













FRM1 Medium Term Plan Format 2012/13				Kent County Council LLFA - Local Authority Schemes			Local Contribution required	EXPENDITURE FORECAST FDGIA FUNDING ONLY £k															
Project Name	National Grid Reference of Project Location	Risk Management Authority	LLFA	Brief Description of Problem and Proposed Solution	Total Project Cost £k	Adjusted OM score		EXPENDITURE FORECAST															
								PREVIOUS YEARS	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	ALL YEARS			
								Pre Yr 0	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total FDGIA Funding			
Strategic Regional Coastal Monitoring - Canterbury Stage 2	N/A	Canterbury City Council	Kent	The monitoring comprises topographical beach surveys, hydrographic nearshore seabed surveys, aerial photography, LIDAR, hydrodynamic data recording and data management and dissemination. This provides a consistent regional approach for coastal process monitoring.	2,508															0			
Herne Bay Coastal Defence Strategy Plan	TR17476835	Canterbury City Council	Kent	The coastal defence strategy plan is well under way with major public consultation planned for November 2011 and completion and submission of the strategy in March 2012. The initial findings confirm a hold the line strategy of beach management, rock breakwater (improved) and improvement and raising of the rear seawall is very likely to be the recommended option. There are obvious high benefits from the low lying town centre.	180			125	30	25										180			
Management Unit 5B-Swalecliffe Strategy Study	TR14356773	Canterbury City Council	Kent	The coastal defence strategy plan has been submitted to NRG but some significant changes are needed for resubmission although NRG agreed the strategy proposals in principle.	115			100	15											115			
Tankerton Coast Protection Works	TR 12586732	Canterbury City Council	Kent	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 maintenance over 100 years.	1,160	78.91%	345		0	0	0	0	0	0	0	0	0	4,388	0	0	4,388		
Studd Hill & Hampton Coastal Defence Works	TR15026772	Canterbury City Council	Kent	The works proposed comprise a small beach recharge and new timber groynes to ensure that the seawall is always protected. Some extending and raising of the rear seawall is also required at low points and gaps.	1,510	65.49%	571		0	0							132	2,551	76	0	0	2,759	
Herne Bay Sea Defence Works	TR17476835	Canterbury City Council	Kent	The works (over the next twenty five years) comprise raising and extending the rear seawall, capital maintenance to the rock breakwater, with provision of additional rock, and beach recharge and new timber groynes. 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.	1,020	151.46%	0				70	850										920	
Hampton to Bishopstone Coast Protection Works	TR19686852	Canterbury City Council	Kent	The works comprise a major beach recharge and new timber groynes in stages to ensure protection to the seawall. 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.	1,620	62.48%	1458		0	0							109	73	2,927	1,149	0	4,257	
Reculver Coast Protection Works	TR22746940	Canterbury City Council	Kent	Capital maintenance works 20 years after completion of the main scheme (1999) in accordance with the approved strategy plan. The works will comprise seawall refacing, rock protection at the west end to prevent outflanking and grouting/block replacement to the Towers Apron. At that time this significant refurbishment will be needed to prevent failure of the seawall and the apron under wave action during a severe storm.	1,225	173.03%	0														410	825	
North Kent Shoreline Management Plan Future Review (SMP3)	N/a	Canterbury City Council	Kent	Second revision of the Isle of Grain to South Foreland SMP approx 10 years after approval of first review August 2010	210																#REF!		
Seasalter Coast Protection Works	TR 0918 6531	Canterbury City Council	Kent	First major beach recharge 15 years after completion of the main scheme (2006) in accordance with the approved strategy plan. Necessary in order to protect the integrity of the seawall based on the current assessment of beach erosion. Protecting 240 houses and the main railway line. Benefits and costs based on strategy plan updated to include actual works costs to 2006 and future capital and revenue maintenance over 100 years.	730	79.97%	246		0	0	0	0	0	0	0	0	0	0	0	2,142	0	2,142	
Whitstable Flood Defence Works	TR 1038 6649	Canterbury City Council	Kent	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 based on the current assessment of beach erosion. Protecting 2380 houses and the town centre. Benefits and costs based on strategy plan updated to include actual works costs to 2006 and future capital and revenue maintenance over 100 years.	1,100	291.24%	0													1,000		1,000	
South Foreland to Beachy Head Shoreline Management Plan - 10 Year Review	TR19003480	Shepway District Council	Kent	As lead authority, the Council will be required to ensure that the Action Plan is administered in accordance with the SMP requirements	75																	0	
Coronation Parade Works	TR23703630	Shepway District Council	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 up to 5% of the UK's peak electricity demand and 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.	5,988	99.00%	2293	128	20								55	516	3,011	4	4	3,755	
South Foreland to Beachy Head Shoreline Management Plan, Action plan	TR19003480	Shepway District Council	Kent	As lead authority, the Council will be required to ensure that the Action Plan is administered in accordance with the SMP requirements	50																	0	
Hythe to Folkestone Beach Management 2008 - 2013	TR19003480	Shepway District Council	Kent	Folkestone Harbour Coast Protection Scheme. The rock structures and new static beaches at Folkestone which were completed in 2004 have significantly reduced the risk of erosion; however, in order to maintain the 1 in 200 year (0.5%) standard of protection against flooding in Hythe, it is necessary to manage the large resource of shingle along this frontage. If shingle is not recycled from the collection areas back to the deposition sites then beach levels will begin to lower. This not only exposes the old seawall to violent wave attack and potential undermining, but significantly increases the risk of flooding from wave overtopping. Under the do-nothing scenario, i.e. if the beaches at Hythe are left unmanaged, it is estimated that the seawall will fail within 5 years and the natural ridge of high ground between the seawall and the flood compartment will breach within 10 years. The failure of the seawall and consequent erosion at Sandgate and Folkestone also has the potential to re-activate coastal landslips. This would result in the loss of over 700 residential dwellings and some key infrastructure. In addition, without the presence of a healthy beach in front of the seawall, wave overtopping will increase significantly.	662			221	221	220													662
Hythe to Folkestone Beach Management 2013 - 2017	TR19003480	Shepway District Council	Kent	Following the completion of the 2008 to 2013 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.	1,310	76.10%	313		0	0							222	924	924	924	924	4,840	
Greatstone Dunes Management (2008 - 2011)	TR 08202270	Shepway District Council	Kent	The dunes currently provides protection to approximately 155 houses located on the lower lying land behind the dunes system. The Folkestone to Cliff End Flood and Erosion Management Strategy (FCFEMS) 2008, report identified that the dunes have a 0.1% chance (1 in 100) of failure in any one year, which would most probably be brought about by a mechanism of erosion, with eventual failure as a result of a breach in the dunes. The Strategy proposal is to Hold the Line by managing the dune system with fencing to prevent erosion.	45			30	15														45
Greatstone Dunes Management (2012 - 2016)	TR 08202270	Shepway District Council	Kent	The dunes currently provides protection to approximately 155 houses located on the lower lying land behind the dunes system. The Folkestone to Cliff End Flood and Erosion Management Strategy (FCFEMS) 2008, report identified that the dunes have a 0.1% chance (1 in 100) of failure in any one year, which would most probably be brought about by a mechanism of erosion, with eventual failure as a result of a breach in the dunes. The Strategy proposal is to Hold the Line by managing the dune system with fencing to prevent erosion.	75	2350.34%	0	0	0	15	15	15	15	15	15	15							75
Hythe to Folkestone Harbour Coast Protection Scheme, Post Project Construction	TR19003480	Shepway District Council	Kent	Following the completion of the Hythe to Folkestone Harbour Coast Protection Scheme in 2004, Defra require the Council to carry out a post completion design review to ensure that public money has been spent in an appropriate manner and that the Scheme is performing as designed.	430			30	0							50	350					430	
HYTHE TO FOLKESTONE BEACH MANAGEMENT 2018 - 2022	TR19003480	Shepway District Council	Kent	Following the completion of the 2013 to 2017 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.	1,425	76.10%	341		0	0	0	0	0	0	340	866	883	900	917			4,840	
HYTHE TO FOLKESTONE BEACH RECHARGE	TR19003480	Shepway District Council	Kent	Following the completion of the 2008 to 2013 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.	6,000	133.19%	0													100		6,100	
HYTHE TO FOLKESTONE BEACH MANAGEMENT PLAN	TR19003480	Shepway District Council	Kent	Following the completion of the 2008 to 2013 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.	10																	0	
SOUTH FORELAND TO BEACHY HEAD SHORELINE MANAGEMENT PLAN - 20 YEAR REVIEW	TR19003480	Shepway District Council	Kent	As lead authority, the Council will be required to ensure that the Action Plan is administered in accordance with the SMP requirements	100																	100	
Scheme Walmer to Kingsdown beach management works 2009/10 - 2014/15	TR 37890 49660	Dover District Council	Kent	Properties at risk from coastal erosion if seawalls at Kingsdown and Oldstairs Bay fail. Beach management protects the existing seawalls.	509			269	120	0	120											509	
Scheme Walmer to Kingsdown beach management works 2014/15 - 2019/20	TR 37890 49660	Dover District Council	Kent	Properties at risk from coastal erosion if seawalls at Kingsdown and Oldstairs Bay fail. Works will involve new construction of timber groyne field and shingle recharge, followed by annual beach recycling.	4,127	45.46%	2351	360		0	0					56	1,737	10	10	10	2,205		
Further studies to re-alignment of MOD Rifle Range Area	TR 3789 4966	Dover District Council	Kent	Second stage of contamination study	75																75	75	
Surface Water Management Plan for Deal Town & Walmer	TR 3691 5272	Dover District Council	Kent	Properties of Deal Town have been at constant risk of surface flooding from many contributing factors. This study would help outline a surface water management plan and identify key areas for improvement development works	120											100	20					120	
Pegwell Bay/ Sandwich Road Flood Defence Scheme	TR34566386	Thanet District Council	Kent	Wave overtopping of the A256 during storm conditions causing damage to road/local properties. A low concrete flood wall on the line of existing sea wall would significantly improve the flood defence offered to the properties identified.	270	62.31%	102		0	20						149	0	0	0	0	0	169	
Margate Flood and Coast Protection Scheme	TR35307107	Thanet District Council	Kent	Margate's Harbour Arm protects and retains the main beach at Margate which in turn protects the seawall from wave action and scour. The densely populated Margate old town and Dreamland site are two low lying areas that benefit from the protection.	5,779			850	2,000	2,929													5,779
Westgate - St Mildred's Bay - Coping/Berm Slab Replacement	TR32087051	Thanet District Council	Kent	Upper courses of precast sea wall and 'wave return' copings exhibiting movement due to expansive forces/wave energy. Failure of copings anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. It is likely that works would consist of the construction of a new in situ cast toe to protect the sea from undermining and renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) would also be renewed as part of the scheme.	525	27.93%	378		0	0						7	140	0	0	0	0	147	
East of Epple to Westgate Bay - Sea Wall Refacing Works	TR31277003	Thanet District Council	Kent	Upper courses of precast sea wall and 'wave return' copings exhibiting movement due to expansive forces/wave energy. Failure of copings anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. It is likely that works would consist of the construction of a new in situ cast toe to protect the sea from undermining and renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) would also be renewed as part of the scheme.	330	30.50%	229		0	0						6	95	0	0	0	0	101	
St Mildred's Bay - Westbrook, Pointing and Expansion Joint Repairs	TR32847043	Thanet District Council	Kent	A capital coast protection scheme was undertaken here in 1995/96. Maintenance work is required in the near future to maintain the integrity of expansion joints and repoint failing joints between the wave return copings.	50	56.33%	22		0	0						28	0	0	0	0	0	28	
Minnis - Grenham Bay - Coping/Berm Slab Replacement	TR28896994	Thanet District Council	Kent	Upper courses of precast sea wall and 'wave return' copings exhibiting movement due to expansive forces/wave energy. Failure of copings anticipated within 5-7 years with more general sea wall failure expected to follow within 1-2 years, allowing cliff erosion to recommence. It is likely that works would consist of the construction of a new in situ cast toe to protect the sea from undermining and renewal of the coping (and first course below) with new precast units. The seaward berm slab (approx 4m wide) would also be renewed as part of the scheme.	315	29.57%	222		0							3	90	0	0	0	0	93	
Stone Bay - Sea Wall Berm Upper Surface Replacement	TR39966816	Thanet District Council	Kent	This sea wall consists of precast concrete facing and coping units with chalk fill behind and a dense bitumen macadam upper surface. The surface construction is approx 40 years old and requires replacement in the near future to avoid the unbound fill being washed out which would jeopardise the integrity of the structure. The replacement surface is likely to consist of a combination of concrete berm slabs (on the seaward side) and DBM surfacing.	215	109.24%	0									10	205						215
Thanet Groyne Reconstruction/Refurbishment	TR27476936	Thanet District Council	Kent	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 undermining 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.	475	64.33%	169		0							10	296	0	0	0	0	306	

