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Great Bells Farm - RHCP	Isle of Sheppey	Creation of compensatory freshwater grazing marsh habitat. This project is a legal obligation and does not have outcome measures.	0%	0%	0.0	0.00%	0.00%	0	0		2014/15	419,667	215,667	204,000	0	0	0	0
Barton's Point Shingle Recycling	Sheerness	Beach recycling to the Barton's Point frontage in line with the recommendations of the beach management plan (BMP)	1237%	1237%	37.4	5.00%	1.30%	0	0	2024/25	2024/25	150,000	0	150,000	0	0	2,342	0
Church Street, Deal FAS	Deal, Kent	Properties in Church Street are at risk of flooding from exceedance of the capacity of the public surface water sewer which drains the area. Existing road verges on Church Street could be utilised to re-direct and store overland flow. Overland flow could be directed to soakaways constructed in the grounds of Walmer Science College. Construct a new soakaway connected to the road gullies at the low point on Church Street. Assuming flooding is from the public sewer the manholes and road gullies could be sealed and any high levels in the sewer directed to new soakaways. Install a pump to convey floodwaters eastwards to the public sewer in London Road (assuming it has capacity); this could be combined with storage to allow for flood levels to reduce prior to pumping. SuDS scheme potential for adjacent DDC owned land.	65%	100%	7.2	3.33%	1.00%	0	0	2020/21	2020/21	270,000	70,000	179,000	21,000	0	40	0
Thanet Groyne Reconstruction/Refurbishment	Thanet District	The majority of Thanet's coastline is protected from erosion or flooding by man made defences. In many locations, (particularly on the North Thanet Coast) at total of 43 concrete groynes contribute to the level of protection enjoyed, by maintaining sediment and therefore reducing water depth/wave energy and the potential for the undermining of defences. Many of these structures are aging and require major refurbishment and in some cases complete reconstruction. It is certain that sea wall longevity around the District would be increased as a direct result of the proposed maintenance works.	75%	100%	13.6	0.00%	0.00%	50	100	2020/21	2021/22	388,000	25,000	293,500	69,500	0	0	0
Elmley Managed Realignment and Habitat Creation	Isle of Sheppey	Habitat creation managed realignment to enhance the environment, reduce to cost of maintaining defences and offset habitat loss due to climate change.	223%	223%	0.7	10.00%	2.00%	0	0	2016/17	2018/19	1,930,000	0	1,930,000	0	0	0	0
Broomhill Sands Coastal Defence Scheme	Camber to Jury's Gap	Improve Coastal Sea Defences between Camber Sands and Jury's Gap in East Sussex from a 1:20 SoP to 1:200 SoP. The 2km of shingle beach and rock revetment proposed will contribute to the protection of 5,334 residences in Coastal Cell 2 of the Folkestone to Cliff End Strategy and will provide direct benefit to the 620 residences at immediate risk from failure of this frontage.	119%	121%	18.6	5.00%	0.50%	0	0	2014/15	2015/16	25,314,684	15,554,843	9,759,841	0	0	829	0
Marshlands Tidal Basin Improvements	Dymchurch	Marshlands tidal basin acts as a secondary flood defence storing water from the sewers until the tide allows it to drain out via the sea outfall. A considerable amount of silt accumulates at the outfall. It is proposed that a penstock is installed to allow easy control of the water levels in the basin. When silt accumulates to levels which could increase flood risk the basin would be filled up, the penstock would then be fully opened and water velocity will be enough to flush the outfall of silt. By installing the penstock it would help reduce the flood risk to (1 in 75 chance of flooding to 1 in 100) around 54 properties by ensuring the outfall is fit for purpose.	129%	179%	4.3	1.25%	1.00%	0	0	2014/15	2016/17	150,000	40,000	110,000	0	0	54	0
Sandwich Town Tidal Defences	Sandwich, Kent	THIS PROJECT STARTS POST PAR. To deliver preferred options receommended by Pegwell Bay to Kingsdown Strategy that have been developed further as part of the Sandwich and Deal PAR Preparation project. The scheme is to improve on-line defences along River Stour, build a wall at Sandwich Quay and construct a 220ha tidal storage reservoir (fututre habitat creation possibility).	0%	0%	9.8	5.00%	0.50%	0	0	Prior to 2014	2015/16	20,968,360	17,735,860	3,072,500	160,000	0	486	0
Sandwich Bay Sea Defences (Deal)	Deal, Kent	THIS PROJECT STARTS POST PAR. To deliver preferred options receommended by Pegwell Bay to Kingsdown Strategy that have been developed further as part of the Sandwich and Deal PAR Preparation project. The scheme is to recharge the shingle beach, provide scour protection and construct a wave wall along Deal promenade. Dover District Council will be involved in delivery.	0%	0%	36.6	30.00%	5.00%	0	0	Prior to 2014	2014/15	8,424,116	8,265,366	158,750	0	0	1,418	0
Buleys Weir	Tonbridge, Gasworks Stream	Refurbishment of sidewalls to the weir structure which is experiencing severe scour and erosion	0%	0%	3.3	0.00%	0.00%	0	0	2014/15	2014/15	421,412	421,412	0	0	0	0	0

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FCEP4 - Hythe Ranges Scheme	Hythe, Kent	Hythe Ranges is an MoD-maintained frontage consisting of 3km shingle beach. The site is within an operational live firing range (with just two shutdown periods each year). The proposal is to construct a new rock revetment along the line of the existing defences.	119%	121%	18.6	50.00%	5.00%	0	0	2016/17	2019/20	21,052,107	489,901	7,113,037	13,449,169	0	670	0
Leigh & Lower Beult FAS	Tonbridge and Yalding, River Medway	Reducing flood risk to 3422 properties though improvement of one existing FSA and construction of another	55%	122%	4.5	2.00%	1.00%	0	0	2018/19	2023/24	35,160,000	150,000	17,555,000	17,455,000	0	1,957	0
Edenbridge FAS	Edenbridge, Kent	Many properties in this area are within the modelled 'Flood Map for Surface Water' extent (1:30) and have suffered from flooding reprted by residents to various public bodies over the past 5years. Identify and implement the most cost beneficial option to alleviate the identified flooding. Such options include: De-culvert section of watercourse to facilitate runoff (unlikely to be feasible but should be considered); investigate connection of existing surface drainage network into culvert and improve where possible; construct pumping station to discharge excess runoff to watercourse downstream of Four Elms Road.	489%	518%	36.3	3.30%	1.00%	0	0	2016/17	2022/23	110,000	30,000	80,000	0	0	222	0
Herne Bay Sea Defence Works	Herne Bay, Kent	The works comprise raising and extending the rear seawall and construction of 3 timber groynes (under construction), capital maintenance to the rock breakwater, with provision of additional rock, and beach recharge. These works are necessary to upgrade the defences to a 1 in 200 year standard and also close gaps in the seawall and secure the defences against overflow in extreme events.	492%	496%	36.1	2.00%	0.50%	0	0		Prior to 2014	5,458,000	907,000	4,551,000	0	0	190	452
Cheveney Sluice Refurbishment	Upstream of Yalding on the River Beult SSSI	Cheveney Sluice was built in the interwar period and has been maintained by the Environment Agency and its predecessors since. The structure retains water level on the River Beult SSSI and the River Teise. It also holds water levels up on the Mill Channel of the River Beult which runs to the north and also comprises part of the SSSI. An engineering inspection was completed by Black and Veatch in May 2012 this determined that the structure had a residual life of less than 5 years. The cost of abandonment, refurbishment and replacement were estimated at £150,000. This inspection was funded by the Upper Medway Internal Drainage Board. They have committed to using £30,000 to fund the design of the new sluice. The structure has failed on several occasions in the last few years. It has been possible to effect short term repairs but this cant be sustained. As a consequence the effects of long term failure are well understood. Should the structure fail open a series of consequences would follow	311%	373%	0.0	10.00%	10.00%	0	0		2015/16	180,000	30,000	120,000	30,000	0	0	0
Littlestone beach recharge	Littlestone	Replacment of shingle beach lost to storm damage since EA scheme was constructed in 2004. The beach has now eroded to a level where sufficient material has been lost to require a recharge to retain the standard of protection offered by the defences.	317%	317%	1.4	5.00%	0.50%	0	0		2014/15	1,400,000	1,400,000	0	0	0	4,542	0
Romney Main Conveyance Improvements	New Romney	The New Romney Main Sewer has been identified as being in need of de-silting to improve drainage and conveyance to reduce flood risk in this area. It is now thought the culvert under Station Road near the school is only at approximately 25% capacity. This watercourse was last de-silted about 15 years ago and should be on a 10 yearly programme.	314%	314%	2.6	5.00%	1.00%	0	0	2016/17	2016/17	100,000	0	100,000	0	0	91	0
Denge Secondary Defence	Denge, near Dungeness, Kent	to implement a scheme which would cut off the route flood waters could travel to reach Dungeness Power Station.	129%	129%	23.3	20.00%	0.50%	0	0	2016/17	2016/17	2,050,000	50,000	2,000,000	0	0	0	0
Avebury Avenue	Avebury Avenue, Tonbridge	0	240%	240%	12.0	5.00%	0.50%	0	0			0	0	0	0	0	163	0
Greatstone Dunes Management (2012 - 2016)	The Folkestone to Cliff End Flood & Erosion Risk Strategy refers to this frontage as Greatstone to Romney Sands. The dunes lie within the Dungeness SAC and the Romney Marsh and Rye Bay SSSI.	The dunes currently provides protection to approximately 155 propertieslocated on the lower lying land behind the dunes system. The Folkestone to Cliff End Flood and Erosion Management Strategy (FCEFEMS) 2008 report identified that the houses have a 0.1% chance (1 in 100) of failure in any one year, which would most probably be brough about by a mechanism of erosion, with eventual failure as a result of a breach in the dunes. The FCEFEMS approved solution is to Hold the Line by managing the dune system by a combination of fencing and planting to prevent erosion.	2378%	2378%	428.0	0.50%	0.50%	0	0		2016/17	90,000	45,000	0	45,000	0	775	930

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JURY'S GAP REFURBISHMENT	Jury's Gap (Camber)	Works to improve channel bank stability. Creation of a new concrete tidal basin within an older clay bunded structure.	226%	226%	1.2	0.00%	0.00%	0	0	2016/17	2016/17	605,386	105,386	500,000	0	0	406	0
Greggs Wood Stream Culvert Renovation	North Farm Industrial Estate Tunbridge Wells	A CCTV survey has been carried out of the culvert on the Greggs Wood Stream. This shows that the asset is in a poor condition, it is registered as a failing asset. While originally designed to offer a 1 in 100 year standard of protection it is estimated that the standard of service is now considerably lower. Furthermore, some of the sections of the culvert are at risk of collapse. Our intention is to commission a team of designers including early contractor involvement and a CDM coordinator to estimate the cost of the job. We will then take a break of 18 months during which we will use the outputs of the work carried out in the first year of the project to lever contributions from the owners of the various retail and light industrial units in this area. From experience on previous failing culvert projects this will cost £40K	118%	185%	21.3	10.00%	1.00%	0	0		2017/18	540,000	40,000	300,000	200,000	0	0	0
Queenborough Creek Barrier upgrade and refurb.	North Kent	The Queenborough Creek Barrier was constructed in 1982 consisting of two 6m gates providing up to a 1 in 200 year standard. Recently the structure has been showing signs of its age and the Hydraulic Rams which shut the gates have needed to be removed for maintenance on numerous occasions. Within the flood cell are over 700 residential properties and over 200 commercial properties. This includes a primary school. The policy for this area is hold the line for the next 100 years.	161%	170%	12.8	0.00%	0.00%	0	0	2016/17	2016/17	1,505,000	105,000	1,400,000	0	0	0	0
East Peckham FAS	East Peckham	East Peckham is located some 12km downstream of Tonbridge on the River Medway, and has been flooded on several occasions, most recently in 2000. Currently the community is undefended and 339 properties are at risk from the 1 in 200 year flood. This scheme is to update the existing River Medway model to include the specific behaviour of flood water across the flood plain, and to use this modelling to both inform and implement a flood defence scheme to provide protection to the community	126%	126%	13.1	5.00%	1.00%	0	0	2016/17	2016/17	470,590	54,590	416,000	0	0	313	0
Pett Shingle Renourishment Ph 2-6	Pett Levels	Coastal flood defence improvements between Rye Harbour entrance and Cliff End	133%	133%	1.2	2.00%	1.00%	0	0		2014/15	3,876,000	1,660,000	2,216,000	0	0	3,192	0
Ramsgate Main Beach - Timber Groyne Installation	Ramsgate, Kent	The Ramsgate Main Beach area attracts and holds sand due to the artificial influence of the East Pier of Ramsgate Royal Harbour. The sandy beach which is otherwise uncontrolled by structures along its 800m length provides vital protection from flood risk to nearby properties and the local public area however the profile of the beach is highly susceptible to change due to north/easterly sector wind and wave conditions. The provision of groynes would stabilise the beach, reduce recycling costs and hold more material at the north of the area of concern where insufficient material is naturally held.	76%	114%	9.1	5.00%	1.00%	0	0	2015/16	2016/17	705,000	0	442,000	263,000	0	31	0
Studd Hill & Hampton Coastal Defence Works	Hampton nr Herne Bay	The works proposed comprise the phased construction of new timber groynes together with beach recycling to ensure that the seawall is always protected. Some extending and raising of the rear seawall is also required at low points and gaps.	101%	110%	9.7	2.00%	1.00%	25	75	2016/17	2024/25	5,655,000	50,000	4,905,000	700,000	0	61	245
Walmer to Kingsdown Timber Groyne Replacement	Walmer & Kingsdown	The scheme involves the construction of 16 new timber groynes and 30,000 m3 of beach recycling with further later beach recycling and beach import in Year 15 and thereafter.	92%	100%	16.3	0.00%	0.00%	2	50		2017/18	5,437,000	30,000	5,107,000	300,000	0	65	132
Kite Farm Diversion Channel	Whistable	Diversion channel to reduce the risk of flooding from the Kite Farm Ditch	80%	100%	5.2	20.00%	3.33%	0	0		2018/19	260,000	30,000	210,500	19,500	0	58	0

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Chalkmead Sluice Refurbishment	River Lesser Teise, Collier Street, Kent	Chalkmead Sluice was built in the interwar period and has been maintained by the Environment Agency and its predecessors since. The structure retains water level in the Lesser Teise and diverts water into the local drainage network. An engineering inspection was completed by Black and Veatch in May 2012 this determined that the structure had a residual life of less than 5 years. The cost of either abandonment, refurbishment and replacement were estimated at £150,000. This inspection was funded by the Upper Medway Internal Drainage Board. They have committed to using £30,000 to fund the design of the new sluice. The structure has failed on several occasions in the last few years. It has been possible to effect short term repairs but this cant be sustained in the long term as the risk of failure would be heightened and the long term cost increased. As a consequence of past failure the effects of long term failure are well understood. Should the structure fail open a series of consequences would follow	75%	100%	0.0	10.00%	10.00%	0	0		2017/18	180,000	30,000	150,000	0	0	0	0
Hamstreet FAS	Hamstreet, Kent	0	593%	659%	26.9	0.00%	0.00%	0	0			110,000	0	96,744	13,256	0	153	0
Hythe to Folkestone Beach Management 2015 - 2020	East of Hythe Ranges to Sandgate. The Folkestone to Cliff End Flood & Erosion Risk Strategy refers to this frontage as Hythe to Folkestone Harbour Frontage A which is the most easten frontage in Coastal Cell 2.	Following the completion of the 2008 to 2014 works, it will be necessary to continue with beach management between Hythe and Folkestone in order to comply with the requirements of the Strategy and the policy of Hold the Line (Sustain) for this frontage.	609%	609%	37.8	0.00%	0.00%	200	200	2017/18	2021/22	1,520,000	70,000	1,450,000	0	0	0	1,752
Hythe to Folkestone Beach Management 2020 - 2025	East of Hythe Ranges to Sandgate. The Folkestone to Cliff End Flood & Erosion Risk Strategy refers to this frontage as Hythe to Folkestone Harbour Frontage A which is the most easten frontage in Coastal Cell 2.	Following the completion of the 2015 to 2020 works, it will be necessary to continue with beach management between Hythe and Folkestone in order to comply with the requirements of the Strategy and the policy of Hold the Line (Sustain) for this frontage.	507%	507%	31.0	0.00%	0.00%	200	200	2019/20	2024/25	1,333,000	0	1,333,000	0	0	0	2,628
Hythe to Folkestone Beach Recharge	Hythe to Folkestone	In order to replenish the beach, a significant recharge will be required, the quantity and timing to be determined by the Beach Management Plan.	433%	433%	9.9	0.00%	0.00%	5	20	2020/21	2020/21	5,035,000	0	5,035,000	0	0	0	2,190
Tankerton Coast Protection Works	Tankerton near Whitstable	First major beach recharge 15 years after completion of the final part of the main scheme (2004) in accordance with the approved strategy plan programme. Necessary in order to protect the integrity of the seawall based on the current assessment of beach erosion. Protecting 470 houses and an SSSI. Benefits and costs based on strategy plan updated to include actual works costs to date and future capital and revenue maintenace over 100 years. 0	305%	312%	24.7	5.00%	0.50%	25	75	2020/21	2020/21	1,420,000	0	1,320,000	100,000	0	0	466
Tillingham sluice replacement	Rye	The current structure at Tillingham Sluice is requiring increasing levels of maintenance and is approaching the limit of it's design life. A new structure on the downstream side of the main road bridge with doors operated by the tide would reduce the mechanical components and provide a longer term solution to managing the tidal limit to protect the North West area of Rye.	272%	272%	2.9	1.33%	1.00%	0	0		2018/19	550,000	0	550,000	0	0	724	0
Herne Bay Sea Defence Works (Beach Management)	Herne Bay	The 2012 scheme comprised of raising and extending the rear seawall and construction of 3 timber groynes. The next phase will require capital maintenance to the rock breakwater, with provision of additional rock. These works are necessary to upgrade the defences to a 1 in 200 year standard and also close gaps in the seawall and secure the defences against overflow in extreme events.	225%	225%	7.5	2.00%	0.50%	0	0	2019/20		457,000	0	457,000	0	0	190	0

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Hythe FAS	Hythe	Owing to the steep nature of the urban area, and the interaction with the Pent Stream, flooding from surface water poses a serious risk to Hythe. CCTV study to investigate the condition of drains and gullies. Consider use of property resilience and resistance measures. Divert surface water runoff by using land raising or ditches to divert runoff to Saltwood and Mill Lease Stream. Commission modelling study to better understand risk within Horn Street. Feasibility options could include green infrastructure along Spring Lane.	214%	221%	13.5	0.00%	3.00%	0	0	2018/19	2036	1,535,000	35,000	1,500,000	0	0	590	0
Deal Beach management 2015-2020	Deal Castle to Sandown Castle	Deal Beach is currently under going large beach re nourishment works with material being brought from offshore, and these works are anticipated to be completed in June 2014.	216%	216%	10.8	2.00%	0.50%	0	0	2017/18	2021/22	1,800,000	0	1,800,000	0	0	7,830	0
Hildenborough Flood Alleviation	Hildenborough, Kent	A total of 580 homes in Hildenborough are shown to be at risk of fluvial flooding. 157 of these are located within flood zone 3, and were flooded at Christmas 2013. The proposal is to construct a raised embankment approximately 300m in length to the south east of Hildenborough.	211%	211%	4.4	10.00%	2.00%	0	0	2017/18	2017/18	0	0	0	0	0	157	0
East of Epple to Westgate Bay - Sea Wall Refacing Works	Westgate on Sea, Kent	Upper courses of this precast sea wall and 'wave return' copings are exhibiting movement due to expansive forces/wave energy. Failure of these copings is anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. The works have been designed in detail and will consist of the renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) will also be renewed as part of the scheme. Some sea wall toe improvement work will also be included.	195%	208%	6.2	0.00%	0.00%	43	93	2017/18	2018/19	297,000	15,000	244,000	38,000	0	0	51
Margate FAS	Margate, Kent	When there are instances of heavy rainfall (and where water fails to infiltrate to the ground or enter the drainage system) there is an increased risk of surface water flooding. Reduce the pressure on the surface water system through the retrofitting of SuDS, the general improvement of surface water management and the reduction in the frequency of use of associated CSOs	168%	177%	8.3	3.30%	1.00%	0	0	2018/19	2020/21	1,190,000	90,000	1,100,000	0	0	357	0
Upper Westerham Flood Alleviation Scheme	River Darent from Squerry's Court to Long Pond, Westerham	The opportunity exists to reduce flooding to property and the A25 by improving conveyance in the main channel, provision of limited upstream storage and property level protection to dwellings. We will work with North West Kent Countryside Partnership and landowners to provide increased floodplain storage and channel/floodplain habitat. There is also essential works required to the left bank of the River Darent to maintain the structural integrity of the A25 Highway. We envisage the only costs to the EA will be initial feasibility modelling and mapping, with all construction costs met by others.	167%	167%	8.4	5.00%	0.50%	0	0	2017/18	2018/19	137,000	0	137,000	0	0	40	0
Warden Bay Outfall Refurbishment	Warden Bay	There are two outfalls in the Warden Bay area, one is for the main river the other is for surface water drainage. The condition of these structures was investgated in the Kent Tidal Outfalls Recondition Programme in 2009 which recommended the Do Minimum option to fully recondition these outfalls. Both are in a poor state of repair and are causing a health and safety concern to the public.	165%	165%	29.7	0.01%	0.01%	0	0	2018/19	2018/19	872,000	0	872,000	0	0	0	0
Whitstable Harbour Flood Defence Works	Whitstable	Reconstruction of sea wall at Whitstable Harbour where sheet piles are badly eroded and passed end of useful life followed later by First major beach recharge 15 years after completion of the main scheme (2006) in accordance with the approved strategy plan programme. Necessary in order to protect the integrity of the seawall from failure. Protecting 2380 houses and the town centre. Benefits and costs based on strategy plan updated to present day. Urgent additional groyne works carried out in 2011 funded approx 50% LA & 50% EA.	149%	162%	23.0	1.33%	0.50%	0	0	2018/19	2018/19	1,360,000	190,000	880,000	290,000	0	2,378	0
Aylesford Stream FAS, Ashford	Ashford, Kent	Flood Alleviation Scheme to reduce the risk of flooding from the Aylesford Stream in Ashford, Kent	156%	156%	1.6	20.00%	0.50%	0	0		2019/20	544,000	0	544,000	0	0	300	0
Kingsdown Beach Management 2015/16-20/21	Kingsdown, Kent	If the timber groyne replacement scheme is approved, this will allow 30,000m3 of recycled material in year 1, with further beach renourishment planned for year 15 from an off shore source of around 15,000m3 and annaul recycling of 2,000m3 of shingle from Walmer to year 15. However further recycling and Re nourishment works may need to be untaken if the above scheme is delayed.	150%	150%	54.0	5.00%	2.00%	0	0	2018/19	2022/23	750,000	0	750,000	0	0	890	0

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Great Stour Flood Alleviation Schemes	Great Stour between Wye (TR04824650) and Fordwich (TR18666014)	Risk to over 2000 homes from river flooding some schemes suggested, but need to understand the impacts of groundwater before further investment.	144%	144%	2.7	20.00%	1.00%	0	0	2020/21	2021/22	7,772,000	150,000	7,622,000	0	0	1,364	0
Pett Shingle Nourishment Phase 7 - 11	Pett Level, Winchelsea Beach	Annual beach management plan to replace shingle loss due to natural processes to maintain defence SoP	133%	133%	1.2	1.00%	0.50%	0	0	2018/19	2023/24	3,844,000	0	3,844,000	0	0	569	0
Gorrell Stream Culvert	Whitstable	Culvert CCTV survey and repair works	133%	133%	24.0	50.00%	20.00%		0	2019/20	2019/20	325,000	0	325,000	0	0	117	0
Plenty Brook Culvert	Herne Bay	Culvert CCTV survey and repair works	127%	127%	22.8	50.00%	20.00%	0	0	2019/20	2019/20	304,208	0	304,208	0	0	142	0
Five Oak Green FAS	Five Oak Green	Project to design and construct a flood alleviation scheme for the viallge of Five Oak Green, Kent where there are currently 99 residential properties at risk of flooding from the Alder Stream.	46%	126%	2.8	10.00%	1.00%	0	0		2020/21	1,534,000	0	534,000	1,000,000	0	266	0
Swanscombe Peninsula Defence Improvements and Land raising	Swanscombe penninsula at Dartford - DA119BB	New lesiure park proposed and therefore looking at opportunity to riase defences as part of development	125%	125%	1.3	0.50%	0.50%	0	0	2022/23	2022/23	350,000	0	350,000	0	0	0	0
Oare FAS	Oare, Kent	Combination of raising embankments and defences to protect up to 27 properties at significant risk	125%	125%	1.4	5.00%	0.50%	0	0	2021/22		820,000	0	820,000	0	0	9	0
Dover FAS	Dover, Kent	Surface water flooding in Dover is caused by high groundwater levels, exceedance of the capacity of the surface water or combined sewer networks and 'out of bank flow' from open-channel or culverted sections of the River Dour. Seek management options providing social and environmental benefits. Manage runoff and sediment transport close to its source and keep runoff on the surface	123%	124%	6.2	3.33%	1.00%	0	0	2020/21	2023/24	10,260,000	110,000	10,150,000	0	0	2,240	0
Lydd Ranges Schemes	Kent	The Lydd ranges fromntage is a 7.4 km low shingle beach. The immediate hinterland is owned by the MOD and used as military training for live firing. The proposal is to hold the line by raisnig and reinforcing the secondary defences, undertaking beach recharge, and installing timber groynes.	119%	121%	18.6	50.00%	5.00%	0	0	2022/23		40,461,412	266,400	29,062,110	11,132,902	0	3,994	0
Rother Tidal Walls East	Rother District, Kent	The scheme covers 4.5km of embankments along the length of River Rother's East Bank. The proposal is to improve the defences with localised re-alignment.	119%	121%	18.6	50.00%	5.00%	0	0	2022/23	2023/24	7,749,070	379,621	7,281,949	87,500	0	208	0
Romney Sands Coastal Defences	Shepway District, Kent	The frontage is 0.7km long and consists of a shingle ridge fronted by a sand and mud foreshore. the proposal is to improve with beach recharge.	119%	121%	18.6	50.00%	5.00%	0	0	2021/22	2022/23	1,460,607	242,214	1,155,893	62,500	0	25	0
Dartford Flood Alleviation Scheme	Dartford Town Centre, Dartford	Flood allevation study and implementation of workd to reduce flood risk in Dartford	117%	117%	2.0	4.00%	1.00%	0	0	2021/22	2021/22	1,000,000	0	1,000,000	0	0	370	0
Denge Beach Management 2011-15	Jury's Gap, Kent	Annual beach management plan to replace shingle loss due to natural processes to maintain defence SoP	112%	112%	3.1	5.00%	5.00%	0	0	2020/21	2020/21	3,000,000	2,400,000	600,000	0	0	2,900	0
Minster Sheppey Coast Protection Works	Minster, Isle of Sheppey	The works comprise the replanking of the upper part of 28 timber groynes which are dilapidated and beginning to fail. Failure of the groynes would lead to loss of beach and undermining of the seawall. Work to be carried out in two phases and later seawall and accessway refurbishment is also included in the costs.	110%	110%	9.0	0.00%	0.00%	20	50	2020/21	2021/22	718,000	0	718,000	0	0	0	56
Whistable FAS	Whitstabe, Kent	Flooding has occurred a number of times in the past through a complex interaction of surface water, fluvial and sewer systems and the Gorrell OAR report suggests numerous properties are at risk. Solution: To identify and implement the most feasible proposal of the options identified in the Gorrell OAR.	106%	108%	7.4	3.33%	1.00%	0	0	2021/22	2022/23	1,128,000	28,000	1,100,000	0	0	571	0
Middle Medway Strategy Stand Alone Defences	Middle Medway	The Middle Medway Strategy was completed in 2005 and was and reviewed in 2011. Instead the option of individual Property Protection measures with small scale stand alone defences for small groups of properties was seen to be the most effective solution.	63%	100%	5.5	10.00%	1.00%	0	0		2030	1,848,000	0	1,848,000	0	0	336	0

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Paddock Wood FAS	Paddock Wood, Kent	A number of incidents of surface water flooding associated with the small watercourses, sewerage and private drainage systems have been reported over recent years. Based on the cost estimate, an option for a surface water storage area at Gravelly Ways came out as most favourable. It ihas been recomended that this option be taken forward to further investigate the potential of storing water in the floodplain between the Gravelley Ways and the Tudeley Brook. Another option to increase capacity under the railway, also showed potential benefit. Additionally, increasing the capacity to the station car park culvert appears to be particularly beneficial, and a potential option to be prioritised and investigated. Other options with a positive cost benefit are retrofitting SUDS and property level protection, which it is understood would probably be achieved through an incentivised long-term program	92%	100%	6.7	3.33%	1.00%	0	0	2021/22	2023/24	1,130,000	80,000	1,010,000	40,000	0	425	0
Westgate - St Mildred's Bay - Coping/Berm Slab Replacement	Westgate on Sea, Kent	Upper courses of this precast sea wall and 'wave return' copings are exhibiting movement due to expansive forces/wave energy. Failure of these copings is anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. The works have been designed in detail and will consist of the renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) will also be renewed as part of the scheme. Some sea wall toe improvement work will also be included.	84%	100%	7.9	0.00%	0.00%	10	60	2020/21	2021/22	103,000	15,000	86,230	1,770	0	7	7
Viking Bay to Dumpton Gap - Berm Slab, Coping and Apron Repairs	Broadstairs, Kent	The sea wall between Viking Bay and Dumpton Gap was constructed in the late 1960's. The structure is inspected and maintained regularly and has been the subject of a number of small phased maintenance works contracts to replace failing concrete components. Some capital maintenance work is now required to maintain the longevity of this 1.2km long structure in key locations. This work will involve the replacement of wave return copings, berm slabs and some sea wall apron units. A much more comprehensive refurbishment/refacing will be required by approx 2030 when the wall will be in excess of 60 years old. However the proposed relatively inexpensive maintenance work along with regular locally funded maintenance will help to ensure that the structure achieves this lifespan.	38%	38%	6.9	0.00%	0.00%	50	50	2021/22	2022/23	125,000	0	43,500	0	81,500	0	0
Broadstairs Harbour - Groyne Refurbishment	Broadstairs, Kent	The groyne at Broadstairs Harbour is part of the pier head structure which holds sediment in Viking Bay Broadstairs. This beach helps to protect a number of business assets and residential properties from the risk of flooding. The beach itself is also of huge amenity value to the local area and vital to the local economy. The work proposed is the refurbishment of the groyne which has toe protection provided by steel sheet piles, these piles have now reached the end of their useful life.	29%	29%	5.2	2.00%	2.00%	0	0	2021/22	2022/23	180,000	0	51,600	0	128,400	0	0
South Ashford FAS, Ashford	Ashford, Kent	FAS to reduce flood risk in the South Ashford area from the East Stour.	24%	24%	1.6	20.00%	1.00%	0	0		2021/22	2,229,000	100,000	502,000	0	1,627,000	282	0
Front Brents FAS	Faversham	The frontage in Faversham is at risk of tidal flooding. A scheme needs to be developed to protect the propoerties at risk.	13%	13%	2.6	10.00%	1.30%	0	0	2015/16	2015/16	351,862	151,862	0	0	200,000	22	0
Minnis - Grenham Bay - Coping/Berm Slab Replacement	Birchington, Kent	Upper courses of this precast sea wall and 'wave return' copings are exhibiting movement due to expansive forces/wave energy. Failure of these copings is anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. The works have been designed in detail and will consist of the renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) will also be renewed as part of the scheme. Some sea wall toe improvement work will also be included.	7%	10%	1.3	0.00%	0.00%	30	80	2021/22	2022/23	404,000	15,000	30,000	0	359,000	0	0
Ashford Conveyance Improvements	River Stour and tributaries, Ashford	Conveyance Improvements projects on the River Stour and tributaries.	4%	4%	0.7	20.00%	20.00%	0	0		2016/17	220,000	20,000	0	0	200,000	32	0

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Hampton to Bishopstone Coast Protection Works	Beltinge nr Herne Bay	The works comprise new timber groynes and beach recycling in stages to ensure protection to the seawall, and later beach replenishment. Necessary to maintain the defences to a 1 in 100 year standard and protect the slopes from erosion and damage from overtopping in extreme events. The beach protecting the seawall against failure is low and an extreme event storm could cause the seawall to undermine and trigger a slip on the clay slopes behind, which have a low factor of safety against movement.	84%	90%	6.2	0.00%	0.00%	25	75	2022/23	2022/23	34,400,000	0	16,700,000	1,000,000	16,700,000	0	345
Downs Road, Folkestone Surface Water	Downs Road, Folkestone	Heavy rainfall and hydraulic overload of the sewer system has caused internal property flooding. Complete study to investigate source of flooding on Downs Road and undertake options testing. Options to consider include: Increase kerb heights to keep the surface water on the roads, store floodwater in the allotment gardens, permeable roads, consider installation of further gullies along Downs Road, potential for diversion to the Pent Stream, remove allotment drainage from main sewer network.	41%	77%	5.4	30.00%	5.00%	0	0	2021/22	2021/22	170,060	80,000	60	0	90,000	139	0
Coronation Parade Works	Folkestone , Kent	The concrete arches and maintenance gangway at Coronation Parade form an important sea defence to the soft cliffs behind as well as significant assets. This includes the internationally important National Grid Transco Interconnector structure which has the ability to provide upto 5% of the UK's peak electricity demaindand facilitates the cross border trade between the UK and Continental Europe. Comparison of topographic surveys suggest a steady recession of the top of the cliff and the potential for wave action to erode the toe of the exposed cliff. The arches are in a poor state of repair and failure to carry out remedial work would eventually lead to deterioration and eventual collapse. The solution involves refurbishment of the arches, works to arrest erosion of the cliff face behind and coastal protection of the eastern extent of the arches.	71%	71%	12.4	0.00%	0.00%	10	50	2022/23	2023/24	5,148,000	0	3,342,625	0	1,805,375	0	10
Conyer FAS	Conyer, Kent	A new coastal flood defence scheme to increase the standard of protection for up to 27 properties at risk.	40%	40%	2.0	5.00%	0.50%	0	0	2024/25	2024/25	270,000	0	104,000	0	166,000	33	0
Kennington Stream Trash Screen	Kennington Stream, Ashford	Install new trash screen to prevent culvert from blocking	19%	34%	1.0	0.50%	0.50%	0	0	2022/23	2022/23	120,000	0	26,000	0	94,000	10	0
Bridge & Patrixbourne Flood Alleviation Options Investigation	Villages of Bridge & Patrixbourne on the Nailbourne / Little Stour River, East Kent	Flooding in Bridge and Patrixbourne when the Nailbourne flows with around 100properties at risk from fluvial flooding. Also impacts of groundwater flooding here too. Invesitgation using modelling into a variety of options, with storage looking favourable following the Little Stour options review, but needs investigating a more detail to be confident of 1% standard of protection.	31%	31%	1.6	20.00%	1.00%	0	0	2023/24	2024/25	4,060,000	0	1,175,000	0	2,885,000	164	0
Littlebourne & Wickhambreaux Flood Alleviation Scheme	Littlebourne & Wickhambreaux Villages on the Little Stour, East Kent	Villages of Littlebourne and Wickhambreaux flood during high flows. A current flood relief channel offers around 5% standard of protection, but still issues with some mill structures. Increase capacity of relief channel and change structures with some defence building will provide 1% standard of protection.	30%	30%	3.4	10.00%	1.00%	0	0	2022/23	2023/24	3,546,000	0	1,050,000	0	2,496,000	74	0
Beult Towns FAS	Marden, Staplehurst and Headcorn, Kent	Staplehurst and Headcorn have regular incidents of flooding due to inefficient drainage systems during heavy rainfall or as a result of blockages in the drainage system. Soultion: To complete an integrated catchment model for Headcorn, Staplehurst and Marden and produce a partnership agreement with the EA and IDB for the maintenance of watercourses and associated assets.	24%	24%	1.6	3.33%	1.00%	0	0	2024/25	2017	640,000	90,000	250,000	0	300,000	193	0
Nailbourne Options Investigation	Villages on the River Nailbourne, between Bishopsbourne and Lyminge.	Over 150 proeprties at risk from fluvial flooding when the Nailbourne is in flow. Detailed modelling is required to test a variety of flood management options in the area to reduce risk, but providing best value for money for a solution ot the problem. The results will provide the evidence based approach for making these decisons and will aid consultation in the area on future schemes.	17%	17%	0.9	5.00%	1.00%	0	0	2016	2017	2,600,000	0	417,000	0	2,183,000	155	0
Ridham Dock Flood Defence Improvements	Ridham Dock, Sittingbourne, Kent	Replacing a 500m section of existing coastal flood defence which is in very poor condition	10%	10%	0.5	0.50%	0.10%	0	0	2017	2018	420,000	0	60,000	0	360,000	0	0
Maytham Tilting Weir Replacement	South West of Potman's Heath	Tilting weir that needs to be replaced in order to operate efficiently and safely	10%	10%	0.0	20.00%	20.00%	0	0	2024/25	2024/25	95,000	0	9,500	0	85,500	0	0

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Chipstead Hydraulic Study and Weir Refurbishment	Chevening Road, Chipstead, Kent	Investigation into the unconsented works and channels that enter the watercourse in order to reduce flood risk to properties	10%	10%	7.3	5.00%	0.50%	0	0	2016	2017	50,000	0	5,000	0	45,000	19	0
Brasted & Sundridge Weir Removal	Brasted and Sundridge	Removal of 3 weirs in order to reduce flood risk to local properties	10%	10%	30.1	1.00%	1.00%	0	0	2024/25	2016	9,000	0	900	0	8,100	0	0
Stonar Cut Refurbishment Works	Sandwich - West of Cut Bridge A256	Replacement of penstock seals and construction of new access platform to improve health and safety	8%	8%	0.3	1.30%	1.00%	0	0	2024/25	2024/25	250,000	0	20,000	0	230,000	13	0
Seabrook Stream Improvements	Hythe, and the villages of Horn Street, Newington, Peene, Frogholt Kent	Reduce Flood risk through design and construction of a FAS and reviewing the mainatenance regime of the area	8%	8%	1.5	0.50%	0.50%	0	0	2016	2024/25	250,000	0	20,500	0	229,500	79	0
Lower Stour Conveyance Activities	The Lower reaches of the Great Stour in East Kent between Fordwich and Sandwich	Desilting and pioneering work on the Lower River Stour between Fordwich and Sandwich	0%	0%	0.0	2.00%	1.00%	0	0	2016	2017	1,310,000	0	1,310,000	0	0	0	0
Culverts (Damigos Road and Shorne and Higham) Refurbishment/Replacement	Damigos Road and Shorne and Higham, Gravesend, Gravesham	0	0%	0%	0.0	4.00%	4.00%	0	0	2021	2022	150,000	0	150,000	0	0	0	0
Aldington Flood Storage Reservoir	East Stour, Aldington, Ashford	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Aylesford and Ditton Tidal Defences	Aylesford	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Camber Sands Maintenance	Camber, Rye TN31 7RH	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Great Stour Flood Wall Repairs from Grove Ferry to Sandwich	On lower tidal sections of the Great Stour.	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Hackling and Worth Minnis pumping station refurbishment	Hacklinge nr Sandwich	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Hothfield Flood Storage Reservoir	Great Stour, Hothfield, Ashford	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
New Hythe Tidal FAS	New Hythe	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Northern Sea Wall and Pegwell Bay to Deal shingle recharge	Northern Sea Wall - Between Reculver and Birchington	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Northern Sea Wall Managed Realignment	Between Reculver and Birchington	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
River Dour Desilting at Bridge Street	Bridge Street, Dover	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
River Dour Weedscreen Replacement	Townhall Street, near A20 subway	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Robertsbridge Flood Alleviation Scheme Remedials. Robertsbridge, East Sussex.	ROBERTSBRIDGE, EAST SUSSEX	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Rye Harbour Farm Remedials. Rye, East Sussex.	RYE NATURE RESERVE, LIME KILN COTTAGE, RYE HARBOUR, RYE, TN31 7TU	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Rye Town Walls West Remedials	Rye, East Sussex	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Seasalter Pumping Station	Seasalter	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
South Thames Estuary and Marshes Water Level Management Plan Study	South Thames Estuary and Marshes SSSI, near Higham, Gravesham	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Stour pumping stations refurbishments	Ash Level	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0

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Stourmouth Pumping Station Study	On the Little Stour in East Kent, where channel joins with Tidal Lower Stour	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Swale Flood Gate replacement	Isle of Sheppey	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Wouldham Tidal FAS	Wouldham	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Berm Surface Replacement - Stone Bay Broadstairs	Stone Bay Broadstairs Kent	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Broadstairs Harbour Flood Defence Scheme	Broadstairs Harbour - Broadstairs Kent	0	0%	0%	n/a	0.00%	0.00%	0	0			0	0	0	0	0	0	0
Dymchurch Sea Wall Access Remedials	Dymchurch , Kent	Dymchurch Sea Wall Access Remedial health and safety works	0%	0%	0.0	0.50%	0.50%	N/A	N/A	2016	2016	425,700	0	425,700	0	0	0	0
Minster Pumping Station Automatic Weed Screen	Minster, River Stour Tidal	Install automatic weedscreen at Minster Pumping station to prevent future blockages	0%	0%	0.0	2.00%	1.00%	0	0	2015	2016	150,000	0	150,000	0	0	0	0
Outfall Replacement	Swale	0	n/a	n/a	n/a	0.00%	0.00%	0	0			2,200,000	0	2,200,000	0	0	0	0
Iwade FAS	Iwade , nr Sittingbourne	0	n/a	n/a	n/a	0.00%	0.00%	0	0			2,000,000	0	2,000,000	0	0	0	0
River Teise Sluices Refurbishment	River Lesser Teise, Collier Street, Kent	The inspection, options appraisal, repair and decommissioning of 4 automatic sluices on the River Tiese.	n/a	n/a	n/a	5.00%	4.00%	0	0	2019/20	2022/23	1,850,000	0	0	0	1,850,000	0	0
Swale Innundation Sluices	Swale, North Kent	0	n/a	n/a	n/a	0.00%	0.00%	0	0			1,800,000	0	1,800,000	0	0	0	0
Swale Culvert Replacement	Swale, North Kent	0	n/a	n/a	n/a	0.00%	0.00%	0	0			1,500,000	0	1,500,000	0	0	0	0
Whitstable Flood Defence Works	Whitstable	0	n/a	n/a	n/a	0.00%	0.00%	0	0			1,200,000	0	1,200,000	0	0	2,387	0
Scrapsgate Tidal FAS	Minster, Isle of Sheppey	0	n/a	n/a	n/a	0.00%	0.00%	0	0			1,000,000	0	1,000,000	0	0	0	0
Reculver Coast Protection Works	Reculver near Herne Bay	0	n/a	n/a	n/a	0.00%	0.00%	0	0			995,000	0	995,000	0	0	11	0
Seasalter Coast Protection Works	Seasalter near Whitstable	0	n/a	n/a	n/a	0.00%	0.00%	0	0			910,000	0	791,800	100,000	18,200	0	241
Stoke, Middle Stoke and Lower Stoke FAS	Isle of Grain, Kent	0	n/a	n/a	n/a	0.00%	0.00%	0	0			700,000	0	700,000	0	0	0	0
Sittingbourne Milton Creek FAS	Sittongbourne	0	n/a	n/a	n/a	0.00%	0.00%	0	0			600,000	0	600,000	0	0	0	0
Sevenoaks Wildfowl & Wetland Reserve Flood Storage Project	Sevenoaks Wildfowl Reserve, Riverhead, Kent	0	n/a	n/a	n/a	0.00%	0.00%	0	0			500,000	0	300,000	0	200,000	120	0
Westerham Stream Investigation	Culvert running through Horton Way Industrial units, South Bank and Rysted Lane in Westerham, Kent	0	n/a	n/a	n/a	0.00%	0.00%	0	0			310,000	0	310,000	0	0	52	0
Total												317,716,241	52,063,122	186,933,447	46,578,097	32,141,575	48,670	9,505