

Kiawah Island East End Project

Steven Traynum
Coastal Science & Engineering



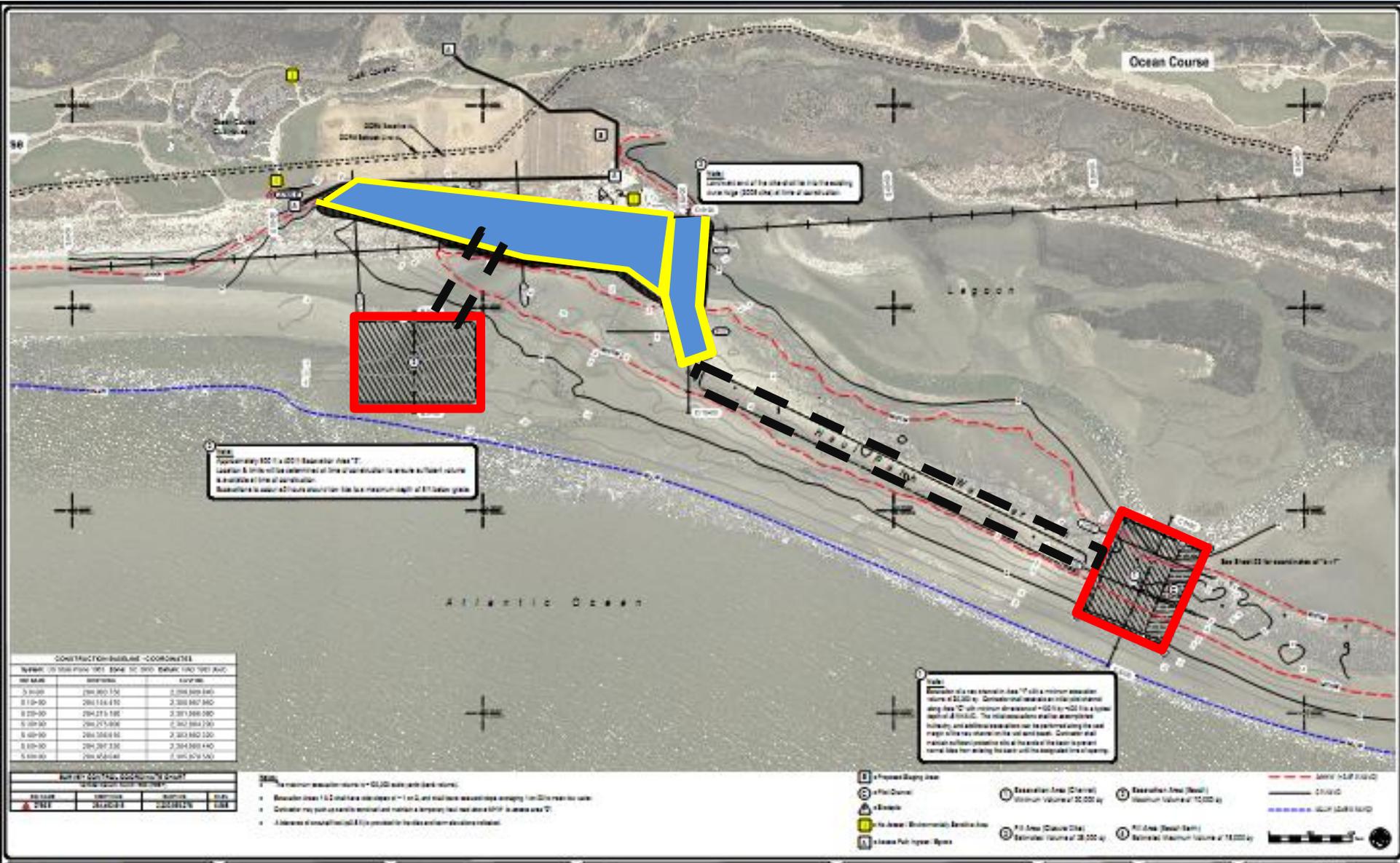
Project Timeline

- CSE begins work April 2014
- Permit application submitted 30 May 2014
- Biological Opinion received Nov 2014
- State (OCRM) permit received 5 December 2014
- USACE Permit received 4 May 2015
- Bids Opened 15 April 2015
- Construction window began 15 May 2015



March 16, 2015





CONSTRUCTION-BUILDING COORDINATES

Station	Station Point	1983	1984	1985	1986	1987	1988	1989	1990
100+00.00	100+00.00	294,800.150	2,308,309.840						
0+10+00	200+00.00	294,114.470	2,308,807.860						
0+20+00	200+20.00	294,273.180	2,307,988.080						
0+30+00	200+30.00	294,275.800	2,307,988.700						
0+40+00	200+40.00	294,268.60	2,307,982.100						
0+50+00	200+50.00	294,267.130	2,304,989.400						
0+60+00	200+60.00	294,267.130	2,304,989.400						

AREA 1 - 100 FT X 100 FT EROSION AREA

Station	Station Point	1983	1984	1985	1986	1987	1988	1989	1990
100+00.00	100+00.00	294,800.150	2,308,309.840						
0+10+00	200+00.00	294,114.470	2,308,807.860						
0+20+00	200+20.00	294,273.180	2,307,988.080						
0+30+00	200+30.00	294,275.800	2,307,988.700						
0+40+00	200+40.00	294,268.60	2,307,982.100						
0+50+00	200+50.00	294,267.130	2,304,989.400						
0+60+00	200+60.00	294,267.130	2,304,989.400						

PROJECT INFORMATION
 PROJECT NO: 2018-010
 DATE: 02/15/2018
 DRAWN BY: J. B. [Name]
 CHECKED BY: [Name]
 SCALE: AS SHOWN

DESIGNER
 Coastal Science & Engineering
 21 Beachwalker Drive
 Kiawah Island, SC 29455
 Phone: 843.781.1111
 Fax: 843.781.1112

TOWN OF KIAWAH ISLAND
 21 BEACHWALKER DRIVE
 KIAWAH ISLAND, SC 29455

PROJECT
 KIAWAH ISLAND EAST END
 BEACH RESTORATION PROJECT

DRAWING TITLE
 OVERALL PROJECT PLAN
 & SURVEY CONTROL



DATE	02/15/2018	02
PROJECT NO	2018-010	
DRAWN BY	J. B. [Name]	
CHECKED BY	[Name]	



March 16, 2015



Dike

New Channel

March 16, 2015



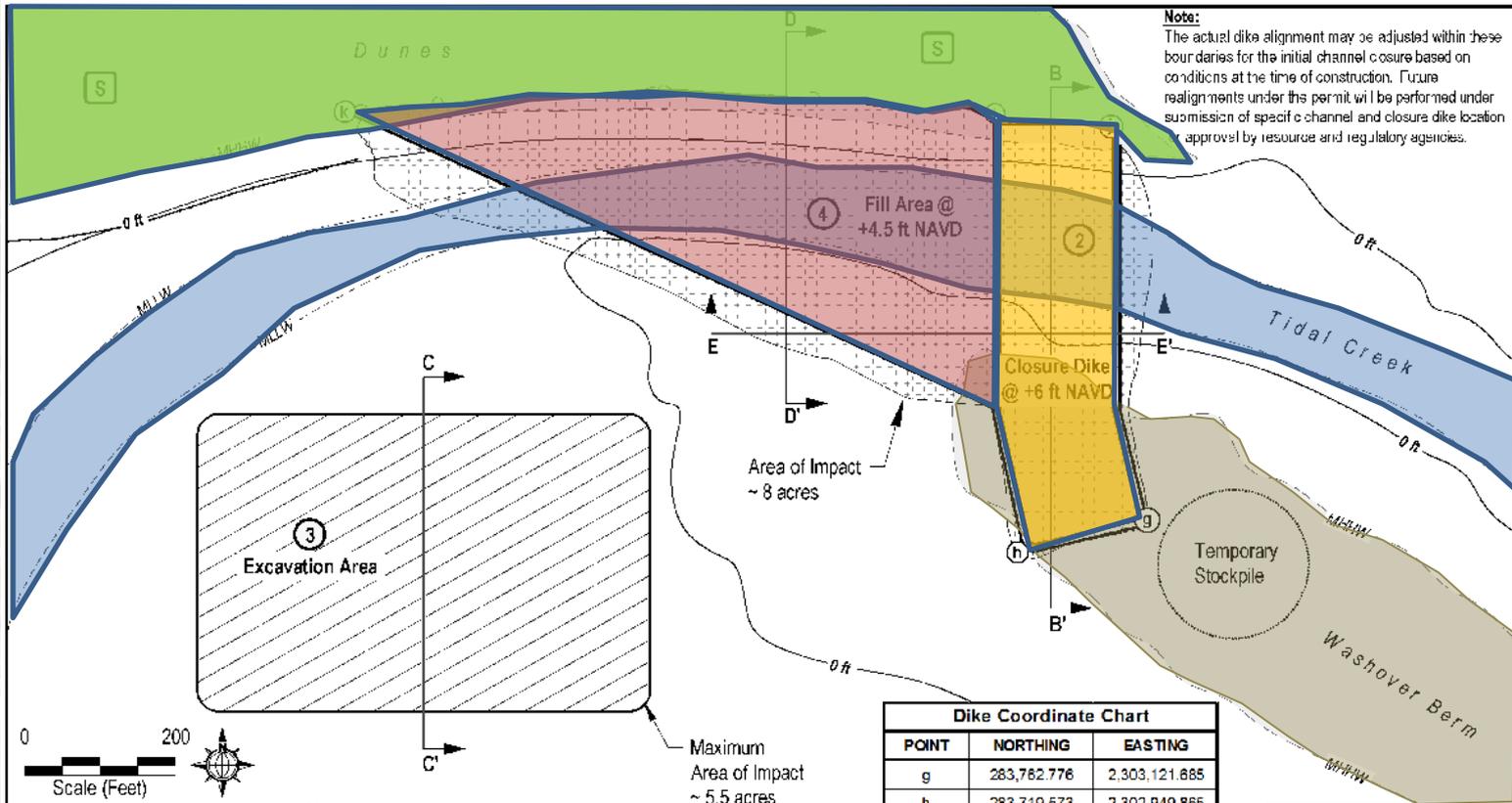
Area 3

Dike

Haul Path

March 16, 2015

Closure Dike and Beach Fill



Survey Dates:
Horizontal: SPCS 14D 188 (Feet) SC Zone 3602
Vertical: NAVD 83 (Feet)
Date: April 2014
Coastal Science & Engineering, Inc. via RTK GPS

Note:
The closure dike Area 2 will be constructed first, using sand excavated from Area 1 (sheet 3). The fill berm Area 4 will be constructed at 4.5 ft NAVD to allow periodic washover using sand from Areas 1 and 3.

APPLICANT:
Town of Kiawah Island
21 Beachwalker Drive
Kiawah Island, SC 29455

AGENT:
Coastal Science & Engineering
PO Box 8056
Columbia, SC 29202

DRAWING TITLE:
AREAS 2 - 4 CLOSURE DIKE &
ADDITIONAL EXCAVATION AREA
Proposed Plan

Scale: As Shown
Date: 23 May 2014
Project #: 2432



Environmental Protection

- Daily Turtle Monitoring
- Nest relocation
- Equipment Storage
- Spill Protection
- Habitat Protection
- Accesses
- Escarpments

- Post Project Monitoring
 - Aerial Imagery
 - GPS Surveys
 - Topographic Surveys
 - Habitat Monitoring
 - Benthic Invertebrate Monitoring



Construction

- Contractor: Lake Moultrie Construction Co., Inc. DBA Lake Moultrie Water Co and Ashridge, Inc. A Joint Venture
- Equipment: 5 offroad dumptrucks (23.5 cy/load), 2 excavators, 2 dozers



Project Summary

- First sand moving on 5/18
- Continued 25 days from 5/18 to 6/11
- 21 working days, 4,261 truck loads
- 4,768 cy/day average, 7,309 cy/day max
- 100,134 cy transferred
- \$5.38 per cy – Total Price \$538,000



Pre-Project Condition



Excavating New Channel



05/20/2015



5/21/2015



5/22/2015



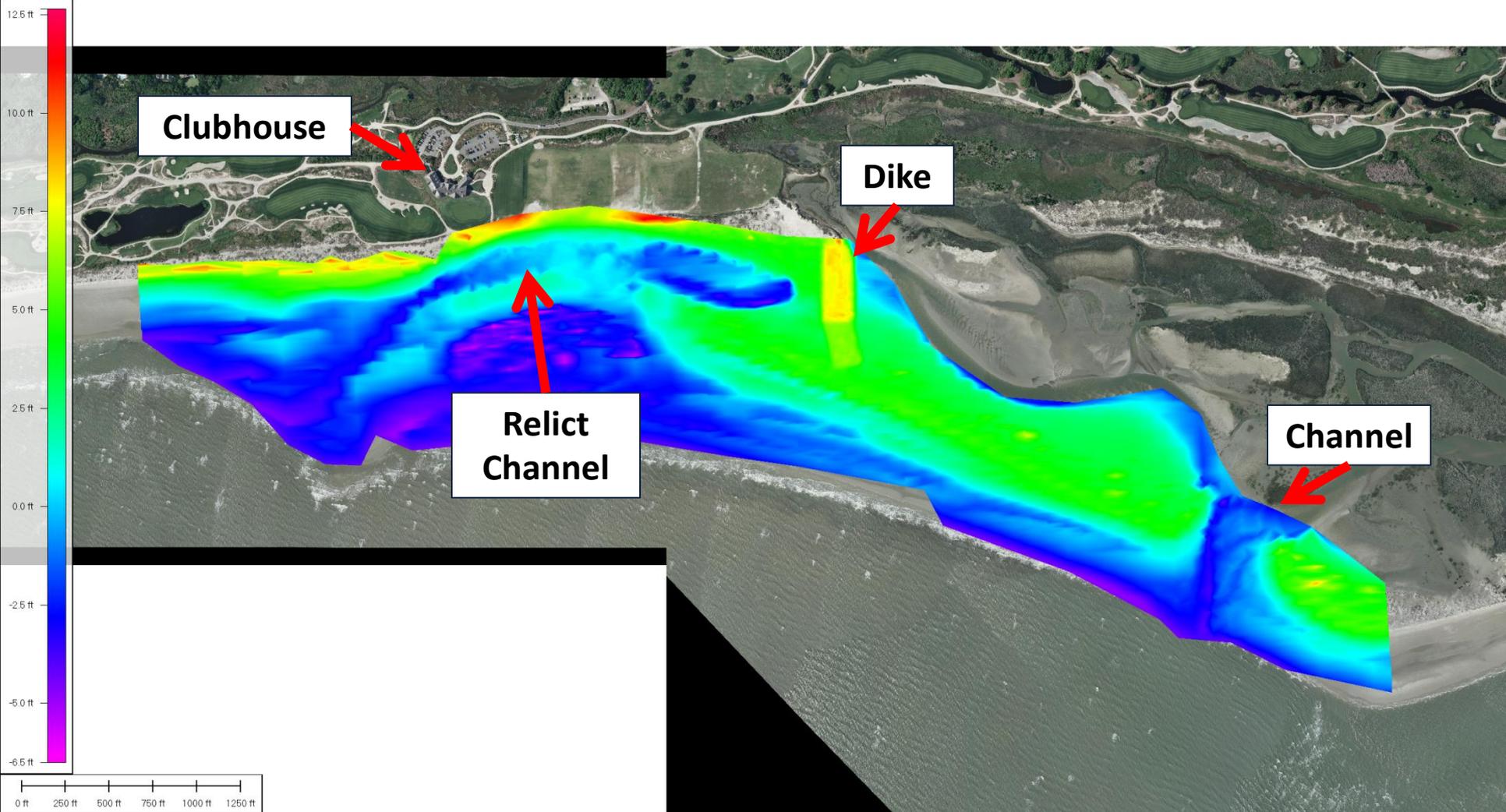
06/09/2015



06/09/2015



Post-Project Condition (Video)



What's Next?

- CSE completed final survey in June 2015
- Permit allows for another project if the channel returns to its February 2014 position
- Must be three years between projects (2018)
- Annual monitoring will document physical and environmental changes
- CSE expects the channel to migrate over time and another project will likely be needed
- Moving the channel earlier in the cycle allows for smaller projects



Captain Sams Inlet Relocation



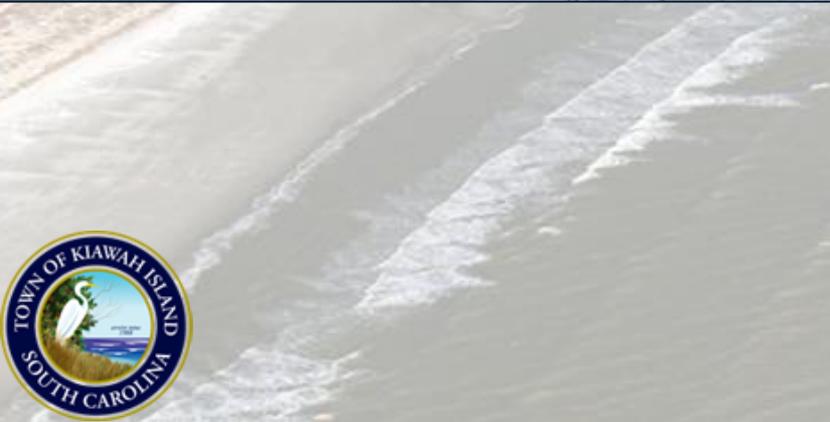
Capt Sams Inlet Relocation Project
Spring 2015



New Channel Basin



Opening New Channel



Stockpiling



New Channel



First Closure Attempt



Equipment Recovery



Final Closure



Completed Project

