APPENDIX C - Leeds Local Flood Risk Management Strategy - List of Measures

| Construction Construction Construction Stage Design S Design S HIGH I HIGH II HIGH I HIGH II | ruction lige ruction light ruction light ruction ru | 2012 2012 2012 2012 2012 2012 2018 2018 | Barley MB Recreation Ground - (Local Levy) Flood Alloydation Scheme - Collegiplans Back Landber Road, Carlotth - Collect Improvements Ramadem Breat, Kippas, Flood Altroidion Scheme - (Local Levy) Landb Flood Alloydation Scheme, Riber Alm Ration Road (Collect MB Back) - Culvert Replacement Collect Needed Repair Scheme - (Local Levy) | NIA. | West Carlorth Collegitum Black Carlorth Kippex Rever Aire - Newley to Woodlesford | Studies, schemes, assessments and plans Studies, schemes, assessments and plans Studies, schemes, assessments and plans Studies, schemes, assessments and plans | En improve understanding of food food die and seek to decrease local food die through insplementation of effortaines. Top quality measures and services flooding where practicable. It improve understanding of food food die and seek to decrease local food die through insplementation of effortaines, the province understanding of food food die and seek to decrease local food die through insplementation of effortaines, the province understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. It improve understanding of food food die and seek to decrease local food die through implementation of effortaines. | Construction Blage Sidema being Progresser - partially comprise. This measure is lated in the Cuas CPAIP for the Collegham Black Pulling lant - to be progressed to 2015. Restricted culvert, Spipess culvert - Softerine being scoped. | Reduce risk of flooding Reduce flood risk from Collingham Block Improved flood resistance and resilience of properties Reduce risk of flooding | Staff time and capital resource Staff time and capital resource Staff time and capital resource Staff time and capital resource Staff time and capital resource | Leeds City Council Environment Agency Leeds City Council | Environment Agency Leeds City Council Environment Agency | LCC Parks and Countryside Environment Agency LCC Flood Risk Management | 21/08/2012 21/08/2012 21/08/2012 |
|--|--|--|--|------|---|---|--|--|---|--|--|--|--|--|
| Construction Stage Design S Design S HIGH (HIGH (HIGH (HIGH (HIGH (HIGH (HIGH (HIGH (HIGH (HIGH (| uction uge Stage Stage Stage H (1) H (2) H (3) | 2012 2012 2012 2018 2018 2018 | Flood Alleviation Scheme - Cultingham Back Landhur Road, Clarforth - Cultival Improvements Ramedon Street, Kipux, Flood Alleviation Scheme - (Local Lavy) Landh Flood Alleviation Scheme, River Aire Station Road (Collin Mil Back) - Cultural Replacement | NIA. | Collingham Bock Garforth Kippiax | Studies, schemes, assessments and plans Studies, schemes, assessments and plans Studies, schemes, assessments and plans Studies, schemes, assessments and plans | E improve understanding of four dis and dask to demand local flood disk through implementation of effortable. Triple quality measures to almost flooding where practicable. E improve understanding of flood flood and dask to demand local flood disk through implementation of effortable, large quality measures to almost flooding where practicable. | Scheme being Progressed - partially complete. This measure is listed in the Cuse CPMP for the Collegham Beck Policy Unit - to be progressed by 2015. Resisting culture, by pass outwerf - 8-theme being scoped | Reduce flood risk from Collingham Back Improve flood resistance and resilience of properties | Iresource Staff time and capital resource Staff time and capital resource | Environment Agency Leeds City Council | Leeds City Council Environment Agency | Environment Agency LCC Flood Risk Management | 21/08/2012 21/08/2012 21/08/2012 |
| Design S Design S HIGH I HIGH I HIGH III | Stage H (1) H (2) H (3) | 2012 2012 2018 2018 2018 | Landbur Road, Carlotth - Colvet Improvements Ramedian Breet, Kippas, Frond Allevidation Echania - (Lond Lary) Lands Frond Allevidation Scheme, Riser Airs Baston Road (Conton Mill Back) - Culvert Replacement | NA | Garforth Kippax | Studies, schemes, assessments and plans Studies, schemes, assessments and plans Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Restricted outwart, bypass culters - Brittene being scoped | Improve flood resistance and resilience of properties | resource Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 21/08/2012 |
| Pesign S HIGH | H (1) H (2) H (3) | 2012 2018 2018 2018 | Ramsdan Breef, Kipper, Flood Affection Scheme - (Loost Lwy) Leich Flood Affection Scheme, River Aim Bation Read (Collin Mil Beck) - Culver Replacement | N/A | Кіррах | 3. Studies, schemes, assessments and plans | high quality measures to alleviate flooding where practicable. | | properties | resource | | | | 21/08/2012 |
| HIGH (| H (1) H (2) H (2) | 2018 2018 2018 | Leads Proof Alleviation Scheme, River Airy Button Road (Critton MN Back) - Culvert Replacement | NIA. | Kippax River Aire - Newlay to Woodlesford | | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Design Stane | Reduce risk of fooding | Staff time and capital | | | | |
| HIGH | H (2) | 2018 | Station Road (Cotton Mill Beck) - Culvert Replacement | | River Aire - Newlay to Woodlesford | | | | | resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 21/08/2012 |
| HIGH (| H (2) | 2018 | | | | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviable flooding where practicable. | This approved Upper Aries Distangy consistend many agrinses for the protection of Leads City, the economic centre of the region. The Leads of the Aries deviced comprehensive scheme for the Review and red field for in those DPAR Edge, which was agrounded by the EAR Dead in late 2016. However, due to the value of the scheme this was considered to be unafforable. This Secretary of State provided an assurance while more resource could be made available to earlier probable intermittees, including passes schoolines and intermittees docurred furthering. Work it conclusing an applicing plannations so on that Leads CC and their elected members can decide which option to proceed with, and how the decidational furthering with a comprehension of the contraction of the contra | Reduce flood risk from River Aire | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Highways Design | 21/08/2012 |
| HIGH | н (3) | | Culvert Headwall Repair Scheme - (Local Levy) | | Moriey | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Culverted watercourse surcharges causing Booding to Morky Rail Station and the Transpennine railway - scheme being scoped | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 21/08/2012 |
| | ., | 2018 | | | Otley | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Litgent works to repair collapsing culvert. Clear debris from channel and rebuild headwall. LCC have already undertaken emergency works | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| HIGH | H (4) | | Victoria Place Flood Alleviation Scheme | | Mickletown | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Fixeding to residential land. Construct flood embankment and install pumping station to remove accumulated surface water. | Reduce risk of flooding Establish the potential for advanced warning of | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| | | 2015 | Carry out flood warning feasibility studies for Wortley Beck and Meanwood Beck and Implement findings. | * | Wortley Beck and Meanwood Beck | Flood awareness, response and recovery | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | This measure is listed in the Aire CPMP for the Leeds Policy Unit - to be progressed by 2015. | Establish the potential for advanced watering of flooding. Develop more accurate flood warming for tributaries of the River Aire which will result in reduction of economic damages and improv- community safety. | EA staff time and capital resource | Environment Agency | Leeds City Council | Environment Agency | 30/08/2012 |
| • MEDIU | HUM | 2024 | Wakefield Road Flood Allaviation Scheme | | Garforth | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alteriate flooding where practicable. | Restricted culvert and surface water flow. Install new culvert and widen highway ditch. | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| MEDIU | NUM | 2030 | Potternewton Surface Water Flood Alleviation Scheme | | Potternewton | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Surface water fooding. Install attenuation and pumping station to remove flood water to adjacent curvented watercourse | Reduces flood risk | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| 1 MEDIU | NUM | 2024 | Wellhouse Drive Flood Alleviation Scheme | | Gledhow | 3. Studies, schemes, assessments and prairie | is improve understanding of local flood risk and seek to decrease local flood disk through implementation of affordable, floor quality measures to alleviate flooding whose practicable. | Colorated Channel, Channel Improvements | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| 2 MEDIU | HUM | 2024 | Thorner Beck Flood Alleviation Scheme | | Thorner | 3. Studies, schemes, assessments and plans | in improve understanding of local food risk and seek to decrease local flood risk through implementation of altorization high quality measures to alteriate flooding where practicable. | Restricted capacity of lesisting culturals causing ownland thiodring Temprove'Cultural cupicity | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| LOW | w | 2030 | Wyke Beck Flood Alleviation Scheme | | Halton Moor | 3. Studies, schemes, assessments and plans | high quality measures to alleviate flooding where practicable. | Work in pathership with the EA to complete a flavial flood alleviation scheme to improve the standard of flood protection along Wyke Beck. This measure is failed in the Are CPRP for the Leads Policy Unit - to be propressed by 2015. | The risk of flooding will be managed | Staff time and capital resource | Leeds City Council | Leeds City Council | Environment Agency | 30/08/2012 |
| 4 LOW | ow | 2030 | Farniey Wood Beck Flood Alleviation Scheme | | Cottingley | 3. Studies, achiennes, assessments and piene | s motive understanding of cour food risk eract work to occluse local food on through implementation of a forecast, top quality measures to allow as fooding with practical to. | Total risk to residential areas. Only turn some parametering ecopes | Reduce flood risk from Familey Wood Book | Stafftime and capital resource | Leeds City Council | Leads City Council | Environment Agency | 21/08/2012 |
| LOW | w | 2030 | Wortley Back Flood Alleviation Scheme | | Worlley Beck | 3. Studies, schemes, assessments and plans | 6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of all brotable, high quality measures to alleviate flooding where practicable. | Work in perhenally with the EA to develop a obtained food alleviation scheme that integrales with all sources of flooding. This measure is tale to the Are CPAP for the Levide Public bit in the progressed by 2015. | The risk of flooding will be reduced from at sources and take into account the implications of climate change. | Staff time and capital resource | Leeds City Council | Leeds City Council | Environment Agency | 30/08/2012 |
| LOW | w | 2030 | Victoria Road Surface Water Flood Alleviation Scheme | | Guiseley | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Surface water fooding to properties. Install attenuation and pumping station to remove food water to adjacent culverted watercourse. | Reduces flood risk | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 22/08/2012 |
| LOW | w | 2030 | Sheepscar: evaluate the condition of formal and informal flood defences along the Sheepscar Beck which were recently breached to identify potential remedial works required. | | Sheepscar | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Need an update on this study? | Helps ensure that problems or new works are identified to prevent recurrence of flooding. Helps ensure that areas with proven flood risk. | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 21/08/2012 |
| LOW | w | 2030 | Develop and implement feasibility studies for fluvial flood alleviation schemes to improve the standard of protection along Meanwood Back, Bagley Back and Farriey Wood Back - Integrating with all sources of flooding. | 10 | Meanwood Beck, Bagley Beck & Familey Wood Beck | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | This measure is listed in the Aire CPMP for the Leeds Policy Unit - to be progressed by 2000. | are provided with an appropriate flood defence schame at the earliest possible opportunity and that the Council supports the EA in developing any flood alleviation scheme in the longer-term | | Leeds City Council | Leeds City Council & Yorkshire Water Services | Environment Agency | 30/08/2012 |
| LOW | w | 2030 | Investigate the interaction between the Leeds and Liverpool Canal and the River Aire. | • | River Aire and Liverpool Canal | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | This study should dentify the potential for managing this interaction to ensure that flood rink is managed effectively. This measure is listed in their CFMP for the Leeds Prilicy Unit - to be progressed by 2000. | Investigate this relationship to improve knowledge of the risk of flooding posed by the Leeds & Liverpool canal | EA staff time and capital resource | Leeds City Council | Canal & River Trust | Environment Agency | 30/08/2012 |
| 1 ? | | ? | YWS DQ5 schemes?? Need to include some detail about these? | | ? | | | TBC | | | Leeds City Council | ? | ? | ? |
| COMPLE | E LED SC | CHEMES AND F | EASIBILITY STUDIES - SINCE 2011 | | | | | | | | | | | |
| 2 Comple | oleted | 2011 | Rood Alleviation Scheme - Leeds Road (Allenton Bywater) pumping station (local levy | n | Allerton Bywater | 3. Studies, schemes, assessments and plans | Improve understanding of local food risk and seek to decrease local food risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Scheme Completed | Reduce risk of flooding | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 04/07/2012 |
| 3 Comple | oleted | 2011 | Newton Road properly protection and resilience scheme | | Newton Road, Potternewton | | Improve understanding of local food risk and seek to decrease local food risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Scheme Installed | Improve flood resistance and resilience of properties | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 04/07/2012 |
| Comple | oleted | 2011 | Lower Workley - propenty protection and resilience scheme | | Lower Wortley | 3. Studies, schemes, assessments and plans | Improve understanding of local food risk and seek to decrease local food risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Scheme Installed | Improve flood resistance and resilience of properties | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 04/07/2012 |
| Comple | oleted | 2011 | Church Lene, Bandsey - property protection and resilience scheme | | Bradsty | 3. Studies, schemes, assessments and plans | Improve understanding of local food risk and seek to decrease local food risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Scheme Installed | Improve flood resistance and resilience of properties | Staff time and capital resource | Leeds City Council | Environment Agency | LCC Flood Risk Management | 04/07/2012 |
| Comple | oleted | 2011 | Dean Park Drive, Drightington - property protection and resilience scheme | | Drighlington | 3. Studies, schemes, assessments and plans | Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable. | Scheme Installed | Improve flood resistance and resilience of properties | Staff time and capital | Leeds City Council | Environment Agency | LCC Flood Risk Management | 04/07/2012 |