

PMR Public Report

Operation Number	BH-L1043	Chief of Operations Validation Date	04/30/23
Year- PMR Cycle	Second period Jan-Dec 2022	Division Chief Validation Date	05/02/23
Last Update	04/28/23	Country Representative Validation Date	05/03/23
PMR Validation Stage	Validated by Representative		

Basic Data

Operation Profile

Operation Name	Climate Resilient Coastal Mangement and Infrastructure Program	Loan Number	4363/OC-BH
Executing Agency	MINISTRY OF PUBLIC WORKS	Sector/Subsector	ENVIRONMENT AND NATURAL DISASTERS-COASTAL ZONE MANAGEMENT
Team Leader	HORI, TSUNEKI	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	Bahamas
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	THE COMMONWEALTH OF THE BAHAMAS		

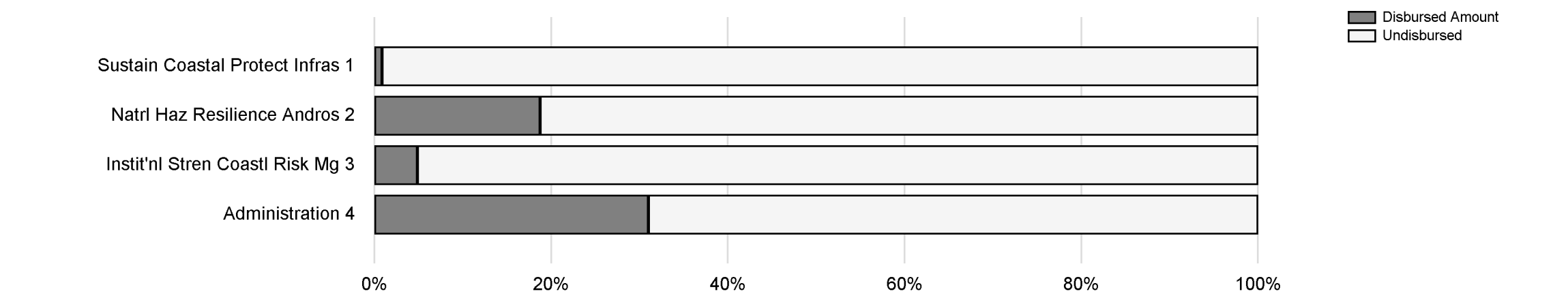
Environmental and Social Safeguards

Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating		Date of approval	
Safeguard Performance Rating - Rationale			

Financial Data

	Total Cost and Source					Available Funds (US\$)			
Operations	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount
BH-L1043	35,000,000	35,000,000	0	0	35,000,000	35,000,000	2,642,872.13	7.55%	32,357,127.87
Aggregated	35,000,000	35,000,000	0	0	35,000,000	35,000,000	2,642,872.13	7.55%	32,357,127.87

Expense Categories by Loan Contract (cumulative values)



Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

RESULTS MATRIX

General Development Objectives

General Development Objectives Nbr. 1: Social resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros increased

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
1.1	People injured, evacuated, relocated, with houses being damaged or destroyed, or requiring emergency assistance due to storms and floods over a three-year period.	# of beneficiaries	6710	2014	2024	P	6,370
						A	-
Details							

Means of Verification: DesInventar

Observations: This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)		
		Male				P	-
						A	-
		Female				P	-
						A	-

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
1.1	Economic losses caused by storms and floods over a three-year period.	USD millions of 2015	543	2018	2024	P	516
						A	-
Details							

Means of Verification: DesInventar

Observations: This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

General Development Objectives Nbr. 2: Environmental resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros maintained or increased

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
2.1	People exposed to reduced coastal risk due to attenuation of waves, erosion and flooding by coral reefs, mangroves and seagrasses.	# of beneficiaries	4610	2015	2024	P	4,953
						A	-
Details							

Means of Verification: InVEST Coastal Vulnerability Model

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)		
		Male				P	-

		Male	A	-
		Female	P	-
			A	-

General Development Objectives Nbr. 3: Economic resilience to coastal hazard events in New Providence increased

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
3.1	Total cruise ship tourism expenditures in Nassau and Paradise Island	USD millions of 2015	1109	2015	2024	P	1,192
						A	-
Details							

Means of Verification: Department of Statistics, GOBH

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

Specific Development Objectives

Specific Development Objectives Nbr. 1: Component 1. Sustainable coastal protection infrastructure

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.1	Terrestrial and marine protected areas with improved coastal zone management in EGB	hectares	0	2017	P	-	-	-	-	-	-	48,764.62	48,764.62
					A	-	-	-	-	-	-	-	

Details

Means of Verification: Data from The Bahamas National Trust (BNT)

Observations: The definition of this indicator is total terrestrial and marine area that is designated as a protected area and is managed systematically with effective measures by the government. See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.21 Habitat that is sustainably managed using ecosystem-based approaches (hectares) (C)								

Disaggregation		Forest and forest dominated	P	-	-	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-	-	-
		Wetlands and freshwater systems	P	-	-	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-	-	-
		Coastal and marine	P	-	-	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-	-	-

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.2	# of households with improved road access to Freeport due to flood reduction in EGB	# of households	0	2017	P	-	-	-	-	-	-	77	77
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics (statistical office in Freeport)

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.b Households with enhanced disaster and climate change resilience (# households) (C)								

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.3	# of people visiting the beaches and harbor area in New Providence	Visitors (#)	3266353	2017	P	-	-	-	-	-	-	3,985,280	3,985,280
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from The Bahamas Ministry of Tourism

Observations: See M&E plan and Economic Assessment Report for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator									

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.4	Households protected from flood risk (#) in Central Long Island	# of households	0	2017	P	-	-	-	-	-	-	328	328
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.b Households with enhanced disaster and climate change resilience (# households) (C)

Specific Development Objectives Nbr. 2: Component 2. Natural infrastructure for hazard resilience in Andros

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.1	# of people in the local communities participating in the designing, monitoring and maintenance of the nature based solution	People (#)	0	2017	P	-	-	-	-	-	-	220	220
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Community workshop reports

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.2	Coastline where coastal risk is reduced based on the protection provided by natural habitat	Shoreline coverage (%)	71	2018	P	-	-	-	-	-	-	71	71
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: InVEST Coastal Vulnerability Model

Observations: Baseline is the share of Andros coastline where coastal habitats reduce risks from waves, flooding and erosion in 2015. National estimates will be provided for both baseline and end-of-project years in the ex-post impact evaluation

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.3	% of women participating in the designing, monitoring and maintenance of the nature based solution.	Women (%)	51	2018	P	-	-	-	-	-	-	61	61
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Community workshop reports

Observations: Gender tracking See M&E plan for the EOI value calculation used for this indicator

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.4	Amount of CO2 captured by restored mangrove	Volume (tons)	0	2018	P	-	-	-	-	-	-	28,800	28,800
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data (Mangrove restoration area) from BNT

Observations: See M&E plan for the CO2 calculation model used for this indicator

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.5	Beneficiaries of improved management and sustainable use of natural capital	# of beneficiaries	0	2018	P	-	-	-	-	-	-	9,221	9,221
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics

Observations: See M&E plan for the EOI value calculation used for this indicator

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)									
Disaggregation		Male				P	-	-	-	-	-	-	-	-
						A	-	-	-	-	-	-	-	-
		Female				P	-	-	-	-	-	-	-	
						A	-	-	-	-	-	-	-	

Specific Development Objectives Nbr. 3: Component 3. Institutional strengthening for coastal risk management

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
3.1	Government agencies benefited by projects that strengthen technological and managerial tools to improve public service delivery (#)	Government agencies (#)	0	2017	P	-	-	-	-	-	-	1	1
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Semiannual progress reports

Observations: MOWUD as the government agency will be the target agency. “strengthen technological and managerial tools to improve public service delivery” refers to the accomplishment of: - Coastal Program Management Unit (CPU) in operation (output 3.1) - Costal Hazard monitoring in operation (output 3.2) - Sustainable finance study developed and approved (output 3.3) See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Component # 1: Sustainable coastal protection infrastructure

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
1.01	Output 1.1.1: Baseline study at East Grand Bahama completed	Studies (#)	P	-	1	47,000	447,000
			P (a)	-	1	50,000	447,264.48
			A	-	-	67,264.48	68,764.48
1.02	Output 1.1.2: Detailed infrastructure design at East Grand Bahama completed	Design work document (#)	P	-	1	25,000	50,000
			P (a)	-	1	30,000	30,000
			A	-	-	-	-
1.03	Output 1.1.3: Coastal protection natural infrastructure at EGB implemented	Project sites (#)	P	-	2	-	60,000
			P (a)	-	2	48,500	100,000
			A	-	-	-	1,500
1.04	Output 1.1.4: Coastal protection (structural solutions) infrastructure at EGB implemented	Households (#)	P	-	2	143,000	1,943,000
			P (a)	-	2	-	2,010,200
			A	-	-	-	-
1.05	Output 1.2.1: Baseline study in New Providence completed	Project sites (#)	P	1	1	500,000	1,172,400
			P (a)	-	1	250,000	683,172.25
			A	-	-	283,172.25	283,172.25
1.06	Output 1.2.2: Detailed Infrastructure design in New Providence completed	Design work document (#)	P	-	1	200,000	400,000
			P (a)	1	1	250,000	395,000
			A	-	-	-	-
1.07	Output 1.2.3: Coastal protection hard infrastructure in New Providence implemented	Types of Structure measures (#)	P	-	2	427,600	6,427,600
			P (a)	-	2	-	7,966,287.08
			A	-	-	-	-
1.08	Output 1.2.4: Harbor protection measures in New Providence implemented	Structure measures (#)	P	-	2	-	10,000,000
			P (a)	-	2	-	10,000,000
			A	-	-	-	-
1.09	Output 1.3.1: Baseline study in Central Long Island completed	Studies (#)	P	-	1	200,000	700,000
			P (a)	-	1	50,000	753,271.3
			A	-	-	3,271.3	3,271.3
1.10	Output 1.3.2: Detailed infrastructure design in Central Long Island completed	Design work document (#)	P	-	1	-	150,000
			P (a)	-	1	30,000	30,000
			A	-	-	-	-
1.11	Output 1.3.3: Coastal flood reduction infrastructure in Central Long Island implemented	Project sites (#)	P	-	4	-	2,150,000
			P (a)	-	4	-	2,150,000
			A	-	-	-	-

Component Nbr. 2 Component # 2: Natural infrastructure for hazard resilience in Andros

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
2.01	Output 2.1: Baseline study to inform selection of priority sites for demonstration projects in Andros completed	Studies (#)	P	-	1	-	200,000
			P (a)	-	1	350,000	784,043.76
			A	-	-	434,043.76	434,043.76
2.02	Output 2.2: Stakeholder validation workshops in each district executed	Workshops (#)	P	-	4	-	10,000
			P (a)	2	4	5,000	15,000
			A	-	-	-	-
2.03	Output 2.3: Site specific assessment for nature-based intervention completed	Assessment document (#)	P	-	4	100,000	700,000
			P (a)	2	4	325,000	675,000
			A	-	-	-	75,000
2.04	Output 2.4: Coastal ecosystems restoration implemented	Hectares	P	-	200	50,000	2,050,000
			P (a)	-	200	75,000	2,025,000
			A	-	-	-	400,000
2.05	Output 2.5: Communication and community participation plan for project sustainability completed	Planning document (#)	P	-	1	-	40,000
			P (a)	-	1	15,000	55,000
			A	-	-	-	25,000

Component Nbr. 3 Component III: Institutional strengthening for coastal risk management

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
3.01	Output 3.1: Coastal Program Management Unit (CPU) in operation	Accomplishment of milestone (#)	P	1	6	-	1,600,000
			P (a)	-	6	50,000	473,683.98
			A	-	-	44,683.98	73,683.98
3.02	Output 3.2: Costal Hazard monitoring in operation	Accomplishment of milestone (#)	P	-	3	-	980,000
			P (a)	-	3	20,000	835,000
			A	-	-	142,568.4	157,568.4
3.03	Output 3.3: Sustainable finance study developed and approved	Study document (#)	P	-	1	-	920,000
			P (a)	-	1	-	920,000
			A	-	-	-	-

Other Cost				
	Contingencies	P		3,000,000
		P (a)		3,000,000
		A	0	0
	Program Implementation Unit	P		1,500,000
		P (a)	125,000	1,334,968.75
		A	223,768.75	894,968.75
	Financial Audits	P		200,000
		P (a)	7,000	143,040
		A	18,040	23,040
	Evaluation and Monitoring	P		300,000
		P (a)	5,000	120,000
		A	0	0
Total Cost				
	Total Cost	P	1,692,600	35,000,000

	Total Cost	P (a)	1,685,500	34,945,931.6
		A	1,216,812.92	2,440,012.92

CHANGES TO THE MATRIX

Section	Name	Type of Change	Sub type	Modified By	Entered in System
Output	Output 1.1.1: Baseline study at East Grand Bahama completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 1.1.2: Detailed infrastructure design at East Grand Bahama completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 1.1.3: Coastal protection natural infrastructure at EGB implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 1.2.1: Baseline study in New Providence completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 1.2.2: Detailed Infrastructure design in New Providence completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 1.2.3: Coastal protection hard infrastructure in New Providence implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 1.2.4: Harbor protection measures in New Providence implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 1.3.1: Baseline study in Central Long Island completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 1.3.2: Detailed infrastructure design in Central Long Island completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 2.1: Baseline study to inform selection of priority sites for demonstration projects in Andros completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/15/2023
	Output 2.2: Stakeholder validation workshops in each district executed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 2.3: Site specific assessment for nature-based intervention completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 2.4: Coastal ecosystems restoration implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 3.1: Coastal Program Management Unit (CPU) in operation	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023
	Output 3.2: Costal Hazard monitoring in operation	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/24/2023

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy		
1	Inactive		Organizational Structure		
	Response Actions				
	1.01	Management Strategy		Status	
		MITIGATE		ACTIVE	
	1.02	Management Strategy		Status	
		MITIGATE		ACTIVE	

Risk ID	Risk Status		Risk Taxonomy		
2	Inactive		Planning		
	Response Actions				
	2.01	Management Strategy		Status	
		MITIGATE		ACTIVE	

Risk ID	Risk Status		Risk Taxonomy		
3	Inactive		Planning		
	Response Actions				
	3.01	Management Strategy		Status	
		ACCEPT		COMPLETE	

Risk ID	Risk Status		Risk Taxonomy		
4	Inactive		Planning		
	Response Actions				
	4.01	Management Strategy		Status	
		ACCEPT		COMPLETE	

Risk ID	Risk Status		Risk Taxonomy		
5	Inactive		Technical Design		
	Response Actions				
	5.01	Management Strategy		Status	
		ACCEPT		ACTIVE	
	5.02	Management Strategy		Status	
		MITIGATE		ACTIVE	

Risk ID	Risk Status		Risk Taxonomy
6	Inactive		Political Environment
	Response Actions		
	6.01	Management Strategy	Status
		ACCEPT	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
7	Active		Planning
	Response Actions		
	7.01	Management Strategy	Status
		ACCEPT	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
8	Inactive		Political Environment
	Response Actions		
	8.01	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
9	Inactive		Political Environment
	Response Actions		
	9.01	Management Strategy	Status
		ACCEPT	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
10	Active		Organizational Structure		
	Response Actions				
	10.01	Management Strategy		Status	
		MITIGATE		ACTIVE	
	10.02	Management Strategy		Status	
		ACCEPT		ACTIVE	

Risk ID	Risk Status		Risk Taxonomy		
11	Inactive		Natural Environment		
	Response Actions				
	11.01	Management Strategy		Status	
		ACCEPT		ACTIVE	
	11.02	Management Strategy		Status	
		ACCEPT		COMPLETE	

Risk ID	Risk Status		Risk Taxonomy		
12	Inactive		Institutional Environment		
	Response Actions				
	12	Management Strategy		Status	

Risk ID	Risk Status		Risk Taxonomy		
13	Inactive		Organizational Structure		
	Response Actions				
	13.01	Management Strategy		Status	
		MITIGATE		ACTIVE	
	13.02	Management Strategy		Status	
		ACCEPT		ACTIVE	

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Project Management Capacity
Project Monitoring & Evaluation