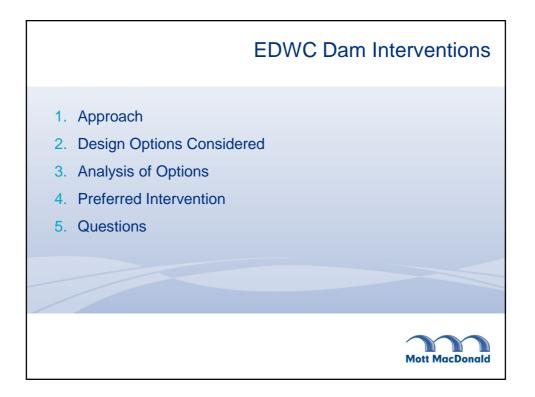
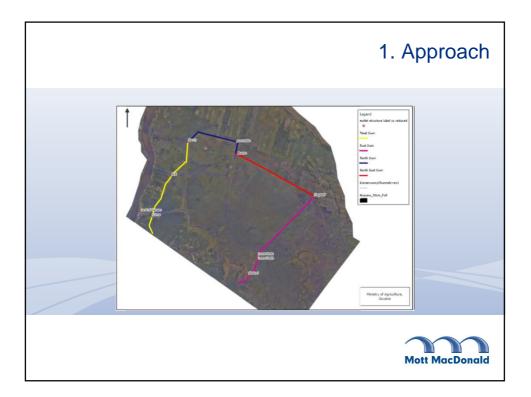


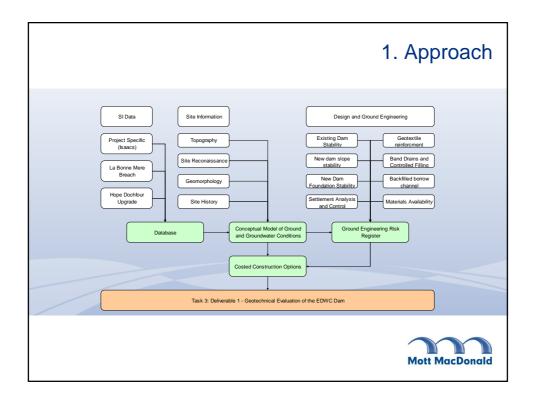
BILL DESCRIPTION AMOUNT (GYD) AMOUNT (USD)*
1 Preliminaries \$6,000,000 30,000
2 Earthworks and Clearance** \$5,804,299,500 29,021,498
EXTKofi Relief Structures and Channel Widening\$923,466,5334,617,333
Subtotal \$6,733,766,033 33,668,830
Civil Contingencies of 10% \$673,376,603 3,366,883
Grand Total (GYD) \$7,407,142,636 37,035,703

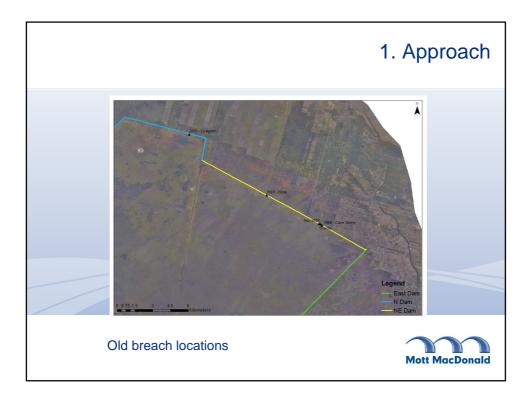




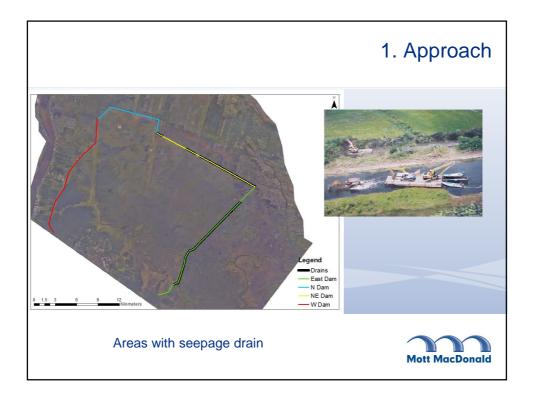


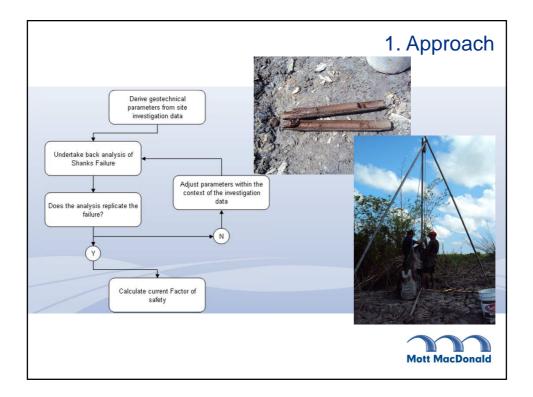


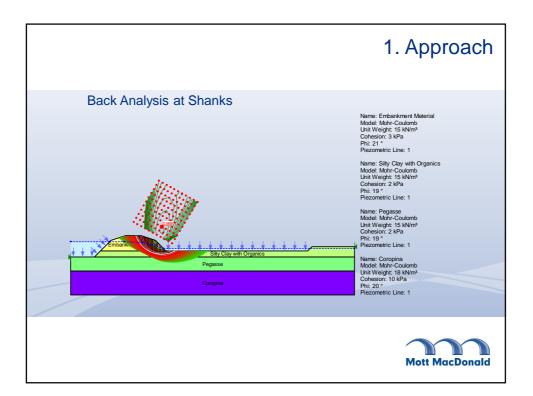




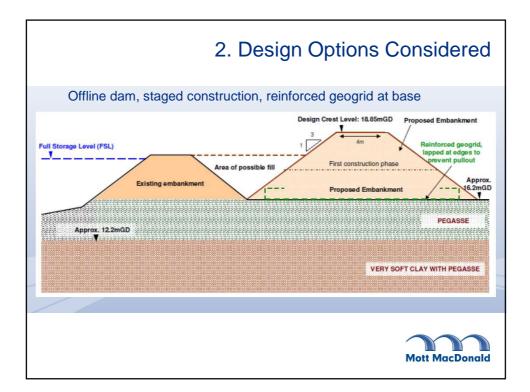


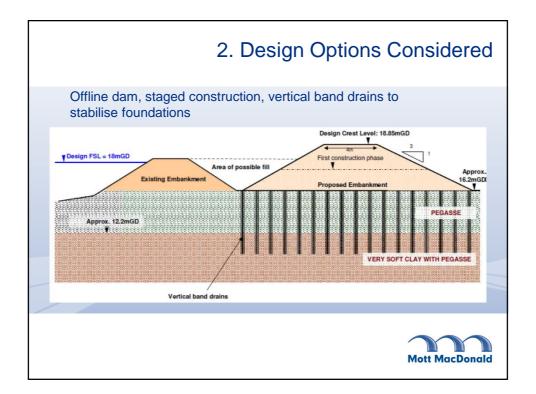


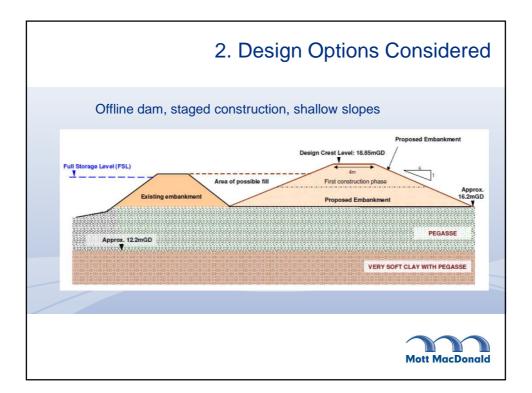




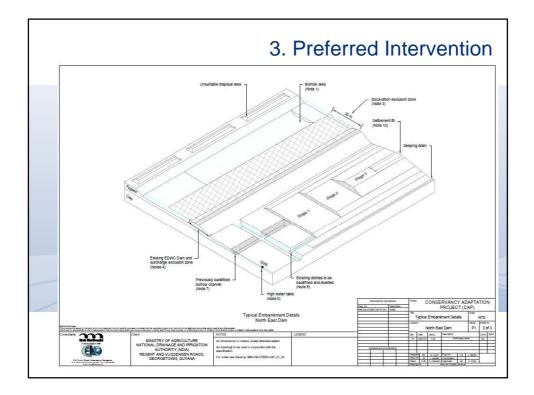
West 1.48 1.34 1.27 1.		Geometry	Турі	cal	Wor	st
	Dam	Parameters	Credible	Worst	Credible	Worst
	West		1.48	1.34	1.27	1.16
East 1.60 1.5 1.48 1.	East		1.60	1.5	1.48	1.38
North         1.48         1.4         1.08         1.	North	- Designed Cohesian	1.48	1.4	1.08	1.01
	North East		1.49	1.4	1.25	1.14

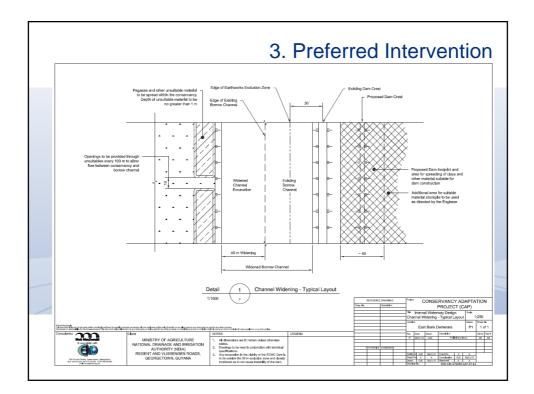


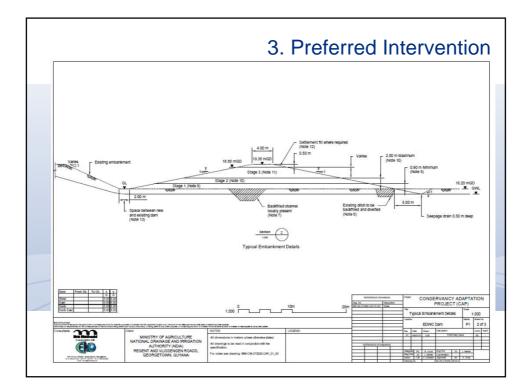




2. Analysi	s of Options
Indicative costs	
Indicative costs for North East Dam	US\$ Million
Earth dam with 1:3 side slopes and basal geofabric	7.5
Earth dam with 1:3 side slopes and wick drains (inc sand blanket)	9.5
Earth dam with 1:5 side slopes	5.5
Earth dam with 1:6 side slopes	6
	Mott MacDonald

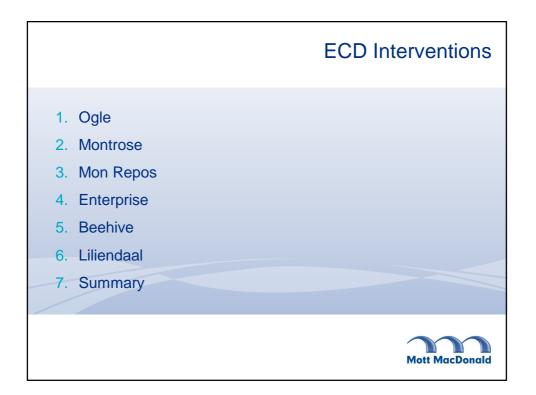


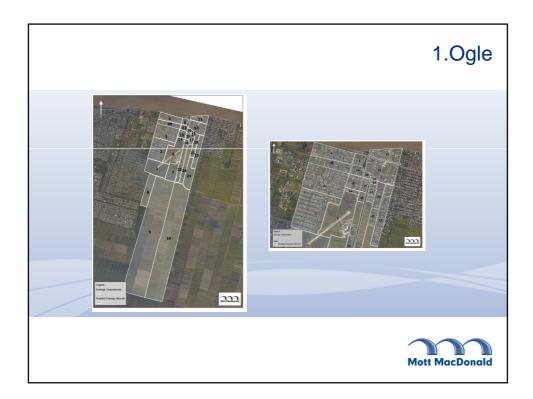


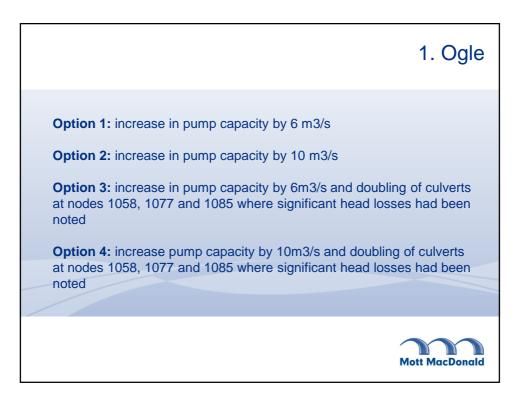






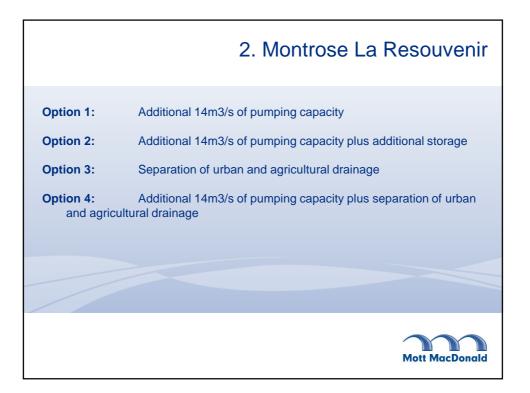


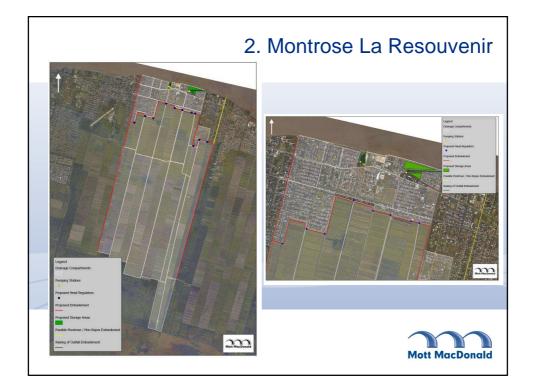




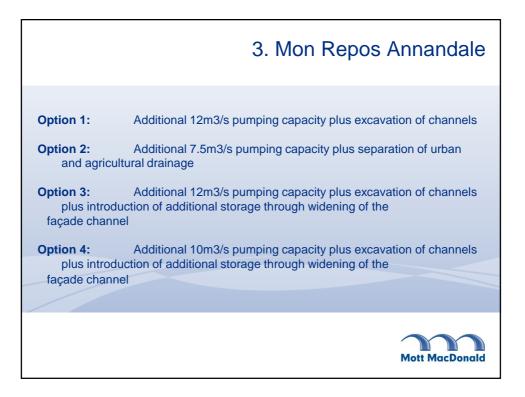


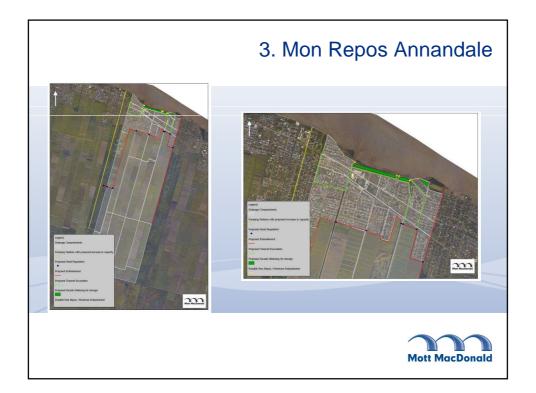
Land Use	Land Use Area (ha)	Baseline			Area	Benefited (ha)
		Flooded Area (ha)	Option 1	Option 2	Option 3	Option 4
Heavily Urbanised	124.9	44.4	39.0	40.2	39.0	41.3
Part Urbanised	211.7	80.6	72.4	77.5	72.4	77.9
Total Urbanised Land	Urbanised Land Benefited (ha)*			78.95	75.2	80.25
Cost of Option (GD)			290,129,434	387,699,434	311,958,809	417,648,809
Cost/ha Benefited (mi	illion GD)		3.86	4.91	4.15	5.20





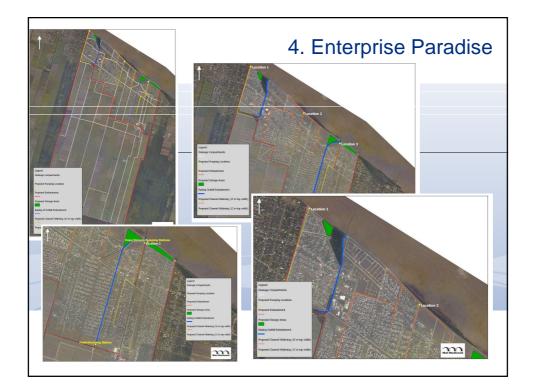
Land Use	Land Use Area (ha)	Baseline	Area Benefited (ha)			
		Flooded Area (ha)	Option 1	Option 2	Option 3	Option 4
Heavily Urbanised	221.53	116.12	71.86	74.47	76.06	90.03
Part Urbanised	219.53	126.36	57.34	58.14	62.45	82.34
Total Land Benefited (ha)*			100.53	103.54	107.285	131.2
Cost of Option (GD)			369,915,000	602,014,440	296,656,260	666,571,260
Cost/ha Benefited (million GD	))		3.68	5.81	2.77	5.08





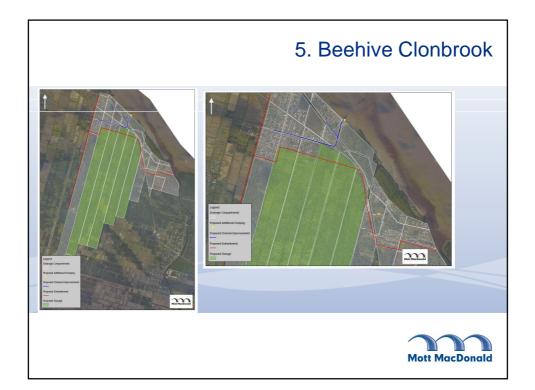
			3. M	on Rep	os Anna	andale
Land Use	Land Use Area (ha)	Baseline Flooded	Onting (	Outloa		Benefited (ha)
		Area (ha)	Option 1	Option 2	Option 3	Option 4
Heavily Urbanised	400.7	196.8	165.6	185.5	169.7	165.0
Part Urbanised	698.1	22.3	12.6	18.6	13.4	11.7
Total Land Benefited (	ha)*		171.9	194.8	176.4	170.85
Cost of Option (GD)			546,155,860	433,764,590	606,831,100	553,986,100
Cost/ha Benefited (mi	llion GD)		3.18	2.23	3.44	3.24
Option 2 gives the bes preferred option. It is a						
pumping capacity, and	benefits the gre	atest land area	a		Mott	MacDonald

			4. E	nterprise	e Paradise
Option 1: station (see be	2No new pumpin low) plus widened	•			lope pumping
Option 2: station (see be additional storage	2No new pumpin low) plus widenec	•			
Option 3: Option 4: station (see be separation of urba	2No new kokers 2No new pumpin low) plus wideneo in and agricultural	g station I channe	s plus additio Is plus rehabi	nal pumping at F	lope pumping
		4	Additional Pumpi	ng Capacity (m3/s)	
	Locati	on 1	Location 2	Hope PS	
Opt	ion 1	12.0	18.0	8.0	
Optie	on 2a	12.0	18.0	8.0	
Optio	on 2b	8.0	12.0	4.0	
Optio	on 2c	8.0	15.0	6.0	
Opt	ion 3	0	0	0	
Opt	ion 4	1.5	9.0	2.5	Mott MacDonald

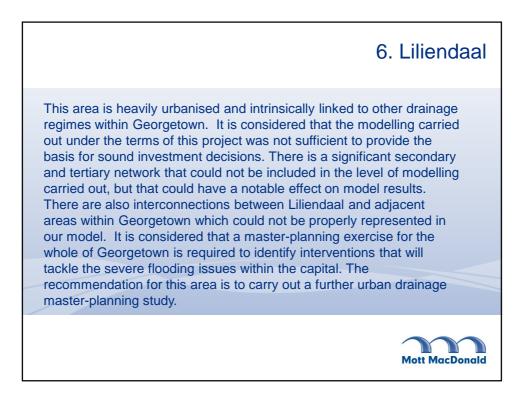


				4. Ent	erpris	e Para	dise
Land Use	Land Use Area (ha)	Baseline Flooded			a Benefited (ha		
	, <i>'</i>	Area (ha)	Option 1	Option 2	Option 2b	Option 2c	Option 4
Heavily Urbanised	295.54	183.39	167.51	173.18	167.10	173.29	175.76
Part Urbanised	993.05	766.76	602.52	659.82	519.29	643.11	665.93
Total Land Benefited (ha)*			468.77	503.09	426.745	494.845	508.725
Cost of Option (GD)			3,337,176,166	3,972,786,246	3,602,871,246	3,734,983,746	2,999,541,026
Cost/ha Benefited (mi	llion GD)		7.12	7.90	8.44	7.55	5.90
Option 4 gives the b preferred option. It i pumping capacity, a	is also worth not	ing that it is th	e option which in			Mott Ma	cDonald

	5. Beehive Clonbrook
Option 1:	Additional 150cusec pump at Greenfield pumping station
Option 2: station plus	Additional 2No 150cusec pumps at Greenfield pumping s channel widening
Option 3: drainage	Channel widening plus separation of urban and agricultural
<b>Option 4:</b> plus chann agricultural dr	Additional 150cusec pump at Greenfield Pumping station nel widening plus separation of urban and rainage
Option 5: widening p	Additional 3No 150cusec pumps at Greenfield plus channel plus additional storage
	Mott MacDonald



				5.	Beehiv	ve Clor	nbrook
Land Use	Land Use Area (ha)	Baseline Flooded Area (ha)	Option 1	Option 2	Area Benefited (ha) Option 3	Option 4	Option 5
Heavily Urbanised	127.1	71.6	11.3	36.7	55.2	68.8	54.38
Part Urbanised	88.5	28.9	8.1	18.0	20.3	22.0	21.8
Total Land Benefite	ed (ha)*		15.35	45.7	65.35	79.8	65.28
Cost of Option (GD	)		112,295,625	276,021,050	138,394,160	250,689,785	75,115,316,675
Cost/ha Benefited (	(million GD)		7.32	6.04	2.12	3.14	1150.66
been tak it is the o	en forward as th	ne preferred of introduction	option. It is also	and has therefore worth noting the umping capacity	at	Mott	MacDonald



7. Summary								
Drainage Areas	Option 1	Option 2	Options Option 3	Option 4	Option 5			
Ogle	Additional Pumping (6m3/s)	Additional Pumping (10m3/s)	Additional Pumping (6m3/s) Culvert Improvements	Additional Pumping (10m3/s) Culvert Improvements				
Montrose La Resouvenir	Additional Pumping (14m3/s)	Additional Pumping (14m3/s) Offline Storage	No Additional Pumping Restriction of Agricultural Drainage	Additional Pumping (14m3/s) Restriction of Agricultural Drainage				
Mon Repos Annandale	Additional Pumping (12m3/s) Small Channel Modifications	Additional Pumping (7.5m3/s) Restriction of Agricultural Drainage	Additional Pumping (12m3/s) Small Channel Modifications Widening façade drain to increase storage	Additional Pumping (10m3/s) Small Channel Modifications Widening façade drain to increase storage				
Enterprise Paradise	Additional Pumping (38m3/s) Channel Modifications	Additional Pumping (38m3/s) Channel Modifications Offline Storage	(Option 2b in Report) Additional Pumping (24m3/s) Channel Modifications Offline Storage	(Option 2c in Report) Additional Pumping (29m3/s) Channel Modifications Offline Storage	(Option 4 in Report) Additional Pumping (13m3/s) Channel Modification Restriction of Agricultural Drainage			
Beehive Clonbrook	Additional Pumping (4.25m3/s)	Additional Pumping (8.5m3/s) Channel Modfications	No Additional Pumping Channel Modifications Restriction of Agricultural Drainage	Additional Pumping (4.25m3/s) Channel Modifications Restriction of Agricultural Drainage	Additional Pumping (12.75m3/s) Channel Modification Offline Storage			

