Hampton Roads Beneficial Use of Dredged Material Continuing Authorities Program, Section 204

Appendix D - Cost Engineering

Draft Detailed Project Report and Environmental Assessment





Printed:11/7/2024 Page 1 of 11

9/9/2024

PREPARED:

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

PROJECT NO: P2 xxxxxx

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate

This Estimate reflects the scope and schedule in report;

HR Beneficial (Birds Island

DISTRICT: Norfolk District
POC: CHIEF, COST ENGINEERING, xxx

ESTIMATED TOTAL PROJECT COST:

Civ	ril Works Work Breakdown Structure		ESTIMATE	D COST					JECT FIRST (stant Dollar E					ROJECT CO: Y FUNDED)	ST
									Budget EC): Level Date:	2025 1 OCT 24 I	1				
										Spent Thru:	TOTAL FIRST				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-23	COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u> A	Feature & Sub-Feature Description B	(\$K) C	_(\$K)_ D	<u>(%)</u> E	_(\$K)_ F	<u>(%)</u> G	_(\$K)_ H	(\$K) <i>I</i>	<u>(\$K)</u> J	_(\$K)_	<u>(\$K)</u> K	<u>(%)</u> <i>L</i>	_(\$K)_ M	_(\$K)_ N	<u>(\$K)</u> O
02	RELOCATIONS	-\$2,344	\$0 -		-\$2,344	_	-\$2,413	\$0	-\$2,413	\$0	-\$2,413	_	-\$2,507	\$0	-\$2,507
06	FISH & WILDLIFE FACILITIES	\$7,706	\$2,543	33.0%	\$10,249	2.9%	\$7,933	\$2,618	\$10,550	\$0	\$10,550	6.6%	\$8,455	\$2,790	\$11,245
06	FISH & WILDLIFE FACILITIES	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
		\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
		\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0 \$0	-	\$0	\$0 \$0	\$0
		\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0
		\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0
	CONSTRUCTION ESTIMATE TOTALS:	\$5,362	\$2,543	_	\$7,905	2.9%	\$5,520	\$2,618	\$8,137	\$0	\$8,137	7.4%	\$5,948	\$2,790	\$8,738
01	LANDS AND DAMAGES	\$44	\$9	20.0%	\$53	2.7%	\$45	\$9	\$54	\$0	\$54	1.3%	\$46	\$9	\$55
30	PLANNING, ENGINEERING & DESIGN	\$1,685	\$781	46.3%	\$2,466	3.4%	\$1,742	\$807	\$2,550	\$0	\$2,550	2.8%	\$1,787	\$833	\$2,620
31	CONSTRUCTION MANAGEMENT	\$1,117	\$369	33.0%	\$1,486	3.4%	\$1,156	\$381	\$1,537	\$0	\$1,537	7.9%	\$1,247	\$412	\$1,659
	PROJECT COST TOTALS:	\$8,208	\$3,701	45.1%	\$11,910		\$8,463	\$3,816	\$12,278	\$0	\$12,278	6.5%	\$9,028	\$4,044	\$13,072

Keith R. Butler

CHIEF, COST ENGINEERING, xxx

Kim Koelsch

PROJECT MANAGER, xxx

Donna Carrier-Tai

CHIEF, REAL ESTATE, xxx

Michelle Hamor

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

CHIEF, CONSTRUCTION, xxx

CHIEF, CONTRACTING,xxx

CHIEF, PM-PB, xxxx

CHIEF, DPM, xxx

Filename: DRAFT 23 SEPT 2024 TPCS BIRDS ISLAND.xlsx TPCS

\$13,072

**** CONTRACT COST SUMMARY ****

PROJECT:

HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)
Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate LOCATION: This Estimate reflects the scope and schedule in report; HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

9/9/2024 PREPARED:

Civil	Works Work Breakdown Structure		ESTIMATE	D COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY F	FUNDED)	
			nate Prepared ve Price Leve		15-Aug-24 1-Oct-23		m Year (Buo ve Price Lev		2025 1 OCT 24					
			R	ISK BASED										
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>UMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	(\$K)	(%)	_(\$K)_	<u>(%)</u>	(\$K)	(\$K)	(\$K)	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	(\$K)	(\$K)
Α	B	С	D	E	F	G	Н	1	J	P	L	М	N	0
02	27" Cutter Suction RELOCATION	60	¢ο	0.0%	ስታ ስታ	0.0%	\$0	\$0	¢ο	0	0.0%	\$0	¢Ω	
06	FISH & WILDLIFE FACILITIES	\$0 \$7,706	\$0 \$2,543	33.0%	\$0 \$10,249	2.9%	\$7,933	\$2,618	\$0 \$10,550	2027Q3	6.6%	\$8,455	\$0 \$2,790	\$1
06	FISH & WILDLIFE FACILITIES	\$7,700	\$2,543 \$0	0.0%	\$10,249	0.0%	\$1,933 \$0	\$2,010	\$10,550 \$0	2027Q3 n	0.0%	\$8,433 \$0	\$2,790 \$0	φı
00	FIGH & WIEDER ET AGIEFFIEG	\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0	0	0.0%	\$0 \$0	\$0 \$0	
		\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0	\$0	\$0	o o	0.0%	\$0 \$0	\$0 \$0	
		\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0	\$0	\$0	o o	0.0%	\$0 \$0	\$0 \$0	
		\$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0	\$0	\$0	o o	0.0%	\$0	\$0 \$0	
		\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0 \$0	
					 	-							· 	
	CONSTRUCTION ESTIMATE TOTALS:	\$7,706	\$2,543	33.0%	\$10,249		\$7,933	\$2,618	\$10,550			\$8,455	\$2,790	\$11
01	LANDS AND DAMAGES	\$44	\$9	20.0%	\$53	2.7%	\$45	\$9	\$54	2025Q3	1.3%	\$46	\$9	
30	PLANNING, ENGINEERING & DESIGN													
2.5%	•	\$193	\$64	33.0%	\$256	3.4%	\$199	\$66	\$265	2025Q3	1.5%	\$202	\$67	
1.0%	-	\$77	\$25	33.0%	\$102	3.4%	\$80	\$26	\$106	2025Q3	1.5%	\$81	\$27	
15.0%	,	\$1,156	\$381	33.0%	\$1,537	3.4%	\$1,195	\$394	\$1,590	2025Q3	1.5%	\$1,214	\$401	\$
1.0%		\$77	\$25	33.0%	\$102	3.4%	\$80	\$26	\$106	2025Q3	1.5%	\$81	\$27	
1.0%	Life Cycle Updates (cost, schedule, risks)	\$77	\$25	33.0%	\$102	3.4%	\$80	\$26	\$106	2025Q3	1.5%	\$81	\$27	
1.0%	Contracting & Reprographics	\$77	\$25	33.0%	\$102	3.4%	\$80	\$26	\$106	2025Q3	1.5%	\$81	\$27	
3.0%	Engineering During Construction	\$231	\$76	33.0%	\$307	3.4%	\$239	\$79	\$318	2027Q3	7.9%	\$258	\$85	
2.0%	5 5	\$154	\$51	33.0%	\$205	3.4%	\$159	\$53	\$212	2027Q3	7.9%	\$172	\$57	
3.0%		\$231	\$76	33.0%	\$307	3.4%	\$239	\$79	\$318	2027Q3	7.9%	\$258	\$85	
1.0%	, ,	\$77	\$25	33.0%	\$102	3.4%	\$80	\$26	\$106	2025Q3	1.5%	\$81	\$27	
	Real Estate (All Federal Labor)	\$26	\$5	20.0%	\$31	3.4%	\$27	\$5	\$32	2026Q2	3.9%	\$28	\$6	
31	CONSTRUCTION MANAGEMENT													
10.0%	-	\$771	\$254	33.0%	\$1,025	3.4%	\$797	\$263	\$1,060	2027Q3	7.9%	\$860	\$284	\$
2.0%	·	\$154	\$51	33.0%	\$205	3.4%	\$159	\$53	\$212	2027Q3	7.9%	\$172	\$57	
2.5%	Project Management	\$193	\$64	33.0%	\$256	3.4%	\$199	\$66	\$265	2027Q3	7.9%	\$215	\$71	
	CONTRACT COST TOTALS:	\$11,244	\$3,701		\$14,945		\$11,591	\$3,816	\$15,406			\$12,284	\$4,044	\$1

Filename: DRAFT 23 SEPT 2024 TPCS BIRDS ISLAND.xlsx

TPCS

PREPARED:

9/9/2024

**** TOTAL PROJECT COST SUMMARY ****

**** CONTRACT COST SUMMARY ****

PROJECT:

HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)
Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate LOCATION: This Estimate reflects the scope and schedule in report; HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

c	ivil Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		m Year (Buo ve Price Lev	•	2025 1 OCT 24					
WBS <u>NUMBER</u> A	Civil Works <u>Feature & Sub-Feature Description</u> B	COST _(\$K) 	CNTG _(\$K)_ D	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <i>F</i>	ESC (%) G	COST _(\$K)_ <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K) 	Mid-Point <u>Date</u> P	INFLATED(%)	COST <u>(\$K)</u> M	CNTG _(\$K) N	FULL (\$K) O
	FEDERAL STANDARD		_	_	•			•	•	,	_	•••		
06	FISH & WILDLIFE FACILITIES	-\$2,344	\$0	0.0%	-\$2,344	2.9%	-\$2,413	\$0	-\$2,413	2026Q3	3.9%	-\$2,507	\$0	-\$2,507
		\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
		\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
		\$0 \$0	\$0 \$0	0.0% 0.0%	\$0 ©0	0.0%	\$0 ©0	\$0 ©0	\$0 \$0	0	0.0% 0.0%	\$0	\$0 ¢0	\$0 \$0
		\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0% 0.0%	\$0 \$0	\$0 \$0	\$0 \$0	0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
		\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0	0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
		\$0 \$0	\$0 \$0	0.0%	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0	0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
		ΨŰ	Ų.	0.070	Ψū	0.070	Ψ	Ψ.	Ų.		0.070	4 0	40	40
	CONSTRUCTION ESTIMATE TOTALS:	-\$2,344	\$0	0.0%	-\$2,344	-	-\$2,413	\$0	-\$2,413			-\$2,507	\$0	-\$2,507
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
	.5% Project Management	-\$59	\$0	0.0%	-\$59	3.4%	-\$61	\$0	-\$61	2026Q2	3.9%	-\$63	\$0	-\$63
	.0% Planning & Environmental Compliance	-\$23	\$0	0.0%	-\$23	3.4%	-\$24	\$0	-\$24	2026Q2	3.9%	-\$25	\$0	-\$25
15	.0% Engineering & Design	-\$352	\$0	0.0%	-\$352	3.4%	-\$364	\$0	-\$364	2026Q2	3.9%	-\$378	\$0	-\$378
1	.0% Reviews, ATRs, IEPRs, VE	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
1	.0% Life Cycle Updates (cost, schedule, risks)	-\$23	\$0	0.0%	-\$23	3.4%	-\$24	\$0	-\$24	2026Q2	3.9%	-\$25	\$0	-\$25
	.0% Contracting & Reprographics	-\$23	\$0	0.0%	-\$23	3.4%	-\$24	\$0	-\$24	2026Q2	3.9%	-\$25	\$0	-\$25
	.0% Engineering During Construction	-\$70	\$0	0.0%	-\$70	3.4%	-\$73	\$0	-\$73	2027Q3	7.9%	-\$78	\$0	-\$78
	.0% Planning During Construction	-\$47	\$0 *0	0.0%	-\$47	3.4%	-\$48	\$0 \$0	-\$48	2027Q3	7.9%	-\$52	\$0 ¢0	-\$52
	.0% Adaptive Management & Monitoring	-\$70	\$0	0.0%	-\$70	3.4%	-\$73	\$0 \$0	-\$73	2027Q2	7.1%	-\$78	\$0 ¢0	-\$78
1	.0% Project Operations Real Estate (All Federal Labor)	-\$23 \$0	\$0 \$0	0.0% 0.0%	-\$23 \$0	3.4% 0.0%	-\$24 \$0	\$0 \$0	-\$24 \$0	2026Q2 0	3.9% 0.0%	-\$25 \$0	\$0 \$0	-\$25 \$0
24	· · · · · · · · · · · · · · · · · · ·													·
31	CONSTRUCTION MANAGEMENT	ው ር	Φ.	0.00/	ФО.	0.00/	Φ0	Φ0	Φ0		0.00/	Φ0	40	40
	.0% Construction Management	\$0 \$0	\$0 \$0	0.0%	\$0 ©0	0.0%	\$0 ©0	\$0 \$0	\$0 ©0	0	0.0%	\$0 \$0	\$0 ¢0	\$0 ¢0
	.0% Project Operation:	\$0 \$0	\$0 \$0	0.0% 0.0%	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0	0	0.0% 0.0%	\$0 \$0	\$0 \$0	\$0 ¢0
O	.0% Project Management	Φ U	\$0	U.U%	\$0	0.0%	Φ U	Φ U	\$0		U.U%	Φ 0	Φ υ	\$0
	CONTRACT COST TOTALS:	-\$3,035	\$0		-\$3,035		-\$3,128	\$0	-\$3,128			-\$3,257	\$0	-\$3,257

Filename: DRAFT 23 SEPT 2024 TPCS BIRDS ISLAND.xlsx

TPCS

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate This Estimate reflects the scope and schedule in report; HR Beneficial (Birds Island

DISTRICT: Norfolk District POC: CHIEF, COST ENGINEERING, xxx

\$0

\$0

\$0

PREPARED:

\$0

\$0

\$0

9/9/2024

Civil	l Works Work Breakdown Structure		ESTIMAT	ED COST			PROJECT (Constant				TOTAL PROJEC	CT COST (FULLY)	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		m Year (Bud ve Price Lev		2025 1 OCT 24					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description		(\$K)			ll .		(\$K)	(\$K)	II	_(%)_		(\$K)	
Α	В	(\$K) C	D	<u>(%)</u> E	(\$K) F	<u>(%)</u> G	(\$K) H	1	J	<u>Date</u> P	L	<u>(\$K)</u> M	N	(\$K) O
	PHASE 3 or CONTRACT 3													
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
04	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	:
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	;
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0	-	\$0	\$0	\$0			\$0	\$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	:
30	PLANNING, ENGINEERING & DESIGN													
2.5%	•	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	:
1.0%	,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
15.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.0%	6 Life Cycle Updates (cost, schedule, risks)	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	6 Contracting & Reprographics	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	6 Engineering During Construction	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.0%	6 Planning During Construction	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	6 Adaptive Management & Monitoring	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	6 Project Operations	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.0%	_	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.0%	, ,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	

\$0

\$0

\$0

CONTRACT COST TOTALS:

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report;
HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	l Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I		2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>UMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	(\$K)	<u>(%)</u>	(\$K)	<u>(\$K)</u>	_(\$K)_	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J	P	L	M	N	0
02	PHASE 4 or CONTRACT 4		Φ0	0.00/	40	0.00/	••	00	40		0.00/	Φ0	±0	
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0 +0	
04	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	\$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.5%	·	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
15.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	Life Cycle Updates (cost, schedule, risks)	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	% Contracting & Reprographics	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	% Engineering During Construction	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.0%	% Planning During Construction	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	% Adaptive Management & Monitoring	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	% Project Operations	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.0%	_	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.0%	,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report; HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	l Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I	• ,	2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>UMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	(\$K)	(%)	<u>(\$K)</u>	<u>(%)</u>	(\$K)	(\$K)	(\$K)	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	B	С	D	E	F	G	Н	I	J	P	L	M	N	0
03	PHASE 5 or CONTRACT 5	ф О	¢ο	0.00/	¢Ω	0.00/	¢ο	¢ο	¢ο		0.00/	¢ο	¢Ω	
	RESERVOIRS	\$0 #0	\$0 \$0	0.0%	\$0 *0	0.0%	\$0 ©0	\$0 #0	\$0 ©0	0	0.0%	\$0	\$0 #0	
04 05	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0 \$0	\$0	\$0	0	0.0%	\$0	\$0 +0	
05 06	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0 \$0	\$0	\$0	0	0.0%	\$0	\$0	
06 07	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0 \$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0 \$0	\$0	\$0	0	0.0%	\$0	\$0	
80	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	 \$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.5%	· I	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
15.0%	· "	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	, , , , , , , , , , , , , , , , , , ,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	· · · · · · · · · · · · · · · · · · ·	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.0%	l l	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	- · · - · · - · · II	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
2.0%	Planning During Construction	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.0%	% Adaptive Management & Monitoring	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	% Project Operations	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.0%	% Construction Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.0%	% Project Operation:	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report; HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	il Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price L	• ,	2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>IUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	(\$K)	(%)	<u>(\$K)</u>	<u>(%)</u>	(\$K)	(\$K)	(\$K)	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	B BULGE & CONTRACT &	С	D	E	F	G	Н	I	J	P	L	M	N	0
02	PHASE 6 or CONTRACT 6	Φ0	Φ0	0.00/	ΦO	0.00/	Φ0	# 0	# 0		0.00/	Φ0	40	
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
04	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
80	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	\$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.5%	•	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
15.09		\$0	\$0	10.0%	\$0	0.0%	\$0 \$0	\$0	\$0	0	0.0%	\$0	\$0 \$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.09	% Construction Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.09	% Project Operation:	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report;
HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	il Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I		2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>IUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	(\$K)	<u>(%)</u>	(\$K)	<u>(\$K)</u>	(\$K)	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J	P	L	M	N	0
02	PHASE 7 or CONTRACT 7		Φ0	0.00/		0.00/	••	00	40		0.00/	Φ0	+0	
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0 +0	
04	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	 \$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.59	*	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
15.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09	·	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
2.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.09	% Construction Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.09	% Project Operation:	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report;
HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civ	il Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I		2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>IUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	(\$K)	<u>(%)</u>	<u>(\$K)</u>	(\$K)	(\$K)	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J	P	L	М	N	0
02	PHASE 8 or CONTRACT 8		Φ0	0.00/	40	0.00/	••	00	40		0.00/	Φ0	+0	
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
04	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	0		\$0	\$0	\$0			\$0	\$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$ -	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.59	•	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
15.09	,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0 \$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09	·	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
2.09	5 5	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.09	% Construction Management	\$0	\$0	10.0%	0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.09	% Project Operation:	\$0	\$0	10.0%	0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.59	% Project Management	\$0	\$0	10.0%	0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		0		\$0	\$0	\$0			\$0	\$0	

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report;
HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	il Works Work Breakdown Structure		ESTIMATI	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY	FUNDED)	
			nate Prepare ive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I	,	2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)_	(\$K)	(\$K)	<u>(\$K)</u>	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J	P	L	M	N	0
03	PHASE 9 or CONTRACT 9		Φ0	0.00/	00	0.00/	••	00	Φ0		0.00/	40	40	
03	RESERVOIRS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0 ***	0	0.0%	\$0	\$0 \$0	\$
04 05	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
05	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	\$0	\$
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
30	PLANNING, ENGINEERING & DESIGN													
2.5%	•	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$
1.0%	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	<u></u>
15.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
1.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
1.0%	% Life Cycle Updates (cost, schedule, risks)	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
1.0%	% Contracting & Reprographics	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	9
3.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	S
2.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	Š
3.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
1.0%		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	Ç
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
31	CONSTRUCTION MANAGEMENT													
10.0%	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
2.0%	,	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
2.5%	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	9
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	\$

**** CONTRACT COST SUMMARY ****

PROJECT: HR Beneficial (Birds Island) 4b.5(5acre/9.7 footprint)

LOCATION: Hampton Roads(Birds Island) 4b.5(5acre/9.7 footprint) Alternative ROM Estimate
This Estimate reflects the scope and schedule in report;
HR Beneficial (Birds Island

DISTRICT: Norfolk District

POC: CHIEF, COST ENGINEERING, xxx

Civi	il Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basi			TOTAL PROJEC	T COST (FULLY I	FUNDED)	
			nate Prepare tive Price Lev		15-Aug-24 1-Oct-23		ram Year (B ective Price I		2025 1 OCT 24		FULLY F	UNDED PROJEC	T ESTIMATE	
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
<u>UMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	(\$K)	(%)	<u>(\$K)</u>	_(%)_	(\$K)	(\$K)	<u>(\$K)</u>	<u>Date</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	B BULAGE 40 au CONTRACT 40	С	D	E	F	G	Н	I	J	P	L	M	N	0
02	PHASE 10 or CONTRACT 10	# 0	ሶ Ω	0.00/	ФО.	0.00/	Φ0	Φ0	Φ0		0.00/	ФО.	¢ο	
03	RESERVOIRS	\$0	\$0 \$0	0.0%	\$0 *0	0.0%	\$0 ©0	\$0 #0	\$0 \$0	0	0.0%	\$0	\$0 #0	
04 05	DAMS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
05 06	LOCKS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
06	FISH & WILDLIFE FACILITIES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
07	POWER PLANT	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
08	ROADS, RAILROADS & BRIDGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
09	CHANNELS & CANALS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
10	BREAKWATER & SEAWALLS	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONSTRUCTION ESTIMATE TOTALS:	\$0	\$0	0.0%	\$0		\$0	\$0	\$0			\$0	\$0	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN													
2.59	•	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	-	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
15.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
1.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
2.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$ 0	
3.09		\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
1.09	% Project Operations	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	Real Estate (All Federal Labor)	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
31	CONSTRUCTION MANAGEMENT													
10.09	% Construction Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.09	% Project Operation:	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
2.59	% Project Management	\$0	\$0	10.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	
	CONTRACT COST TOTALS:	\$0	\$0		\$0		\$0	\$0	\$0			\$0	\$0	