

Appendix 11.1

Water Features Survey

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1 Introduction

- 1.1.1 The Water Features Survey is a baseline study that identifies key water features that may be affected by the Proposed Scheme for Project 7, Glen Garry to Dalwhinnie. The format of the Water Features Survey comprises a schedule and a plan. The schedule (see **Section 4** of this document) lists key information about each feature in **Drawings 11.1 – 11.7 in Volume 3** (i.e. the Plan) of this report. This information is used to inform the Design Manual for Roads and Bridges (DMRB) Stage 3 Environmental Impact Assessment.

2 Approach and Methods

Study Area

- 2.1.2 A 1km-wide corridor, notionally 500m to the east and west of the existing A9, was defined as the study area for assessment of potential Road Drainage and Water Environment impacts. As the River Truim and River Garry act as a hydrological barrier it is unlikely the Proposed Scheme will have an impact on water features beyond their opposite banks from the A9. Therefore, the study area has been refined for DMRB Stage 3 based upon the following selection criteria:
- Hydrological features shown on a 1:10,000 Ordnance Survey (OS) map, and identified in more detail on the Blom topographical survey, have been delineated by a 500m offset upstream of the existing A9 corridor and the left bank (looking downstream) of the River Truim/ right bank (looking downstream) of the River Garry. The nominal distance has been extended in cases where there are significant hydrological features that may potentially be affected by the Proposed Scheme. This has been defined as the 'DMRB3 Wider Study Area'
 - An overview of the permanent and temporary works assessment boundaries applied in the assessment of the Proposed Scheme is provided in **Drawings 5.2 to 5.8 of Volume 3**. In it, a red line boundary is delineated around the DMRB Stage 3 infrastructure design, including all mainline, junction and drainage infrastructure, and watercourse diversions. This red line represents the 'Permanent Works' assessment boundary and includes the 5m offset from the design extents. Outwith the red line, a green line is shown in a number of areas; these have been considered as areas required to enable construction activities and are considered as the 'Temporary Works' assessment boundary. For the purposes of this chapter, this has been defined as the 'DMRB3 Detailed Study Area'
- 2.1.3 All key water features within this study area were identified, categorised and individually labelled as: major watercourse, minor watercourse, pond, abstractions, and discharges.
- 2.1.4 The study area is shown in the **Water Features Plans, Drawings 11.1 – 11.7 in Volume 3**. For hydrological analysis of watercourses crossed by the Proposed Scheme, full catchments areas were considered beyond the outlined study area where applicable, as shown in **Catchment Drawing 11.8 in Volume 3**.
- 2.1.5 There are a number of spatial constraints identified within the study area, including the River Garry, the River Truim, the Highland Mainline (HML) railway, and a section of the Beaulieu Denny Powerline (BDL). Significant environmental constraints include internationally and nationally designated ecological sites, specifically the River Spey Special Area of Conservation (SAC) (which includes the River Truim), and the Drumochter Hills area which is also a designated SAC, Special Protection Area (SPA) and Site of Special Scientific Interest (SSSI). These are discussed in greater detail in **Chapter 12**.

Scoping Out

- 2.1.6 Within the Project 7 extent there are numerous existing earthworks ditches, watercourse diversions, and several minor field or road drainage ditches which do not cross the existing A9 but run parallel to the road corridor. These will likely be enveloped by the widened road corridor, however, as they are man-made and do not exhibit significant hydrological/ ecological value to the water environment (and will be replaced by a new drainage layout), they are not assessed further (i.e. are not subject to a pre- and post-mitigation assessment).

Reference Numbering

- 2.1.7 Each water feature has been given a unique label reference number. This has been done using letters referring to the feature type and a number which in most cases has been taken consecutively from south to north. The letters used for each type of feature and the methods of identification are shown in **Table 1** below.

Table 1: Water Feature Numbering

Water Feature	Reference Number	Source of Information
Major Watercourse	MW	OS Maps 1:50,000 RBMP Datasheets/interactive map : http://map.environment.scotland.gov.uk/seweb/map.htm SNH Interactive Map: http://gateway.snh.gov.uk/sitelink/ SEPA Flood Maps: http://map.sepa.org.uk/floodmap/map.htm
Minor Watercourse	W	OS Maps 1:10,000 RBMP Datasheets/interactive map http://map.environment.scotland.gov.uk/seweb/map.htm SNH Interactive Map: http://gateway.snh.gov.uk/sitelink/ SEPA Flood Maps: http://map.sepa.org.uk/floodmap/map.htm Blom survey and site walkovers Transport Scotland/ BEAR records
Pond	P	OS Maps Aerial Photographs
Abstraction	ABS	Spreadsheets received from The Highland Council and the Scottish Environment Protection Agency (SEPA)
Discharge	DISC	Spreadsheets received from The Highland Council and SEPA

- 2.1.8 Watercourses were classified as 'Major' or 'Minor' using the criteria noted below:
- Major Watercourse: Shown on OS 1:50,000 scale 'vector' maps
 - Minor Watercourse: Shown on OS 1:10,000 scale maps or identified on Blom topographical survey and site walkovers
- 2.1.9 Minor watercourses include field drains and existing road drains which have been identified from topographical surveys and review of Transport Scotland records. All watercourses which cross the existing A9 (i.e. via bridges and culverts) have been assigned a 'Hydro ID'.

Watercourse – Key Information

- 2.1.10 For each of the watercourses the following was noted: flood risk of the watercourse, water quality status, and national/ international designations.
- 2.1.11 Baseline flood risk of the watercourse was assessed using CFJV hydrological and hydraulic modelling results for the 1 in 200 year flood event. Input to the hydraulic and hydrological modelling is more locally detailed than that of the SEPA Flood Maps (2014). In particular, the CFJV model has been able to use a higher resolution in areas informing the ground model.
- 2.1.12 Where available, the surface water quality status for watercourses was obtained using River Basin Management Plans (RBMPs) provided by SEPA for 2015. Surface water bodies are classified using five quality classes: High, Good, Moderate, Poor and Bad. The classification describes by how much a waterbody differs from near natural conditions. In the water features schedule the overall status has been noted. However, the majority of the smaller watercourses within the Project 7 extent do not have individual RBMP classifications.
- 2.1.13 Any national and international designations for each watercourse are noted in the schedule. Information on designated areas is available on the Scottish National Heritage (SNH) Interactive Map and also noted on the RBMP data sheets and interactive maps available from the Scotland's Environment website (for both references see **Chapter 11**).

Groundwater

- 2.1.14 The water quality status for groundwater bodies is based on available groundwater vulnerability data and private water supply information. The groundwater vulnerability scores groundwater bodies into relative classes of Very High (Class 5), High (Class 4), Moderate (Classes 3- 2) and Low (Classes 1-0) vulnerability. The vulnerability classification is derived from geological and hydraulic characteristics of aquifers and overlying material to indicate the relative risk to groundwater from contamination.

Ponds

- 2.1.15 Ponds were identified using the OS 1:10,000 maps. These were unnamed areas of standing water not identified as dams. Aerial photographs were used to confirm whether the ponds identified on the mapping were ponds or part of a structure.

Abstractions

- 2.1.16 Information on abstractions was obtained from SEPA, Perth and Kinross Council (P&KC), and The Highland Council (THC). Private water supply information was obtained from P&KC, THC and private water supply questionnaires. SEPA hold data on abstractions that have required a CAR licence.

Discharges

- 2.1.17 Information on discharges was obtained from SEPA, THC and Scottish Water. SEPA hold data for licensed surface water discharges. Information was also obtained on septic tanks and combined sewer overflows (CSOs) and outfalls.

Constructed Features

- 2.1.18 Constructed features include dams and reservoirs. These were primarily identified using OS mapping, however, information on abstractions and dams for hydro power generation have also been received from SEPA and SSE.

Baseline Sensitivities/ Importance Values Key

- 2.1.19 Potential impacts of the Proposed Scheme on the water features identified in the survey process are provided within the main body text of **Chapter 11**. The schedule within this report contains baseline sensitivity values for each of those water features that have been subject to the environmental assessment. Those that have been scoped out are also included in the schedule; however, these have not been assigned sensitivity values. Justification for scoping out particular water features is also provided within the schedule.

3 Baseline Conditions

Introduction

- 3.1.1 Baseline conditions are the current environmental state of the water features within the study area between Glen Garry and Dalwhinnie without the construction and operation of the Proposed Scheme. Sensitive receptors are noted within the baseline assessment as they are considered to be determining factors of the existing water environment that may potentially be affected by, or affect, the Proposed Scheme.
- 3.1.2 The Water Framework Directive (WFD) aims to improve and protect the water environment. Future targets include: prevent deterioration and enhance status of aquatic ecosystems, including groundwater; promote sustainable water use; reduce pollution; contribute to the mitigation of floods and droughts.
- 3.1.3 River Basin Management Plans (RBMPs) were produced as a requirement of the WFD by which statutory objectives, based on ecological assessments and economic judgments, are set for Scottish waters, and cover all types of water bodies (such as rivers, lochs, lakes, estuaries, coastal waters and groundwater). The RBMPs also:
- describe the current condition of our water bodies
 - identify where current or historic activities are reducing the quality of the water bodies
 - describe the actions required to ensure our designated waters of special value (for example, drinking waters, shellfish waters, bathing waters, and waters designated for their plants and animals) are up to required standards
 - describe the actions needed to deliver environmental improvements over the next six years, and longer, to 2027
- 3.1.4 The existing RBMP information provides current WFD water quality classification status, existing anthropogenic pressures and any improvement measures identified, and fisheries designations of monitored waterbodies within the study area.
- 3.1.5 The baseline information/ classifications are used to ensure the Proposed Scheme would not have a deleterious/ detrimental effect on the RBMP status of watercourses within Project 7, and where applicable, demonstrate that betterment can be provided comparative to the existing A9.

River Garry (MW7.1)

- 3.1.6 The River Garry is a major tributary of the River Tummel, itself a tributary of the River Tay. It emerges from the northern end of Loch Garry, south-east of the Pass of Drumochter, and flows south-eastwards and eastwards through Glen Garry to the west of the existing A9 and the HML railway. It is controlled by a dam at the outfall from the loch and there are a number of tributaries which cross under the HML railway to their confluence with the River Garry.

Water Quality

- 3.1.7 Within the RBMP the River Garry is divided into six separate sections, each with a different classification. Details of the relevant section within the Project 7 extent is provide below:

- 3.1.8 The *River Garry from Loch Garry to Garry intake* has been classified (2015) as heavily modified and having:

Overall status – **Bad ecological potential**

- Pre Heavily Modified Water Body (HMWB) status – Bad
- Overall ecology – Bad
- Biological – Poor
- Fish – Poor
- Fish ecology – Poor
- Fish barrier – Poor
- Hydromorphology – Bad
- Morphology – Good
- Overall hydrology – Bad
- Modelled hydrology – Bad
- Hydrology (medium/high flows) – Bad
- Hydrology (low flows) – Bad

- 3.1.9 Existing ‘impacted conditions’ have been identified which result in the failure of the River Garry to meet ‘good’ ecological status, these are; “*Access for fish migration (barrier to fish migration)*” and “*Water flows and levels (water abstraction/ water storage)*”, both as a result of hydroelectricity generation.

- 3.1.10 The River Garry also receives four private point-sources discharges of sewage from the Dalnaspidal Lodge and its associated farm buildings and steading (DISC 7.1 – DISC 7.4) and has, therefore, been assigned a **Low** sensitivity for water quality. The upper tributary catchments of the Allt Dubhaig are situated in the Drumochter Hills SSSI/ SAC, as discussed in **Chapter 12**. The River Garry and its upper tributaries support important but limited populations of Atlantic salmon (*Salmo salar*). The watercourse has been assessed as having high sensitivity in terms of biodiversity for the factors described above.

- 3.1.11 British Geological Survey (BGS) data indicates that the waterbody is predominantly within a high groundwater vulnerability classification zone (Class 4); therefore a **High** sensitivity value has been assigned.

Hydromorphology

- 3.1.1 The watercourse is sinuous in planform and varied hydromorphological features, such as pools, riffles and bar development, are evident. Accretion of gravels within the main channel has forced the river to take an alternative course under flood conditions, forming a gravel island. The river banks are non-uniform with evidence of active undercutting and erosion. The ground either side of the river is consistent with upland heather moor and grassland, with areas of bog between hummocky moraines. The construction of an access track bridge, south of Dalnaspidal Lodge, is

the only engineering modification to the River Garry within the route corridor. The dam, which controls the flow within the river, is located upstream and to the west of this bridge, outside the study area extent. Restriction of natural sediment supply is associated with the dam intake; therefore the watercourse has been assessed as having a **High** sensitivity value in terms of hydromorphology.

3.1.2 Morphological pressures have been provided by SEPA. Those identified within the Project 7 extent on the River Garry are:

- Set back embankment (275m in length) (chainage (ch.) 2,175 – 2,450)

3.1.3 Coarse sediment dynamic information has also been provided by SEPA that include the River Garry. The dominant sediment regime for the reach within the Project 7 extent is:

- Moderate erosion on the River Garry (ch. 0 – 50)

Hydrology and Flood Risk

3.1.4 There are two dams located between the Allt Dubhaig and River Garry (National Grid Reference (NGR) 264272 772779) and the outlet of Loch Garry (NGR 264338 772434) which act to regulate flow as part of local hydroelectricity production. There is also a bridge structure used for local access immediately downstream of the confluence between the River Garry and its unnamed tributary (Hydro ID 1, W7.1).

3.1.5 The hydraulic modelling suggests a slight backing-up effect caused by the constriction of the River Garry at the local access bridge location. This is likely contributing to the 200 year flood extent encroaching in the vicinity of the Dalnaspidal Cottage. The SEPA Potentially Vulnerable Area (PVA) information also indicates that the HML railway is at risk of inundation for the 200 year event (NGR 265771 772400). The River Garry has, therefore, been assigned a **Very High** sensitivity value for hydrology and flood risk.

Allt Chaorach Mor (MW7.24 Hydro ID -3) and Allt Chaorach Beag (MW7.25 Hydro ID -2) and upstream tributaries (W7.27 – W7.30)

Water Quality

3.1.6 Allt Chaorach Mor and Allt Chaorach Beag flow through catchments which comprise primarily of rough grazing. They pass underneath the existing A9 and HML railway prior to discharging into the River Garry. Both watercourses are considered likely to receive some untreated/ partially treated road drainage from the A9 and are not known to support any important species or habitats and have, therefore, been assigned a **Medium** sensitivity value for water quality and biodiversity.

3.1.7 BGS data indicates that these waterbodies are predominantly within a high groundwater vulnerability classification zone (Class 4); therefore a **High** sensitivity value is assigned.

Hydromorphology

3.1.8 Extensive sediment supply has been transported from the upper catchments and deposited along the channels as evidenced by the braided planform, and pools and riffles. There is also evidence of hard engineering both in the form of bed armouring and bank reinforcements, therefore, overall **High** hydromorphological sensitivity value has been assigned for each watercourse.

Hydrology and Flood Risk

- 3.1.9 The hydraulic modelling indicates that during a 1:200 year event MW7.24 and MW7.25 are only at risk of flooding agricultural land. Therefore, these features have been assigned a **Low** sensitivity value for hydrology and flood risk.

Unnamed Tributaries (W7.31 Hydro ID -1, and W7.1 Hydro ID 1)

Water Quality

- 3.1.10 Both unnamed tributaries of the River Garry are short in length (<500m). It is likely that both receive some pollutants in the form of untreated/ partially treated road runoff, and there are existing engineering pressures which are likely to affect biodiversity, therefore water quality and biodiversity have been assigned medium sensitivities.
- 3.1.11 BGS data indicates that W7.31 is within a moderate groundwater vulnerability classification zone (Class 3) and W7.1 is within a high groundwater vulnerability (Class 4) zone and therefore, it has been assigned a **High** groundwater sensitivity value.

Hydromorphology

- 3.1.12 Within both catchments there is low source potential from incision of channels upstream of the crossing. There is evidence of limited deposition and channel realignment in the form of straightening along profile downstream from the railway. Therefore, unnamed tributaries W7.31 and W7.1 have been assigned a **Low** hydromorphology sensitivity value.

Hydrology and Flood Risk

- 3.1.13 The hydraulic model suggests there could be a slight backing-up effect along W7.1 (Hydro ID 1) caused by the constriction of the River Garry at the local access bridge, and the 200 year inundation envelope encroaches upon the access track in the vicinity of Dalnaspidal Lodge. Therefore, a high sensitivity classification has been assigned for feature W7.1 (Hydro ID 1). The model indicates that feature W7.31 (Hydro ID -1) floods agricultural land, and therefore, it has been assigned a **Low** sensitivity value.

Allt Dubhaig (MW7.2)

Water Quality

- 3.1.14 The Allt Coire Dhomhain has an Overall Classification of 'Poor Status' (2015). The Allt Dubhaig has, therefore, been assigned a low sensitivity for water quality. The upper tributary catchments of the Allt Dubhaig are situated in the Drumochter Hills SSSI/SAC, as discussed in **Chapter 12**. The Allt Coire Dhomhain has a WFD Overall Classification of 'Poor Status' (2015). The Allt Dubhaig has therefore been assigned a **Low** sensitivity value for water quality and biodiversity.
- 3.1.15 The BGS data indicates that the Allt Dubhaig is within a high groundwater vulnerability zone (Class 4) and therefore, it has been assigned a **High** groundwater sensitivity value.

Hydromorphology

- 3.1.16 The Allt Dubhaig is a right hand bank tributary to the River Garry and flows in a southerly direction from the Pass of Drumochter into the Tay catchment. Its source is in the Drumochter

Hills to the west of the existing A9 and it is fed by the Allt Coire Dhomhain, which flows down through a steep sided valley to the Allt Dubhaig, below the Sow of Atholl. The only modification which is noted on the watercourse is the presence of a bridge at Dalnaspidal Lodge which spans the watercourse and has the potential to restrict flows upstream of the structure. The Allt Dubhaig is a Geological Conservation Review (GCR) site associated with an alluvial fan feature and progressive changes in planform ranging from braided to sinuous channel types. The Allt Dubhaig has, therefore, been classified as **High** sensitivity value in terms of hydromorphology.

3.1.17 Coarse sediment dynamic information has also been provided by SEPA that include the Allt Dubhaig. The dominant sediment regime for the reaches within the Project 7 extent include:

- High deposition on Allt Dubhaig (ch. 250 – 700)
- Balance on Allt Dubhaig (ch. 700 – 2,750)
- Moderate deposition on Allt Dubhaig for approximately 3km upstream (west) of HML railway (ch. 2,750 – 2,850)

Hydrology and Flood Risk

3.1.18 The hydraulic model indicates that, during a 1:200 year flood event, the HML railway is susceptible to direct flood risk from the Allt Dubhaig between ch. 2,600 and 2,950. As a result, this watercourse has been assigned a **Very High** sensitivity value.

Allt Coire Mhic-sith (MW7.3 Hydro ID 2)

Water Quality

3.1.19 The watercourse flows from the east beneath section of the Beauly-Denny access track, the existing A9, and the HML railway, and runs adjacent to the settlement of Dalnaspidal. It receives a point-source discharge from Station Cottages, which provides a potential source of pollutant that may affect water quality; therefore, a **Medium** sensitivity value has been assigned. Due to the existing engineering pressures on ecosystems, the watercourse has been assigned a **Medium** sensitivity value for biodiversity. There is also a hydro scheme abstraction (ABS 7.1) and a private water supply abstraction for Dalnaspidal Lodge supply (ABS7.4) upstream of the A9 which may impact on the natural hydrology of the watercourse.

3.1.20 BGS data indicates that the Allt Coire Mhic-sith has a moderate groundwater vulnerability classification (Class 3); therefore the waterbody has been assigned a **Medium** sensitivity value.

Hydromorphology

3.1.21 The Allt Coire Mhic-sith is a left hand bank tributary to the Allt Dubhaig. Its source in the Drumochter Hills SSSI east of A9 is at an elevation of 855m above ordnance datum (AOD). The channel is cut into the steep valley side and the relatively straight planform towards the confluence with the Allt Dubhaig at an elevation of 400m AOD, gives it the ability to generate high velocity flows and transport a large quantity of bedrock and fluvio-glacial deposits. As a tributary of the Allt Dubhaig, the supply of sediment is considered important to the morphological nature of the GCR site (results in a debris fan feature where the slope reduces); therefore, the watercourse is assigned a **High** hydromorphological sensitivity value.

Hydrology and Flood Risk

3.1.22 The Allt Coire Mhic-sith hydro scheme abstraction serves a hydrological function for local social and economic use. The hydraulic model also indicates that, during a 1:200 year event, the

watercourse poses a direct risk to the adjacent populated area, in the vicinity of the Dalnaspidal Farm Buildings. Therefore, a **High** sensitivity value has been assigned to the Allt Coire Mhic-sith.

Unnamed Tributaries of Allt Dubhaig

(W7.37 Hydro ID 3, W7.40 Hydro ID 3A, W7.43 Hydro ID 4, W7.50 Hydro ID 5, W7.3 Hydro ID 6, W7.54 Hydro ID 7)

Water Quality

- 3.1.23 Each of these short tributaries drain a shelter belt of forestry before passing underneath the existing A9, NCN7 and the HML railway, before discharging into the Allt Dubhaig alluvial fan. It is likely that each tributary receives untreated or partially treated road runoff within their limited tributary length. There is also an unsurveyed surface water abstraction (ABS 7.5 – location received from P&KC) from watercourse W7.40 used for Dalnaspidal Cottages. A **Low** water quality sensitivity value has been assigned for each water feature. The watercourses are considered to have **Low** sensitivity value for biodiversity due to evidence of existing modifications, such as bed armouring, which are likely to exert significant pressures.
- 3.1.24 BGS data indicates that each of these watercourses has moderate groundwater vulnerability (Class 3) and therefore they have been assigned as **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.25 These watercourses are generally stable upstream of their A9 crossings, with some evidence of incision shown. The channels appear to have been heavily modified and engineered in areas to prevent further incision and sediment deposition downstream. Each watercourse has, therefore, been assigned a **Low** hydromorphology sensitivity value.

Hydrology and Flood Risk

- 3.1.26 The hydraulic model indicates that during the 1:200 year flood event these tributaries pose a flood risk to uncultivated agricultural land. Therefore, each of these watercourses has been assigned a low sensitivity classification. These watercourses are considered to have minimal hydrological importance to sensitive ecosystems and/ or social and economic uses and therefore, have been assigned a **Low** sensitivity value for hydrology.

Allt Ruidh nan Sgoilearan (MW7.4 Hydro ID 8)

Water Quality

- 3.1.27 Allt Ruidh nan Sgoilearan flows from the east beneath the existing Beaully-Denny access track, the existing A9 and the HML railway prior to its confluence with Allt Dubhaig at NGR 263620 773848. It is likely to receive some pollutants in the form of untreated/ partially treated road runoff, and there are existing pressures from engineering at the inlet and outlet which are likely to affect biodiversity; therefore, water quality and biodiversity have been assigned **Medium** sensitivity values.
- 3.1.28 BGS data indicates that Allt Ruidh nan Sgoilearan has a very high groundwater vulnerability (Class 5); therefore, it has been assigned a **Very High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.29 Sediment is generated from incision upstream of the crossing; downstream there is evidence of incision, bank erosion and lateral migration. The watercourse has therefore been assigned a **High** hydromorphology sensitivity value.

Hydrology and Flood Risk

- 3.1.30 The hydraulic model indicates that during a 1:200 year event the Allt nan Sgoilearan could potentially pose an indirect flood risk to the HML railway. Therefore, this watercourse has been assigned a **High** sensitivity value.

Unnamed Tributary of Allt Dubhaig (W 7.60 Hydro ID 10,)

Water Quality

- 3.1.31 This unnamed tributary of Allt Dubhaig is short in length and drains a strip of forestry before crossing underneath the A9. It is likely to intercept some untreated or partially treated runoff and therefore has been assigned a **Medium** sensitivity value for water quality. There are sections of concrete slab bank protection situated upstream of the both crossing. This modification is likely to exert major pressure on biodiversity, and therefore a **Low** sensitivity value has been assigned.
- 3.1.32 BGS data indicates that the tributaries are within a moderate groundwater vulnerability (Class 3) zone and therefore have been assigned a **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.33 The tributary has been extensively modified upstream in the form of concrete slab bed protection. It has also been modified on the downstream section from hard bank engineering and has therefore, been assigned a **Low** sensitivity value for hydromorphology.

Hydrology and Flood Risk

- 3.1.34 The hydraulic model indicates that during a 1:200 year flood the features W7.60 and W7.4 inundate uncultivated agricultural land and, therefore, have been assigned a **Low** sensitivity value.

Unnamed Watercourse (MW 7.5 Hydro ID 12)

- 3.1.35 The unnamed watercourse is a short tributary of Allt Dubhaig, which has a catchment size of approximately 0.04km² and a length of 450m. The watercourse crosses underneath the existing A9, National Cycle Network 7 (NCN7) cycle path and HML railway. It is likely to receive some pollutants in the form of untreated/ partially treated road runoff; therefore, water quality and biodiversity have been assigned **Medium** sensitivity value.
- 3.1.36 BGS data indicates that the tributaries are within a moderate groundwater vulnerability (Class 3) zone and therefore have been assigned a **Medium** groundwater quality sensitivity value.
- 3.1.37 There is damaged bed armouring where the channel is vertically unstable, and there has been an adjustment to a more stable bed slope at the crossing upstream and downstream. This evidence of accelerated incision may be due to increases in discharge due to felling and other anthropogenic influences within the catchment. Given that there is evidence of natural fluvial

and morphological features, as well as modifications and anthropogenic influences, a **Medium** sensitivity value has been assigned for hydromorphology.

- 3.1.38 The DMRB Stage 3 hydraulic model indicates that, during a 1:200 year flood, Hydro ID 12 inundates uncultivated agricultural land, thus it has been assigned a **Low** sensitivity value for hydrology and flood risk.

Allt Fuar Bheann (MW7.6 Hydro ID 13)

Water Quality

- 3.1.39 The watercourse crosses underneath General Wade’s Military Road, the existing A9, NCN7 and HML railway before its confluence with Allt Dubhaig at NGR 263429 774571. It is likely that the Allt Fuar Bheann receives some untreated or partially treated road runoff and therefore has been assigned a **Medium** water quality sensitivity value. There are stepped features upstream with a small section of bed and bank protection which could affect biodiversity. Allt Fuar Bheann has therefore been assigned a **Low** biodiversity sensitivity value.
- 3.1.40 BGS data indicates that the watercourse is within a very high groundwater vulnerability zone (Class 5) and, therefore, has been assigned a **Very High** sensitivity value for groundwater quality.

Hydromorphology

- 3.1.41 There is evidence of sediment transport through the A9 and NCN7 crossings, with deposition downstream of the railway crossing in the form of an alluvial fan. Lateral channel migration is also shown downstream of the A9, where there is no bank protection. The watercourse has therefore been assigned a **High** sensitivity value for hydromorphology.

Hydrology and Flood Risk

- 3.1.42 The hydraulic model indicates that during a 1:200 year flood event the Allt Fuar Bheann could potentially pose an indirect flood risk to the HML railway, therefore this feature has been assigned a **High** sensitivity value.

Unnamed Tributaries of Allt Fuar Bheann, Allt Dubhaig and Allt a’ Chaorainn (W7.62 Hydro ID 14, W7.64 Hydro ID 15, W7.5 Hydro ID 17, W7.70 Hydro ID 18, W7.74 Hydro ID 20, W7.76 Hydro ID 21 and W7.78 Hydro ID 22)

Water Quality

- 3.1.43 Each of these watercourses is short in length and drain a limited area of land prior to their crossing underneath the existing A9. It is likely that each of these watercourses intercepts some untreated or partially treated road runoff, and therefore they have been assigned a **Low** water quality sensitivity value. The watercourses also have a variety of bed and bank modifications that are likely to impact biodiversity; therefore, they have been assigned a low sensitivity.
- 3.1.44 BGS data indicates that each of the tributaries is situated within a moderate groundwater vulnerability zone (Class 3) and therefore, has been assigned a **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.45 Each of the tributaries has been modified upstream to some extent, in the form of bed or bank scour protection. The tributary W7.62 Hydro ID 14 has also been modified on the downstream section as there is a concrete step at the outlet. The tributary W7.70 Hydro ID 18 is shown to have been straightened between NCN7 and the HML railway. Due to these factors, specific tributaries have been assigned a medium sensitivity, whereas the others have been assigned a **Low** sensitivity value in terms of hydromorphology.

Hydrology and Flood Risk

- 3.1.46 The hydraulic model indicates that during a 1:200 year flood, W7.5 Hydro ID 17 and W7.70 Hydro ID 18 could potentially pose an indirect flood risk to the HML railway, and therefore these features have been assigned a high sensitivity for flood risk. The watercourses with Hydro IDs 14, 15, 21 and 21 are associated with the inundation of uncultivated agricultural land; therefore, these features have been assigned a low sensitivity for flood risk. These watercourses are considered to have minimal hydrological importance to sensitive ecosystems and/ or social and economic uses and therefore, have been assigned a **Low** sensitivity value for hydrology.

*Allt a' Chaorainn (MW7.9 Hydro ID 23)**Water Quality*

- 3.1.47 Allt a' Chaorainn has a catchment size of approximately 3km² and a length of 3.12km, flowing in a westerly direction; its confluence with the Allt Dubhaig is located at NGR 263108 775332. It is likely that the watercourse intercepts some road runoff at the road crossing, and therefore, has been assigned a **Medium** water quality sensitivity value. The watercourse has engineered bed and bank modifications approximately 20m upstream and 40m downstream of the A9 crossing that are likely to impact biodiversity, resulting in a **Low** sensitivity value.
- 3.1.48 BGS data indicates that the Allt a' Chaorainn is situated within a very high groundwater vulnerability zone (Class 5) and therefore has been assigned a **Very High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.49 There is a large supply of sediment generated from the steep slopes in the upper Allt a' Chaorainn catchment in the vicinity of the A9 crossing location. There is evidence of vertical incision, deposition and lateral migration of the channel; therefore, the Allt a' Chaorainn has been assigned a **High** sensitivity value for hydromorphology.

Hydrology and Flood Risk

- 3.1.50 This watercourse is considered to have minimal hydrological importance to sensitive ecosystems and/ or social and economic uses and therefore, has been assigned a low sensitivity for hydrology. The hydraulic model indicates that, during a 1:200 year flood, the Allt a' Chaorainn is associated with direct flooding of the HML railway between ch. 2,750 and 2,900; therefore, this feature has been assigned a **Very High** sensitivity value.

Unnamed Watercourse (MW 7.10)

Water Quality

- 3.1.51 The short unnamed watercourse has a length of approximately 400m and discharges into the Allt Dubhaig at NGR 263107, 775325, as shown in **Drawing 11.3 (Volume 3)**. It is likely that the watercourse intercepts some road runoff at the road crossing, and therefore has been assigned a **Medium** water quality sensitivity value.
- 3.1.52 BGS data indicates that the watercourse is situated within a medium groundwater vulnerability zone (Class 3) and therefore has been assigned a **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.53 The watercourse is shown to be incised and meandering, with evidence of deposition bars and pools and riffles in places. A **High** sensitivity value has been assigned to hydromorphology for this unnamed watercourse.

Hydrology and Flood Risk

- 3.1.54 The DMRB Stage 3 hydraulic model indicates that during a 1:200 year flood event the HML railway is at risk of inundation from MW 7.10, therefore it has been assigned a **Very High** sensitivity value for hydrology and flood risk.

Unnamed Tributaries of Allt Dubhaig and River Truim

(W7.81 Hydro ID 25, W7.6 Hydro ID 27, W7.84 Hydro ID 28, W7.89 Hydro ID 30)

Water Quality

- 3.1.55 Each of these tributary watercourses is short in length and drain a limited area of land prior to their crossing underneath the existing A9. It is likely that each of these watercourses intercept untreated or partially road runoff, and therefore they have been assigned a **Low** water quality sensitivity value. The watercourses also have a variety of bed and bank modifications that are likely to affect water quality in terms of biodiversity, which has been assigned a **Low** sensitivity value.
- 3.1.56 BGS data indicates that the tributaries are situated within a moderate groundwater vulnerability zone (Class 3) and therefore they have been assigned a **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.57 Each of these tributaries has been artificially straightened and engineered to some extent and has, therefore, been assigned as a **Low** sensitivity value for hydromorphology. Where sediment is supplied from locally incising channels and drains on tributaries W7.6 (Hydro ID 27) and W7.84 (Hydro ID 28); these have been assigned a **Medium** hydromorphology sensitivity value.

Hydrology and Flood Risk

- 3.1.58 The hydraulic model suggests that during a 1:200 year event these tributaries are at little or no risk of flooding sensitive receptors; therefore they have been assigned a **Low** sensitivity value for hydrology and flood risk.

Allt an Creagach (MW7.11 Hydro ID 31)

Water Quality

- 3.1.59 The Allt an Creagach has a catchment size of approximately 0.823km² and a length of 2.1km, which generally flows in a westerly direction, passing underneath the A9 and the HML railway before discharging to the River Truim at NGR 262795 776313. It is likely that the watercourse intercepts some road runoff at the road crossing, and therefore has been assigned a **Medium** water quality sensitivity value. Bank protection and step pools upstream are likely to affect biodiversity, which has been a **Low** sensitivity value.
- 3.1.60 The BGS data indicates that the Allt an Creagach crossing of the existing A9 is situated within a high groundwater vulnerability zone (Class 4) and therefore it has been assigned a **High** hydromorphological sensitivity value.

Hydromorphology

- 3.1.61 The Allt an Creagach is an active morphological channel, which provides a high sediment supply from its steep catchment slopes. The existing A9 road crossing is on an alluvial fan showing evidence of previous large scale deposition, and there is risk of avulsion (flow abandoning current channel and cutting new channel). This watercourse has therefore been assigned a **High** sensitivity value for hydromorphology.
- 3.1.62 Coarse sediment dynamic information has also been provided by SEPA that include Allt an Creagach. The dominant sediment regime for the reaches within the Project 7 extent include:
- Moderate erosion for approximately 890m upstream (east) of existing A9 crossing (ch. 3,800) on Allt an Creagach
- 3.1.63 Morphological pressures have been provided by SEPA. Those identified on Allt an Creagach are:
- Pipe box culvert at Hydro ID 31 (28m in length) (ch. 3,770 – 3,800)
 - Pipe box culvert at the HML railway, downstream of Hydro ID 31 (ch. 3,850 – 3,900)

Hydrology and Flood Risk

- 3.1.64 The hydraulic model indicates that the Allt an Creagach overtops and floods the existing A9 and HML railway during the 1:200 year flood event. Therefore, the Allt an Creagach has been assigned a **Very High** sensitivity value for hydrology and flood risk.

Unnamed Tributaries of River Truim

(W7.93 Hydro ID 33, W7.94 Hydro ID 34, W7.95 Hydro ID 35, W7.101 Hydro ID 36, W7.105 Hydro ID 37, W7.106 Hydro ID 38, W7.108 Hydro ID 39, W7.109 Hydro ID 40, W7.115 Hydro ID 42)

Water Quality

- 3.1.65 Each of these watercourses is short in length and drain a limited area of land prior to crossing under the existing A9. It is likely that each watercourse intercepts untreated or partially treated road runoff, and therefore they have been assigned a low water quality sensitivity. The watercourses also have a variety of bed and bank modifications that are likely to impact biodiversity, resulting in a **Low** sensitivity value.

- 3.1.66 BGS data indicates that these tributaries are situated within a high groundwater vulnerability zone (Class 4) and therefore have been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.67 The tributaries are engineered, and there is little evidence of vertical incision, erosion and lateral migration upstream of the existing A9 road crossings. Therefore, these watercourses have been assigned a **Low** sensitivity value with the exception of W7.93 (Hydro ID 33), which has been assigned a **Medium** sensitivity value, given that it is susceptible to channel migration on the northern edge of an alluvial fan.

Hydrology and Flood Risk

- 3.1.68 These watercourses are considered to have minimal hydrological importance to sensitive ecosystems and/ or social and economic uses and therefore, have been assigned a **Low** sensitivity value for hydrology.

- 3.1.69 The hydraulic model indicates that W7.93 (Hydro ID 33) overtops and inundates the existing A9 road surface during a 1:200 year flood event. Therefore, a very **High** sensitivity value has been assigned for this watercourse. The other watercourses (Hydro ID 34 – 42) appear to experience a throttling effect from 1:200 year flood levels for the River Truim. However, these water features are not shown to flood the existing A9 or its adjacent embankment during the 200 year event. These watercourses pass through uncultivated land, thus have been assigned a **Low** sensitivity value for hydrology and flood risk.

River Truim (MW 8.1)

- 3.1.70 The River Truim is a major right bank tributary of the River Spey, draining the western edges of the Cairngorms Mountains with a catchment area of 125km². Its headwaters are situated in the Pass of Drumochter, approximately 8km south of Dalwhinnie.
- 3.1.71 The River Truim has a WFD classification of ‘Good ecological potential’ – from source to Allt Cuaich confluence (2015), and ‘Moderate ecological potential’ in its lower catchment (2015). It is designated as part of the River Spey SAC for its populations of Atlantic salmon (the Truim is noted as important for its salmonid smolt production) and otter (*Lutra lutra*). (Sea lamprey (*Petromyzon marinus*) and freshwater pearl mussel (*Margaritifera margaritifera*) are also qualifying features of the River Spey SAC; no evidence has been determined in the River Truim Project 7 extents, however, presence is assumed for assessment purposes.) The River Truim is situated in the Cairngorms National Park and its source is also within the Drumochter Hills SSS)/ SAC as discussed in **Chapter 12**. Overall, the watercourse has been assessed as having a **Very High** sensitivity value due to the various factors described above.

Water Quality

- 3.1.72 In the RBMP the River Truim is divided into two separate sections, each with a different classification:

The *River Truim from source to Allt Cuaich confluence* has been classified (2015) as heavily modified and having:

Overall status – **Good ecological potential with medium confidence**

- Pre-HMWB status – Moderate
- Overall ecology – Moderate
- Biological elements – Moderate
- Fish – Moderate

- Fish ecology – Good
- Fish barrier – Moderate
- Hydromorphology – Moderate
- Morphology – Good
- Overall hydrology – Moderate
- Modelled hydrology – Moderate
- Hydrology (medium/ high flows) – Moderate
- Hydrology (low flows) – Good

3.1.73 Existing anthropogenic pressures have been identified which result in the failure of the River Truim to meet ‘good’ ecological status, these are: “*abstraction*” and “*morphological alterations for production of renewable electricity*”. Measures to protect or improve the water environment from these pressures include: “*control pattern/ timing of abstraction (hands off flow/ utilisation of storage (new/ existing))*”, and “*removal of barriers or provision of mechanisms to enable fish migration*”.

Hydromorphology

3.1.74 The hydromorphological processes of the River Truim and its tributaries are considered as part of the wider River Spey catchment. Its headwaters are situated at an elevation of 450m AOD, draining the steep valley sides to the east and west, flowing in a north-easterly direction for a distance of approximately 22km to the confluence with the Spey at 250m AOD.

3.1.75 The geology of the Truim catchment is dominated by metamorphic bedrock, with much of the superficial geology comprised of glacial till and alluvium. For long stretches, where the floodplains are flat and wide, the gentle gradient and glacio-fluvial sediment supply has resulted in a sinuous river planform.

3.1.76 Morphological pressures have been provided by SEPA. Those identified within the Project 7 extent on the River Truim are highlighted below:

- Tributary channel to River Truim under the HML via pipe box culvert (28m in length) (ch. 3,870)
- Tributary channel to River Truim under the HML via pipe box culvert (24m in length) (ch. 3,950)
- River Truim under the HML via pipe box culvert (13m in length) (ch. 4,950)
- Ford on River Truim (5m in length) (ch. 5,730)
- HML bridge over River Truim (ch. 6,150)
- Access bridge over River Truim at Balsporran Cottages (ch. 6,850)
- Footbridge over River Truim (ch. 7,900)

3.1.77 Coarse sediment dynamic information has also been provided by SEPA for the River Truim. The dominant sediment regime for the reaches within Project 7 are summarised in **Table 2**.

Table 2: *Dominant sediment regime for River Truim at discrete locations in Project 7*

Dominant sediment regime	Location by chainage (ch.)
High deposition on River Truim	ch. 3,800 – 4,400 ch. 6,150 – 6,450 ch. 6,650 – 6,850
Moderate erosion on River Truim	ch. 4,440 – 4,730 ch. 5,000 – 5,600 ch. 5,750 – 6,150 ch. 6,450 – 6,650 ch. 6,850 – 6,950

Dominant sediment regime	Location by chainage (ch.)
Moderate deposition on River Truim	ch. 4,730 – 5,000 ch. 5,600 – 5,750 ch. 6,950 – 9,500

- 3.1.78 As the River Truim exhibits a natural range of morphological features (e.g. pools, riffles, bars, varied natural river bank profiles), with limited signs of artificial modifications or morphological pressures. A **High** sensitivity value has therefore, been assigned to hydromorphology for the watercourse.

Hydrology and Flood Risk

- 3.1.79 The DMRB Stage 3 hydraulic model indicates that during a 1:200 year flood event the embankment of the HML railway and existing A9 is at risk of inundation from the River Truim, therefore, it has been assigned a **Very High** sensitivity value for hydrology and flood risk.

Unnamed Tributaries of River Truim

(W7.9 Hydro ID 43, W7.134 Hydro ID 44, W7.137 Hydro ID 45, W7.146 Hydro ID 46, W7.147 Hydro ID 47, W7.150 Hydro ID 49, W7.152 Hydro ID 50, W7.15 Hydro ID 51)

Water Quality

- 3.1.80 Each of these watercourses is short in length and drain a limited area of land prior to crossing the existing A9. It is likely that each of these watercourses intercepts untreated or partially treated road runoff, and therefore they have been assigned a **Low** water quality sensitivity value. The watercourses also have a variety of bed and bank modifications that are likely to affect biodiversity, resulting in a low sensitivity classification.
- 3.1.81 BGS data indicates that the tributaries are situated within a High groundwater vulnerability (Class 4) and therefore, a **High** groundwater quality sensitivity value has been assigned for each feature.

Hydromorphology

- 3.1.82 The tributaries (Hydro IDs 43 - 50) are small hillslope drainage channels which have been engineered, and therefore, have been assigned a **Low** hydromorphology sensitivity value. The tributary W7.15 (Hydro ID 51) has a slightly higher potential for sediment input and morphological alteration due to the presence of glacial material within the catchment, and has been assigned a **Medium** sensitivity value.

Hydrology and Flood Risk

- 3.1.83 The hydraulic model indicates that during a 1:200 year flood event W7.9 (Hydro ID 43) and W7.134 (Hydro ID 44) could potentially pose an indirect risk to the existing A9. It also suggests that W7.15 (Hydro ID 51) could potentially contribute an indirect flood risk to the HML railway downstream of the crossing. These features have therefore been assigned a **High** sensitivity value. The remaining features are determined to have little or no flood risks associated with the 200 year event and therefore, have been classed as **Low** sensitivity value.

Allt Coire Chaorainn and associated tributary (MW7.18/ MW7.19 Hydro ID 52)

Water Quality

- 3.1.84 The Allt Coire Chaorainn and tributary have a catchment area of approximately 3.461km² and a length of 3.37km, flowing in a north-easterly direction underneath the Drumochter Lodge access track, existing A9, General Wade's Military Road before discharging into the River Truim at NGR 262793 779739. The Allt Coire Chaorainn receives a point source discharge from Drumochter Lodge (DISC 7.8), and is likely to receive some untreated or partially treated runoff from the existing A9. Both watercourses have been assigned a **Medium** sensitivity value for water quality. A **High** sensitivity value for biodiversity water quality has been assigned due to the ecological permeability facilitated within the channel.
- 3.1.85 Both watercourses are situated within a high groundwater vulnerability zone (Class 4) and therefore, have been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.86 There is evidence of active morphological processes across the catchment. An alluvial fan is situated immediately upstream of the watercourse crossing and is associated with potential risk for channel migration. A **High** sensitivity value has been assigned for the hydromorphology of the Allt Coire Chaorainn and its tributary.

Hydrology and Flood Risk

- 3.1.87 The hydraulic model indicates that, during a 1:200 year event, the Allt Coire Chaorainn and its tributary are associated with direct flood risk to the existing A9 carriageway between ch. 7,250 and 7,400. The Allt Coire Chaorainn also provides a locally important social use given that it is as utilised as surface water abstraction Private Water Supply for Drumochter Lodge. These features have therefore, been assigned a **Very High** sensitivity value for hydrology and flood risk.

Unnamed tributaries of River Truim (W7.154 Hydro ID 53, W7.155 Hydro ID 54, W7.156 Hydro ID 55, W7.157 Hydro ID 56)

Water Quality

- 3.1.88 Each of these tributary drains is short in length and drain a limited area of forestry prior to their crossing under the existing A9. It is likely that each of these small watercourses intercepts untreated or partially treated road runoff, and therefore, has been assigned a **Low** water quality sensitivity value. The watercourses also have bank modifications that are likely to affect water quality in terms of biodiversity, which has been assigned a **Low** sensitivity value.
- 3.1.89 Both watercourses are situated within a high groundwater vulnerability zone (Class 4) and have therefore been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.90 The channels are forestry drains which have been extensively artificially modified, and there is little evidence of morphological diversity upstream or downstream of the crossing. These crossings have therefore, been assigned a **Low** sensitivity value for hydromorphology.

Hydrology and Flood Risk

- 3.1.91 The hydraulic model indicates that, during a 1:200 year event, Hydro ID 53 overtops onto the existing A9, and therefore has been assigned a **Very High** sensitivity value. Water feature W7.157 (Hydro ID 56) is not indicated to contribute towards the inundation of any sensitive receptors and has been assigned a **Low** sensitivity value.

Unnamed Tributary of River Truim (MW7.20 Hydro ID 57)

Water Quality

- 3.1.92 The unnamed watercourse has a catchment area of approximately 0.545km² and a length of 1km, generally flowing in a westerly direction, crossing under the existing A9 and NCN7 before discharging into the River Truim at NGR 263080 780415. It is likely that the watercourse will receive some form of untreated or partially treated road runoff, and has been assigned a **Medium** water quality sensitivity value. A **Medium** sensitivity value has also been assigned for biodiversity, given that there are existing pressures from bed protection and the circular culvert at the existing A9 crossing.
- 3.1.93 BGS data indicates that this watercourse is situated within a high groundwater vulnerability zone (Class 4) and has therefore, been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.94 There are artificial channel modifications in the form of bank protection at the crossing inlet. The upstream channel is incised and confined by valley sides in some locations with potential for future erosion and sediment delivery. A **Medium** sensitivity value has been assigned for the hydromorphology of this unnamed watercourse.

Hydrology and Flood Risk

- 3.1.95 The hydraulic model indicates that during a 1:200 year event MW7.20 (Hydro ID 57) is associated with flood risk in the vicinity of the existing A9 earthworks extents, and therefore, a **High** sensitivity value has been assigned for hydrology and flood risk.

Unnamed Tributary of River Truim (W7.19 Hydro ID 58, W7.166 Hydro ID 60)

Water Quality

- 3.1.96 These tributaries are short in length and drain a small area prior to crossing under the existing A9. It is likely that they intercept untreated or partially road runoff, and therefore has been assigned a **Low** water quality sensitivity value. The watercourses also have bank modifications that are likely to affect biodiversity, which has been assigned a **Low** sensitivity value.
- 3.1.97 The watercourses are situated within a high groundwater vulnerability zone (Class 4) and have therefore been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.98 Each watercourse has been artificially modified with engineered stone pitching steps present at the watercourse crossing inlet. The watercourses have uniform flow and exhibit little morphological diversity, therefore have been assigned **Low** hydromorphology sensitivity values.

Hydrology and Flood Risk

- 3.1.99 The hydraulic model indicates that the 1:200 flood extents for both watercourses covers uncultivated land; therefore, a **Low** sensitivity value has been assigned.

*Allt Coire Chuirn (MW7.22 Hydro ID 59)**Water Quality*

- 3.1.100 The Allt Coire Chuirn has a catchment area of approximately 3.602km² and a length of 4.3km, generally flowing in a north-westerly direction, crossing under the existing A9 and NCN7 before discharging into the River Truim at NGR 263167 780815. A **High** sensitivity value has been assigned for both water quality and biodiversity, given that there are likely to be only a small proportion of pollutant sources and as ecological permeability is facilitated within the span bridge crossing.
- 3.1.101 BGS data indicates that the Allt Coire Chuirn is situated within a high groundwater vulnerability zone (Class 4); therefore, it has been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.102 The Allt Coire Chuirn is located within a steep sided V- shaped valley and an extensive sediment supply from the upper catchment is transported and deposited along a major alluvial fan. The fan is largely contained within the channel, which helps contribute towards active morphological processes and further sediment production. The existing A9 crossing creates a pinch-point which restricts the passage of sediment and debris movement; therefore, a **High** sensitivity value has been assigned for the hydromorphology of the Allt Coire Chuirn.

Hydrology and Flood Risk

- 3.1.103 The hydraulic model indicates that the Allt Coire Chuirn is associated with inundation of the HML railway embankment during a 1:200 year event and therefore it has been assigned a **High** sensitivity value for hydrology and flood risk.

*Unnamed Tributary of River Truim (W7.167 Hydro ID 61, W7.169 Hydro ID 62)**Water Quality*

- 3.1.104 These small tributaries are ephemeral in nature and likely to receive an input of either untreated or partially treated road runoff. The vegetated channels have negligible flow recorded during the site visit and the oversized culverts provide an existing pressure; therefore, a **Low** sensitivity value has been assigned for water quality and biodiversity.
- 3.1.105 BGS data indicates that the watercourses are situated within a high groundwater vulnerability zone (Class 4); therefore, they have been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.106 There is evidence of engineered channel modifications in the form of localised channel straightening downstream of crossing Hydro ID 61. There are signs of some vertical incision as an adjustment related to the channel straightening. Although there is limited flow and sediment supply, during extreme high flow events the channel could act as a distributary channel for the

adjacent Allt Coire Chuirn. The channel has been assigned a **Medium** sensitivity value for hydromorphology. There is little evidence of geomorphological diversity in watercourse W7.169; therefore a **Low** sensitivity value has been assigned.

Hydrology and Flood Risk

- 3.1.107 The hydraulic model indicates that W7.167 (Hydro ID 61) is associated with inundation of the HML railway embankment during a 1:200 year event, and therefore it has been assigned a **High** sensitivity value for hydrology and flood risk. No flood risk associated with W7.169 is identified; therefore a **Low** sensitivity value has been assigned.

Unnamed Tributary of River Truim (W7.23, Hydro ID 63)

Water Quality

- 3.1.108 The unnamed watercourse has a length of approximately 1km, generally flowing in a north-westerly direction, crossing under the existing A9 and NCN7 before discharging into the River Truim at NGR 263677 781573. It is likely that the watercourse will receive some form of untreated or partially treated road runoff and has been assigned a **Medium** water quality sensitivity value. A **Medium** sensitivity value has also been assigned for biodiversity, given that there are existing pressures from bed protection and the circular culvert at the existing A9 crossing.
- 3.1.109 BGS data indicates that the watercourse is situated within a high groundwater vulnerability zone (Class 4); therefore, it has been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.110 There is evidence of historic channel realignment upstream of the existing A9 crossing, but the existing channel length is similar to the former with little evidence of morphological activity. The issues identified downstream of the crossing are attributable to MW7.23 (Hydro ID 64) i.e. deposition of sediment on reducing slopes by the A9 is causing lateral adjustment. Therefore, a **Medium** sensitivity value has been assigned for hydromorphology.

Hydrology and Flood Risk

- 3.1.111 The hydraulic model indicates that W7.23 (Hydro ID 63) is associated with inundation of the HML railway embankment during a 1:200 year event, and therefore, has been assigned a **High** sensitivity value for hydrology and flood risk.

Allt Coire Bhotie (MW7.23, Hydro ID 64)

Water Quality

- 3.1.112 The Allt Coire Bhotie has a catchment area of approximately 1.363km² and a length of 3.1km, generally flowing in a north-westerly direction, crossing under the existing A9 and NCN7 before discharging into the River Truim at NGR 263676, 781545. A **High** sensitivity value has been assigned for water quality given that there are likely to be only a small proportion of pollutant sources relative to watercourse flow. A **Medium** sensitivity value has been assigned for biodiversity, given that there are existing pressures from the twin circular culvert at the existing A9 crossing.

- 3.1.113 BGS data indicates that the Allt Coire Bhotie is situated within a high groundwater vulnerability zone (Class 4); therefore, it has been assigned a **High** groundwater quality sensitivity value.

Hydromorphology

- 3.1.114 The Allt Coire Bhotie receives sediment supply from coupled hillslope failures upstream, transported along a steep, confined channel. There is an area of sediment deposition adjacent to a section of channel realignment. Erosion downstream of the crossing has also resulted in channel incision and bank collapse. A High sensitivity has been assigned for the hydromorphology of the Allt Coire Bhotie.

Hydrology and Flood Risk

- 3.1.115 The hydraulic model indicates that W7.23 (Hydro ID 64) is associated with inundation of the HML railway embankment during a 1:200 year event, and therefore has been assigned a **High** sensitivity value for hydrology and flood risk.

Unnamed Tributary of River Truim (W8.1 Hydro ID 65)

Water Quality

- 3.1.116 The unnamed watercourse has a length of approximately 800m, generally flowing in a north-westerly direction, crossing under the existing A9 and NCN7 before discharging into the River Truim at NGR 263882, 782338. It is likely that the watercourse will receive some form of untreated or partially treated road runoff and has been assigned a **Medium** water quality value. A **Medium** sensitivity value has been assigned for biodiversity, given that there are existing pressures from bed protection and the circular culvert at the existing A9 crossing.

- 3.1.117 The BGS data indicates that the tributary is situated within a medium groundwater vulnerability zone (Class 4) and therefore it has been assigned a **Medium** groundwater quality sensitivity value.

Hydromorphology

- 3.1.118 The channel morphology is engineered, with bank protection present upstream and downstream of the crossing and a 90° realignment shown parallel to the A9. There is some evidence of partial channel incision in places and deposition of gravels at the crossing location. Therefore, a **Medium** sensitivity value has been ascribed for hydromorphology.

Hydrology and Flood Risk

- 3.1.119 The DMRB3 hydraulic model indicates that W8.1 Hydro ID 65 is associated with inundation of the HML railway embankment during a 1:200 year event and therefore it has been assigned a **High** sensitivity value for hydrology and flood risk.

Other water features

Private Water Supplies

- 3.1.120 Private water supplies (PWS) are identified within the Project 7 extent and are deemed to be of high sensitivity as they support vital social/ economic use. They include supplies at:
- Dalnaspidal Lodge, Possible Well (ABS 7.7) (ch. 0,100)

- Historical mapping dated between 1900 and 1974 indicated the presence of a well approximately 35m to the west of the existing A9 at ch. 100 near Dalnaspidal. Subsequent CFJV walkover surveys (August 2016 and June 2017) also identified a manhole cover corresponding to the approximate location of the well, but that was unable to be opened and inspected (**Drawing 11.1, Volume 3**).
- Dalnaspidal Lodge, Dalnaspidal, PWS abstraction from borehole (ABS 7.6) (ch. 0,350)
 - Information received from P&KC and SEPA identified a PWS record supplying properties at and surrounding Dalnaspidal Lodge, located between 150 and 320m to the west of the existing A9 from ch. 200 to ch. 350. This was indicated to be sourced from a borehole located 370m west of the Highland Mainline railway at ch. 250. Consultation with HighWater (Scotland) Ltd provided additional information that the borehole is in fact located approximately 10m west of the Highland Mainline railway and that this feeds five properties at Dalnaspidal. The well is approximately 15m in depth and two submersible pumps within it deliver water to a storage tank via a treatment system (contained within a shed adjacent to Allt Coire Mhic Sith (264505, 773205)) for colour reduction and pH elevation. A booster pump set then delivers the treated water to the properties (**Drawing 11.1, Volume 3**).
- Dalnaspidal Lodge Supply, PWS abstraction from surface water (Allt Coire Mhic-sith (ABS 7.4) (ch. 0,400))
 - Information received from P&KC identified a PWS record supplying properties at and surrounding Dalnaspidal Lodge, located between 150 and 320m to the west of the existing A9 from ch. 200 to ch. 350. This was indicated to be sourced from the Allt Coire Mhic-sith watercourse adjacent to the east side of the existing A9 at ch. 0,400 (**Drawing 11.1, Volume 3**).
- Dalnaspidal Lodge Supply, PWS abstraction from surface water (Allt Coire Mhic-sith (ABS 7.5) (ch. 0,400))
 - Information received from P&KC identified a PWS sourced from the Allt Coire Mhic-sith watercourse and supplying The Old Schoolhouse and Station Cottage properties at Dalnaspidal. Resident consultation and feedback confirmed this, identifying the supply to be sourced from the watercourse on the east side of the existing A9 at ch. 400 and that the water is utilised for domestic and consumption purposes (**Drawing 11.1, Volume 3**).
- Balsporran Cottages, PWS abstraction from spring (ABS 7.2) (ch. 6,800)
 - Information received from THC identified a PWS sourced from a spring, supplying Balsporran Cottage, an associated guesthouse and bed and breakfast. Resident consultation confirmed this, with the spring/ stream source located approximately 400m west of the existing A9 carriageway in the Pass of Drumochter beyond the Highland Mainline railway at ch. 6,800 and supplying the domestic property and four letting rooms within the bed and breakfast (**Drawing 11.5, Volume 3**).
- North Drumochter Lodge, PWS abstraction from a spring (at Allt Coire Chaorainn (ABS 7.3) (ch. 7,300))
 - Information received from THC identified an active PWS record supplying the properties/ buildings at Drumochter Lodge in the Pass of Drumochter for use within a deer larder and for domestic purposes. Landowner consultation identified that the supply is sourced from a spring, located approximately 320m to the east of the existing A9 at ch. 7,050. The spring

tank capture system has been utilised to supply these properties for in the region of 100 years (**Drawing 11.6, Volume 3**).

Discharges

- 3.1.121 Consented point source discharges are identified from CAR licence information received from SEPA (**Table 3**). They include private residential and commercial discharge of septic tank effluent (STE) to soakaways or surface watercourses.

Table 3: *Licensed Discharges within Project 7 Extent*

Water Features Ref.	Discharge	Chainage (approx.)	Position and Distance from Scheme	Drawing Number (in Volume 3)
DISC 7.1	Dalnaspidal Lodge, Ben Alder Estate, Calvine STE to Soakaway	ch. 0,100	340m south-west	11.1
DISC 7.2	Dalnaspidal, Calvine, Pitlochry STE to soakaway	ch. 0,275	220m south-west	11.1
DISC 7.3	Dalnaspidal Farm Buildings, Pitlochry STE to Soakaway	ch. 0,300	195m south-west	11.1
DISC 7.4	Dalnaspidal Steading, Dalnaspidal, Calvine, Pitlochry STE to soakaway	ch. 0,340	195m south-west	11.1
DISC 7.5	Station Cottages, Point source discharge, receiving water Allt Coire Mhic-sith	ch. 0,600	55m west	11.1
DISC 7.7	Balsporran Cottages, Dalwhinnie STE to soakaway	ch. 6,850	100m west	11.5
DISC 7.8	Drumochter Lodge, Dalwhinnie STE to Soakaway	ch. 7,350	50m east	11.6

4 Water Features Schedule

- 4.1.1 The water feature schedule (**Table 4**) lists the waterbodies identified within the Project 7 study area and provides their assigned reference number, NGR location, and approximate chainage and associated watercourse crossing Hydro ID related to the Proposed Scheme.
- 4.1.2 The schedule also outlines key environmental information relating to the waterbodies including RBMP status (where applicable) and specific designations (e.g. SSSI, SAC, SPA, Drinking Water Protected Area (DWPA)). Justification for scoping-out water features from the environmental assessment is provided and for those subject to the assessment process, sensitivity values are given for the parameters: water quality (surface and groundwater), hydrology and flood risk, and hydromorphology.

Table 4: Water Features Schedule

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Scoped Out of Environmental Assessment		Sensitivity				Hydrology & Flood Risk	
									Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Water Quality		
														Water Quality		Biodiversity
MW 7.24	-3	Allt Chaoreach Mor	Major	265890	772607	-1050/-1150	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	High	Low	
MW7.25	-2	Unnamed (tributary of Allt Chaorach Beag)	Major	265675	772761	-350/-875	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	High	Low	
W 7.27	N/A	unnamed on OS 1: 10000 (tributary of Allt Chaoreach Mor)	Minor	265965	772988	-850/-1000	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	High	Low	
W 7.28	N/A	unnamed on OS 1: 10000 (tributary of Allt Chaoreach Mor)	Minor	265998	772708	-1150	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	High	Low	
W 7.29	N/A	unnamed on OS 1: 10000 (tributary of Allt Chaorach Beag)	Minor	265764	773084	-650/-800	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	High	Low	
W 7.30	N/A	Allt Chaorach Beag	Minor	265770	772835	-750/-950	No watercourse-specific information available	DWPA (Groundwater)	No	-	Low	High	High	High	Low	
W 7.31	-1	unnamed on OS 1: 10000 (tributary of River Garry)	Minor	265259	772760	-480	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	Medium	Medium	Low	Low	
MW7.1	N/A	River Garry	Major	264783	772803	-350/-50	Bad (River Garry from Loch Garry to Garry Intake 6912)	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Low	High	High	High	Very High	
W 7.1	1	unnamed on OS 1: 10000 (tributary of River Garry)	Minor	264628	772866	100/250	No watercourse-specific information available	DWPA (Groundwater)	No	-	Medium	High	High	Low	High	
ABS 7.7	N/A	Dalnaspidal Lodge, Possible Well	Abstraction	264783	773088	100	No watercourse-specific information available	DWPA (Groundwater)	Yes	Outwith Scheme extent	-	-	-	-	-	
MW 7.2	N/A	Allt Dubhaig	Major	263868	773427	400/2950	Poor (Allt Coire Dhombain 6610)	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Low	High	High	High	Very High	
MW 7.3	2	Allt Coire Mhic-sith	Major	264676	773548	450/600	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Medium	Medium	High	High	High	
W 7.2	N/A	unnamed on OS 1: 10000 (tributary of Allt Dubhaig)	Minor	264123	773397	750/1250	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Low	High	High	High	Low	
DISC 7.1	N/A	Dalnaspidal Lodge, Ben Alder Estate, Calvine STE to Soakaway	Discharge	264590	772870	150	Poor (River Garry from Loch Garry to Garry Intake 6912)	DWPA (Groundwater)	No	-	Low	High	High	High	High	
DISC 7.2	N/A	Dalnaspidal, Calvine, Pitlochry STE to soakaway	Discharge	264590	772870	325	Poor (River Garry from Loch Garry to Garry Intake 6912)	DWPA (Groundwater)	No	-	Low	High	High	High	High	
DISC 7.3	N/A	Dalnaspidal Farm Buildings, Pitlochry STE to Soakaway	Discharge	264590	772870	325	Poor (River Garry from Loch Garry to Garry Intake 6912)	DWPA (Groundwater)	No	-	Low	High	High	High	High	
DISC 7.4	N/A	Dalnaspidal Steading, Dalnaspidal, Calvine, Pitlochry STE to soakaway	Discharge	264516	773122	350	Poor (River Garry from Loch Garry to Garry Intake 6912)	DWPA (Groundwater)	No	-	Low	High	High	High	High	
ABS 7.6	N/A	Dalnaspidal Lodge, Dalnaspidal, PWS abstraction from borehole	Abstraction	264520	773195	350	No watercourse-specific information available	DWPA (Groundwater)	Yes	Outwith Scheme extent	-	-	-	-	-	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment			Sensitivity			
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk	
										Water Quality					Biodiversity
W 7.34	N/A	Road drainage network (east of A9) meets Hydro ID 2)	Minor	264646	773308	350/370	No watercourse-specific information available	DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	–
W 7.35	N/A	Road drainage network (east of A9) meets Hydro ID 2)	Minor	264664	773355	355/365	No watercourse-specific information available	DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	–
W 7.36	N/A	Road drainage network (east of A9) meets Hydro ID 2)	Minor	263992	782479	420/490	No watercourse-specific information available	DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	–
W 7.37	3	unnamed on OS 1: 10000 (tributary of Allt Coire Mhic-sith) identified as earthworks drain and not natural watercourse	Minor	264530	773412	510/515	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Low	Low	Medium	Low	Low
W 7.38	N/A	unnamed on OS 1: 10000 (tributary of Allt Coire Mhic-sith)	Minor	264474	773333	510	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, DWPA (Groundwater)	Yes	Minor ephemeral field drainage is outwith 10m buffer around proposed A9 earthworks extents	–	–	–	–	–
W 7.39	N/A	unnamed earthworks ditch (west of A9 alongside railway) discharges d/s of Hydro ID 3	Minor	263992	782602	510	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch is outwith 10m buffer around proposed A9 earthworks extents	–	–	–	–	–
W 7.40	3A	Unnamed on OS 1: 10000 (tributary of Allt Coire Mhic-sith) identified as earthworks drain and not natural watercourse	Minor	264506	773401	550/565	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	No	–	Low	Low	Medium	Low	Low
W 7.41	N/A	Unnamed earthworks ditch (east of A9) discharging between W7.40 and W7.41	Minor	264422	773484	570/780	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	–
ABS7.4	N/A	Dainaspidal Lodge Supply, Surface watercourse abstraction from Allt Coire Mhic-sith	Abstraction	264500	773400	525	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	No	–	Medium	Medium	Medium	High	High

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature						Scoped Out of Environmental Assessment				Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology		
										Water Quality	Biodiversity							
ABS 7.5	N/A	Dalnaspidal Station Cottages Supply (unsurveyed surface water abstraction located on W7.40)	Abstraction	264500	773431	550	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	No	-	Low	Low	Medium	-	Low			
DISC 7.5	N/A	Station Cottages, Point source discharge, receiving water Allt Coire Mhic-sith	Discharge	264390	773390	600	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	No	-	Medium	Medium	Medium	High	High			
W 7.42	N/A	Unnamed earthworks ditch (west of A9) between Hydro ID 3A and 4	Minor	264345	773442	655	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.43	4	Unnamed on OS 1:10000 (tributary of Allt Dubhaig)	Minor	264288	773524	790/795	No watercourse-specific information available	Drumochter Hills - SSSI; SAC; DWPA (Groundwater)	No	-	Low	Low	Medium	Low	Low			
W 7.44	N/A	Unnamed earthworks ditch (west of A9) between Hydro ID 4 and 5	Minor	264209	773555	785/855	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.46	N/A	Unnamed earthworks ditch (west of A9) between road and W 7.44	Minor	264210	773601	860	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.47	N/A	Unnamed earthworks ditch (west of A9) between road and W 7.44	Minor	264187	773624	905	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.48	N/A	Unnamed earthworks ditch (west of A9) between Hydro ID 4 and 5	Minor	264530	773412	800/910	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.49	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 4 and 5	Minor	264248	773678	890/905	No watercourse-specific information available	Drumochter Hills - SSSI; SAC; SPA; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W 7.50	5	Unnamed (tributary of Allt Dubhaig)	Minor	264218	773785	970	No watercourse-specific information available	Drumochter Hills - SSSI, SAC, SPA; DWPA (Groundwater)	No	-	Low	Low	Medium	Low	Low			
W7.3	6	Unnamed watercourse (identified as drain on OS 1:10 000 map)	Minor	264115	773863	1150	No watercourse-specific information available	Drumochter Hills - SSSI, SAC, SPA; DWPA (Groundwater)	No	-	Low	Low	Medium	Low	Low			

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoping Out of Environmental Assessment				Sensitivity			
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk	
W 7.51	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 5 and 6	Minor	264143	773798	985/1145	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.52	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 6 and 7	Minor	264066	773889	1150/1215	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.53	N/A	Unnamed earthworks ditch (east of the A9) which feeds into Hydro ID 7	Minor	264061	773923	1225/1235	No watercourse – specific information available	Drumochter Hills - SSSI; SPA; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.54	7	Unnamed on OS 1: 10 000 (tributary of Allt Dubhaig)	Minor	263940	773916	1250/1260	No watercourse – specific information available	Drumochter Hills - SSSI; SPA; DWPA (Groundwater)	No	-	Low	Low	Medium	Low	Low	
W 7.55	N/A	Unnamed earthworks ditch (east of A9) diverted towards Hydro ID 7	Minor	263994	774006	1255/1325	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.56	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 7 and 8	Minor	263954	774059	1330/1500	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.57	N/A	Unnamed earthworks ditch (east of A9) linked to Hydro ID 8	Minor	263868	774149	1500/1520	No watercourse-specific information available	Drumochter Hills - SSSI; DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.58	N/A	Unnamed earthworks ditch (east of A9) linked to Hydro ID 8	Minor	263851	774238	1500/1600	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SPA, SAC, DWPA (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.59	N/A	Unnamed earthworks ditch (east of A9) linked to Hydro ID 8	Minor	263851	774238	1550/1690	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment				Sensitivity			
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk		
										Water Quality	Biodiversity					
MW 7.4	8	Allt Ruidh nan Sgoilearan	Major	264001	774278	1400/1880	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Medium	Medium	Very High	High	High	
W 7.60	10	Unnamed on OS 1: 10 000 (tributary of Allt Dubhaig)	Minor	263733	774228	1680	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Medium	Low	Medium	Low	Low	
W 7.61	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 10 and 12	Minor	263883	774206	1680/1880	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
MW 7.5	12	Unnamed on OS 1: 10 000 (tributary of Allt Dubhaig)	Major	263582	774440	1900	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Medium	Low	Medium	Medium	Low	
MW 7.6	13	Allt Fuar Bheann	Minor	263850	774653	2000/2050	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Medium	Low	Very High	High	High	
W 7.62	14	Unnamed on OS 1: 10 000 (tributary of Allt Fuar Bheann)	Minor	263575	774655	2080/2090	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	-	Low	Low	Medium	Medium	Low	
W 7.63	N/A	Unnamed earthworks ditch (east of A9) between Hydro ID 14 and 15	Minor	263600	774718	2035/2190	No watercourse-specific information available	Drumochter Hills - Protected as SSSI, SAC, SPA, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.64	15	Unnamed tributary of Allt Fuar Bheann)	Minor	263545	774716	2180/2185	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Low	Low	Medium	Low	Low	
W7.65	N/A	Unnamed (ephemeral channel)	Minor	263473	774845	2030	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.66	N/A	Unnamed (ephemeral channel)	Minor	263473	774845	2310	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W 7.5	17	Unnamed (tributary of Allt Dubhaig)	Minor	263401	774995	2450	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Low	Low	Medium	Low	High	
W7.67	N/A	Unnamed (earthworks drain feeding towards Hydro ID 17)	Minor	263375	774969	2455	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment			Sensitivity			
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk	
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification					Water Quality
W7.68	N/A	Unnamed (earthworks drain feeding towards Hydro ID 17)	Minor	263374	774968	2445/2470	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	
W 7.69	N/A	Unnamed (earthworks drain feeding towards Hydro ID 17)	Minor	263366	775017	2480/2525	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	–	–	–	–	
W 7.70	18	Unnamed (tributary of Allt Dubhaig)	Minor	263355	775073	2520/2540	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	–	Low	Medium	Medium	High	
W7.71	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 18)	Minor	263449	775085	2525/2555	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	
W7.72	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 20)	Minor	263410	775156	2565/2705	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	
W 7.74	20	Unnamed (tributary of Allt Dubhaig)	Minor	263375	775229	2700/2705	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	–	Low	Medium	Low	Low	
W7.75	N/A	Unnamed (earthworks ditch feeding towards Hydro ID 20)	Minor	263368	775263	2580/2775	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	
W7.76	21	Unnamed (tributary of Allt a' Chaorainn)	Minor	263305	775297	2780	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	–	Low	Medium	Low	Low	
W7.78	22	Unnamed (tributary of Allt a' Chaorainn)	Minor	263332	775373	27850/2865	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	–	Low	Medium	Low	Low	
W 7.77	N/A	Unnamed (earthworks ditch discharging into Hydro ID 21)	Minor	263347	775337	2700/2850	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	
W7.79	N/A	Unnamed (earthworks ditch discharging into Hydro ID 23)	Minor	263315	775449	2850/3000	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	
MW7.9	23	Allt a' Chaorainn	Major	263486	775629	2900/3100	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	–	Medium	Very High	High	Very High	
W 7.80	N/A	Unnamed (earthworks ditch between Hydro ID 25 and Hydro ID 23)	Minor	263252	775572	3000/3160	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment		Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology		
										Water Quality	Biodiversity				
W7.81	25	Unnamed (tributary of Allt Dubhaig) identified as earthworks drain and not natural watercourse	Minor	263185	775668	3180	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Low	Low	Medium	Low	Low
W7.82	N/A	Unnamed (earthworks ditch between Hydro ID 25 and Hydro ID 27)	Minor	263231	775760	3175/3325	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	–
W7.83	N/A	Unnamed (earthworks ditch between Hydro ID 25 and Hydro ID 27)	Minor	263209	775878	3340/3400	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	–
W7.6	27	Unnamed (tributary of Allt Dubhaig)	Minor	263157	775829	3335	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Low	Low	Medium	Low	
W7.84	28	Unnamed (Tributary of Allt Dubhaig)	Minor	263144	775921	4435/4440	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Low	Low	Medium	Low	
W7.85	N/A	Unnamed (tributary watercourse of Hydro ID 28)	Minor	263188	775949	3450	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	Yes	Minor ephemeral channel	–	–	–	–	–
W 7.86	N/A	Unnamed (earthworks ditch between Hydro ID 28 and Hydro ID 30)	Minor	263184	775965	3450/3625	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	–	–	–	–	–
W 7.87	N/A	Unnamed (ephemeral channel adjacent to Hydro ID 28)	Minor	263131	775909	3440	No watercourse-specific information available	Drumochter Hills Protected as DWPA, (Groundwater)	Yes	Minor ephemeral field drainage is outwith 10m buffer around proposed A9 earthworks extents	–	–	–	–	–
W 7.88	N/A	Unnamed (ephemeral channel adjacent to Hydro ID 28)	Minor	263129	775920	3440	No watercourse-specific information available	Drumochter Hills Protected as DWPA, (Groundwater)	Yes	Minor ephemeral field drainage is outwith 10m buffer around proposed A9 earthworks extents	–	–	–	–	–
MW7.10	N/A	Unnamed (tributary of Allt Dubhaig)	Major	263082	775432	2900/3210	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Medium	Medium	Medium	High	Very High
W7.7	N/A	Unnamed (ephemeral drain)	Minor	263152	775816	3500	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor ephemeral drain is outwith 10m buffer around proposed A9 earthworks extents	–	–	–	–	–
W7.89	30	Unnamed (tributary of River Truim)	Minor	263064	776097	3670/3675	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA (Groundwater)	No	–	Low	Low	Medium	Low	Low

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment				Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Water Quality (Groundwater)	Water Quality (Surface Water)	Hydrology & Flood Risk	
										Water Quality	Biodiversity						
W7.91	N/A	Unnamed (earthworks ditch between W7.48 (Hydro ID 30 and MW7.11 Hydro ID 31)	Minor	263130	776124	3620/3700	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	-	
W7.8	N/A	Unnamed (headwater tributary of River Truim)	Minor	262872	776200	3750/3950	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	No	-	High	Low	High	High	High	Very High	
MW7.11	31	Allt an Creagach	Minor	263328	776331	3770	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	No	-	Medium	Low	High	High	High	Very High	
W 7.92	N/A	Unnamed (earthworks ditch discharging into Hydro ID 34)	Minor	263027	776310	3800/3950	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	-	
W7.93	33	Unnamed (tributary of River Truim)	Minor	263058	776329	2850/3860	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Medium	High	Very High	
W7.94	34	Unnamed (tributary of River Truim)	Minor	263034	776421	3950	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	High	Low	
W7.95	35	Unnamed (tributary of River Truim)	Minor	263036	776421	3950/3955	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	High	Low	
W7.96	N/A	Unnamed (ephemeral drain)	Minor	262949	776523	4065	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor ephemeral field drainage is out with 10m buffer around proposed A9 earthworks extents	-	-	-	-	-	-	
W7.97	N/A	Unnamed (earthworks ditch draining between W7.96 and W7.99)	Minor	262946	776541	4025/4075	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	-	
W7.98	N/A	Unnamed (earthworks ditch adjacent to Hydro ID 34)	Minor	262978	776584	4020	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	-	
W7.99	N/A	Unnamed (ephemeral channel on west side of A9)	Minor	262914	776567	4125	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral drainage ditch	-	-	-	-	-	-	
W7.100	N/A	Unnamed (earthworks ditch which drains towards Hydro ID 36)	Minor	262947	776668	4200	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	-	
W7.101	36	Unnamed (tributary of River Truim)	Minor	262870	776701	4250/4260	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	No	-	Low	Low	High	Low	High	Low	
W7.102	N/A	Unnamed (ephemeral channel which feeds into earthworks ditch between Hydro ID 36 and 37)	Minor	262909	776773	4280/4350	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Feature is a minor ephemeral channel	-	-	-	-	-	-	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment			Sensitivity			
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk	
										Water Quality					Biodiversity
W7.103	N/A	Unnamed (earthworks ditch between Hydro ID 36 and 37)	Minor	262902	776794	4325/4350	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-
W7.104	N/A	Unnamed (earthworks ditch between Hydro ID 36 and 37)	Minor	262890	776813	4380	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-
W7.105	37	Unnamed (tributary of River Truim)	Minor	262797	776827	4400	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low
P7.1	N/A	Pond (west of River Truim)	Pond	262690	776842	4450	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	N/A	High	N/A	N/A	N/A
W7.106	38	Unnamed (tributary of River Truim)	Minor	262769	776927	4490/4500	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low
W7.107	N/A	Unnamed (earthworks ditch between Hydro ID 38 and 39)	Minor	262828	776952	4490/4540	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-
W7.108	39	Unnamed (tributary of the River Truim)	Minor	262744	777021	4555/4560	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SPA, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low
W7.109	40	Unnamed (tributary of the River Truim)	Minor	262717	777096	4690/4695	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low
W7.110	N/A	Unnamed (earthworks ditch draining towards Hydro ID 40)	Minor	262745	777141	4700/4850	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-
W7.111	N/A	Unnamed (ephemeral channel draining towards Hydro ID 40)	Minor	262726	777191	4780	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral drainage ditch	-	-	-	-	-
W7.112	N/A	Unnamed (ephemeral channel draining towards Hydro ID 40)	Minor	262707	777270	4850	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral drainage ditch	-	-	-	-	-
W7.113	N/A	Unnamed (ephemeral channel)	Minor	262706	777292	4875	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral drainage ditch	-	-	-	-	-
W7.114	N/A	Unnamed (earthworks ditch draining towards Hydro ID 42)	Minor	262664	777340	4920/4950	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-
W7.115	42	Unnamed (tributary of River Truim)	Minor	262648	777353	4955/4960	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment			Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)		Water Quality (Groundwater)	Hydromorphology		
											Water Quality	Biodiversity				
W7.116	N/A	Unnamed (ephemeral channel)	Minor	262589	777369	4980	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	
W7.117	N/A	Unnamed (earthworks ditch between railway and western verge of the A9)	Minor	262588	777394	5020	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.118	N/A	Unnamed (ephemeral channel)	Minor	262579	777416	4035	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	
W7.119	N/A	Unnamed (ephemeral channel)	Minor	262576	777425	5060	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	
W7.120	N/A	Unnamed (earthworks ditch draining towards Hydro ID 42)	Minor	262647	777425	4950/5175	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.121	N/A	Unnamed (earthworks ditch)	Minor	262586	777567	5180/5190	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.122	N/A	Unnamed (earthworks ditch)	Minor	262590	777621	5230/5250	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.123	N/A	Unnamed (ephemeral channel)	Minor	262576	777632	5250	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.124	N/A	Unnamed (earthworks ditch)	Minor	262580	777705	5250/5335	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.125	N/A	Unnamed (earthworks ditch)	Minor	262586	777761	5390	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Not likely to be affected by Scheme	-	-	-	-	-	
W7.126	N/A	Unnamed (earthworks ditch)	Minor	262567	777865	5490/5600	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.127	N/A	Unnamed (ephemeral channel)	Minor	262571	777918	5520/5550	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	
W7.128	N/A	Unnamed (ephemeral channel)	Minor	262556	778057	5685	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Scoped Out of Environmental Assessment		Sensitivity				Hydrology & Flood Risk	
									Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Water Quality		
														Water Quality		Biodiversity
W7.129	N/A	Unnamed (earthworks ditch)	Minor	262562	778073	5680/5730	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.130	N/A	Unnamed (earthworks ditch)	Minor	262579	778190	5750/5850	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.131	N/A	Unnamed (earthworks ditch)	Minor	262585	778244	5850/5880	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.132	N/A	Unnamed (ephemeral channel)	Minor	262588	778337	5980	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.133	N/A	Unnamed (ephemeral channel)	Minor	262601	778415	6050	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	The feature is a minor ephemeral ditch	-	-	-	-	-	
MW 8.1	N/A	River Truim	Major	262840	776680	3750/25350	Good ecological potential (Heavily Modified) - (River Truim from source to Ait Cuaich confluence 23638)	River Spey SAC; Drumochter Hills - SAC, SSSI; DWPA (Groundwater)	No	-	High	Very High	High	High	High	
W7.9	43	Unnamed (Tributary of River Truim)	Minor	262963	777926	5500/6150	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	High	
W7.134	44	Unnamed (tributary of River Truim)	Minor	262683	778628	6270	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Low	Low	High	Low	High	
W7.135	N/A	Unnamed (earthworks ditch which drains into Hydro ID 45)	Minor	262728	778790	6300/6450	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.136	N/A	Unnamed (earthworks ditch which drains into Hydro ID 45)	Minor	262759	778844	6455/6525	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SPA, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.137	45	Unnamed (Tributary of River Truim)	Minor	262684	778824	6470/6475	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low	
W7.138	N/A	Unnamed (earthworks ditch which drains into Hydro ID 46)	Minor	262768	778912	6525/6600	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SPA, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-	

Water Feature Ref.		Water Feature										Scoped Out of Environmental Assessment		Sensitivity				
		Relevant Hydro ID*	Name/Description	Category	NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)		Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk		
												Water Quality	Biodiversity					
W7.139	N/A	Unnamed (ephemeral channel which drains into Hydro ID 46)	Minor	262780	778931	6610	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SPA, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.140	N/A	Unnamed (ephemeral channel which drains into Hydro ID 46)	Minor	262787	778954	6625	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.141	N/A	Unnamed (ephemeral channel which drains into Hydro ID 46)	Minor	262797	778966	6635/6640	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.142	N/A	Unnamed (earthworks ditch which discharges into Hydro ID 46)	Minor	262801	778973	6650/6650	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.145	N/A	Unnamed (earthworks ditch which discharges into Hydro ID 47)	Minor	262809	779003	6650/6670	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.146	46	Unnamed (tributary of River Truim)	Minor	262739	778958	6620	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low			
W7.147	47	Unnamed (tributary of River Truim)	Minor	262851	779121	6745/6750	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low			
W7.148	N/A	Unnamed (ephemeral channel which discharges into Hydro ID 47)	Minor	262808	779053	6715	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.149	N/A	Unnamed (ephemeral channel which discharges into Hydro ID 49)	Minor	262851	779121	6775/6810	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-			
W7.150	49	Unnamed (tributary of River Truim)	Minor	262849	779137	6820/6825	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low			

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Scoped Out of Environmental Assessment		Sensitivity				Hydrology & Flood Risk
									Y/N?	Justification	Water Quality (Groundwater)	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	
W7.151	N/A	Unnamed (earthworks ditch which discharges into Hydro ID 49)	Minor	262856	779150	2610/2635	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Earthworks channel will be replaced by new Scheme drainage network	-	-	-	-	-
W7.152	50	Unnamed (tributary of River Truim)	Minor	262856	779150	6870	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	High	Low	Low	Low
W7.15	51	Unnamed (tributary of River Truim)	Minor	262895	779321	7000	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Low	High	Medium	High	High
MW7.18	52	Allt Coire Chaorainn	Major	263342	779074	6950/7350	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Medium	High	High	High	Very High
DISC 7.7	N/A	Balsporran Cottages, Dalwhinnie STE to soakaway	Minor	262737	779189	6825	No watercourse-specific information available	Drumochter Hills Protected as DWPA, (Groundwater)	No	-	High	High	High	High	High
ABS7.2	N/A	Balsporran Cottages, Private Water Supply. Abstraction from tributary of River Truim	Minor	262695	779193	6825	No watercourse-specific information available	Drumochter Hills Protected as DWPA, (Groundwater)	No	-	High	High	-	High	Very High
W7.153	N/A	Unnamed (earthworks ditch which drains towards Hydro ID 52)	Minor	262954	779461	7125/7200	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Minor earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-
W7.154	53	Unnamed (tributary of River Truim)	Minor	262970	779559	7245	No watercourse-specific information available	Drumochter Hills Protected as DWPA, (Groundwater)	No	-	Low	Low	High	Low	Very High
P7.2	N/A	Pond (upstream source of MW7.19, assumed to be groundwater fed)	Minor	263200	779086	6900	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	N/A	N/A	Very High	N/A	N/A
P7.3	N/A	Pond (assumed to be groundwater fed)	Minor	263039	779190	6950	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	N/A	N/A	Very High	N/A	N/A
MW7.19	N/A	Unnamed (tributary of River Truim and Hydro ID 52 Allt Coire Chaorainn)	Major	263132	779362	6900/7250	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Medium	High	High	High	Very High
ABS7.3	N/A	North Drumochter Lodge, Private Water Supply Abstraction from Allt Coire Chaorainn	Minor	263160	779590	7305	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Medium	High	High	High	Very High
DISC7.8	N/A	Drumochter Lodge, Dalwhinnie STE to Soakaway	Discharge	263070	779610	7325	No watercourse-specific information available	Drumochter Hills Protected as SSSI, SAC, SPA, DWPA, (Groundwater)	No	-	Medium	High	High	High	Very High
W7.155	54	Unnamed (tributary of River Truim) identified as earthworks drain and not natural watercourse	Minor	262975	779566	7270/7275	No watercourse-specific information available	Drumochter Hills Protected as DWPA (Groundwater)	No	-	Low	Low	High	Low	Low
W7.16	N/A	Unnamed (tributary of River Truim)	Minor	262949	779644	7300/7500	No watercourse-specific information available	Drumochter Hills Protected as DWPA (Groundwater)	No	-	Medium	Medium	High	Medium	Very High

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature					Scoped Out of Environmental Assessment			Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology	Hydrology & Flood Risk		
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification					Water Quality	
W7.156	55	Unnamed (tributary of River Truim) identified as earthworks drain and not natural watercourse	Minor	263017	779718	7430	No watercourse-specific information available	Drumochter Hills Protected as DWPA (Groundwater)	No	-	Low	Low	High	Low	Low	
W7.157	56	Unnamed (tributary of River Truim)	Minor	263128	779909	7630	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Low	Low	High	Low	Low	
MW7.20	57	Unnamed (tributary of River Truim)	Minor	263333	779929	7250/8100	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Medium	Medium	High	Medium	High	
W7.158	N/A	Unnamed (ephemeral channel feeding into Hydro ID 58)	Minor	263241	780236	7970	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Minor ephemeral channel will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.159	N/A	Unnamed (earthworks ditch feeding into Hydro ID 58)	Minor	263220	780332	7975/8180	No watercourse-specific information available	DWPA (Groundwater)	Yes	Earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.160	N/A	Unnamed (earthworks ditch feeding into Hydro ID 58)	Minor	263229	780441	8135/8185	No watercourse-specific information available	DWPA (Groundwater)	Yes	Earthworks ditch will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.161	N/A	Unnamed (earthworks ditch feeding into Hydro ID 59 Allt Coire Chuirn)	Minor	263250	780582	8200/8400	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.162	N/A	Unnamed (earthworks ditch feeding into Hydro ID 59)	Minor	263319	780588	8200/8400	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.163	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 59)	Minor	263301	780611	8375/8400	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.164	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 60)	Minor	263389	780735	8500/8540	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.165	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 60)	Minor	263367	780752	8475/8530	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.19	58	Unnamed (tributary of River Truim)	Minor	263149	780499	8200	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low	
MW7.22	59	Allt Coire Chuirn	Major	263713	780269	8250/8450	No watercourse-specific information available	Drumochter Hills Protected as SSSI, River Spey SAC, DWPA, (Groundwater)	No	-	High	High	High	High	High	

Water Feature Ref.	Relevant Hydro ID*	Name/Description	Category	Water Feature						Scoped Out of Environmental Assessment		Sensitivity				Hydrology & Flood Risk
				NGR Easting	NGR Northing	Approx. Chainage From/To	RBMP Classification (2015) Surface water	Located within any Designated boundaries	Y/N?	Justification	Water Quality (Surface Water)	Water Quality (Groundwater)	Hydromorphology			
										Water Quality	Biodiversity					
W7.166	60	Unnamed (tributary of River Truim) identified as earthworks drain and not natural watercourse	Minor	263351	780804	8555	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Low	Low	
W7.167	N/A	Unnamed (earthworks ditch between Hydro ID 60 and Hydro ID 61)	Minor	263434	780878	8550/8650	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.168	N/A	Unnamed (earthworks ditch between Hydro ID and Hydro ID 62)	Minor	263604	781089	8700/9100	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.21	61	Unnamed (tributary of River Truim)	Minor	263721	780382	8450/8700	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	No	-	Low	Low	High	Medium	High	
W7.22	N/A	Unnamed (tributary of River Truim)	Minor	263572	781187	9000/9150	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Medium	Medium	High	Low	Low	
W7.169	62	Unnamed (tributary of River Truim) identified as earthworks drain and not natural watercourse	Minor	263658	781268	9115	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Low	Low	High	Low	Low	
W7.170	N/A	Unnamed (earthworks ditch which feeds into Hydro ID 63)	Minor	263779	781404	9270/9310	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA, (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.171	N/A	Unnamed earthworks ditch between Hydro ID 64 and Hydro ID 65)	Minor	263814	781525	9300/9630	No watercourse-specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.23	63	Unnamed Tributary of Allt Coire Bhotie	Minor	263729	780730	9270	No watercourse-specific information available	Drumochter Hills Protected as SSSI, River Spey SAC, DWPA (Groundwater)	No	-	Medium	Medium	High	Medium	High	
MW7.23	64	Allt Coire Bhotie	Major	264207	781253	9300/9350	No watercourse-specific information available	Drumochter Hills Protected as SSSI, River Spey SAC, DWPA (Groundwater)	No	-	High	Medium	High	High	High	
W7.172	N/A	Unnamed (earthworks ditch between Hydro ID 64 and 65)	Minor	263813	781551	9300/9630	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.173	N/A	Unnamed (ephemeral channel which runs between Hydro ID 64 and 65)	Minor	263789	781619	9490	No watercourse-specific information available	DWPA (Groundwater)	Yes	Water feature is a minor ephemeral channel	-	-	-	-	-	
W7.174	N/A	Unnamed (earthworks ditch between Hydro ID 64 and Hydro ID 65)	Minor	263814	781608	9275/9660	No watercourse-specific information available	DWPA (Groundwater)	Yes	Drainage will be replaced by new Scheme drainage network	-	-	-	-	-	
W7.25	N/A	Unnamed (tributary of River Truim)	Minor	263660	781454	9250/9300	No watercourse-specific information available	River Spey SAC, DWPA (Groundwater)	No	-	High	High	High	Medium	Low	
W8.1	65	Unnamed (tributary of River Truim)	Minor	263878	781552	9450/2100	No watercourse specific information available	Drumochter Hills Protected as SSSI, DWPA (Groundwater)	No	-	Medium	Low	Medium	Medium	Low	

