

Megan Berry

From: O'Brien, Neil <Neil.O'Brien@uuplc.co.uk>
Sent: 07 May 2019 15:48
To: Megan Berry; Wastewater Developer Services
Subject: REPEAT3: Customer repeat 180419

Follow Up Flag: Follow up
Flag Status: Flagged

Megan,

From a wastewater point of view the feeder pipe would be consider a 'watercourse' and with any watercourse you would need the consent of the owner of that watercourse. In this case it is UU clean water. It seems that it is unlikely that UU clean water would give such consent but this will be confirmed shortly.

Regards

Neil

From: Megan Berry [mailto:meganberry@betts-associates.co.uk]
Sent: 18 April 2019 15:49
To: O'Brien, Neil <Neil.O'Brien@uuplc.co.uk>; Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Cc: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>; Mooney, Eugene <eugene.mooney@uuplc.co.uk>
Subject: Customer repeat 180419

Hi Neil,

Thank you for your quick response. As this is a controlled feeder pipe would we be able to connect into this network at a restricted rate?

Kind Regards

Megan Berry BSc(Hons) GradCIWEM
Graduate Flood Risk Analyst

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From: O'Brien, Neil
Sent: 18 April 2019 14:44
To: Megan Berry ; Wastewater Developer Services
Cc: Dodd, Matthew ; Mooney, Eugene
Subject: RE: REPEAT 2a: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Megan,

The easement is '9 foot'. The feeder pipe is a UU asset. UU are obligated to provide the canal with an average of 8.52 MI/d and no more than 12.17 MI/d on any given day from 1 November to 30 April and an average of 8.52 MI/d and no more than 19.48 MI/d on any given day from 1 May to 31 October under the Oldham and Rochdale Corporations Water Act (1923). Flow to the canal is controlled from the lake bank valve tower which has a 2 level draw off system (Top and Bottom). Water is passed through a 300mm pipe through the embankment to a flow meter house on the downstream face where quantities discharged are recorded, from there water flows into a box section stone culvert under fields and the Akzo Nobel Chemical works to the canal.

British Water Ways and Rochdale Council were aware of 'United Utilities feeder culvert' in 2012. If you can find drawing SKL245:PL01 submitted with planning application No: 11/D55085

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Orfdwlrq#Irup hu#Dn}r#Q reh#Vln/#K roqjvz ruk#Urdg/#Dlwheurxjk/#Urfkgdd#
Z dwuz d|#Urfkgdd#F dqdd#

The feeder pipe is located mainly under the estate road.

Regards

Neil

From: Megan Berry [<mailto:meganberry@betts-associates.co.uk>]
Sent: 18 April 2019 09:05
To: O'Brien, Neil ; Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Cc: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>; Mooney, Eugene <eugene.mooney@uuplc.co.uk>
Subject: RE: REPEAT 1: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Hi Neil,

Thank you for your response.

Please can you confirm the size of the easement for the feeder pipe? As on the plan you originally sent over the purple line (the easement) does not line up with the green dotted line (feeder pipe)?

If it once belonged to the Rochdale Canal Company would it not have been taken over by CRT? As in correspondence they have not confirmed or aware of this assets, neither are the council.

Eugene,

Please can you confirm what is a DPA? And if there are two pipes within this location feeding the canal?

A quick response would be very appreciated

Kind Regards

Megan Berry BSc(Hons) GradCIWEM
Graduate Flood Risk Analyst

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From: O'Brien, Neil
Sent: 11 April 2019 16:24
To: Megan Berry <meganberry@betts-associates.co.uk>; Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Cc: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>; Mooney, Eugene <eugene.mooney@uuplc.co.uk>
Subject: REPEAT 1: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Megan,

It seems Hollingworth Lake was 'transferred' to UU back in the 70's and there is a feeder pipe from the lake to the canal. I am not sure if this pipe transferred to UU. The easement is for the this feeder pipe. The easement grantee was the Rochdale Canal Company so I am not sure if the easement has been transferred to UU.

The orange and pink lines are DPA boundary lines – something to do with clean water.

Eugene,

What is a DPA?

Please could you provide Megan with some information about Hollingworth Lake. Is the green broken line shown below the canal feeder pipe or a pressurized pipe?

Regards

Neil

From: Megan Berry [<mailto:meganberry@betts-associates.co.uk>]

Sent: 11 April 2019 15:26

To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>; O'Brien, Neil

Cc: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>

Subject: RE: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Hi Neil,

Please can you respond to my email ASAP the client is keen to gain clarification, or if it is easier please ring me on the number below.

Kind Regards

Megan Berry BSc(Hons) GradCIWEM
Graduate Flood Risk Analyst

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From: Megan Berry
Sent: 08 April 2019 09:00
To: 'Wastewater Developer Services' <WastewaterDeveloperServices@uuplc.co.uk>; O'Brien, Neil
Cc: 'Dodd, Matthew' <Matthew.Dodd@uuplc.co.uk>
Subject: RE: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Good Morning Neil,

Thank you for your email, it was understood through previous correspondence (see attached) that the pipe crossing the site is a pressurized raw water distribution main owned by UU. Please can you confirm?

Furthermore, please can you confirm what the easement crossing site, shown by the purple line, is for? As we have no records of a pipe being located within this area. Also please can you confirm what the blue and orange lines stand for on the snippet you sent over?

It would be greatly appreciated if you could clarify these either by email or over the phone as soon as possible.

Kind Regards

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Graduate Flood Risk Analyst

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From: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Sent: 05 April 2019 14:05
To: Megan Berry <meganberry@betts-associates.co.uk>; Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Subject: RE: UU Pre-Development Enquiry - Hollingworth Road, Littleborough - 4200025137

Megan,

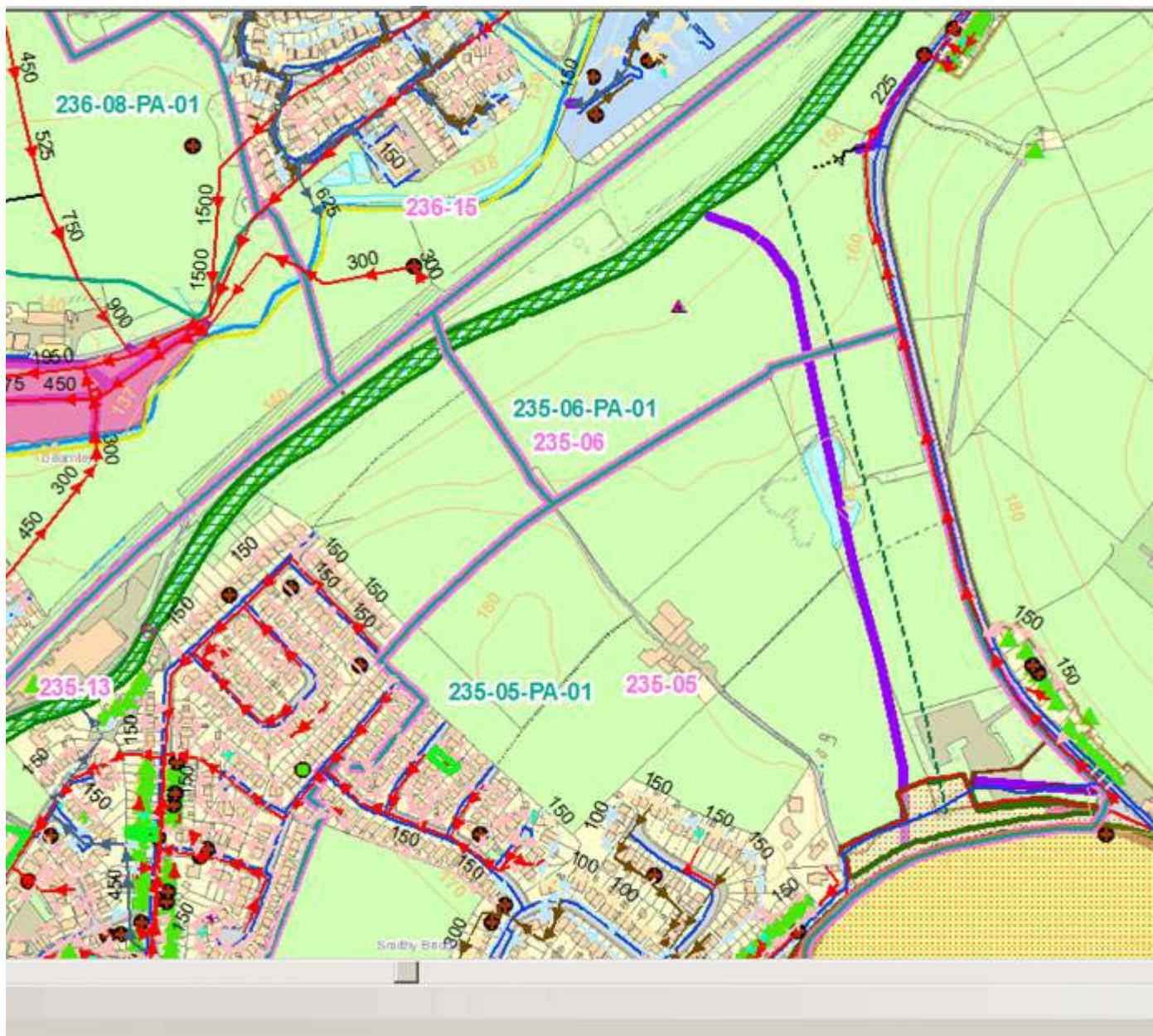
Foul will be allowed to drain to the public combined sewer network at an unrestricted rate. The connection(s) to the public sewer can be at a point(s) convenient to yourself.

UU would like to see the surface water to drain to the watercourse/waterbody. UU have an agreement with the CRT to drain to their canals. As the number of public sewers (usually S104 sewers) that discharge to the CRT canals increase as does the fee that UU pay to CRT. Thus usually there is not a problem with draining to canals as the increase in outfalls means an increase income. This is a bit of a strange site as there feeder pipe that connects the lake to the canal as shown by the broken green line on the plan blow. There is also an easement on the site shown by the purple line.

It is unclear at the moment whether the feeder pipe is owned by UU. There may be an opportunity to drain to this feeder pipe, depending on ownership, easement details and other factors.

Regards

Neil



From: Megan Berry [<mailto:meganberry@betts-associates.co.uk>]

Sent: 22 March 2019 09:33

To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Subject: UU Pre-Development Enquiry - Hollingworth Road, Littleborough

UU PREDEVELOPMENT ENQUIRY. Pro-forma attached.

To Whom It May Concern,

We are currently preparing a Flood Risk Management Assessment and Drainage Management Strategy to support a residential planning application on land off Hollingworth Road in Littleborough. As part of the preparation, a drainage management strategy has been devised and at this stage we are seeking to begin discussions with UU with regards to the proposed surface water and foul water: attached is the pre-application advice form with supporting information as required.

Surface Water:

Surface water discharge options have been assessed in accordance with the sustainable drainage hierarchy. Given the presence of underlying coal measures in the sub geology and the areas mining history, an infiltration-based solution is not likely to be practical due to the high potential for leaching of contaminants from the underlying coal

measures. Furthermore, given the mining history there is potential for further engineering constraints to be present onsite, restricting the location of Soakaway features within the site boundaries. This issue would be exacerbated due to the steep gradient across the site. The adjacent site has planning permission (11/D55085) which furthermore supports that infiltration is unlikely to be practical on this site.

Assuming infiltration will not be feasible based on the information reviewed, then in accordance with the drainage hierarchy the next method to be explored is to discharge surface water run-off to a watercourse. The nearest watercourse to site is the River Roch (Main River) located approximately 450m to the north of site beyond the canal and railway. Given the engineering constraints associated with routing to the Main River it is unlikely that a direct discharge from site to the River Roch will be achievable. The Rochdale Canal and Rochdale Railway Line form the two primary constraints to achieve this direct connection, routing would need to span across 450m beneath a canal structure and railway line. Due to these constraints we have considered the potential alternatives.

Given that infiltration and a connection into the River Roch is unlikely to offer a surface water management solution for the site, it is proposed that the development mimics the existing regime and continues to discharge into the canal. The Rochdale Canal is located adjacent to the northern boundary of site and as previously discussed it is understood that the site naturally drains via overland run-off into the canal. It is therefore proposed the development site mimics the existing situation and discharges at the restricted pre-development greenfield rate. However, as the Canals and Rivers Trust are not a statutory drainage authority, they are not obliged to accept discharges into their network. Pre-development discussion with the CRT are currently being undertaken however a response is proving difficult to obtain.

If a new formal outfall into the Rochdale Canal cannot be agreed, then the alternative would be to consider discharging into the public combined sewer network (225mm dia.) within Hollingworth Road to the east of site. It is not clear whether this existing pipe length has sufficient capacity to cater for the flows discharging from the development. Detailed design will confirm the exact point of outfall location and whether a full gravity solution is feasible (not assumed to be feasible due to existing situation). Any new proposed point of connection will be agreed with United Utilities. In accordance with the SuDS Manual (CIRIA) and the Non-Technical Standards for SuDS (March 2015) all sites should endeavour to achieve as close to pre-development greenfield rates as is viable. The proposals are therefore to discharge to the public combined sewer at the restricted pre-development greenfield rate of 114.0l/s (QBar). This rate of discharge will be reviewed during detailed design stage when existing drainage systems have been investigated and updated accordingly if required.

Foul Water:

Review of the UU sewer records identify there to be public sewer infrastructure in proximity to the site. The development site is undeveloped at present and therefore, there are no onsite foul water flows currently generated thus no existing foul water connections present. The proposals for foul water management at the site are to discharge into the nearest foul water sewer compatible for a public sewer asset. The nearest sewer would be the public combined water sewer (225mm dia.) located within Hollingworth Road to the east of site. Early discussions with UU are recommended to ensure there will be sufficient capacity. Furthermore, UU must consent to any proposed works to the public sewer network. Based on the proposals for the construction of approximately 200no. units collectively the approximate peak foul water flows generated by the site overall is 9.2l/s. This is based on 4000 litres per dwelling per 24 hours; the guidance contained within Sewers for Adoption (SfA).

We are ultimately seeking to identify United Utilities preferred point of connection and to confirm any constraints. It is acknowledged that offsite work will likely be required to achieve connection into the public sewer network. Hopefully the summary above and the attached are of assistance and allow agreement in principle to be given, do not hesitate to contact me on the details below should you require any further assistance.

Kind Regards

Megan Berry BSc(Hons) GradCIWEM
Graduate Flood Risk Analyst

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