

Roman Road Sewer Repairs, Duntocher: Archaeological Monitoring

Data Structure Report

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Rathmell
Archaeology Ltd

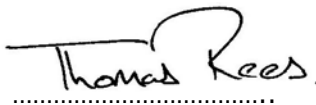
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Date ...4th September 2012.....

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Introduction

1. This Data Structure Report has been prepared for Scottish Water Shared Services in support of the sewer repairs at Roman Road, Duntocher. The archaeological works were designed to mitigate the impact on the archaeological remains within their development area to the standards expected under the release of Permitted Development rights.
2. The West of Scotland Archaeology Service who advises West Dunbartonshire Council on archaeological matters provided guidance on the structure of archaeological works appropriate on this site. Rathmell Archaeology Limited was appointed by Scottish Water Shared Services on behalf of Scottish Water to undertake the archaeological monitoring of sewer repairs at Roman Road, Duntocher.
3. The Method Statement (Gordon 2012) outlined the details of the works (archaeological monitoring, exclusion, post-excavation analyses and publication) for the mitigation pertaining to ground breaking within the defined archaeologically sensitive areas and hence the direct physical impact on buried sediments. This Data Structure Report provides the detail of the works for the mitigation pertaining to all ground-breaking works and hence the direct physical impact on buried sediments.

Historical and Archaeological Background

4. The site is located within the village of Duntocher, in the West Dunbartonshire area. The site exists as the car park facility of the 'Antonine Sports Centre', located off Roman Road, a main access route to the centre of the village. The site is divided north and south by the Duntocher Burn.
5. The remains of a Roman fort (Canmore ID 43265) lie to the east, at the summit of Goldenhill (excavated 1947-51). A short length of the Antonine Wall is still visible (Canmore ID 43265), which once ran down the slope from the fort, heading north-west. The outline of the *vallum* (the wall's defensive ditch) can also be made out, running parallel to the wall (on the north side). Part of the fort's bath-house was found south of the wall in 1978 (Canmore ID also 43265), but this is no longer visible.
6. The Antonine Wall represents the northern frontier of the Roman province of Britain as of AD143. Constructed on the order of the Roman emperor Antoninus Pius, stretched for 60 km between Bo'ness and Old Kilpatrick, with forts and fortlets located along its length. It was made of turf, with a wide substantial base of sandstone boulders. The earliest historical mapping of the area (Timothy Pont c.1583-1601) (figure 1a) calls the settlement 'Dunotyr', and seems to depict the line of the Antonine Wall running through to 'Kirk of Kilpatrick' (now Old Kilpatrick). It is also possible this depicts the line of a Roman Road, known to run on the south side of the Antonine Wall; known as 'The Military Way'. The wall is now lost in the outskirts of Duntocher, and is visible only within the extent of Golden Hill.
7. Subsequent historical mapping (Ross, Charles 1777) (figure 1b) now shows Duntocher as 'Dunatcoher' and depicts a 'Roman Road' crossing the Duntocher Burn. Also depicted is a 'Roman Bridge', presumably crossing the burn along the same orientation as the Roman Road. This representation is actually more likely to depict a bridge built in 1772, by Lord Blantyre; this bore a latin inscription which can still be seen within the fabric of the bridge. Subsequent mapping continues to depict a 'Roman' bridge in the same place, although this bridge was demolished c.1943 and subsequently replaced.
8. The First Edition Ordnance Survey map (1865) (figure 2a) shows an L-shaped building on the south side of the Duntocher Burn, with a (possible) formal garden to the west. The Second Edition Ordnance Survey map (1896) (figure 2b) has this L-shaped building marked as a Smithy. The building is still standing by the 1938 Ordnance Survey Mapping. No other features of archaeological interest are identified within the site footprint.



Figure 1a: Timothy Pont (1583-1601)



Figure 1b: Ross, Charles (1777)



Figure 2a: Six Inch First Edition Ordnance Survey 1865

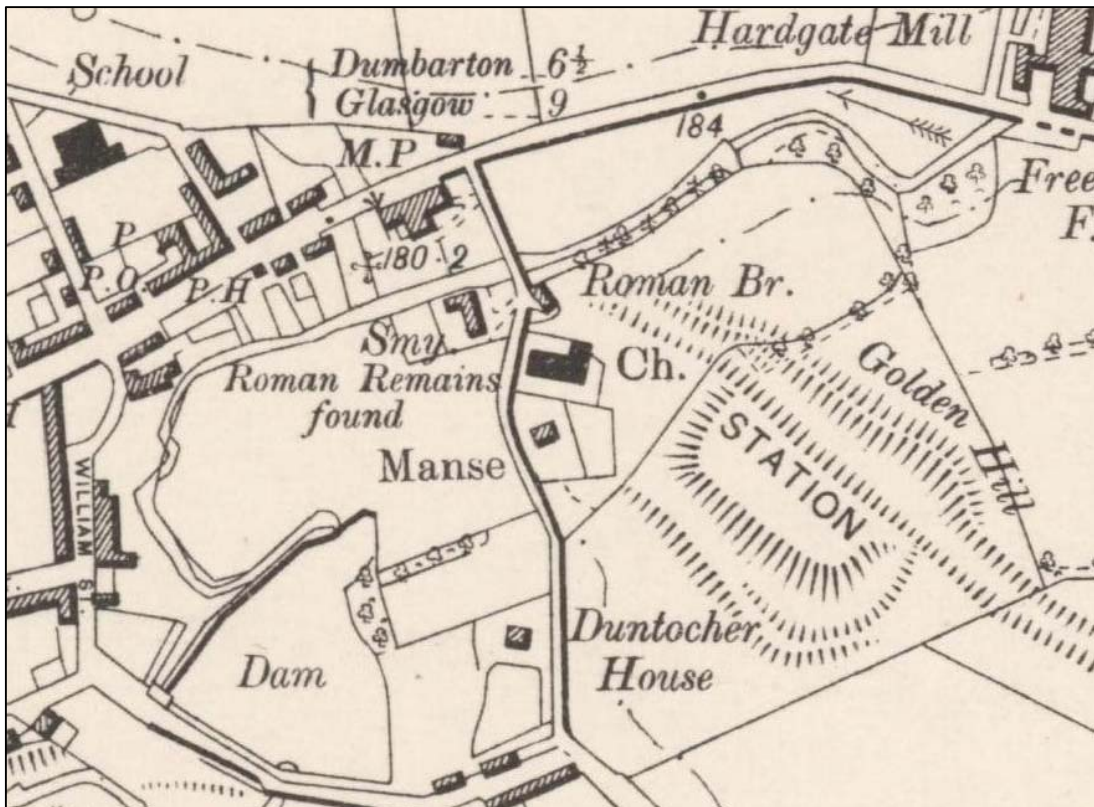


Figure 2b: Six Inch Second Edition Ordnance Survey 1896

Project Works

9. The programme of mitigation consisted of intermittent archaeological monitoring of ground breaking works during the construction of a pipe trench. This was necessitated by sewer pipe repairs, carried out by Farrans Construction Ltd, on behalf of Scottish Water. Rathmell Archaeology Ltd was appointed by Scottish Water to undertake archaeological monitoring designed to mitigate the impact on the archaeological remains within the development area, to the standards expected under the release of Permitted Development rights.
10. Works undertaken by Rathmell Archaeology Ltd were consistent with the terms described in the Method Statement (Gordon 2012). Monitoring, recording and excavation were carried out in conjunction with the terms of this document.
11. Archaeological monitoring works were undertaken between 29th May and 10th August 2012. These consisted of monitoring targeted ground reduction, in advance of construction of the pipe trench and associated manholes. Excavations were carried out by 360° mechanical excavator. Any potentially significant archaeological features, structures or deposits encountered were recorded by the archaeologist on site, using Rathmell Archaeology Ltd standard method. All contexts, small finds and environmental samples were given unique numbers with bulk finds collected by context.
12. All works complied with West of Scotland Archaeology Service Standard Conditions, the Institute for Archaeologists' Standards and Policy Statements and Code of Conduct and Historic Scotland Policy Statement.

Findings

13. The majority of works on site took place in the car parking facility of the 'Antonine Sports Centre' (figure 4a). The car park is mainly sloping ground to a 30m by 30m area of level ground in front of the sports facility; works took place on the flat ground. Works began with the reduction of ground for the placement of a new manhole (MH3). At 1.5m, it was necessary to halt works, while box shoring was installed prior to further reduction. This is maintained throughout deep excavation works on site. Deep excavations referred to reach 3m unless otherwise stated.
14. MH3 was square on plan, 3m by 3m. It was located 3.5-4m from the east side of the southern part of the sports facility. MH3 was reduced through tarmac (001), which covered the entirety of the car park area. Below (001), a sequence of deposits above the natural indicated made ground. These were (002), (003), (004) and (005) and look to be the result of levelling of the landscape in order to re-use the land. They all appear to be recent, consisting of hardcore material and red brick demolition material and dust.
15. A possible buried topsoil (008) was encountered below these at 1.6-1.7m depth (throughout this document, depths given have been measured from the top of the tarmac unless otherwise stated). This was loose, mid-dark brown clayey silt with rare small stone inclusions, 0.8m thickness as excavated. No identifiable inclusions were recovered from this material, so origin and type must remain uncertain. Undisturbed natural subsoil (011) was encountered at 2.5-3m depth, grey/brown clay with frequent small to medium stone inclusions, 0.7m maximum thickness. Below this was (012); this was a loose deposit of small to medium rounded and angular stones within a mid-dark brown clayey silt matrix.
16. Further (targeted) ground reduction took place across the car park, running north-east from MH3. The pipe trench was 1m wide and consistently 3m deep and was constructed in sections of 3m to facilitate continuous use of box shoring.
17. The upper strata sequence of made-ground continued from the manhole which includes the upper 0.6m of deposits below the tarmac ((002), (003) and (013)). In addition, below these deposits within the pipe trench was (014) (found at 0.6m-1m depth). This was firm, mid-dark brown clay with occasional small to large rounded stones and frequent coal inclusions. It also contained occasional sandstone fragments, and

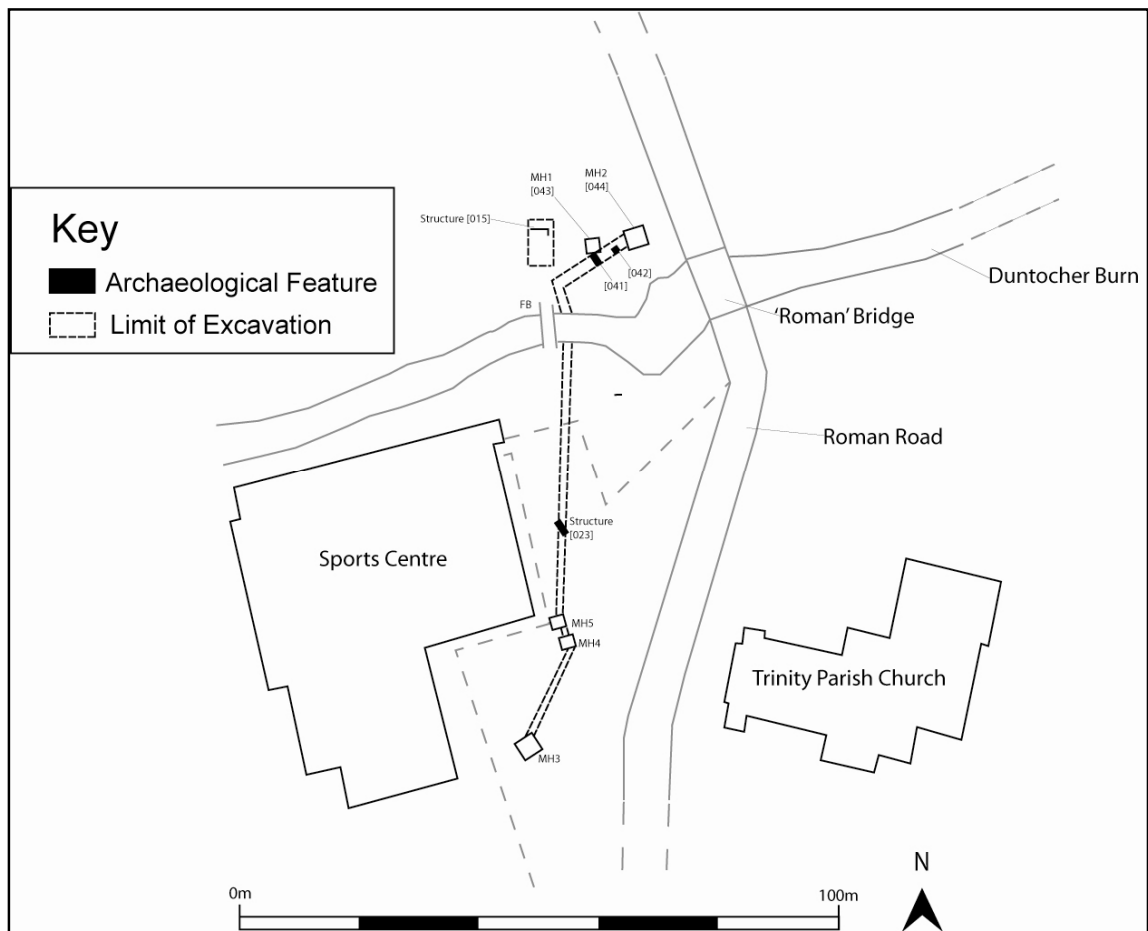


Figure 3: Site Layout



Figure 4a: Shot of car park, prior to works



Figure 4b: Structure [023]

- occasional fragments of badly fired red brick. The deposit was 0.2m thickness, and continues uninterrupted for 8m. Immediately below (014) was a continuation of natural undisturbed subsoil (011) of 1.5m thickness. Below this we came down onto (012).
18. North-east from this point evidence of disturbance from modern events became apparent, as cast iron gas pipes, modern plastic water pipes and electrical cabling. In addition, below the services two industrial iron tanks were exposed at 0.5-0.6m depth. The made-ground continued above these tanks, so it can be stated that deposits (002), (003), (004) and (005) are of a later date than the tanks. The base of the tanks was not exposed, so it is unclear how far made-ground extends here.
 19. The tanks (051) were located approximately 8m north-east of MH3 and extended outwith the western and eastern limits of excavation. To avoid the removal of these tanks (which would have required unknown extension of excavation) the trench was routed slightly to the east and then returned to the west, essentially forming a dog-leg around the tanks. This involved putting in two extra manholes (MH4 & 5), the excavation of which revealed only made-up ground and disturbance from services.
 20. On the northern-eastern side of MH 5 the pipe trench continues along the same orientation towards the burn. The upper 0.3m of stratigraphy continues as on south side of MH5. Below this was deposit (020); firm, mainly black in colour, mottled mid-grey with inclusions of subsoil (019). Deposit (020) was composed of coal fragments within silt and was mainly gritty in texture. It also contained occasional red brick fragments and occasional sandstone fragment inclusions. This deposit was of 0.2-0.3m thickness, and was found immediately above (014) and (019). Subsoil (019) was friable, light brown/orange clay, with frequent small to medium rounded stones. This was found below (020) and (014), undisturbed at 0.7m depth, and was 1m thickness as excavated.
 21. Approximately 10m north-east of MH5 the remains of a linear structure [023] were exposed (figure 4b). These ran across the trench north-west to south-east, the extremities of which (at the north-west and south-east ends) were obscured by the limits of excavation of the trench, meaning the full extent is unknown. Structure [023] consisted of a double skin of partially worked blonde, mortared sandstone, with fragments of blonde sandstone, stones and slate in the core. At the maximum point this structure was 1.47m wide, with 2.2m of length visible. It is very likely the structural remains run further in both directions. The stonework consisted of both shaped, dressed blocks in rectangular and square form, and irregular sandstone only worked on one side (to provide regular facing). It is possible some of the stonework within this structure had been re-used for a previous building.
 22. Structure [023] was one course high indicating the remains represent a foundation course. The thickness ranged from 0.5-0.6m. A demolition deposit (022) was found on the north-eastern side of this wall, which included similar blonde sandstone blocks and fragments in addition to broken glass and partially worked metal detritus. The location and nature of the demolition material can be assumed to be the result of the destruction of the upper courses of structure [023], fallen to the north-eastern side. A number of the sandstone blocks found within demolition material (022) were painted bright colours (red, yellow, white and blue). This would indicate the stonework has been painted in modern times, and re-used for another purpose, most likely within a structure.
 23. The demolition deposit (022) was found to lie over a concrete floor (024), visible below and to the north-east of (022). The floor had a thin coating of bitumen covering most of it, with grooves indicative of purposefully gripped flooring. The concrete floor continued for approximately 8m north-east. Another concrete floor (030) was found below this bearing a grooved criss-cross pattern. Removal of [023], (024) and (030), revealed deposit (014) below both. This means that deposit (014) either pre-dates or is contemporary with the construction of structure [023]. That the deposit was built-up on either side of the wall indicates the deposit is also accumulated during the use of the building.
 24. Ground reduction continued through (014) to reveal subsoil (019) below. Below structure [023] an area of disturbance (027) and [028] was found containing an assortment of

animal bones. These were disarticulated, and were not arranged in any particular fashion. The bones varied in size, and did not include a skull; the selection included seemed to originate from a number of different animals. The area of disturbance had been cut through subsoil (019).

25. As the trench proceeded a brick surface (029) was exposed stratigraphically above the wall and the concrete floor. This consisted of a pattern of mortared standard size red and yellow glazed bricks, found at 0.2m thickness below the top of the tarmac.
26. The ground reduction continued further north-east until it arrived at the south side of the burn. This also included an area of turf and topsoil adjacent to the burn on the south side. The brick surface (029) continued below the turf and topsoil, as did the general stratigraphy of made-up ground and disturbed material. The demolition material (022) continues almost directly adjacent to the burn (perhaps 2m shy of it).
27. On reaching the south side of the burn, the pipe bridge was then put in place across the burn, and ground reduction continued on the northern side. It was necessary to reduce an area for the construction of a pipe trench, to tie the pipe on the south side of the burn into a manhole on the north side. There were two previously existing manholes on the north side of the burn, referred to as [043] and [044]; [044] is the manhole which the pipe was tied into and was the furthest away, being located approximately 4m from the western side of the 'Roman' bridge.
28. Prior to general ground reduction for the construction of the new pipe trench, test pits were reduced to establish the position and depth of the existing sewer pipe. The sewer pipe was located at approximately 1m from the top of the current ground level. The entirety of the test pit area (including the material above the sewer pipe) had been reduced through 0.1m maximum thickness of (016). This was mid-dark brown/black silty clay, containing abundant plastic, red and yellow bricks, mortar fragments, glass shards and white-glaze pottery sherds. An area of approximately 3m by 1.5m was reduced in order to locate the sewer pipe.
29. Immediately to the south of the pipe, structure [015] was exposed (figure 5a). The structure did not seem to have been truncated by the sewer pipe. This consisted of mortared, worked, blonde sandstone blocks; of generally unknown size and form; the upper surface of the structure is mostly obscured by deposit (018). This was a very compacted black material, gritty in texture with the appearance of coal.
30. The structure was three courses high (as visible); the lower part of the structure was obscured by the water from the sewer pipe. On plan, the form of the structure (i.e. the number of skins) is unclear due to (018) and also due to general degradation of the stonework on the upper surface of the structure. The full extent of the structure was not exposed due to limits of excavation; the eastern edge was exposed, but it is possible it continues further west. The structure was left *in situ*. Later works in the area did not expose the southern extent of the structure.
31. The new pipe trench extended north from the edge of the burn and then east towards manhole [044]. This was reduced to 0.5m maximum depth below the top of the current ground level in the area. The stratigraphy consisted of 0.4m thickness of deposit (037) over 0.2m (as excavated) of (017). This stratigraphy was maintained throughout the reduction of the pipe trench, which would seem to indicate purposeful landscaping activities in the area.
32. Two structures were found within this area, [041] and [042]. Structure [041] (figure 5b) was surrounded by deposit (017), and consisted of worked, rectangular, blonde sandstone blocks mortared with (049). The structure was two courses of a double-skinned wall with a rubble core, with straight even faces on both sides and was orientated north-south across the pipe trench. One modern pottery sherd was found below this structure, indicating a recent date of construction. The limits of excavation obscured the northern and southern extremities of the structure; it is possible the structure extended further south but it seems very likely to have been truncated by the modern manhole [043] to the north. It was truncated to the east by the previous line of the sewer pipe running from manhole [043]. Structure [041] was found at 0.5m



Figure 5a: Structure [015]



Figure 5b: Structure [041]



Figure 6a: Structure [042] pre-excavation



Figure 6b: Structure [042] post-excavation

maximum depth from the top of the current surrounding ground level.

33. Structure [042] was found east of [041], west of the bridge. It ran NNW-SSE across the trench, west of manhole [044]. The full extent is unknown; it is possible it extends further south outside the limits of excavation. The north side had been truncated by the plastic sewer pipe trench running from manhole [043] to manhole [044]. To the west and south-west it was truncated by the trench for the previous older pipe. The full extent of the structure is unknown; it is possible there were further courses below the depth of the limits of these excavations.
34. The structure was approximately 0.5m high as visible by 0.8m wide (figure 6a, 6b). It consisted of what appeared to be a rough conglomerate of unworked, blonde sandstone fragments bonded by mortar (047) and possible concrete (046). The date of the concrete is uncertain, but does not appear to be modern. An area of blonde sandstone was visible at the base of [042]; mostly obscured by a layer of mortar [047]. It is possible this is natural *in situ* bedrock, which has been incorporated into the structure. To the north of this structure, an area of possible bedrock (045) was exposed. This was visible in the south-facing section of the pipe trench. It appeared to be natural *in situ* blonde sandstone bedrock, and did not appear to have been worked. It was necessary to fully excavate the remains of [041] and [042] exposed within the pipe trench.

Discussion

35. On the south side of the burn the upper 0.6m of strata can be attributed to general landscaping and levelling of the area, possibly in advance of the construction of the 'Antonine Sports Centre'.
36. The blonde sandstone structural remains [023] are most likely to be the foundation courses of the wall of the blacksmiths depicted on the 1865 and 1896 Ordnance Survey mapping. The location and orientation of the wall are correct to depict the outer wall (the westernmost) wall of the blacksmiths. The demolition deposit (022) found on the north-eastern side of the wall may derive from the destruction of the upper courses of this wall. This demolition deposit continued almost to the edge of the south side of the burn, stopping perhaps 2m shy of the edge.
37. The internal concrete floors (024) and (030), coated with bitumen, may derive from the known re-use of the structure as a mechanics' garage in the 20th century. The painted sandstone blocks in the demolition material (022) are most likely to date from this re-use as are the fuel tanks that were routed around by the pipe trench.
38. The deposit (014) that was found immediately below the structure clearly pre-dates it. Its character, including both sandstone fragments and brick fragments, suggests a levelling deposit that incorporates elements of older, demolished structures. Given that this material was also brown clay, not noted elsewhere on-site, it is more likely that this was imported onto site rather than re-worked material from the locality.
39. Works on site revealed only one archaeological feature cut into natural subsoil (019), which was [028] (filled with the animal bone deposit). The area of disturbance had been cut through subsoil (019). It can be reasonably concluded, (given its position below the blacksmith's wall) that the deposition pre-dates the construction of the wall of the blacksmith's structure. It is possible this activity significantly pre-dates construction, or is broadly contemporaneous with it. A number of factors regarding this deposition of bones seem to point towards a small dump of food waste, rather than an animal burial. The bones were disarticulated, did not include a skull, and seemed to come from a selection of different animals. Some (but not all) of the bones showed signs of butchering, and did not seem to be arranged in any particular fashion, as one would expect to find in a burial. All of this would seem to indicate a burial of a small dump of food waste as the most likely interpretation.
40. The origin and function of the structures found on the north side of the burn are uncertain. The nature of the material above and surrounding them indicate landscaping and modern activity in the area, and obviously, known disturbance from modern

services. Historical mapping of the area does not depict structures within this area although the 1st edition Ordnance Survey (Figure 1a) does show a wall running parallel to the burn – but the orientation of this wall is not a match to our structures.

41. It is possible that structures [015], [041] and [042] are from common elements of the same building group. The similar orientation of structures [041] and [042] would seem to suggest walls forming a single structure. There is no supporting cartographic evidence for any buildings in this location on the northern side of the river. However, the location this close to the river could indicate the remains of a building relating to use of the water flow, such as a mill. With regards to this suggestion, it is possible that structure [015] represents a more robust part of this area of building, possibly the remains of a platform or walkway of some kind, which was mainly exterior in function.
42. It should be noted at this point that despite the similar orientation of structures [041] and [042], there are differences in construction which are worthy of attention. The unusual character of the conglomerate which forms the basis of wall [042] comprises mortar, concrete and sandstone but no modern detritus. This is entirely different to the composition of structures [041] and [015]. It is therefore possible that these structures formed common elements of group of buildings, but wall [042] either pre-dates or post-dates structures [041] and [015]. Possibly wall [042] already existed, and the other elements were built up around it.

Recommendations

43. The archaeological mitigation works did not recover any significant archaeological material from within the development area and as such no further works are recommended as a direct consequence of these phases of monitoring.
44. However, we note that the presence of structures to the north of the Duntocher Burn has the potential to be a significant archaeological site with some of these walls potentially being at least post-medieval in date. We recommend that this area should continue to be considered archaeologically sensitive.
45. The appropriateness and acceptability of our recommendations rest with West Dunbartonshire Council and their advisors, the West of Scotland Archaeology Service.

Conclusion

46. A programme of archaeological monitoring was carried out from 29th May 2012 to 10th August 2012 on behalf of the Scottish Water, in respect to the sewer pipe repairs at Roman Road, Duntocher, West Dunbartonshire.
47. The archaeological works were designed to monitor the excavation of pipe trenches and the construction of manholes for a new section of sewer main. The proximity of the works to the line of the Antonine Wall prompted the programme of archaeological monitoring.
48. In the course of the works extensive areas of made ground and elements of 19th and 20th century structures were encountered to the south of the Duntocher Burn. To the north of the burn additional walls were located, while only short sections of these walls were exposed they may be of earlier origin than the 19th century. No significant archaeological finds were recovered during the course of these works.

References

Documentary

Gordon, D, 2012, *Roman Road Sewer Repairs, Duntocher: Archaeological Monitoring, Method Statement* unpublished commercial report by Rathmell Archaeology Ltd)

Cartographic

Pont, Timothy 1583-1601 Detail of Dumbarton from Pont 32

Ross, Charles	1777	A Map of the Shire of Dumbarton
Ordnance Survey	1865	6 Inch 1 st Edition.
Ordnance Survey	1896	6 Inch 2 nd Edition.

Appendix 1: Registers

Context Register

Context	Area/ Trench	Type	Description	Interpretation
1	MH3	Surface	Tarmac	Tarmac
2	MH3	Deposit	Firm mixed grey-black sand. Abundant small stones.	Made up ground
3	MH3	Deposit	Loose light brownish orange sand. Occasional crushed red brick and sandstone.	Made up ground
4	MH3	Deposit	Firm pale grey and black sand and gravel. Small stone inclusions.	Made up ground
5	MH3	Deposit	Firm mid-brown silty sand. Abundant small stones 0.10m each.	Made up ground
6	MH3	Deposit	Loose mid to dark brown silty sand. Abundant small stones, occasional metal and glass inclusions.	Made up ground
7	MH3	Deposit	Loose light to mid grey sandy gravel. Small stone, glass and ceramic inclusions.	Made up ground
8	MH3	Deposit	Loose mid to dark brown silty clay. Small stone inclusions.	Possible natural subsoil
9	MH3	Cut	Linear: 600-700mm wide running NE-SW unknown full depth.	Existing Sewer Pipe cut
10	MH3	Deposit	Firm mixed grey clay. Occasional fragments of railway wood with small-medium stones. Smells of diesel. Possible contaminated deposit.	Fill of [009]
11	MH3	Deposit	Firm mixed greyish brown clay with small stones.	Natural subsoil
12	MH3	Deposit	Loose mid-dark brown silty clay with abundant small stones found at 3m depth.	Natural subsoil
13	Pipe trench off MH3	Deposit	(Same as (008)?) Loose white grey and black ashy deposit.	Modern deposit
14	Pipe trench off MH3	Deposit	Firm mid-dark brown clay; occasional large and small rounded stones and frequent coal. 0.2m thick. Occasional sandstone and red brick fragments. Looks to be redeposited (021)?	Possible old working ground surface. Smithey?
15	North side of River	Structure	Remains of linear blonde sandstone structure found within trial trench north of river. Masoned stone blocks with yellow bricks incorporated. 3 courses	Possible remains of Mill structure

Context	Area/ Trench	Type	Description	Interpretation
			high as visible, 1 course wide. Only partially exposed.	
16	North side of River	Deposit	Moderately compacted mid brown-dark brown and black mixed sandy deposit: glass, mortar, yellow brick fragments, white glaze pottery, plastic and chunks of coal. 0.20m thick located on north side of river.	Made up ground, demolition material.
17	North side of River	Deposit	Loose mid-dark brown sandy silt. 0.3m-0.4m thick. Bioturbation: rootlets abundant, weeds also. Contains modern rubbish, and red brick fragments.	Topsoil/ Landscaping material?
18	Pipe trench off MH3	Deposit	Area of solid black gritty coal. 0.01m-0.05m thick. Covers (015) in places.	Deposit relating to (015)?
19	Pipe trench off MH3	Deposit	Friable light brown and orange clay with frequent small-medium rounded stones found at 0.7m depth from top of tarmac. 1m plus thickness.	Natural subsoil
20	Pipe trench NE MH5	Deposit	Black mottled grey with (019) backfill abundant coal, rare red brick fragments	Possibly relates to use of land as blacksmiths
21	Pipe trench off MH3	Deposit	Firm mid-brown clay with coal inclusions. 0.2m-0.3m thick.	Natural subsoil
22	Pipe trench off MH3	Deposit	Firm yellow clay with frequent blonde sandstone inclusions. 0.06m-0.10m thick	? Demolition from [023]
23	Pipe trench off MH3	Structure	Linear yellow sandstone wall. 1.47m wide runs east to west across pipe trench. 2.2m x1.47m exposed extents. Irregular blonde sandstone. Located approx. 10m north of MH5.	Smithy Wall
24	Pipe trench off MH3	Deposit	Concrete 0.10m thick with bitumen coating 1m wide across pipe trench. Has grooves. Reminiscent of gripping for machine base.	Mechanics surface c20th.
25	Pipe trench off MH3	Deposit	Mortar from [023] wall stonework.	Mortar bonding for [023]
26	Pipe trench off MH3	Deposit	Loose and compacted mixed ashy deposit over [023]. 0.05m thick.	Demolition deposit?
27	Pipe trench off MH3	Deposit	Loose mix of (014) and (019) brown and orange mottled with purple tinge sandy clay. Contains animal bone. 0.2m thick.	Fill of [028] animal bone dump.
28	Pipe trench off MH3	Cut	Unknown full extents in plan view. 1m deep. Filled by (027)	Cut for dump material.

Context	Area/ Trench	Type	Description	Interpretation
29	Pipe trench off MH3	Surface	Layer of red bricks some are glazed white. Located 0.2m from tarmac surface. Shallow, each brick 0.23 x 0.11 x 0.1m	Possible working / road surface
30	Pipe trench off MH3	Surface	Concrete 0.1m thick x 6m wide extent. Grooved on upper surface.	Possible working / road surface
31	S side Burn	Deposit	Loose black ash / cinder	Waste from smithy
32	S side Burn	Deposit	Turf capped 50 mm depth of black/grey silt with ash, rootlets and frequent modern detritus	Turf / topsoil
33	S side Burn	Deposit	Stretch of degraded sandstone some 2.3m long within (011) some 1.64m below surface, at least two distinct blocks each some 300mm wide, upto 500mm long and 200mm thick. No bonding or mortar present.	Demolition material
34	VOID			
35	S side Burn	Deposit	Concrete and sandstone fragments some 600mm by 800mm in plan adjacent to concrete floor.	N wall of smithy?
36	S side Burn	Deposit	Loose dark brown sandy clay containing white glaze pottery, red brick fragments and salt-glazed drain fragments. Up to 900mm in depth on S edge of burn bank, E of footbridge. Retained by [038] to north.	Modern dump of material
37	S side Burn	Deposit	Loose light brown clayey sand with angular and sub rounded small to medium stone inclusions. Sediment some 350mm thick, underlying (032).	Modern dump of material
38	S side Burn	Deposit	Wall composed of squared sandstone blocks, mortared forming a single skin standing at water's edge some 1 to 1.5m high with at least 8 courses visible.	Revetment wall for burn
39	N side Burn	Deposit	Soft mid-dark brown silty sand gravel capped by thin turf approximately 200mm thick.	Turf/topsoil
40	N side Burn	Deposit	Mid-brown silty clay with modern pottery, slate, brick fragments and glass.	Modern dump of material
41	N side Burn	Deposit	Wall, 2 courses of double skinned construction composed of mortared blonde sandstone blocks with rubble core (bonding material (049)). Orientated N-S but truncated by Manhole to N and sewer pipe to SE.	Probable C19 th wall
42	N side Burn	Deposit	800mm broad belt of conglomerate of unworked blonde sandstone, concrete (046) and mortar (047) that appears to form a wall orientated NNW–SSE within trench. Full depth of structure not exposed due to excavation limits, may be bedded onto bedrock. Truncated to N by plastic pipe trench and	Probable C18 th – C19 th wall

Context	Area/ Trench	Type	Description	Interpretation
			W/SW side by older pipe trench.	
43	N side Burn	Deposit	Modern Manhole of red mortared brick 1m square in plan and 1.5m deep.	Modern Manhole
44	N side Burn	Deposit	Modern Manhole of red mortared brick 1m square in plan and 1.5m deep.	Modern Manhole
45	N side Burn	Deposit	Blonde sandstone bedrock	Bedrock
46	N side Burn	Deposit	Light grey bonding material – possible concrete	Possible concrete
47	N side Burn	Deposit	Friable sandy mortar	Mortar
48	N side Burn	Deposit	Light to mid-brown silty sand with no visible inclusions infilling voids within [042].	Material that has percolated into fabric of [042]
49	N side Burn	Deposit	Light Brown sand present within and under [041].	Degraded mortar.
50	N side Burn	Deposit	Soft mid orange sand with no visible inclusions, under [041]	Natural sand subsoil?
51	Pipe trench	Deposit	Two large cylindrical tanks	Probable fuel tanks relating to use of area as a haulage yard

Sample Register

Sample No.	Context	Sample Type	Description / Quantity	Excavator	Date
001	025	Bulk	1 x bag of mortar sample	DG	11/07/12
002	030	Bulk	1 x bag brick sample (glazed)	DG	12/07/12
003	042	Bulk	2 x bag stone sample	DG	10/08/12
004	046	Bulk	1 x bag concrete sample	DG	10/08/12
005	047	Bulk	1 x bag of mortar sample	DG	10/08/12
006	048	Bulk	1 x bag stone sample	DG	10/08/12
007	049	Bulk	1 x bag of mortar sample	DG	10/08/12
008	050	Bulk	1 x bag of sediment sample	DG	10/08/12

Finds Register

Find No.	Context No.	Material Type	Description	Excavator	Date
001	013	Metal	Horseshoe	DG	
002	014	Ceramic	Brick Fragment	DG	
003	020	Ceramic	2 x Brick Fragments	DG	
004	026	Metal	2 x Iron nails	DG	
005	026	Metal	Fragment copper	DG	
006	026	Metal	Pos. Corroded welders goggles	DG	
007	014	Ceramic	2 x Modern ceramics	DG	
008	022	Ceramic	2 x Modern ceramics	DG	
009	022	Metal	Copper coin	DG	
010	022	Metal	Fragments copper	DG	
011	022	Ceramic	Modern ceramic	DG	
012	025	Glass	Fragments glass	DG	
013	027	Bone	Multiple animal bone fragments	DG	
014	036	Bone	Animal bone fragment	DG	
015	036	Ceramic	2 x salt-glazed drain pipe fragments	DG	
016	016	Ceramic	2 x Modern ceramic fragments	DG	
017	017	Ceramic	Multiple modern ceramic fragments	DG	
018	050	Ceramic	Modern ceramic fragment	DG	

Photographic Register

Image No.	Digital	Description	From	Date
1	98	General Pre-Ex Shot	SW	CH 13/06/12

Image No.	Digital	Description	From	Date
2	99	General Working Shot	SE	CH 13/06/12
3	100	General Working Shot	NE	CH 13/06/12
4	101	S Facing Section showing (001),(002), (003) and (004)	NE	CH 13/06/12
5	102	S Facing Section showing (001),(002), (003) and (004)	NE	CH 13/06/12
6	103	General Working Shot	SW	CH 13/06/12
7	104	Shot showing (001),(002), (003) and (004) and Tr. Line (007)	SW	CH 13/06/12
8	105	Shot showing (001),(002), (003), (004) and (006)	NE	CH 13/06/12
9	106	Shot showing (008), [009], and (010)	N	CH 13/06/12
10	107	Shot showing (008), [009], and (010)	N	CH 13/06/12
11	108	Shot showing (008), [009], and (010)	N	CH 13/06/12
12	109	Showing excavation through (011)	N	CH 13/06/12
13	110	Showing (011) in section and (012)	N	CH 13/06/12
14	111	Showing (011) in section and (012)	N	CH 13/06/12
15	112	Void	-	KS 22/06/12
16	113	Boxed trench working shot	SSW	KS 22/06/12
17	114	Boxed trench working shot (011)/(012)	NNE	KS 22/06/12
18	115	Boxed trench working shot (011)/(012)	NNE	KS 22/06/12
19	116	Boxed trench working shot (011)/(012)	Above	KS 25/06/12
20	117	General shot of trench area	SW	KS 25/06/12
21	118	Working Shots 300mm deep	SW	KS 25/06/12
22	119	Working Shots 600mm deep	SW	KS 25/06/12
23	120	Working Shots 1000mm deep	SW	KS 25/06/12
24	121	NW facing section of pipe cut	NW	KS 25/06/12
25	122	General shot of pipe cut - Portrait	NE	KS 25/06/12
26	123	General shot of pipe cut - Landscape	NE	KS 25/06/12
27	124	SE facing section of pipe cut	SE	KS 25/06/12
28	125	General shot of footbridge over river	NNW	KS 25/06/12
29	126	Working shotinlay of box shoring	SSW	KS 25/06/12
30	127	Geneeral shot of footbridge over river	NNW	KS 25/06/12
31	128	Looking uphill on N side of footbridge	S	KS 25/06/12
32	129	Looking west on N side of footbridge	E	KS 25/06/12
33	130	General shot of c.1943 bridge	W	KS 25/06/12
34	131	Founds under revetment for river	ESE	KS 25/06/12
35	132	Smithey outfall from footbridge	NE	KS 25/06/12
36	133	Close-up of c.1943 bridge	WSW	KS 25/06/12
37	134	General shot of c.1943 bridge	W	KS 25/06/12
38	135	made up ground on S edge of river	N	KS 25/06/12

Image No.	Digital	Description	From	Date
39	136	General shot of c.1943 bridge	SW	KS 25/06/12
40	137	Close up of stones (from bridge construction?)	N	KS 25/06/12
41	138	Base of pipe trench	NE	KS 25/06/12
42	139	View from fort; section of Antonine Wall & Ditch	SE	DG 26/06/12
43	140	Section of Ant. Wall (behind railings & ditch)	SE	DG 26/06/12
44	141	Antonine Ditch (uphill toward Roman Fort)	NW	DG 26/06/12
45	142	Antonine Ditch heading towards site	SE	DG 26/06/12
46	143	Antonine Wall section and Ditch	NW	DG 26/06/12
47	144	Antonine ditchheading to Roman Bridge	SE	DG 26/06/12
48	145	View of wall and ditch looking towards fort	NW	DG 26/06/12
49	146	As Above from site (area North of river)	NW	DG 26/06/12
50	147	As Above from area where man-hole will be	NW	DG 26/06/12
51	148	East facing section of pipe trench in car park	E	DG 26/06/12
52	149	Sandstone wall [015] within Trial trench	NW	DG 26/06/12
53	150	As above zoomed in	NW	DG 26/06/12
54	151	As above showing sewer to the Norht	S	DG 26/06/12
55	152	As above (E end) (Shows stonework)	S	DG 26/06/12
56	153	Sandstone wall [015] N facing elevation	N	DG 26/06/12
57	154	As above	NW	DG 26/06/12
58	155	General Location of trial-trench	NW	DG 26/06/12
59	156	As above	SW	DG 26/06/12
60	157	Cont. excavation of pipe trench at manhole 3	SW	DG 26/06/12
61	158	West facing section of MH3 pipe trench	W	DG 26/06/12
62	159	pipe trench off MH3 general disturbance	SW	DG 27/06/12
63	160	As above - services showing metal exposed object	SW	DG 27/06/12
64	161	As above zoomed in - possible bomb!	SW	DG 27/06/12
65	1	General ext. of pipe trench to west exposing pipes	SW	DG 29/06/12
66	2	As above	SSW	DG 29/06/12
67	3	Shows possible cut through original (014) ground for tank	SSW	DG 29/06/12
68	4	Location of shot above shot	SSW	DG 29/06/12
69	5	Showing 2 diesel tanks - MH3 pipe trench	SW	DG 29/06/12
70	6	As above zoomed in	SW	DG 29/06/12
71	7	Location shot	SW	DG 29/06/12
72	8	As above; zoomed in	SE	DG 29/06/12
73	9	General, backfilled MH3 & some of pipe trench	NE	DG 29/06/12
74	10	Location shot; pipe trnch(MH3) with tanks	N	DG 29/06/12
75	11	Extension of North end of pipe trench	SSE	DG 02/07/12

Image No.	Digital	Description	From	Date
76	12	As above, showing extent of services disturbance	SE	DG 02/07/12
77	13	As above; previous location of drain	SE	DG 02/07/12
78	14	As above; west facing section - general	SW	DG 02/07/12
79	15	As above; showing services	WSW	DG 02/07/12
80	16	Showing (014) truncated (?) in west facing section just before 1st tank	W	DG 02/07/12
81	17	West facing section pipe trench - cut of tank through (014)	W	DG 02/07/12
82	18	General, working shot of MH4	SW	DG 02/07/12
83	19	West facing section MH4	W	DG 02/07/12
84	20	General pipe trench and MH4 working shot	N	DG 02/07/12
85	21	General MH4 (tank 1 to rear of shot)	S	DG 02/07/12
86	22	West facing section MH4	NW	DG 02/07/12
87	23	East facing section MH4	SE	DG 02/07/12
88	24	location shot MH4	WNW	DG 02/07/12
89	25	As above	SW	DG 02/07/12
90	26	Shows subsoil (011) pipe trench excavated between MH4 and 5; tank 2	SW	DG 03/07/12
91	27	General shot of excavations	NNW	DG 03/07/12
92	28	As above; close up	NNW	DG 03/07/12
93	29	As above; close up	NNW	DG 03/07/12
94	30	Location shot, pre-ex of MH5	NE	DG 03/07/12
95	31	General end of day	N	DG 03/07/12
96	32	Working shots Test Hole 2	NNW	KS 04/07/12
97	33	Working shots Test Hole 2	W	KS 04/07/12
98	34	Close up c.19th drain - TH2	NNW	KS 04/07/12
99	35	East facing section TH2	E	KS 04/07/12
100	36	East facing section TH2	NNE	KS 04/07/12
101	37	TH2 general Shot	N	KS 04/07/12
102	38	TH2 east facing section	E	KS 04/07/12
103	39	TH2 West facing section	W	KS 04/07/12
104	40	TH2 general shot full depth	N	KS 04/07/12
105	41	General Shot TH1	W	KS 04/07/12
106	42	TH1 Bricks	W	KS 04/07/12
107	43	TH1 concrete	W	KS 04/07/12
108	44	TH1 concrete	W	KS 04/07/12
109	45	TH1 concrete	W	KS 04/07/12
110	46	TH1 south facing section	N	KS 04/07/12

Image No.	Digital	Description	From	Date
111	47	TH1 south facing section	N	KS 04/07/12
112	48	Working shot TH1	SW	KS 04/07/12
113	49	General shot TH1	NW	KS 04/07/12
114	50	General shot TH1	NW	KS 04/07/12
115	51	South facing section TH1	N	KS 04/07/12
116	52	SE facing section of pipe cut	SE	KS 04/07/12
117	53	SE facing section pipe trench NE of MH 5	SE	DG 09/07/12
118	54	NW facing section pipe trnch NE of MH5	NW	DG 09/07/12
119	55	NW facing section pipe trnch NE of MH5	NW	DG 09/07/12
120	56	NW facing section pipe trnch NE of MH5	NW	DG 09/07/12
121	57	SE facing section of pipe trench NE of MH5	SE	DG 09/07/12
122	58	As above (subsoil 011) is brown clay	SE	DG 09/07/12
123	59	As above (subsoil 011) is brown clay	ENE	DG 09/07/12
124	60	General Shot; status of excavation/ compound	SE	DG 10/07/12
125	61	General Shot; status of excavation/ compound	SE	DG 10/07/12
126	62	Topmost layers (Tarmac (001) & hardcore)	NE	DG 10/07/12
127	63	Brown deposit (014) immediately below this brick deposit (020) mixed with sand - disturbed	NE	DG 10/07/12
128	64	SE facing section of pipe trench NE of MH5	SE	DG 10/07/12
129	65	Void	-	DG 10/07/12
130	66	SW facing section pipe trench NE of MH5	SE	DG 10/07/12
131	67	SE facing section pipe trench NE of MH 5	SE	DG 10/07/12
132	68	Glacial boulder removed from (019) above section	-	DG 10/07/12
133	69	As above	-	DG 10/07/12
134	70	Showing area; boulder removed from	SE	DG 10/07/12
135	71	As above; SE Facing section	SE	DG 10/07/12
136	72	Boulder in spoil heap	-	DG 10/07/12
137	73	Shot of upper layers of pipe trench	ESE	DG 10/07/12
138	74	Shot of brick surface [029] and [023]	SE	DG 10/07/12
139	75	Shot of [029]	SE	DG 10/07/12
140	76	Shot of wall [023]	NW	DG 10/07/12
141	77	Shot of wall [023] SE end	NW	DG 10/07/12
142	78	Shot of wall [023]	WSW	DG 10/07/12
143	79	As above	NW	DG 10/07/12
144	80	As above	N	DG 10/07/12
145	81	Wall [023] excavtion of demolition (022)	SE	DG 10/07/12
146	82	Glass stuck to bottom of [023] stonework	-	DG 10/07/12
147	83	Wall [023] (014) to the south	SW	DG 10/07/12

Image No.	Digital	Description	From	Date
148	84	Wall [023] SE end	NW	DG 10/07/12
149	85	Wall [023] NW end	NW	DG 10/07/12
150	86	Wall [023] (014) to the south	SW	DG 10/07/12
151	87	West facing section of trench and wall [023]	W	DG 10/07/12
152	88	As above	WNW	DG 10/07/12
153	89	East facing section [023]	E	DG 10/07/12
154	90	East facing section [023] Nw end	NW	DG 10/07/12
155	91	As above; location shot	E	DG 10/07/12
156	92	Brick surface [029]	N	DG 11/07/12
157	93	As above; zoomed in	N	DG 11/07/12
158	94	West facing section pipe trench- demo material (022)	W	DG 11/07/12
159	95	As above; zoomed in	W	DG 11/07/12
160	96	Wall [023]; demo material (022) & (024)	N	DG 11/07/12
161	97	Wall [023]	SSE	DG 11/07/12
162	98	Wall [023]	NW	DG 11/07/12
163	99	Wall [023]; demo (022); floor (024) to rear	S	DG 11/07/12
164	100	Wall [023]; demo (022)	S	DG 11/07/12
165	101	Concrete floor (024)	S	DG 11/07/12
166	102	General, west facing section and wall [023]	W	DG 11/07/12
167	103	West facing section and wall [023]	W	DG 11/07/12
168	104	East facing section and floor (024)	SW	DG 11/07/12
169	105	General east facing section (wall [023])	NE	DG 11/07/12
170	106	General shot removal of (022)	SW	DG 11/07/12
171	107	Shows floor (024) after removal of 9022) on NE side of [023]	SW	DG 11/07/12
172	108	Shows floor (024) after removal of 9022) on NE side of [023]	NW	DG 11/07/12
173	109	NW end [023] removed; (024) removed; (014) below	SW	DG 11/07/12
174	110	As above zoomed in	SW	DG 11/07/12
175	111	(014) below [023] and (024)	SW	DG 11/07/12
176	112	Bones (animal) at base of trench	SE	DG 11/07/12
177	113	As above zoomed in	SE	DG 11/07/12
178	114	East facing section; hole for animal bones bottom right	E	DG 11/07/12
179	115	East facing section; hole for animal bones bottom right	W	DG 11/07/12
180	116	hole for bones, zoomed in	N	DG 11/07/12
181	117	Hole for animal bones & west facing section	W	DG 11/07/12
182	118	Base of trench ; (019)	SW	DG 11/07/12
183	119	Base of trench ; (019)	W	DG 11/07/12

Image No.	Digital	Description	From	Date
184	120	Concrete floor (030) N end trench	N	DG 11/07/12
185	121	West facing section; (030) at base	NW	DG 11/07/12
186	122	Demo material (022) below (030)	SE	DG 11/07/12
187	123	Void	-	DG 11/07/12
188	124	(014) below(022), with modern red ceramic	SE	DG 12/07/12
189	125	Shows concrete floor (024) extending NE	SE	DG 12/07/12
190	126	Shows concrete floor (024) extending NE	SE	DG 12/07/12
191	127	Shows demo under layer (022) in section above	SE	DG 12/07/12
192	128	General; SW facing section trench base	SSE	DG 12/07/12
193	129	General site shot; N end of sports centre	E	DG 12/07/12
194	130	General Location shot- end of pipe trench	ENE	DG 12/07/12
195	131	General Location shot- end of pipe trench	N	DG 12/07/12
196	132	General Location shot- end of pipe trench	SE	DG 12/07/12
197	1	General shot showing (019)	S	DG 30/07/12
198	2	Section showing (030) & (019)	SW	DG 30/07/12
199	3	General view of 2 nd slot	S	DG 30/07/12
200	4	Section of 2 nd slot	SW	DG 30/07/12
201	5	Section showing demo and (031)	S	DG 31/07/12
202	6	Section showing demo and (031)	E	DG 31/07/12
203	7	Section showing demo and (031)	S	DG 31/07/12
204	8	Seam of sand in (019)	E	DG 31/07/12
205	9	Slot through footpath showing (031)	N	DG 1/08/12
206	10	Slot through footpath showing (031)	E	DG 1/08/12
207	11	Base of trench showing (033) and (034)	S	DG 1/08/12
208	12	Section showing (031)	S	DG 1/08/12
209	13	(035)	E	DG 1/08/12
210	14	Section through (035)	E	DG 1/08/12
211	15	General view of slot	S	DG 1/08/12
212	16	General view of slot	S	DG 2/08/12
213	17	General view of slot	SW	DG 2/08/12
214	18	General view of slot	N	DG 2/08/12
215	19	Base of trench showing (031)	W	DG 2/08/12
216	20	Base of trench showing (031)	W	DG 2/08/12
217	1	General setting N of burn	SE	DG 7/08/12
218	2	General setting N of burn	SSW	DG 7/08/12
219	3	General setting N of burn	W	DG 7/08/12
220	4	General setting N of burn	W	DG 7/08/12

Image No.	Digital	Description	From	Date
221	5	View of potential vallum	NW	DG 7/08/12
222	6	View of potential vallum	NW	DG 7/08/12
223	7	Boundary stone on N edge of potential vallum	WNW	DG 7/08/12
224	8	View of potential vallum	E	DG 7/08/12
225	9	General setting N of burn	S	DG 7/08/12
226	10	Excavation on S side burn	E	DG 8/08/12
227	11	Excavation on S side burn	SE	DG 8/08/12
228	12	Excavation on S side burn	SE	DG 8/08/12
229	13	Section below footbridge	E	DG 8/08/12
230	14	MH2 [044] and Bridge	NW	DG 8/08/12
231	15	MH1 [043] and Bridge	WNW	DG 8/08/12
232	16	MH1 [043] and Bridge	W	DG 8/08/12
233	17	Area excavated on N side of bridge	SSW	DG 8/08/12
234	18	Area excavated on N side of bridge	SSW	DG 8/08/12
235	19	Area excavated on N side of bridge	WSW	DG 8/08/12
236	20	Area excavated on N side of bridge	SE	DG 8/08/12
237	21	Area excavated on N side of bridge	SE	DG 8/08/12
238	22	View to S side of bridge	NE	DG 8/08/12
239	23	Area excavated on N side of bridge	NE	DG 8/08/12
240	24	Area excavated on N side of bridge	SE	DG 8/08/12
241	25	Area excavated on N side of bridge	SE	DG 8/08/12
242	26	Area excavated on N side of bridge	NW	DG 8/08/12
243	27	Section of Area 2	NW	DG 8/08/12
244	28	General of Area 2	WNW	DG 8/08/12
245	29	General of Area 2	W	DG 9/08/12
246	30	Section of Area 2	E	DG 9/08/12
247	31	Section of Area 2	E	DG 9/08/12
248	32	View of wall [041]	NNW	DG 9/08/12
249	33	View of wall [041]	NNW	DG 9/08/12
250	34	View of wall [041]	E	DG 9/08/12
251	35	View of wall [041]	E	DG 9/08/12
252	36	View of wall [042]	NNW	DG 9/08/12
253	37	View of wall [042]	N	DG 9/08/12
254	38	View of wall [042]	W	DG 9/08/12
255	39	View of wall [042]	E	DG 9/08/12
256	40	View of [041] and MH [043]	SE	DG 9/08/12
257	41	Manhole [043]	S	DG 9/08/12

Image No.	Digital	Description	From	Date
258	42	View of [043][041][042] and to rear [044]	W	DG 9/08/12
259	43	View of [042] and [044]	W	DG 9/08/12
260	44	View of [042] and [044]	W	DG 9/08/12
261	45	Bedrock [045]	SSW	DG 10/08/12
262	46	Bedrock [045]	S	DG 10/08/12
263	47	Wall [042]	N	DG 10/08/12
264	48	Wall [042]	NW	DG 10/08/12
265	49	(045), [043], [044], [041] and [042]	ESE	DG 10/08/12
266	50	(045), [043] and [042]	S	DG 10/08/12
267	51	(045), [043], [044] and [042]	SW	DG 10/08/12
268	52	(045), [044] and [042]	WNW	DG 10/08/12
269	53	(045), [044] and [042]	NNE	DG 10/08/12
270	54	(045), [043] and [042]	S	DG 10/08/12
271	55	Orange sand below [041]	SE	DG 10/08/12
272	56	Orange sand below [041]	SE	DG 10/08/12
273	57	Wall [042]	N	DG 10/08/12
274	58	Wall [042]	E	DG 10/08/12
275	-	Wall [042]	W	DG 10/08/12
276	59	Wall [042]	N	DG 10/08/12
277	60	Wall [042]	NNE	DG 10/08/12
278	61	Wall [042]	NNE	DG 10/08/12

Appendix 2: Discovery & Excavation in Scotland

LOCAL AUTHORITY:	West Dunbartonshire
PROJECT TITLE/SITE NAME:	Roman Road Sewer Repairs
PROJECT CODE:	RA12009
PARISH:	Duntocher
NAME OF CONTRIBUTOR:	Diane Gorman
NAME OF ORGANISATION:	Rathmell Archaeology Limited
TYPE(S) OF PROJECT:	Monitoring
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	Wall, Structure
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NS 49305 72653
START DATE (this season)	29 th May 2012
END DATE (this season)	10 th August 2012
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (may include information from other fields)	<p>A programme of archaeological monitoring was carried out in respect to the sewer pipe repairs at Roman Road, Duntocher, West Dunbartonshire.</p> <p>The archaeological works were designed to monitor the excavation of pipe trenches and the construction of manholes for the a new section of sewer main. The proximity of the works to the line of the Antonine Wall prompted the programme of archaeological monitoring.</p> <p>In the course of the works extensive areas of made ground and elements of 19th and 20th century structures were encountered to the south of the Duntocher Burn. To the north of the burn additional walls were located, while only short sections of these walls were exposed they may be of earlier origin than the 19th century. No significant archaeological finds were recovered during the course of these works.</p>
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Scottish Water
ADDRESS OF MAIN CONTRIBUTOR:	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU
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ARCHIVE LOCATION (intended/deposited)	Report to West of Scotland Archaeology Service and archive to RCAHMS Collections.

Contact Details

49. Rathmell Archaeology can be contacted at our Registered Office or through the web:

Rathmell Archaeology Ltd	www.rathmell-arch.co.uk
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Kilwinning	t.: 01294 542848
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50. The West of Scotland Archaeology Service can be contacted at their office or through the web:

West of Scotland Archaeology Service	www.wosas.org.uk
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