Appendix D

Spring Creek North Ecosystem Restoration Study Updated Cost Effectiveness/Incremental Cost Analysis 10/8/2015

Total and Average Cost			10/8/2015	9:58:31AM
All Plan Alternatives	Planning Set:	Spring Creek North		
Counter Name		Output AAFCU	Cost \$1000	Average Cost \$1000
1 No Action Plan		0.00	0.00	
2 SC 1		31.38	702.00	22.37
3 SC 2		33.87	898.00	26.51
4 SC 3A		31.38	590.00	18.80
5 SC 3B		31.99	569.00	17.79
6 SC 3C		31.63	405.00	12.80
7 SC 4A		33.87	756.00	22.32
8 SC 4B		30.17	799.00	26.48
9 SC 4C		30.17	593.00	19.66



Total and Average Cost			10/8/2015	9:59:18AM
Cost Effective Plan Alternatives	Planning Set:	Spring Creek North		
Counter Name		Output AAFCU	Cost \$1000	Average Cost \$1000
 No Action Plan SC 3B SC 3C *Best Buy* SC 4A *Best Buy* 		0.00 31.99 31.63 33.87	0.00 569.00 405.00 756.00	17.79 12.80 22.32

Incremental Cost of Best Buy	Plan Combinations (Ordered By Plan	Alternative Name	e)	10/8/2015	10:00:30AM
Planning Set: Spring Creek North						
Counter Plan Alternative	Output (AAFCU)	Cost (\$1000)	Average Cost (\$1000 / AAFCU)	Incremental Cost (\$1000)	Inc. Output (AAFCU)	Inc. Cost Per Output (\$1000)
1 No Action Plan 2 SC 3C 3 SC 4A	0.00 31.63 33.87	0.00 405.00 756.00	12.8043 22.32065	405.0000 351.0000	31.6300 2.2400	12.8043 156.6964

Planning Set 'Spring Creek North' Cost and Output

Total Cost Incremental Cost/Unit **Incremental Cost Per Unit** 500 Total (300 Cost Output

Best Buy Plan Alternatives Dual Axis Best Buy Box and Line Graphs

Spring Creek North Ecosystem Restoration Study Cost Estimate Back-Up

14 January 2004

U.S. Army Corps of Engineers Project : Spring Creek Ecosystem Restoration Spring Creek Ecosystem Restoration

Title Page

Spring Creek Ecosystem Restoration

Spring Creek ecosystem restoration in Brooklyn NY between Flatlands Ave & Fountain Ave, consist of the restoration of approximately 23 acres. The project is part of the Jamaica Bay restoration project. The project consists of general site work including the excavation load and transport of onsite material along with final grading. There is also planting occurring in the Maritime Upland, Transition Area, High Marsh, and Low Marsh.

The option is for a path along the site for pedestrian access.

Davis Bacon rates are based on 7-6-12

Fuel prices 7-12-12

Cont. 15% was used due to the preliminary nature of the drawings and quantities for this project.

JOOH - 13% HOOH - 3.9% Profit - 10% Bond - 2% Sub JOOH - 5% Sub HOOH- 5% Sub Profit -10%

Estimated by Anthony Schiano Designed by Prepared by Anthony Schiano

Preparation Date 7/11/2012 Effective Date of Pricing 7/11/2012 Estimated Construction Time Days

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Labor ID: NLS2010 EQ ID: EP11R01

Currency in US dollars

Print Date Wed 18 July 2012 Fff Date 7/11/2012	U.S. Army Corps of Engineers Project : Spring Creek Ecosystem Restoration		Time 10:05:25
	Spring Creek Ecosystem Restoration	Project Su	Immary Page 1
Description	Quantity	UOM	ProjectCost
Project Summary			6,560,521.67
Fish & Wildlife Facilities	1.0000	LS	6,560,521.67
Base Bid	1.0000	EA	6,449,324.38
Option #1	1.0000	EA	111,197.29

Print Date Wed 18 July 2012	U.S. Army Corps of Engineers			Time 10:05:25
	Spring Creek Ecosystem Restoration	Project	Owner	Summary Page 2
Description		Quantity	UOM	ProjectCost
Project Owner Summary				6,560,521.67
Fish & Wildlife Facilities		1.0000	LS	6,560,521.67
Base Bid		1.0000	EA	6,449,324.3832 6,449,324.38
General Site Work		1.0000	EA	4,347,022.6268 4,347,022.63
Mob & Demob		1.0000	LS	243,899.31
Chain-link Fence		1,300.0000	LF	69.3259 90,123.62
Clearing and Grubbing		22.6600	ACR	36,400.5680 824,836.87
Survey Layout		13.0000	ACR	928.6916 12,072.99
Excavation, Load, Transport & Place		142,450.0000	СҮ	21.9679 3,129,333.46
Silt Fence		3,332.0000	LF	14.0325 46,756.37
Maritime Upland Community		14.4500	ACR	15,036.3813 217,275.71
Maintenance Warm Season Grass Mix		2.8900	ACR	5,404.5339 15,619.10
Maintenance Overseed (Annual Rye)		2.8900	ACR	4,976.8745 14,383.17
Transition Area		3.0000	ACR	63,920.1085 191,760.33
Maintenance Warm Season Grass Mix		0.6000	ACR	5,404.5339 3,242.72
Herbaceous		32,670.0000	EA	5.2741 172,304.00
Maintenance		3,267.0000	EA	15.5264 50,724.62
High Marsh		2.3000	ACR	93,997.5018 216,194.25
Herbivory Fence		2.3000	ACR	31,798.1928 73,135.84

Print Date Wed 18 July 2012 Eff. Date 7/11/2012	U.S. Army Corps of Engineers Project : Spring Creek Ecosystem Restoration Spring Creek Ecosystem Restoration	Project	Owner S	Time 10:05:25 Summary Page 3
Description		Quantity	UOM	ProjectCost
Maintenance		0.2300	ACR	42,046.2808 9,670.64
Herbaceous		25,047.0000	EA	5.7116 143,058.41
Maintenance		2,504.7000	EA	19.8045 49,604.23
Low Marsh		10.7000	ACR	136,694.8772 1,462,635.19
Herbivory Fence		2.3000	ACR	419,321.8366 964,440.22
Maintenance		0.2300	ACR	103,354.3779 23,771.51
Herbaceous		116,523.0000	EA	4.2755 498,194.96
Maintenance		11,652.3000	EA	5.4435 63,429.85
Herbicide		22.6600	ACR	637.0821 14,436.28
Option #1		1.0000	EA	111,197.2880 111,197.29
Path and Overlook		1.0000	EA	111,197.2880 111,197.29
Path		800.0000	SY	52.1383 41,710.68
Path Edging		2,400.0000	EA	12.5293 30,070.37
Interpretive signage		8.0000	EA	315.8459 2,526.77
Granite Bollard Installation		6.0000	EA	6,148.2447 36,889.47

Spring Creek North Ecosystem Restoration Study MCASES Cost Estimate 2004

Sun 08 Feb 2004 Eff. Date 02/05/04

U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek 7?% Cost Estimate

TIME 19:57:40

TITLE PAGE 1

Spring Creek

Designed By: Matrix Environmental Estimated By: Reid, Still & Associates, Inc.

Prepared By: Michael Reid

Preparation Date: 02/05/04 Efective Date of Pricing: 02/05/04

0.00% Sales Tax:

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EQUIP ID: NAT95A LABOR ID: NAT94A

Currency in DOLLARS

M C A C E S G O L D E D I T I O N Composer GOLD Software Copyright (c) 19852000 by Building Systems Design, Inc. &lease 5.31

<pre>//</pre>			
TIME 19:57:40 NTENTS PAGE 1			
my Corps of Engineers PRNG1: Spring Creek	SUMMARY PAGE DETAIL PAGE DETAIL PAGE 4 5 5 5 5 6 6 7 6	*	
U.S. Ar PROJECT		* CF CONTENTS	
	MARY - Scope MMARY - Scope Mork	* * * END TABI	
	SUMMARY REPORTS SUMMARY REPORTS SUM PROJECT DWNER SUM PROJECT DIRECT SU DETALLED ESTIMATE B. General Site C. Maritime Upla D. Transition Ar B. High Marsh Zof E. Low Marsh Zof G. Path and Over H. Operation & M I. Real Estate I. Real Estate		
1 08 Feb 2004 Date 02/05/04 ULE OF CONTENTS		Backup Reports	

Sun 08 Feb 2004 Eff. Date 02/05/04

U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate ** PROJECT OWNER SUMMARY- Scope **

TIME 19:57:40 SUMMARY PAGE

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3,924,633 76 183,024 24935.09 0 183,546 46181.99 183,983 7992.57 183,988 70606.56 8 63,888 53.24 350,905 0 175,000 0 253,500 SIOH TOTAL COST UNIT COST 6,028,968 9,076 6,870 923 37,462 3,168 0 252,586 0 61, 39887 0 622,958 22,689 17,175 22,808 93,656 7,920 0 CONTINGN 0 787,205 0 00 °°°°° 0 ESCALATN 0 3,1114,788 151,259 114,501 152,052 624,372 52,372 52,905 350,905 175,000 253,500 CONTRACT 4,989,177 -----7.34 AC 3.00 AC 2.30 AC 10.70 AC 1200.00 LF QUANTITY UOM General Site Work Maritime Upland Community Transition Area High Marsh Zone Low Marsh Zone Pah and Overlook Perlion & Maintenance Real Estate Miscellaneous TOTAL Spring Creek ᇤᆡᄓᆸᆸᆸᆸᇰᇥᅴᆔ

EQUIP ID: NAT95A LABOR ID: NAT94A

Currency in DOLLARS

19:57:40 AGE 2	UNIT COST	20607.51 38166.93 66109.57 58352.5 44.00		
TIME SUMMARY F	TOTAL COST	3,114,788 114,559 114,501 152,052 624,372 52,800 350,905 175,000 253,500	4,989,177 787,205 5,776,382 252,586	6,028,968
	LIAL OTHER	75 7,500 571 1,000 172 7,500 28 29,600 801 231,075 0 52,800 0 350,905 0 350,905 0 253,500	346 1108880	
	LABOR MATER	1080014 27,2 108001688 49, 53,829 43, 77,924 44,5 77,924 44,5 248,496 144, 0 0 0 0	3570951 309,	
	JANTITY UOM	7.34 AC 3.00 AC 2.30 AC 10.70 AC 10.70 AC 12.00.00 LF	1 1 1	
Engineers pring Creek mate MRY- Scope **	0	Work and Community rea ne rilook aintenance s	: spection, and Overhead	WNER COSTS
U.S. Army Corps of PROJECT SPRNC1: E ??% Cost Esti ** PROJECT DIRECT SUM		 B. GeneralSite C. Maritime Upl D. Transition Upl D. Transition 20 F. Low Marsh Zc F. Low Marsh Zc F. Low Marsh Zc Path and Ove H. Oppation & M I. Real Batate J. Miscellaneou 	TOTAL Spring Creek Contingency SUBTOTAL Supervision, IT	TOTAL INCL C
Feb 2004 ate 02/05/04				
Sun 08 Eff. De				

CREW ID: NAT95A UPB ID: NAT95B

Currency in DOLLARS

B., General Site Mock Description Count of the Mock Description Count of the Mock Count of the Mock <thcount mock<="" of="" th="" the=""> Count of t</thcount>	08 Feb 2004 . Date 02/05/04 AILED ESTIMATE		U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate B General Site Work					TIME DETAIL P	L9:57:40 AGE 1	
I. Gameral Site Mont USR $-02000 001 > Mohilisation/Pemohilisation 1.0 1.0 1.0 0 0.0 $				QUAR UOM	LABOR M	TERIAL	OTHER T	OTAL COST UN	T COST	
USR $(2000 \ 001) < (0111 \ 0111 \ 0101 \ 0101) $	B General Site Work	1								
UBR 0.0003 9" High Chaln Link Fence Whator 1300.001 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 <th colspa<="" td=""><td></td><td>USR</td><td><pre><02080 0001 > Mobilization/Demobilization 1 (construction</pre></td><td>1.00 LS</td><td>30000.00 30,000</td><td>00.0</td><td>0.00</td><td>30000.00 30,000 3</td><td>0000.000</td></th>	<td></td> <td>USR</td> <td><pre><02080 0001 > Mobilization/Demobilization 1 (construction</pre></td> <td>1.00 LS</td> <td>30000.00 30,000</td> <td>00.0</td> <td>0.00</td> <td>30000.00 30,000 3</td> <td>0000.000</td>		USR	<pre><02080 0001 > Mobilization/Demobilization 1 (construction</pre>	1.00 LS	30000.00 30,000	00.0	0.00	30000.00 30,000 3	0000.000
USR $(22060 \ 0004 > Survey Layout 2.166 \ ACR 2.71, 32 0.00 0.00 1200.00 277, 32 200.00 $		USR	<pre><02080 0002 > 8" High Chain Link Fence W/Razoo Ribbon</pre>	c, 1300.00 LF	57.60 74,880	0.00	0.00	57.60 74,880	57.60	
USR < 02080 $004 > Survey Layout$ 13.00 10.00 0.00 0.00 1200.00 1200.00 USR < 20080 $005 > Excevetion. Load, Transport 142450 0$		USR	<02080 0003 > Clearing and Hubbing	22.66 ACR	1200.00 27,192	0.00	0.00	1200.00 27,192	1200.00	
USR <02080 0005 > Excavation, Load, Transport 14345 CY 2564100 0.00 0.00 2654,100 13.00 17.00 USR <202080 0005 > Imported Sand Delivered TGite 17000 $239,000$ 0.00 0.00 0.00 0.100 17.00 17.00 USR <202080 0005 > Imported Sand $1736CY$ $17,763$ 0.00 0.00 0.00 0.00 $17,763$ 1.00 USR <02080 0008 > Cut Manhole Flush $1.736CY$ $17,763$ 0.00 0.00 0.00 $17,763$ 1.00 USR <02080 0008 > Cut Manhole Flush 6.00 EM 0.00 0.00 0.00 $17,763$ 1.00 USR <02080 0008 > Cut Manhole Flush 6.00 EM 0.00 0.00 0.00 232.00 1250.00 1250.00 1250.00 1250.00 1250.00 10.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		USR	<02080 0004 > Survey Layout	13.00 ACR	1200.00 15,600	0.00	0.00	1200.00 15,600	1200.00	
USR $< 02080 0005 > Imported Sand Deliverod Taite1700 \text{ CY}299,000 {}00 {}00 {}00 {}00 {}17,00 {}17,00 {}17,00 {}17,00 {}17,00 {}17,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}17,00 {}10,00 {}1250,00 {}123,013 {}12,013 {}6,073 {}0,00 {}00 {}00 {}00 {}0,00 {}22,050 {}066 {}0,000 {}00 {}00 {}00 {}00 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}0000 {}00000 {}00000 {}00000 {}00000 {}00000 {}00000 {}000000 {}00000 {}000000 {}000000 {}000000 {}0000000 {}0000000000$		USR	<pre><02080 0005 > Excavation, Load, Transport & Place</pre>	142450 CY	18.00 2564100	0.00	0.00 0	18.00 2,564,100	18.00	
USR $< 02080 0007 > Grade Imported Sand$ $1736CY$ 1.00 0.00 0.00 1.00 1.7763 10 0 0 $17,763$ 1.00 USR $< 02080 0008 > Cut Manhole Flush$ $6.00 EA$ 0.00 $0.00 1250.00$ 1250.00 1250.00 1250.00 USR $< 02080 0009 > Type II Turbidity Curtain750.01 LF10.0136.6750.002.2252.255USR< 02080 0010 > Silt Fence3332.00 LF10,0136.6750.000.620.62USR< 02080 0010 > Hay Bales (Salt Marsh Hay)2500.00 EA0.000.002.0002.0002.000\bullet$		USR	<pre><02080 0006 > Imported Sand Delivered Twite</pre>	17000 CY	17.00 289,000	0.00	0.00	17.00 289,000	17.00	
USR<020800008 > Cut Manhole Flush 6.00 EA 000007,5001,550.00USR<02080		USR	<02080 0007 > Grade Imported Sand	1736 CY	1.00 17,763	00.00	0.00	1.00 17,763	1.00	
USR<020800009 > Type II Turbidity Curtain750.00 LF13.35 8.90 0.0022.25USR<02080		USR	<02080 0008 > Cut Manhole Flush	6.00 EA	0.00	00.0	1250.00 7,500	1250.00 7,500	1250.00	
USR <02080 0010 > Silt Fence 0.44 0.18 0.00 0.62 0.62 3332.00 LF 1.46 600 0 2.066 0.62 USR <02080 0010 > Hay Bales (Salt Marsh Hay) 2500.00 EA 20.00 8.00 0.00 28.00 - 0.70,000 28.00 - 0.70,000 28.00 - 0.70,000 28.00 - 0.70,000 - 0.		USR	<02080 0009 > Type II Turbidity Curtain	750.00 LF	13.35 10,013	8.90 6,675	0.00	22.25 16,688	22.25	
USR <02080 0010 > Hay Bales (Salt Marsh Hay) 2500.00 EA 50,000 8.00 0.00 28.00 28.00 - 70,000 28.00 TOTAL General Site Work 3080014 27,275 7,500 3,114,788		USR	<02080 0010 > Silt Fence	3332.00 LF	0.44 1,466	0.18 600	00.0	0.62 2,066	0.62	
- TOTAL General Site Work 3080014 27,275 7,500 3,114,788		USR	<02080 0010 > Hay Bales (Salt Marsh Hay)	2500.00 EA	20.00 50,000	8.00 20,000	0.00	28.00 70,000	28.00	
		4	TOTAL General Site Work	I	3080014	27,275	7,500	3,114,788		

LABOR ID: NAT94A EQUIP ID: NAT95A

CREW ID: NAT95A UPB ID: NAT95B

Currency in DOLLARS

Sun 08 Feb 2004 Eff. Date 02/05/04 DETAILED ESTIMATE

):57:40 38 2	NIT COST		99.83	0.45	28.80	33.60	1018.00	20607.51
TIME 10 DETAIL PA	TOTAL COST (99.83 36,638	0.45 165	28.80 64,685	33.60 48,754	1018.00 1,018	151,259
	OTHER		0.00	0.00	0.00	0.00	1,000.00	1,000
•	ATERIAL		5.83 2,04	0.45 165	12.00 26,952	14.00 20,314	00,0	49,571
	LABOR M		94.00 34,498	0.00	16.80 37,733	19.60 28,440	18.00 18	100,688
	QUANTY UOM		367.00 LB	367.00 LB	2246.00 EA	1451.00 EA	1.00 LS	7.34 AC
U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek 77% Cost Bstimate C Maritime Upland Community			<02080 0020 > Warm Season Grass Mix (Solbs/ac)	<02080 0021 > Overseed (annual winter rye @ 50lbs/ac)	<pre><02080 0022 > Shrubs (~50% of planting zone) Approx 1 per 64 sf</pre>	<pre><02080 0023 > Trees (-50% of planting zone) approx 1 per 100 sf</pre>	<02080 0024 > Tree Saver Fertilizer	TOTAL Maritime Upland Community
		-	USR	USR	USR	B U	USR	
		2 4 1 7 7 1 1			• .			
-		munity						
64	1 1 1 1 1 1 1 1 1 1 1 1 1	Upland Com				-		
08 Feb 2004 Date 02/05/(ILED ESTIMATE		c Maritime L						

CREW ID: NAT95A UPB ID: NAT95B

Currency in DOLLARS

: 	:57:40 ;臣 3	TSOD TIN		28.80	28.80	2.75
	TIME 19 DETAIL PAC	TOTAL COST U	- - -	28.80 49,018	28.80 31,363	2.75 26,620
L 1. ¹		OTHER		0.00	00.00	0.00
		ATERIAL		12.00 20,424	12.00 13,068	1.00 9,680
		LABOR M		16.80 28,594	16.80 18,295	1.75 16,940
		OU YTNAU UOM		1702.00 EA	1089.00 EA	9680.00 EA
	<pre>U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate D Transition Area</pre>			<pre><02080 0030 > Shrubs 37.5% of Zone (24^{J3}6" containerized) Approx 1 per 64 sf</pre>	<pre><02080 0031 > Trees 37.5% of Zone (2³³% caliper b&b) Approx 1 per 100 sf</pre>	<02080 0032 > Herbaceous 25% Approx 1 per 2.25 sf
	- -		 	USR	USR	USR
		r 				
	un 08 Feb 2004 ff. Date 02/05/04 ETALLED ESTIMATE	- 1	D Transition Area			•

LABOR ID: NAT94A EQUIP ID: NAT95A

Currency in DOLLARS

CREW ID: NAT95A UPB ID: NAT95B

2500.00 7,500 2500.00

0.00 0.00 2500.00 0 0 7,500 63,829 4372 7,500

3.00 AC

0,00

3.00 AC

<02080 0033 > Warm Season Grass Mix (501bs/ac)

USR

TOTAL Transition Area

U.S. Army Corps of Engli PROJECT SPRNG1: Spring 73 Cost Estimate E. High Marsh Zone USR <02080 0040 > Waterfowl Exclu	TIME 19:57:40 Keek DBTAIL PAGE 4	QUANTY UOM LABOR MATERIAL OTHER TOTAL COST UNIT COST	sion System 0.00 0.00 325.00 325.00 i over 1.25 ac) 88.00 EA 0 0 28,600 28,600 325.00	ts 1.75 1.00 0.00 2.75
U.S. PROJ USR <02080 00 USR <02080 00	Army Corps of Engineers 27% Cost Estimate 27% Cost Estimate E. High Marsh Zone		<pre>40 > Waterfowl Exclusion System (25' x 25' cells over 1.25 ac)</pre>	41 > Herbaceous Plants
	U.S. PROJI		USR <02080 004	USR <02080 004

1000.00 1,000 1000.00 152,052 66109.57

0.00 1000.00 0 1,000 ----- ----- -----

0.00 0 77,924

2.30 AC 1.00 LS

TOTAL High Marsh Zone

<02080 0042 > Plant Saver

USR

CREW ID: NAT95A UPB ID: NAT95B

Currency in DOLLARS

[9:57:40 GE 5	T COST		5.25	19.00	0.20	0.75	0.02
	TIME 1 DETAIL PA	AL COST UNI	-	5.25 5,250	19.00 19,000	0.20	0.75 1,500	0.02 120
		ОТНЕК ТОТ		0.00	0.00	0.00	0.00	00.0
		TERIAL		2.10 2,100	7,600	0.20	0.75 1,500	0.02 120
		ABOR MAI		3.15 3,150	11.40 11,400	0.00	0.00	0.00
		QUANTY UOM		1000.00 SY	1000.00 EA	452.00 EA	2000.003	6000.00 EA
	U.S. Amy Corps of Engineers PROJECT SPRNG1: Spring Creek 7% Cost Estimate F Low Marsh Zone			<pre><02080 0050 > Erosion Control Matting (BioNETRM Mat)</pre>	<02080 0051 > 16" Diameter Biologs 10 lf	<02080 0052 > Wooden Stakes (1"x1.5"x12")	<02080 0053 > Wooden Stakes (2"x2"x36")	<pre><02080 0054 > Coir Twine (6mm diameter) 425' roll</pre>
	· .		1 1 1 1 1 1	USR	USR	USR	USR	USR
· · · · · · · · · · · · · · · · · · ·								
	Sun 08 Feb 2004 Eff. Date 02/05/04 DETAILED ESTIMATE	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F Low Marsh Zone					

325.00

325.00 231,075

0.00 325.00 0 231,075

0.00

USR .

USR

1.79

1.79 367,337

1.14 0.65 0.00 233,946133,390 0

205216 EA

<02080 0056 > Herbaceous Plants
(100% of Planting Zone)
Approx 1 per 2.25 sf

TOTAL LOW Marsh Zone

624,372 58352.53

248,496 144,801 231,075

10.70 AC

LABOR ID: NAT94A EQUIP ID: NAT95A

Currency in DOLLARS

TIME 19:57:40 DETAIL PAGE 6	LABOR MAREAL OTHER TOTAL COST UNIT COST
	QUANTY UOM
U.S. Army Corps ofBngineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate G Path and Overlook	
Sun 08 Feb 2004 Eff. Date 02/05/04 DETALED ESTIMATE	G Path and Overlook

525.00

525.00 4,200

0.00 525.00 0 4,200

0.00

8.00 EA

2500.00 15,000 2500.00 52,800 44.00

0.00 2500.00 0 15,000 ---- ----- ----

0.00

6.00 EA

<02080 0063 > Granite Bollard Installation

USR

TOTAL Path and Overlook

1200.00 LF

44.00

8.00

8.00 19,200

0.00 8.00 0 19,200

0.00

Z400.00 LF

18.00

18.00 14,400

0.00 18.00 0 14,400

0.000

800.00 SY

<02080 0060 > Path Construction (~1200'x6')

USR

<02080 0061 > Path Edging (~1200 lf x 2)

USR

<02080 0062 > Interpretive Signage

USR

UPB ID: NAT95B CREW ID: NAT95A

Currency in DUIARS

							· .
Sun 08 Feb 2004 Eff. Date 02/05/04 DETALLED ESTIMATE		U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??* Cost Estimate H Operation & Maintenance				TIME DETAIL PAG	19:57:40 : 7
			QUANTY UOM	LABOR MATI	SRIAL OTHER	TOTAL COST U	AIT COST
H. Operation & Maintenance	1			ан			. •
	USR	<pre><02080 0070 > Biologist's Overight 1 day per year</pre>	50.00 DAY	0.00 0	.00 226.24 0 11,312	226.24 11,312	226.24
•	USR	<02080 0071 > Park Ranger's Oversight 5 days per year	250.00 DAY	0,00	0.00 158.37 0 39,593	158.37 39,593	158.37

150,00.00 150,000 15000.00

0.00 15000 0 150,000

0.00

10.00 EA

0.00

10.00 EA

<02080 0073 > Path Maintenance
10 replacements over 50 years
TOTAL Operation & Maintenance

<02080 0072 > Fence Maintenance 10 times over 50 years

USR

USR

0

CREW ID: NAT95A UPB ID: NAT95B

Currency in DOLLARS

TIME 19:57:40 DETAIL PAGE 8	NTY UOM LABOR WATERIAL OTHER TOTAL COST UNIT COST		0.00 0.00 150000 150000.00 .00 IS 0 0 150,000 150,000 150000.00	0.00 0.00 25000 25000.00 1.00 LS 0 0 25,000 25,000 25000.00	0 0 175,000 175,000
U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate I_ Real Estate	Qua		USR <02080 0070 > Acquisition (preliminary)	USR <02080 0071 > Administration (preliminary)	TOTAL Real Estate
Sun 08 Feb 2004 Eff. Date 02/05/04 DETAILED ESTIMATE		I Real Estate			

Currency in DOLLARS

LABOR ID: NAT94A EQUIP ID: NAT95A

	TIME 19:57:40 DETAIL PAGE 9
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-	Engineers ing Creek ate ous
-	r Corps of PRNG1: Spr Cost Estim Miscellane
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JNIT COST	3500.00	67000.00	
TOTAL COST 1	3500.00 52,500	67000.00 201,000	253,500
LAL OTHER	0.00 3500.00 0 52,500	00 67000 0.201,000	0 253,500
LABOR MATER	0.00	0.00 0.0	0
QUANTY UOM	15.00 DAY	3.00 YR	-
	USR <02080 0070 > Invasive/Exotic Vegetation Chtrl	USR <02080 0071 > Monitoring	TOTAL Miscellaneous

J_. Miscellaneous

3570951 309,346 1108880 4,989,177

TOTAL Spring Creek

EQUIP ID: NAT95A LABOR ID: NAT94A

Currency in DOLLARS

н TIME 19:57:40 ERROR PAGE CREW ID: NAT95A UPB ID: NAT95B U.S. Army Corps of Engineers PROJECT SPRNG1: Spring Creek ??% Cost Estimate Currency in DOLLARS * * * END OF ERROR REPORT * * * EQUIP ID: NAT95A No errors detected... Sun 08 Feb 2004 Eff. Date 02/05/04 ERROR REPORT LABOR ID: NAT94A