Integrating SuDS (e.g. rain gardens) retrofit opportunities into other (non-flood related) public realm projects including, traffic calming, street trees, cycling infrastructure, utility works, car parks, parks and open spaces, and existing highway verges.
 - e) Creation of large-scale SuDS in parks e.g. wetlands, ponds and basins.
- 6.7 The Council agreed an investment of £2,040,000 into FWM between 2021/22 and 2023/24. Of this funding, £650,000 is agreed for 2021/22, allowing a total budget of £869,000 within the FWMIP. The breakdown of this funding is set out in paragraph 8.2 of this report. It is also expected that there will be additional investment associated with regeneration and other development and transport projects approved through other investment programmes.
- 6.8 The details and locations of the schemes within the programme are set out in Appendix 1. These projects fall generally into 4 categories:
- Strategic or local suburban drainage schemes to help manage flood water (SuDS).
 - Projects to support the operation of Haringey as the lead local flood authority, including work to support new funding opportunities.
 - Resilience projects supporting improvements to the existing highways drainage infrastructure, ensuring that it operates effectively and that it is not a limiting factor in the overall surface water drainage network leading to localised flooding.
 - Education initiatives to help raise awareness within the community of flood water management issues and the Local Flood Risk Management Strategy (LFRMS).

Design, Consultation and Engagement

- 6.9 We are committed to ensuring that local communities are informed of the flood water management improvements in their neighbourhoods.
- 6.10 The proposals identified within this report will be developed or directed by officers. All proposals will be developed in accordance with national, regional, local standards and best practise.
- 6.11 The level of consultation/ notification for schemes is set out in the attached Appendix 2.
- 6.12 The Council will continue to improve the quality of information available to residents and other interested parties on transport projects planned for their areas. This will involve information being made readily available on the Council's website, as well as through improved works signing and advance warning to minimise disruption and inconvenience associated with works.

7 Contribution to strategic outcomes

- 7.1 The Flood Water Management Investment Plan supports two themes within the Borough Plan 2019-2023.

- 7.2 People Theme: A Haringey where strong families, strong networks and strong communities nurture all residents to live well and achieve their potential. The projects in the Flood Water Management Investment Plan will contribute to specific outcomes within this theme, by improving road safety through reduced flooding incidents.
- 7.3 Place Theme: A place with strong, resilient & connected communities where people can lead active and healthy lives in an environment that is safe, clean and green. The projects in the Flood Water Management Investment Plan will contribute to specific outcomes within this theme, by improving the public realm, the road network condition and properties which are affected by flooding.
- 7.4 London-wide contribution to a healthier London - The Mayor of London's new Transport Strategy and the Local Implementation Plan 3 approved in June 2019.
- 7.5 Haringey's draft Climate Change Action Plan – which sets out how and why the borough will become net zero carbon by 2041.

8 Statutory Officers comments

8.1 Comments of the Chief Financial Officer

- 8.1.1 This report sets out the expenditure plan for the Traffic and Parking Service in the forthcoming year detailing all the Flood Water Management Investment Plan that includes the various funding streams that have been confirmed by the Environment Agency, Greater London Authority and the Council's investment.
- 8.1.2 The list below provides a breakdown of the budgets for the flood water management capital investment for 2021/22 as agreed at the Council's budget setting meeting of the 1st March, £0.650m, plus an additional grant from the Environment Agency of £0.199m and a grant from the GLA £0.020m. The two grants will be added to the capital programme.

£m	
Council FWMIP Capital Investment	£0.650
Environment Agency Grants	£0.199
Greater London Authority Grant	£0.020
Total	£0.869

- 8.1.3 The revenue costs of the proposed investment are budgeted for in the MTFS as agreed by Council at its budget setting meeting of the 1st March 2021.

8.2 Comments of the Head of Legal and Governance (Monitoring Officer)

- 8.2.1 The Council as a local highway authority has a statutory obligation to maintain the public highways in the borough that it is responsible for, including the management of flood water. This report sets out the Flood Water Management Investment Plan and any necessary consultation for the financial year 2021/22.

8.2.2 The Head of Legal and Governance confirms there are no legal reasons preventing the Cabinet from approving the recommendations in the report.

8.3 Strategic Procurement Comments

8.3.1 There are no procurement issues arising from this report.

8.4 Equalities Comments

8.4.1 The Council has a Public Sector Equality Duty under the Equality Act (2010) to have due regard to the need to:

- Eliminate discrimination, harassment and victimisation and any other conduct prohibited under the Act
- Advance equality of opportunity between people who share those protected characteristics and people who do not
- Foster good relations between people who share those characteristics and people who do not.

8.4.2 The three parts of the duty applies to the following protected characteristics: age, disability, gender reassignment, pregnancy/maternity, race, religion/faith, sex and sexual orientation. Marriage and civil partnership status applies to the first part of the duty.

8.4.3 An Equalities Impact Assessment (EqIA) formed part of the statutory consultation process in 2018/19 which informed the development of the Local Implementation Plan 3 (LIP). The LIP sets out the objectives, delivery plans and monitoring arrangements for all transport scheme proposals, including those that contain flood water management works.

8.4.4 The key beneficial impacts relate to:

- Improved access to facilities due to managed flooding measures will benefit all Haringey residents and visitors, but some protected groups such as older people and children will benefit disproportionately.
- Safer roads and reduced levels of water pollution are likely to benefit people in some of the protected groups, such as older and/or disabled people with respiratory illnesses more than for the general population.

8.4.5 Groups who may have greater reliance on travel by car (e.g. people with disabilities; parents with childcare commitments; people in transport poverty) may be affected adversely in comparison to other groups who are better able to use public transport or travel actively. Schemes will be individually planned and delivered in such a way as to minimise any negative impacts that may arise due to construction works.

8.4.6 Flood water management schemes can increase cycling and walking through improved drainage to the highway network.

8.4.7 The communication and engagement measures set out in the Flood Water Management Investment Plan 2021/22 will increase awareness of works and minimise disruption caused at implementation stages. This will allow residents adequate time to make alternative travel arrangements, and any necessary adjustments will be made on a scheme-by-scheme basis in order to ensure continued access for affected groups with protected characteristics including disabled and elderly residents.

9 Use of Appendices

Appendix 1 – Flood Water Management Investment Plan proposals for 2021/22

Appendix 2 – Consultation for Flood Water Management Works Plan in 2021/22

10 Local Government (Access to Information) Act 1985

- Borough Plan 2019-2023
- 2018 Transport Strategy
- Local Plan
- Local Implementation Plan – 3-Year Delivery Plan 2019 – 2022
- Local Flood Risk Management Strategy
- Highways Works Plan 2020/21

11 Web links to schemes

- www.haringey.gov.uk/smartertravel
- www.haringey.gov.uk/majorschemes
- <http://haringey.roadworks.org>
- Surface Water Management Plan [Quality Page \(haringey.gov.uk\)](http://www.haringey.gov.uk/quality-page)

Appendix 1:- Flood Water Management Investment Plan 2021/22

Project Name: Crescent Gardens SuDS Project Phase II. Project Description: Educational information boards explaining; the completed SuDS scheme that was installed in 2020 to prevent flooding through surface water being drains directed into gardens. Council Funding £10,000. Ward: Woodside. Work Stream: Educational and Awareness.

Project Name: Victoria Crescent SuDS Project. Project Description: minor modification to the SuDS project installed in the amenity space in 2020. Council Funding £1000. Ward: St Ann's. Work Stream: Local SuDS

Project Name: Queens Wood Natural Flood Management Project. Project Description: Scheme to mitigate surface water flood risk to the properties at Wood Vale and the surrounding areas as well as protecting the ecology and biodiversity of an ancient woodland. Works proposed to be on site in March 2021. Grant Funding: Environment Agency £169,000. Council Funding £93,000. Ward: Muswell Hill. Work Stream: Strategic SuDS.

Project Name: Chestnuts Park Flood Alleviation Scheme. Project Description: To investigate the possibility of opening the Stonebridge brook culvert and reduce flooding of downstream properties. Further surveys include topographical, ecological and connectivity. Detailed design commences in 2021/22. Grant Fund: Environment Agency £30,000. Council Funding £13,000. Ward: St Ann's. Work Stream: Strategic SuDS

Project Name: Larkspur Close (IUD) - Phase II. Project Description: Detailed design and commencement of the construction of the SuDS works at Fryatt Road and Jellicoe Road to reduce the flooding incidents in Larkspur Close. Council Funding £114,000. Ward: White Hart Lane. Work Stream: SuDS

Project Name: Muswell Hill Flood Mitigation Scheme. Project Description: Detailed designs of SuDS improvements (rain gardens, permeable paving, retention basin) within the area of the junction of Muswell Hill, Priors Road, Park Road, Etheldene Avenue and Farrer Mews to address the existing surface drainage issues. May be part of Crouch End liveable neighbourhood scheme. Council Funding £20,000. Ward: Fortis Green. Work Stream: SuDS

Project Name: The Lindale and Cooperage Close Minor SuDS Scheme. Project Description: Completion of SuDS scheme with planting and paving works. Grant Fund: Greater London Authority £20,000. Council Funding £4,000. Ward: Northumberland Park. Work Stream: SuDS

Project Name: Blaydon Walk / Willoughby Park Road Minor SuDS. Project Description: Maintenance contribution to previously completed SuDS scheme. Council Funding £1,000. Ward: Northumberland Park. Work Stream: SuDS

Project Name: Adams Road SuDS Scheme. Project Description: Construction of SuDS works to reduce surface water flooding near the school and the Lordship recreational ground. Council Funding £115,000. Ward: West Green. Work Stream: SuDS

Project Name: Cross Lane's Flood Alleviation Scheme. Project Description: Hydraulic modelling and detailed design of scheme for Cross Lane which is a flood risk hot spot to residential properties. Council Funding £35,000. Ward: Hornsey. Work Stream: Risk Management & SuDS

Project Name: Highways Traffic SuDS scheme. Project Description: Any SuDS features installed as a part of propose Highways Traffic Scheme. Council Funding £25,000. Ward: Borough wide. Work Stream: SuDS

Project Name: Innovative Resilience Funding Bid. Project Description: Drafting proposals for a government's fund for innovative projects to help communities to be more resilient to flooding and coastal change. Council Funding £4,000. Ward: Borough wide. Work Stream: Risk Management & SuDS

Project Name: London Lee Catchment Partnership - Thames 21. Project Description: Annual contribution to Thames 21. Use its contact network including corporates, government, academic, charitable trusts, and any other contacts to develop and apply on behalf for funds along with engagement of local communities. Council Funding £5,000. Ward: Borough wide. Work Stream: Risk Management & SuDS

Project Name: LFRMS & FRMP, SFRA & SWMP. Project Description: Updating the Local Flood Risk Management Strategies, Flood Risk Maps, Strategic Flood Risk Assessments, Surface Water Management Plan. Council Funding £10,000. Ward: Borough wide. Work Stream: Risk Management & SuDS

Project Name: Contribution to Gully Cleaning and replacement/repair works. Footway SuDS works. Project Description: Gully Cleaning and Repair Works throughout the borough. Some SuDS, as viable, to be incorporated into major footway replacement works. Council Funding £200,000. Ward: Borough wide. Work Stream: Resilience

Total Grant funding: £219,000 and Total Council Funding: £650,000

Appendix 2: Consultation for Flood Water Management Investment Plan

The various flood water management schemes developed through the FWMIP will be the subject of consultation/ notification. The level of consultation will depend upon the impact of the scheme on the local community and whether it is a statutory requirement. The three consultation/notification types are:

- Notification of works (schemes that have an impact on the highway network and public realm) – residents and businesses of affected properties will be notified by letter drop before commencement of detailed design works of larger scale schemes. In addition, they will be notified by letter drop and any other appropriate media 3 weeks in advance of work commencing.
- Statutory notification e.g. traffic management orders - the public will be notified of the Council's intention regarding proposals through advertisements placed in the local press and on site. Residents and businesses locally affected by the proposals will also be notified by letter drop. The notification will provide details of the scheme and a commencement date for the proposed construction works. Resident, traders and stakeholders will have the opportunity to approve/object to these proposals and these will be considered before implementation of the schemes.
- Public consultation – any larger high-profile schemes will be subject to a consultation with the locally affected properties and lead user groups (where applicable e.g. for parks). The consultation will include public and Microsoft Teams meetings, exhibition of proposals on the web and on local notice boards, the liaison with local groups. Below sets out the consultation process for each scheme.

Consultation on Flood Water Management Investment Plan 2021/22

Scheme Name: Queens Wood NFM Project.

Notification: Yes. Statutory Notification: Yes. Public Consultation: Yes

Scheme Name: Chestnuts Park Flood Alleviation Scheme

Notification: Yes. Statutory Notification: Yes. Public Consultation: Yes

Scheme Name: Larkspur Close (IUD) - Phase II

Notification: Yes. Statutory Notification: Yes. Public Consultation: Yes

Scheme Name: Adams Road SuDS Scheme

Notification: Yes. Statutory Notification: Yes. Public Consultation: Yes

Scheme Name: Footways and Traffic Schemes SuDS works

Notification: Yes. Statutory Notification: Yes. Public Consultation: Where Applicable.