

NABO – URGENT ISSUES

05 May 2010

30.1.2 North West

30.1.2.1 Lancaster Canal

30.1.2.1.1 Dredging – Randal's survey in progress 09/10. Spot dredging hot spots is planned for 2010/11. – **IN HAND 2010**

30.1.2.2 Leeds & Liverpool Canal

30.1.2.2.1 Lock Paddle repairs – It is our intention to have our in house M&E team concentrate on paddle gearing and similar repairs. Yes more details are needed if there are specific gates that need attention. – **IN HAND 2010/TO BE INVESTIGATED**

30.1.2.2.2 Vegetation – Planned for 09/10, a large scale Vegetation project is under way over the winter period by direct labour and sub-contractors. Planned for 2010/11 – within national maintenance contracts which will also include tree management. - **IN HAND 2010**

30.1.2.2.3 Swing Bridges - Maintenance schedules reviewed with M&E team and new contractor schedules are now in place. Most will have been serviced by March 2010. Contracted regular maintenance and servicing is within plan for 10/11. More details needed if there are specific bridges causing concern - **IN HAND 2010**

30.1.2.2.4 Lock gate replacement – leaky gates (2) - Gates are being replaced or refurbished on the Wigan flight, at Johnson's Hill, Bank Newton, Gargrave, and at Newley Bridge - all have been or will be completed by March 2010. 5 more sets of gates are being planned to be replaced or refurbished in 2010 / 11 - yet to be decided. – **IN HAND 2010**

30.1.2.2.5 Leigh Branch - clearance of rubbish in the canal/ making the area more attractive – Litter removal is planned via maintenance plans, however resources are limited. Call us and we will attend to it. – **TO BE INVESTIGATED**

30.1.2.2.6 West Canal Facilities - No plans for BW to fund any additional service points at this time. – **DISAGREE/NO PLANS FOR ACTION**

30.1.2.2.7 Rufford Arm

30.1.2.2.7.1 Damaged Paddles – In house M&E team to concentrate on paddle gearing and similar repairs within 2010/11 plan. – **IN HAND 2010**

30.1.2.2.7.2 Upgrade anti-vandal gear – In house M&E team to concentrate on paddle gearing and similar repairs within 2010/11 plan. – **IN HAND 2010**

30.1.2.2.8 Rodley – cruiser mooring on visitor mooring – Need more details.

30.1.2.2.9 Wigan lock flight (4) gates & paddle gear – see 30.1.2.2.4 above

30.1.2.2.10 Blackburn to Barrowford: clearance of rubbish in the canal/ making the area more attractive – 09/10 works by BW direct labour but limited resources. In 10/11 plans to increase via project with probation service – linked with Burnley Council.

30.1.2.2.11 Blackburn are – dredging – Dredging has been completed in 2009. – **COMPLETED**

30.1.2.2.12 Gargrave, Bank Newton etc. - Lock gates (3) – See 30.1.2.2.4

30.1.2.2.13 Gargrave, Bank Newton etc. Banking - too much washed away and roped off – In excess of 100 metres of wash wall have been re-built at Gargrave. – **COMPLETED**

30.1.2.2.14 Gargrave lock pounds – Need more details.

30.1.3 North East

30.1.3.1 Ripon Canal, River Ure, River Ouse

30.1.3.1.2 Linton Lock: in need of urgent repair – The problem of difficult d/s gate operation at Linton and Westwick Locks will be addressed by the installation of floatation tanks to the gate bars. Work to be carried out in the 10/11 GWP. If this is successful, it will be applied at Fall Ings Lock in 11/12. – **IN HAND 2010**

30.1.3.2 Aire & Calder Navigation

30.1.3.2.1 Castleford Junction Sanitary Station – pumpout breakouts/blocked sewers – repairs to the pump out and unblocking of sewer pipes will be carried out in the 10/11 GWP. – **IN HAND 2010**

30.1.3.3 Calder & Hebble Navigation

30.1.3.3.1 Locks (2)

30.1.3.3.2 Falling Lock gates – difficult to maneuver - Castleford Sanitary Station – repairs to the pump out and unblocking of sewer pipes will be carried out in the 10/11 GWP.

- IN HAND 2010/ TO BE INVESTIGATED

30.1.3.4 Sheffield & South Yorkshire Navigation

30.1.3.4.1 Rotherham Town lock – Dredging required - ‘High spots’ are currently being addressed and will be completed by end of 09/10. Arrangements will then be made to accompany a commercial vessel through the length to check that adequate draft has been achieved. You are aware of the bigger SYN dredging issue.

- COMPLETED

30.1.3.4.3 Barnby Dun Moorings - Replacement of the uneven capping to the bank edge piling, over the full length of the mooring, will be carried out in the 10/11 GWP. – IN HAND 2010

30.1.3.4.4 Keadby lock entrance - a review of the operating procedure and, if necessary, further lock keeper training will be carried out before April 2010.

– TO BE INVESTIGATED

30.1.3.5 Huddersfield Broad Canal

30.1.3.5.1 Weed - Weed spraying will be included in the 10/11 GWP to manage the spread of invasive weeds. This could be a big issue for BW in 2010 and central will need to advise/carry out pilots on what alternatives are available. – IN HAND 2010

30.1.4 **Manchester and Pennine**

30.1.4.1 Rochdale Canal

30.1.4.1.1 Generally (4)

30.1.4.1.2 Minor bank leaks between Sowerby Bridge & Manchester - 43 leakage z4s currently in SAP. Major works completed this year, wider grouting projects too – COMPLETED/IN HAND 2010

30.1.4.1.6 Rochdale 9 – water levels too high (4) – There is no overflow above Manchester, and many of the locks do not have by-washes. Surplus water often weirs over the locks and we are not always able to strictly control the volumes of this. We are also obliged to provide a feed to the Bridgewater Canal. We do not have

funds to undertake any significant structural projects to improve this situation but will look at improving customer information. – **TO BE INVESTIGATED**

30.1.4.1.7 Manchester – Rochdale – rubbish in canal. We acknowledge this is a problem. We are in partnership with the City Council for litter collection which we undertake regularly.
– **IN HAND 2010**

30.1.4.2 Ashton Canal

30.1.4.2.1 All

30.1.4.3 Peak Forest Canal

30.1.4.3.3 Carr Swing Bridge 30 – mooring of live aboards by bridge causes obstruction for Bridge users. – Comments passed to enforcement team. – **TO BE INVESTIGATED**

30.1.4.3.4 Furness Bridge 31 – offside vegetation. – Has been completed – **COMPLETED**

30.1.4.3.6 Marple flight: Need Lock Landing bollards – lock bollards believed to comply with Minimum Safety Standard for flights. Reviewing and will complete any additional installations found to be required this summer. – **IN HAND 2010**

30.1.4.4 Huddersfield Narrow Canal

30.1.4.4.3 Lock 12? Doesn't equalize – Checked – found OK. – **DISAGREE/NO PLANS FOR ACTON**

30.1.4.4.4 Lock 6? Doesn't open – Checked – thought to be Ok – **DISAGREE/NO PLANS FOR ACTON**

30.1.4.4.5 Locks 21W & 22W – Not clear on the issue being raised.

30.1.4.5 Macclesfield Canal

30.1.4.5.5 Visitor Moorings (2) – No plans to install any new visitor moorings. – **DISAGREE/NO PLANS FOR ACTON**

30.1.4.5.7 Above Bosley Locks: towpath collapses thus difficulty mooring – Piling team to be formed 2010/11.

30.1.5 North Wales & Borders

30.1.5.1 River Weaver

30.1.5.1.1 Weston Marsh lock - Costs received February 2010 to recast and refit new components to repair Lock gate drive mechanism. However the Lock requires an overall upgrade and has been referred to the National Engineering team. – **IN HAND 2010**

30.1.5.2 Llangollen Canal

30.1.5.2.1 Overgrown towpath, sight lines at bridge hole – PPM work. – **IN HAND 2010**

30.1.5.2.2 Crumbling Bridges - £45k in plan, 3 bridges, however this problem is extensive due to water flow/boat traffic. We will continue with PPM work to try and minimise risk of failure but further expenditure in the future will certainly be required. – **IN HAND 2010**

30.1.5.2.3 & 30.1.5.2.4 Hurleston Top Lock Landing/Water point/Bottom lock refurbishment – Within the current stoppage programme – **IN HAND 2010**

30.1.5.2.5 Swanley No 2 Lock- voids behind chamber walls -scope of works needs to be identified with a CCTV survey to assess the full extent – **TO BE INVESTIGATED**

30.1.5.2.6 Grindley Brook Staircase Lock leaking – relining within stoppages in 2010/11 – **IN HAND 2010**

30.1.5.3 Montgomery Canal

30.1.5.3.1 Pound between Frankton Locks and Graham Palmer Lock – apparent leak -will keep monitoring, not considered a high risk at present.
– **DISAGREE/NO PLANS FOR ACTION**

30.1.5.3 Shropshire Union

30.1.5.4.1 Generally (2) - Too general

30.1.5.4.2 Chester

30.1.5.4.3.1 Lack of bollards on wide lock – Locks 2 and 3 – Difficulty in installing bollards, will need to review alternative options
– **TO BE INVESTIGATED**

30.1.5.4.3.2 3 rise and locks going down to Chester- Paddle refurbishment to be undertaken 2010 BP10 – **IN HAND 2010**

30.1.5.4.3.3 Old water let off into River Gowy – Barrier replacement – will investigate

30.1.5.4.4 Nantwich Embankment Gates- Gates have been purchased, plan to install in stoppages in 2010/11 BP10 – **IN HAND 2010**

30.1.5.4.5 Hack Green Locks –bottom gates leaking (2) – Stoppages BP10 – **IN HAND 2010**

30.1.5.4.6 Audlem Locks –Dredging between Locks 11/12 13/14 (2) - Notified to

Engineering Manager for 2010/11 but not confirmed yet
– TO BE INVESTIGATED

30.1.5.4.7 Audlem to Adderley lock flight dredging - Notified to Engineering Manager for 2010/11 but not confirmed yet. – IN HAND 2010

30.1.5.4.8 Embankments (9) esp. Shebdon- Major works to Shebdon, Wheaton Aston and Fox's bridge embankment in 2009/10 Major Works Completed 2009/10
– COMPLETED

30.1.5.4.9 Tyrley cutting landslips and vegetation –The high priority tree works will be undertaken in 2010/11 BP10. – IN HAND 2010

30.1.5.4.10 Water point at Tyrley Top Lock 5- Closed due to contaminated water supply, alternative water point to be installed at Goldstone Wharf in 2010 BP10 – IN HAND 2010

30.1.5.4.11- Cuttings

30.1.5.4.11.1 -Towpath lack of drainage- will be reviewed on priority basis – TO BE INVESTIGATED

30.1.5.4.11.2 - Overhanging Trees - Any high priority trees included in tree management work in 2010/11 BP10 – IN HAND 2010

30.1.5.5 Middlewich Branch

30.1.5.5.1 Cholmondeston Lock tail lock landing – Scope of works to be determined in 2010/11 with refurbishment in 2010/11 BP10 – IN HAND 2010

30.1.5.5.2 Minshull Lock and Landings – Scope of works to be determined in 2010/11 with refurbishment in 2010/11 BP10 – IN HAND 2010

30.1.5.5.3 Venetian Lock to Middlewich- Locks difficult- PPM work in 2010/11 will assess if improvement in operation BP10 – IN HAND 2010

30.1.6 West Midlands

30.1.6.1 Vegetation control – As part of our ongoing maintenance works. – IN HAND 2010



30.1.6.2 BCN

30.1.6.2.1 Old Main Line

30.1.6.2.1.1 Wolverhampton – Birmingham:dredging – **– TO BE INVESTIGATED**

30.1.6.2.2 Wyrley & Essington Canal

30.1.6.2.2.1 + 30.1.6.2.2.2 Wolverhampton to Sneyd/ Willenhall Area

- Much work completed to offside vegetation, spot dredging and weed clearance during 2009. **– COMPLETED**

30.1.6.3 Birmingham & Fazeley Canal

30.1.6.3.1 Minworth Locks – need dredging below bottom gates **– TO BE INVESTIGATED**

30.1.6.4 North Stratford Canal

30.1.6.4.1 Dredging – As part of dredging survey update (may be longer term investigations) **– TO BE INVESTIGATED**

30.1.6.4.2 Lift Bridges landings – bollards needed for single – handling **– IN HAND 2011/LATER**

30.1.6.4.3 Locks – leaky gates (2) = Empty Pounds – need a bit more detail to establish problem, but no significant leaks we are aware of. **– DISAGREE/NO PLANS FOR ACTION**

30.1.6.4.5 Off-side vegetation overhang - As part of ongoing maintenance works **– IN HAND 2010**

30.1.6.4.6 Lapworth Flight – Leak from a side wall on the down side of a lock's lower gates when the lock is full – Lower wall threatened by erosion - need detail on what lock (not given) but will Investigate **– TO BE INVESTIGATED**

30.1.6.4.7 Narrowed Bridge **– TO BE INVESTIGATED**

30.1.6.5 South Stratford Canal

30.1.6.5.1 Generally

30.1.6.5.2 Locks – Continuation of programme **– IN HAND 2011/LATER**

30.1.6.5.2.1 Generally

30.1.6.5.2.2 Poorly balanced gates – difficult to open - As part of waterway manager inspections **– TO BE INVESTIGATED**

30.1.6.5.2.3 Lapworth Bottom lock 27 – unbalanced gates difficult to open – High number replaced

each year, 7 this year – **IN HAND 2010**

30.1.6.5.3 Wilmcote Flight - Significant number of locks improved as part of major works in 2007 & 2009. Still some locks to do. – **COMPLETED/ IN HAND 2010**

30.1.6.6 Staffs & Worcs Canal

30.1.6.6.1 North end generally – dredging - Spot dredging crew are currently undertaking the work
– **IN HAND 2010**

30.1.6.6.2 Radford Bridge to Milford Bridge - No detail other than this, so no idea what problem is.
– **DISAGREE/NO PLANS FOR ACTION**

30.1.6.6.3 Radford Bridge 98 (2) - new fender system installed and dredging undertaken in
November 2009 – **COMPLETED**

30.1.6.6.4 Deptmore lock – dredging to east – At the time some dredging of Staffs & Worcs was
included in the major works pot – however this has
since been removed – **IN HAND 2011/LATER**

30.1.6.6.5 Otherton Locks?? – Better management (several pounds empty)
– **TO BE INVESTIGATED**

30.1.6.6.6 Wolverley Forge Bridge 21 – landslip – **TO BE INVESTIGATED**

30.1.6.6.7 Limekiln Bridge 17 – dredging – At the time some dredging of Staff & Worcs was
included in the major works pot, however this has since
been removed – **IN HAND 2011/LATER.**

30.1.6.7 Stourbridge Canal

30.1.6.7.1 Generally

30.1.6.8 Grand Union Canal

30.1.6.8.1 Birmingham Summit - Major spot dredging programme completed in 2006, water
levels could be down causing problem.
– **DISAGREE/NO PLANS FOR ACTION**

30.1.6.8.1.1 Dredging – **TO BE INVESTIGATED**

30.1.6.8.1.2 Litter in canal and on towpath - as part of ongoing maintenance works – **IN HAND
2010**

30.1.6.8.2 Grand Union towpath near Knowle – Bed rock makes piling impossible and other solutions are being investigated.
– TO BE INVESTIGATED

30.1.7 Central Shires

30.1.7.1 Caldon Canal

- 30.1.7.1.1 Generally – **DISAGREE/NO PLANS FOR ACTION**
- 30.1.7.1.2 Himalayan balsam everywhere. – **TO BE INVESTIGATED**
- 30.1.7.1.3 Vegetation (2)
 - 30.1.7.1.3.1 Towpath side – **IN HAND 2010**
 - 30.1.7.1.3.2 Offside – **IN HAND 2010**
- 30.1.7.1.4 Visitor Moorings (2) – **IN HAND 2011/LATER**
- 30.1.7.1.5 Large underwater obstacles (2) – **TO BE INVESTIGATED**
- 30.1.7.1.6 Etruria Staircase lock 1&2 – stiff paddles – **TO BE INVESTIGATED**
- 30.1.7.1.7 Engine lock 4 – leaks through lock wall & overflow onto towpath when full.
– **TO BE INVESTIGATED**

30.1.7.2 Trent & Mersey Canal

- 30.1.7.2.1 Greasing of lock mechanisms (2) – **COMPLETED**
- 30.1.7.2.6 Stoke on Trent locks – heavy – **TO BE INVESTIGATED**
- 30.1.7.2.7 Stoke -Great Haywood: Vegetation/bad visitor moorings – **TO BE INVESTIGATED**
- 30.1.7.2.8 Meaford Bank collapse – **COMPLETED**
- 30.1.7.2.9 Colwich lock : bottom gates (2) – **IN HAND 2010**
- 30.1.7.2.10 Fradley locks
 - 30.1.7.2.10.1 Wood end lock 20 – gates unbalanced (2) – **TO BE INVESTIGATED**
 - 30.1.7.2.10.2 One below Shadehouse impossible for one person – **TO BE INVESTIGATED**
- 30.1.7.2.11 Fradley: Rubbish facilities are not emptied frequently – **IN HAND 2010**
- 30.1.7.2.12 Fradley to Branston - several locks with unbalanced bottom gates – **TO BE INVESTIGATED**
- 30.1.7.2.13 Collapsed Lock Landings on lower T&M – **TO BE INVESTIGATED**
- 30.1.7.2.15 Wynchnor Lock 11: leaking bottom gates – **IN HAND 2010**
- 30.1.7.2.16 Barton Turn Lock 10: Unguarded by-wash exit – **IN HAND 2011/LATER**
- 30.1.7.2.17 Stenson Lock 6 - heavy gates & paddle gear – **TO BE INVESTIGATED**
- 30.1.7.2.18 Swarkestone Lock 5 - heavy gates & paddle gear – **TO BE INVESTIGATED**
- 30.1.7.2.19 Weston Lock 4 – **TO BE INVESTIGATED**
 - 30.1.7.2.19.1 Heavy gates & paddle gear – **TO BE INVESTIGATED**
 - 30.1.7.2.19.2 Underwater obstruction – **TO BE INVESTIGATED**

- 30.1.7.2.20 Aston Lock 3 - heavy gates and paddle gear – **TO BE INVESTIGATED**
- 30.1.7.2.21 Willington - check moorings to prevent overstaying – **TO BE INVESTIGATED**

30.1.7.2 River Soar

- 30.1.7.3.2 Kegworth deep lock – **DISAGREE/NO PLANS FOR ACTION**
- 30.1.7.3.3 S. of Pilings lock, through Mountsorrell – weed & Vegetation in river – **DISAGREE/NO PLANS FOR ACTION**
- 30.1.7.3.4 Leicester – **TO BE INVESTIGATED**

30.1.7.4 Ashby Canal

- 30.1.7.4.1 Generally (4) – **TO BE INVESTIGATED**
- 30.1.7.4.2 Dredging – **TO BE INVESTIGATED**

30.1.7.5 Coventry Canal

- 30.1.7.5.1 Generally – **TO BE INVESTIGATED**
- 30.1.7.5.2 Bridges – **TO BE INVESTIGATED**
- 30.1.7.5.3 Overhanging vegetation/growth on offside – **IN HAND 2010**
- 30.1.7.5.4 Hawksbury Junction to Coventry Basin – **IN HAND 2010**
- 30.1.7.5.5 Glascote Top lock 12 : top gate – **IN HAND 2010**
- 30.1.7.5.6 Atherstone Flight ground paddles – **TO BE INVESTIGATED**

30.1.8 East Midlands

- 30.1.8.1 Vegetation Control – Not specific enough, but we appreciate vegetation is a major issue and this will be reflected in our business plan. – **IN HAND 2010**

30.1.8.2 Chesterfield Canal

- 30.1.8.2.1 Restore out-of-use paddles – We are aware of a number of paddles out-of-use and have plans to repair them all. Some require stoppages so we will plan these around gate replacements, but some of the more straightforward ones will be carried out in the next few months, including two in January at Forest locks. – **IN HAND 2010**

30.1.8.3 Erewash Canal

- 30.1.8.3.1 Anti-vandal locks inoperable – Currently being addressed (water conservation locks) planned completion date 31st March 2010. – **COMPLETED**
- 30.1.8.3.2 Lock paddles stiff – Ground paddle repairs are being addressed - planned end date 31st

March 2010 – **COMPLETED**

30.1.8.3.2 Trent lock 60: Maintenance esp. fixed ladders – Both lock ladder tops at Trent Lock were replaced in May 2009 as the old style were prone to damage. Site visited on 18th December 2009 to check current condition – all correct & secure, will plan to refresh anti slip April 2010. – **COMPLETED**

30.1.8.4 River Trent

30.1.8.4.1 Gunthorp on Trent: Broken boaters' facilities – Plans are in place to install a new septic tank at Gunthorp and Hazelford locks. The age of the existing septic tanks is the problem at these sites. A new facility was open at Meadow Lane in November 2009. – **IN HAND 2010**

30.1.8.4.2 Hazelford Lock – No specific but assumed to be septic tanks – see above answer.

30.1.8.5 Fossdyke Navigation

30.1.8.5.1 Torksey lock paddles – these paddles are due to be addressed in the stoppage at the Lock programme for early Feb 2010 – **IN HAND 2010.**

30.1.8.6.1 Generally

30.1.9 South Wales & Severn

30.1.9.1 River Severn

30.1.9.1.1 Upton on Severn – inadequate visitor moorings - These moorings were completely refurbished to a very high standard in 2009. No further work is identified for this asset. We do not own all of the visitor moorings on the River Severn as we are not the owners of the bank, and require consent from the land owner to install them. In addition, the EA operate very stringent controls on structures in the river to control flooding risks and it is very unlikely that BW would be allowed to install additional mooring structures unless there was a clear safety case (e.g. lock landing). We would encourage the relevant local authority or land owner (who would benefit directly from visiting boaters) to consider extending mooring facilities, rather than ourselves. – **COMPLETED/DISAGREE/NO PLANS FOR ACTION**

30.1.9.2 Worcester & Birmingham Canal

30.1.9.2.1 Tardebigge Flight – huge hole in ground due to erosion - The hole is the collapsed byewash at Lock 50 was repaired during the 2009/2010 stoppage season. No specific lock named but assumed as lock 50.
- **COMPLETED**

30.1.9.2.2 Tibberton to Worcester – Dredging needed – water shortage - No dredging planned for this length as this section meets national channel dimensions. We have had no reports of dredging issues here although there was a spell last year where vandalism led to the pound being lowered. This was a short term problem though.
- **DISAGREE/NO PLANS FOR ACTION**

30.1.9.3 Mon & Brec Canal

30.1.9.3.1 + 30.1.9.3.2 – Known grounding points – dredging (2) - We recognise that the channel is too shallow and dredging is required. I have requested that this canal is included in future national dredging programmes. The water level issue is caused by an insufficient abstraction from the River Usk Feeder at Brecon and we are actively working with the EA to try and increase our daily abstraction limits. We know full well that we need to dredge this canal. However, costs of dredging and the vulnerability of the canal bed to potential breaches limits the dredging options. The water levels are out of control to a large extent but we are seeking a resolution with the Regulatory body concerned.
- **TO BE INVESTIGATED**

30.1.10 South East

30.1.10.1 Grand Union Canal

30.1.10.1.1 Bridge collapsing (4) - All bridges are being monitored – none are close to collapse. 40 Bridges are having minor repairs during 2010/11 plus several major repairs. – **IN HAND 2010**

30.1.10.1.2 Braunston Flight – very heavy lock gates (2) - Agree – maintenance programme is improving the situation as much as possible. – **TO BE INVESTIGATED**

30.1.10.1.3 Braunston Tunnel – N end slippage (7) - Situation and plans have been communicated over the last 3 years – works completed spring 2010. – **COMPLETED**

30.1.10.1.4 Braunston – Improve Visitor Moorings (2) - Being reviewed as part of 2010/11 plans – canal profile however is a constraint here.
- **IN HAND 2010**

30.1.10.1.5 Leicester Arm

30.1.10.1.5.1 Bridges in need of urgent repair (2) - Bridge 32 completed Dec 2009, others being monitored. – **COMPLETED/TO BE INVESTIGATED**



- 30.1.10.1.5.2 Watford to Foxton – vegetation needs cutting back - Major programme over this winter has improved things substantially across the South East, still more to do next year though. - **COMPLETED**
- 30.1.10.1.5.4 S. of Foxton – fallen tree branches – These have now been attended to.
- **COMPLETED**
- 30.1.10.1.5.4 Watford to Kilby Bridge – weed - Very few problems with weed, reed is prevalent due to SSSI. - **TO BE INVESTIGATED**
- 30.1.10.1.5.5 Ivy Bridge 78 to High Bridge 79 – possible breach (2) – Works due March 2010
- **IN HAND 2010**
- 30.1.10.1.5.6 Whilton Lock (Buckby?) flight – suffering water leaks - Some gate replacements done spring 2010, 2 further sets to be done next winter.
- **COMPLETED/IN HAND 2010**
- 30.1.10.1.5.7 Long Buckby Flight – very heavy lock gates (2) - Agree – replacements of composites with wood will help. These are being replaced against a programme based on condition grade. 1 pair replaced 2009/10, 2 pairs to be 2010/11. - **IN HAND 2010**
- 30.1.10.1.8 Northampton Branch (2)**
- 30.1.10.1.8.1 Reed cutting and dredging needed (4) - Dredging done 2008; reed cutting undertaken autumn 2009. - **COMPLETED**
- 30.1.10.1.9 Stoke Bruerne lock flight – suffering water leaks - Agreed – stoppage this winter curtailed due to snow/ice. In plan to be picked up next winter – back pumps mitigate issues here. - **IN HAND 2010**
- 30.1.10.1.10 Wolverton: Railway Bridge (by new apartments) – underwater builder’s rubble – Will check, but not aware this affects the main navigation. - **TO BE INVESTIGATED**
- 30.1.10.1.11 Bridge 82 - Works done 09 but being monitored. - **COMPLETED**
- 30.1.10.1.12 Soulbury to Leighton Lock 27 – low levels - Low pounds were experienced over the summer due to water control. Leighton Lock 27 to be

replaced 10/11, also improvement to back pumps to be done 2010/11. – **IN HAND 2010**

30.1.10.1.13 Aylesbury Arm

30.1.10.1.13.1 Lock gates need repair - Some works done this winter and others planned over next 2 years. – **COMPLETED/IN HAND 2010**

30.1.10.1.14 Tring to Stockwell Lock – generally (2)

30.1.10.1.15 Cowroast Lock 46 – leaking badly - Gates have been refitted over the winter.
– **COMPLETED**

30.1.10.1.16 Bankmill Bridge 144 – Canal bank just S of bridge in danger of collapse - Aware of status and is being monitored. – **TO BE INVESTIGATED**

30.1.10.1.17 Towpath just S of Berkhamsted undermined - Aware of status and is being monitored.
– **TO BE INVESTIGATED**

30.1.10.1.18 The Lock in Cassiobury Park in Watford (2) - Will review status, though not in plan for next winter. Lock 76 + bottom gates being replaced winter 2010/11.
– **IN HAND 2010**

30.1.10.1.19 Pound between Cassiobury Locks needs dredging - Not high enough on corporate priority list, Berkhamsted on GUS is the location this coming year.– **DISAGREE/NO PLANS FOR ACTION**

30.1.10.1.20 Lady Capel's Lock 74 – crack in stairs - In plan for 2010/11. – **IN HAND 2010**

30.1.10.1.21 Iron Bridge Lock 77 – lower gate leaking (3) - Has been completed this winter. Stoppage added, completed 2009 before Christmas.
– **COMPLETED**

30.1.10.1.22 Hemel Hempstead to Uxbridge – weed - Not aware of major issues in this location – will monitor. – **TO BE INVESTIGATED**

30.1.10.1.23 South end Locks too heavy - Aware – regular maintenance is all that can be undertaken. –**DISAGREE/NO PLANS FOR ACTION**

30.1.10.2 Oxford Canal

30.1.10.2.1 Lock paddles (some) very stiff (2) - Problems known, attending to as stoppages allow – in the meantime regular lock maintenance is the only action. – **DISAGREE/NO PLANS FOR ACTION**

30.1.10.2.2 Dredging - Not high priority for dredging, profile of canal across summit part of the issue. – **DISAGREE/NO PLANS FOR ACTION**

30.1.10.2.3 Overhanging vegetation/growth on offside - Much work has been done this winter. – **COMPLETED**

30.1.10.2.4 Edges collapsing: need repair (2) - Undertaking many spot towpath repairs on the Oxford this year and next. – **IN HAND 2010**

30.1.10.2.5 More Mooring facilities - Agreed – reviewing Thrupp currently with local stakeholders, further areas in due course. – **IN HAND 2010**

30.1.10.2.6 Bridges on N Oxford Canal – urgent repairs needed (8) - Bridge 79 + 80, aware and monitoring. Identified on Major Works list but currently not identified for work in the currently financial year. Bridges have been reviewed by the Engineering Manager South and the Head of the Bridge Section and are considered to be stable and not a risk of further failure. Bridges are being monitored on monthly basis by the Length Inspection Team. – **TO BE INVESTIGATED**

30.1.10.2.7 Ansty Bridge 15 (2) - Not a British Waterway owned bridge, in discussion with landowner currently. – **DISAGREE/NO PLANS FOR ACTION**

30.1.10.2.8 Brinklow to All Oaks Wood – landslips (2) - All Oaks Wood completed winter 2009. – **COMPLETED**

30.1.10.2.9 Cutting after All Oaks Wood: topping the trees - Aware, and is being attended to. – **COMPLETED**

30.1.10.2.10 Hillmorton Locks - Lock 4 in 2010/11 programme, likewise lock 7 paddles to be dealt with. – **IN HAND 2010**

30.1.10.2.11 Willoughby bridges 79 and 80 (2) - Has been assessed by control team, they are safe, vehicles have been restricted. – **TO BE**

INVESTIGATED

30.1.10.2.12 Bridges 81&81 – Rowdyke - BW engineers are aware of the issues with these bridges and are monitoring. According to notifications the issues are not considered urgent at this time. We are carrying out minor repairs to 40 bridges in 2010/11. These bridges will be included if deemed suitable and necessary when compared to other structures. – **TO BE INVESTIGATED**

30.1.10.2.13 South of Bridge 192: Underwater stone blocks from collapsed towpath – There are some low spots, these areas should not block the main navigation. Will address through the year. - **IN HAND 2010**

30.1.10.2.14 S Oxford

30.1.10.2.14.1 Towpath Vegetation (3) - Much work completed over the winter – hedge to edge cut planned March 2010. – **COMPLETED**

30.1.10.2.14.2 Dredging summit - Not dredging issue – nature of the profile of the summit. – **DISAGREE/NO PLANS FOR ACTION**

30.1.10.2.15 Napton Junction to Napton Bridge - Piling of 2 areas planned in the 2010/11 programme. - **IN HAND 2010**

30.1.10.2.16 Claydon Lock : O/S piling below lock weak – breach likely - Ongoing monitoring in place – breach not likely. – **TO BE INVESTIGATED**

30.1.10.2.17 Broadmoor lock - New gates planned 2010/11. - **IN HAND 2010**

30.1.10.2.18 Cropredy area – banks need attention – and all canal - Extensive works completed in 2008. Will review for programme in 2011. - **IN HAND 2010**

30.1.10.2.19 South of Aynho weir – towpath ‘holes’ - Will follow up and complete – **IN HAND 2010**

30.1.10.2.20 South of Lower Heyford Cleaves Bridge 207 – over- topping towpath - The worst areas of overtopping around Bridges 204 and 205 are being carried out in 2009/10 and 2010/11. If the solution is successful then other areas

may be considered for future works. – **COMPLETED/IN HAND 2010**

30.1.10.2.21 Heyford Common Lock – brickwork of tail - Some erosion but not yet significant

Priority. – **TO BE INVESTIGATED**

30.1.10.2.22 Drinkwater's Lift Bridge 231 - All Oxford lift bridges to be worked on in 2010. – **IN HAND 2010**

30.1.10.2.23 Above Duke Lock – overhanging offside trees opposite long-term moorings – Completed winter 2009/10. - **COMPLETED**

30.1.11 London

30.1.12.1 Grand Union Canal

30.1.12.1.1 Stokewell lock 83 to Bulls bridge – generally - Contracts are in place for routine vegetation and litter clearance together with floating litter. We are working with LB Uxbridge to improve the overall environment through Hayes to Bulls Bridge and to reduce incidences of anti social behaviour. - **IN HAND 2010**

30.1.12.2 Regents Canal

30.1.12.2.1 Camden locks – sticking paddle gear – Repaired – **COMPLETED**

30.1.12.2.2 Stuarts lock – Not aware of any specific problems or issues – **DISAGREE/NO PLANS FOR ACTION**

30.1.12.3 River Lea

30.1.12.3.1 Old Ford lock – electric lock keeps tripping - The automation system is to be replaced and upgraded in spring 2010. The pumps on the manual lock are to be replaced in spring 2010 to reduce the number of turns required to open the paddles. – **IN HAND 2010**

30.1.12.3.2 - By Junction of Bow Back Rivers by Bow Flyover.

30.1.12.3.2.1 Dredging winding hole

30.1.12.3.2.2 Weed

} Following refurbishment of one of the large weed boats we will have a minimum of 2 and possibly 3 large weed boats on the lower Lee in 2010 supported by two smaller surface dredgers. Following the re-opening of City Mill Lock in spring 2010 the southern entrance to the Bow Loop will be re-opened with the temporary security boom being moved further east to allow access to the lock; this will improve winding at this site. – **IN HAND 2010**



- 31.1.12.1 Generally
- 31.1.12.1.1 Dredging
- 31.1.12.1.2 Weeding
- 31.1.12.1.3 Vegetation

These all form part of our annual maintenance regime with towpath vegetation undertaken by Connaught Environmental (Fountains) and a regime for dealing with offside vegetation undertaken by BW staff. There are no specific customer complaints with respect to dredging and we are largely compliant with the national dredging profile.

- DISAGREE/NO PLANS FOR ACTION

31.1.12.2 Grand Union Canal

31.1.12.2.1 Hanwell Flight locks 92-93 pound water levels - Lock 93 gates to be replaced in autumn 2010 which will lock leakage.

- IN HAND 2010

31.1.12.2.2 Paddington Arm

31.1.12.2.2.1 Vegetation - Offside from Bulls Bridge to A40 at Perivale has been cut back during winter 2009/10 with more from Perivale eastwards in winter 2010/11.

- COMPLETED/IN HAND 2010

31.1.12.3 Regents Canal

- 31.1.12.3.1 Kentish Town Lock 3 – swinging gates
- 31.1.12.3.2 City Road Lock 5 – swinging gates (3)
- 31.1.12.3.3 Old Ford Lock 8 – swinging gates

Works to address this problem are in our works programme for 2010/11. **- IN HAND 2010**

31.1.12.4 Lee & Stort Navigation

31.1.12.4.1 Generally

31.1.12.4.2 Weed on River Stort (2008) - Pennywort is a problem on the R Stort and we have an ongoing plan to remove and spray with herbicide.

- IN HAND 2010