

Survey Transect 0+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	54.62 ft/yr	14.51 ft
Volume Change Above -15 ft NAVD88	5.40 cy/ft/yr	15.44 cy/ft
Volume Change Above 0 ft NAVD88	12.80 cy/ft/yr	3.68 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
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4. Survey Comparison Made To April 2013 and October 2013.
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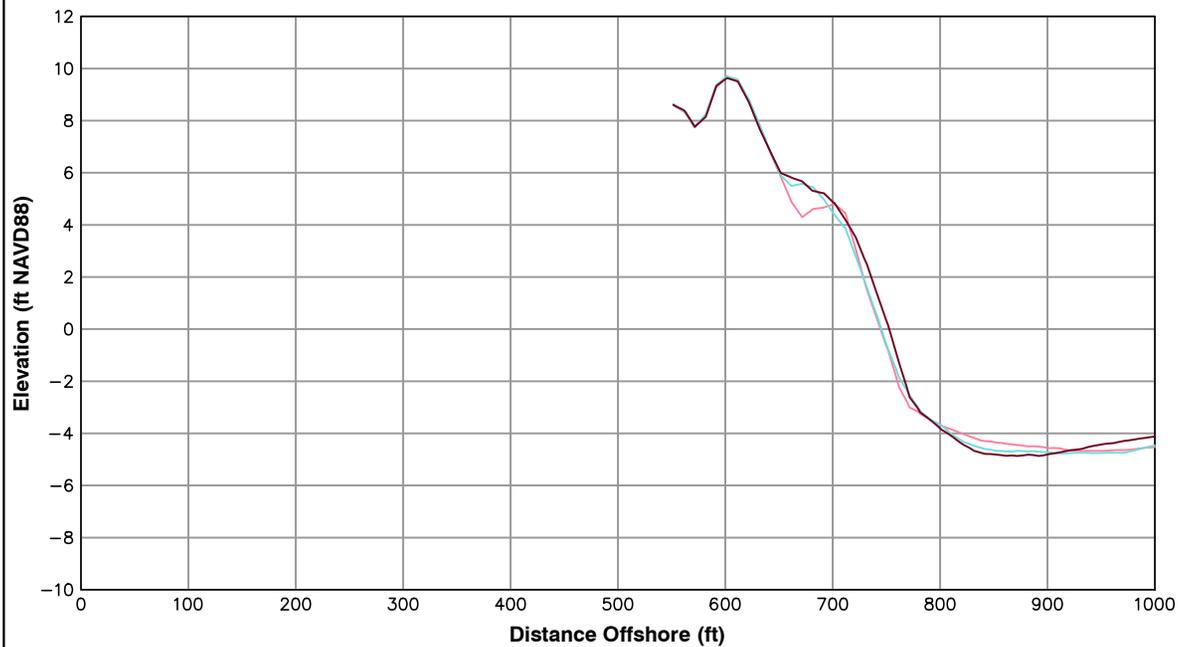
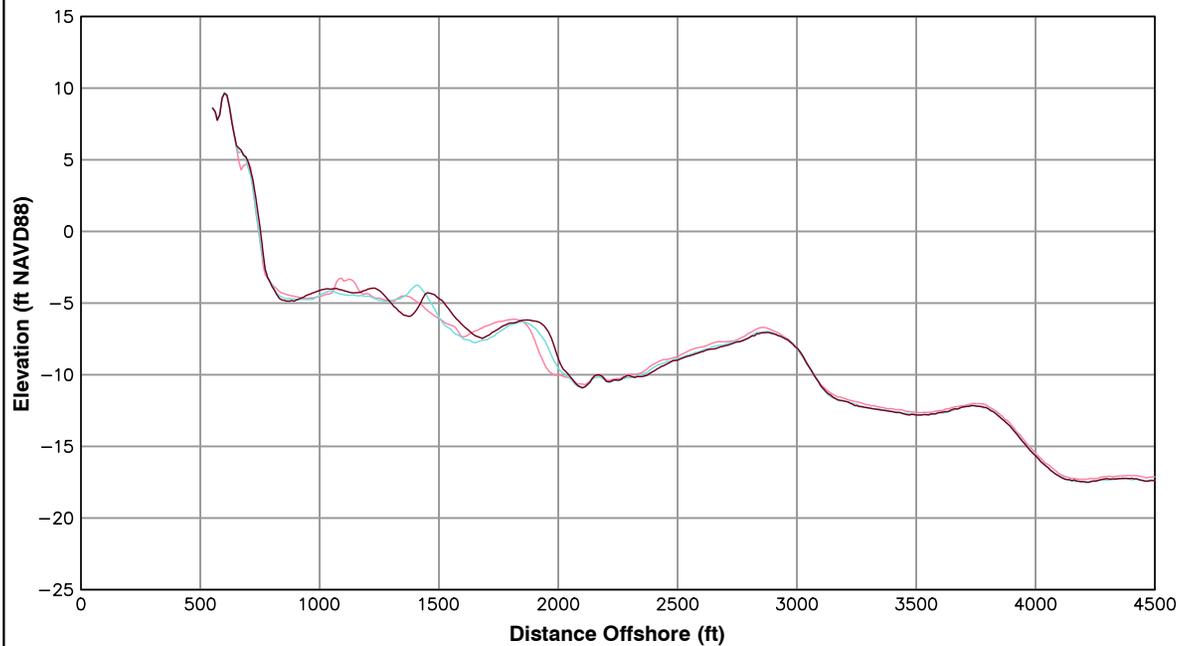
**City of  
Norfolk**

**OCEAN VIEW PERIODIC  
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ANALYSIS**

ST 0+00

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Spring 2014



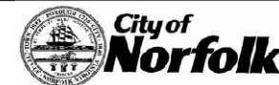
Survey Transect 2+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	8.46 ft/yr	7.28 ft
Volume Change Above -15 ft NAVD88	-1.62 cy/ft/yr	11.44 cy/ft
Volume Change Above 0 ft NAVD88	2.28 cy/ft/yr	1.31 cy/ft

**LEGEND:**

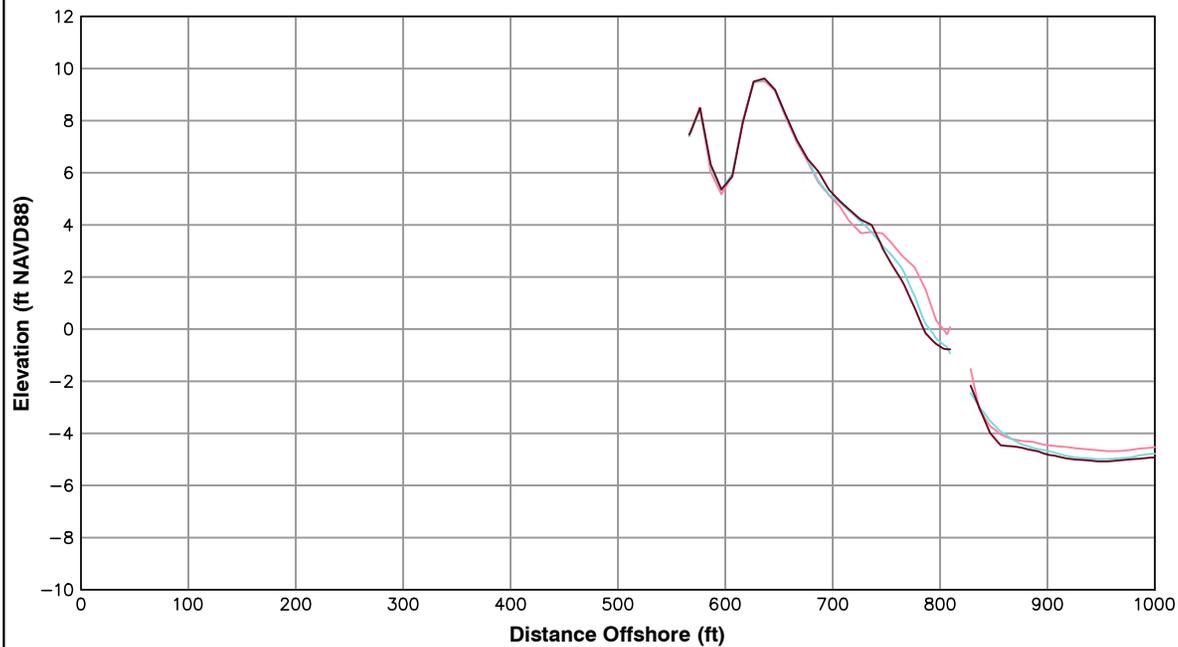
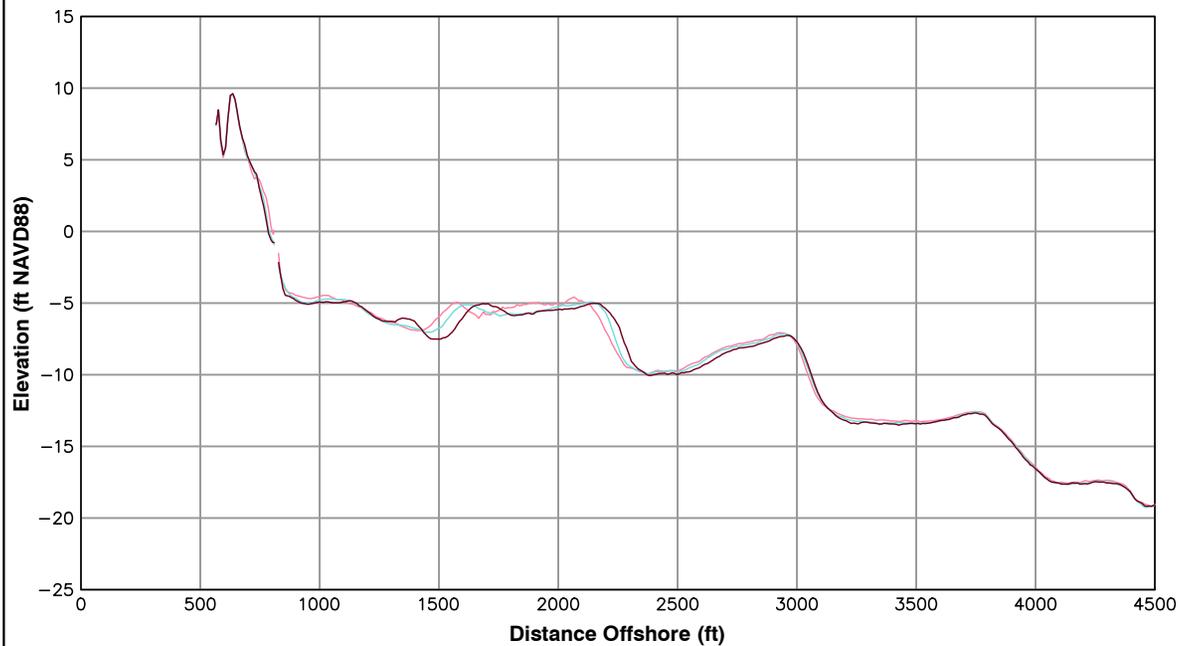
2014 MAR	—
2013 OCT	—
2013 APR	—

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**OCEAN VIEW PERIODIC  
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Survey Transect 5+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-17.12 ft/yr	-4.51 ft
Volume Change Above -15 ft NAVD88	-17.27 cy/ft/yr	-5.97 cy/ft
Volume Change Above 0 ft NAVD88	-1.12 cy/ft/yr	-0.12 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—

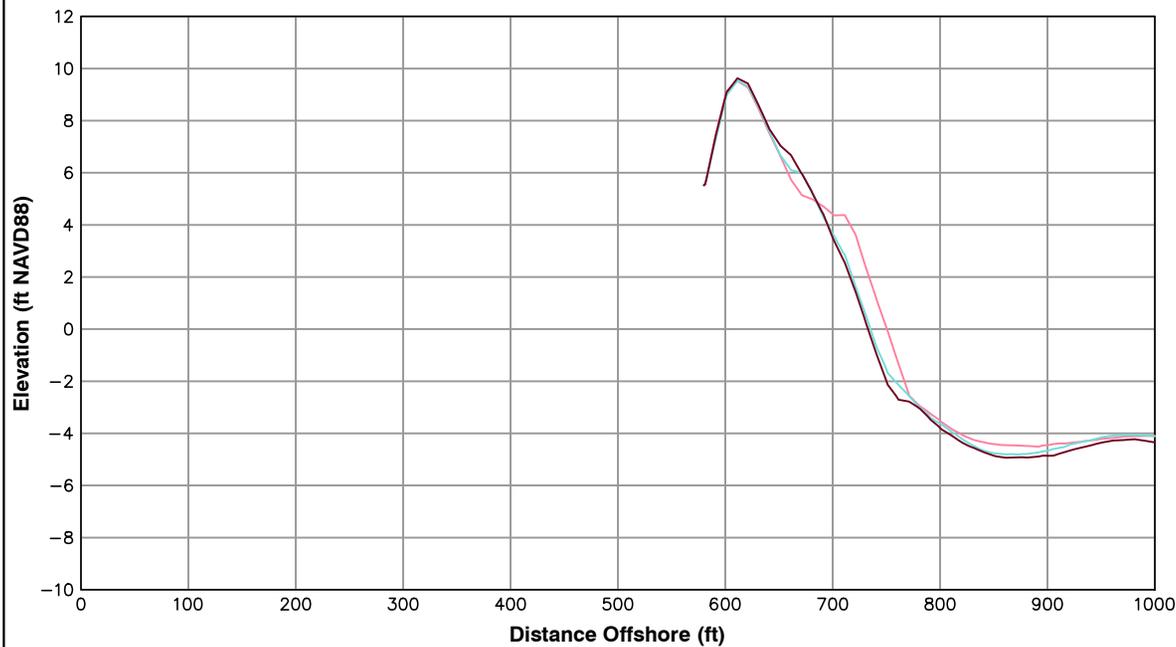
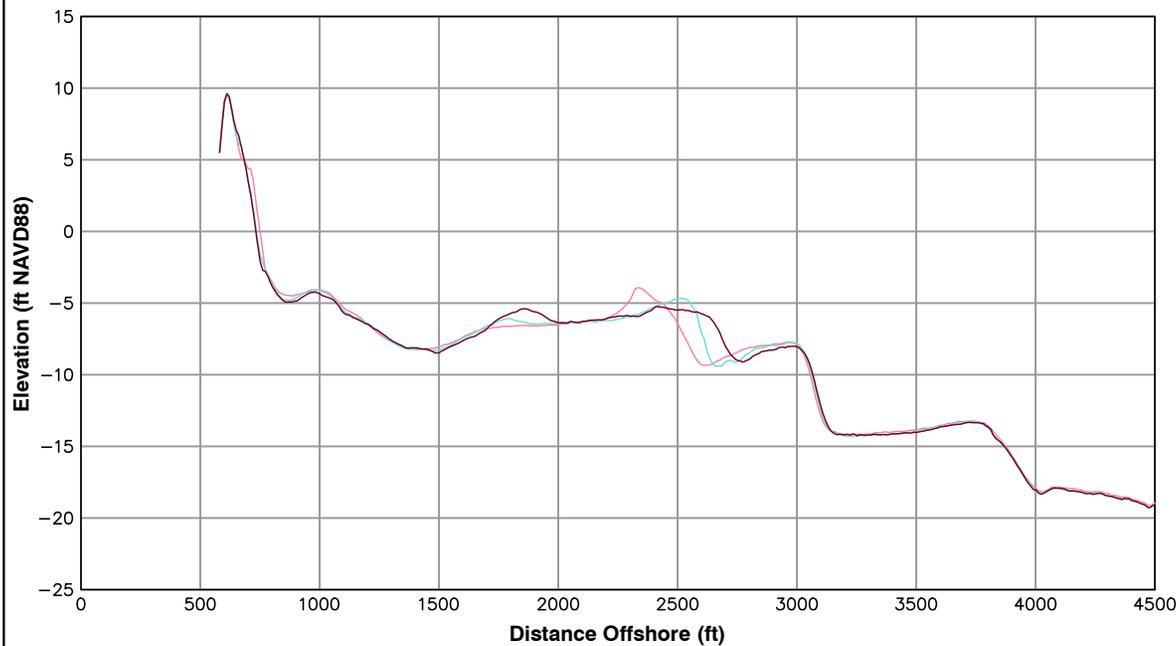
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Survey Transect 7+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-17.84 ft/yr	-1.90 ft
Volume Change Above -15 ft NAVD88	5.11 cy/ft/yr	6.49 cy/ft
Volume Change Above 0 ft NAVD88	-2.17 cy/ft/yr	0.28 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—

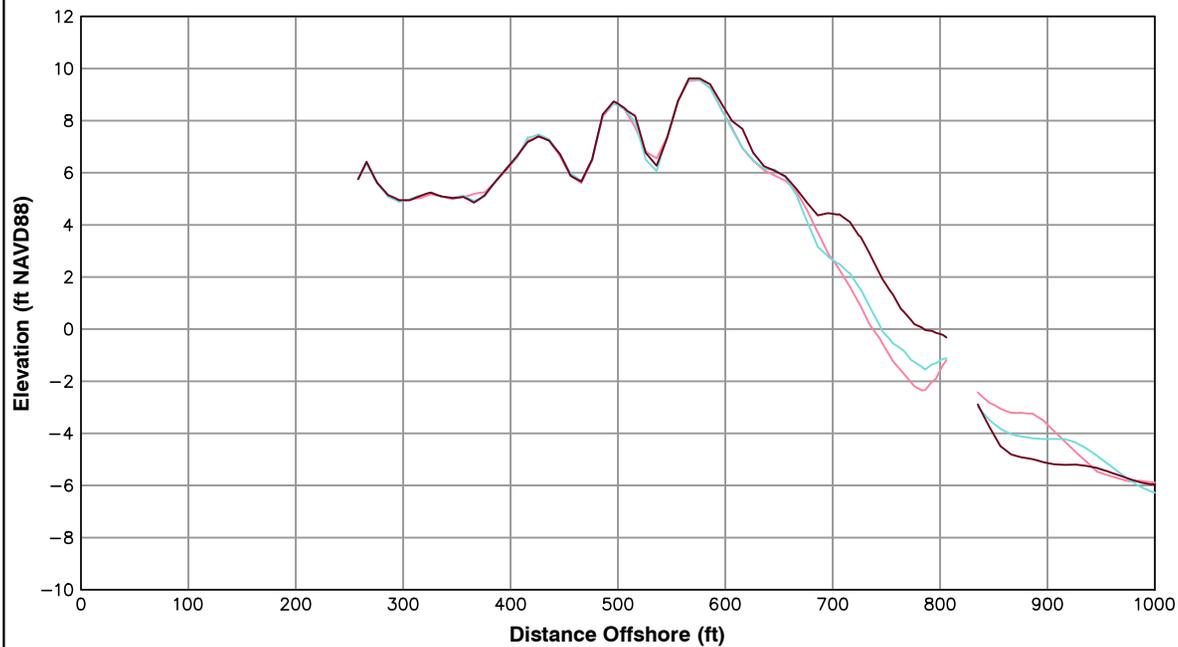
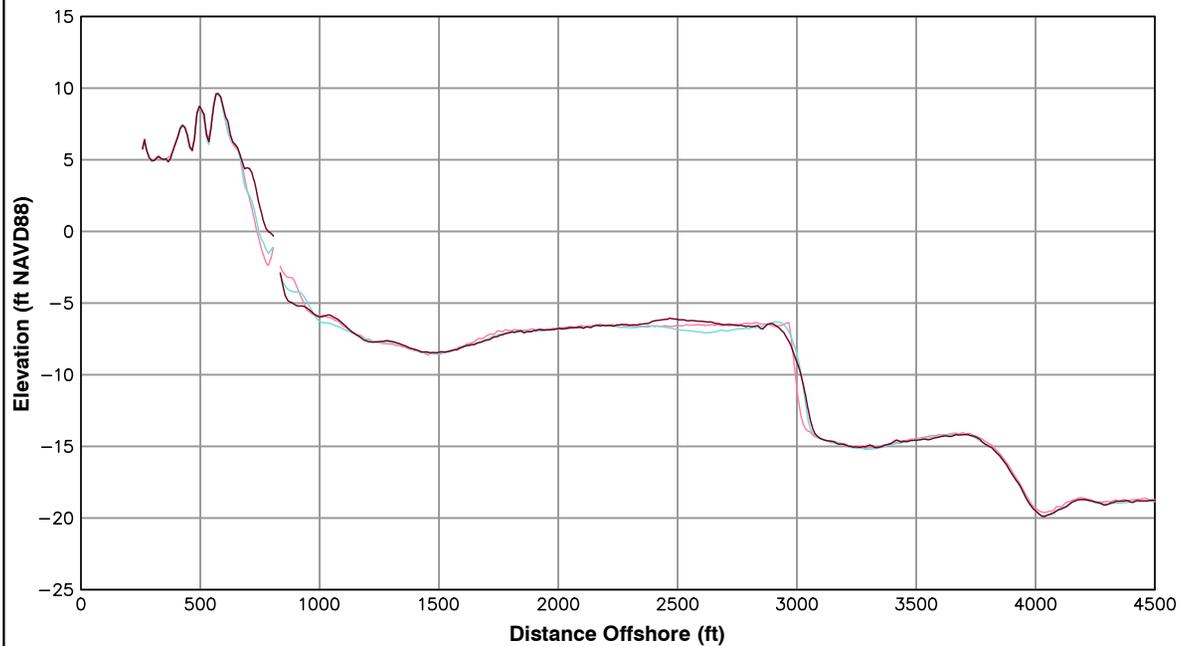
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Survey Transect 10+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	37.30 ft/yr	27.73 ft
Volume Change Above -15 ft NAVD88	11.53 cy/ft/yr	16.55 cy/ft
Volume Change Above 0 ft NAVD88	7.39 cy/ft/yr	6.74 cy/ft

**LEGEND:**

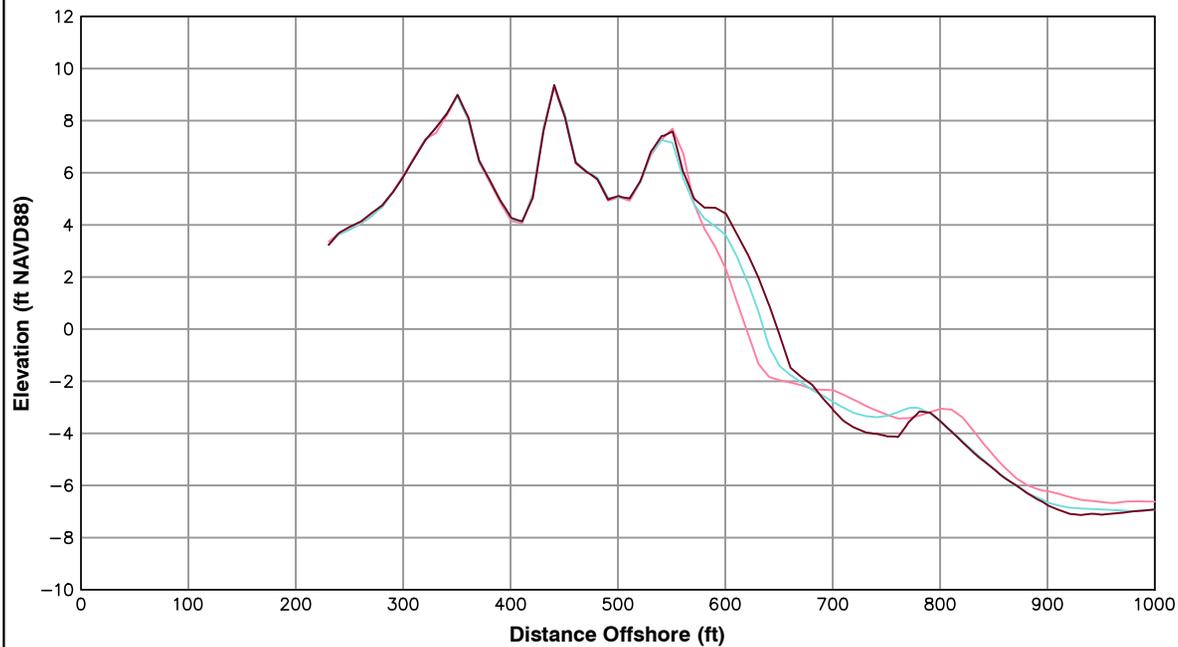
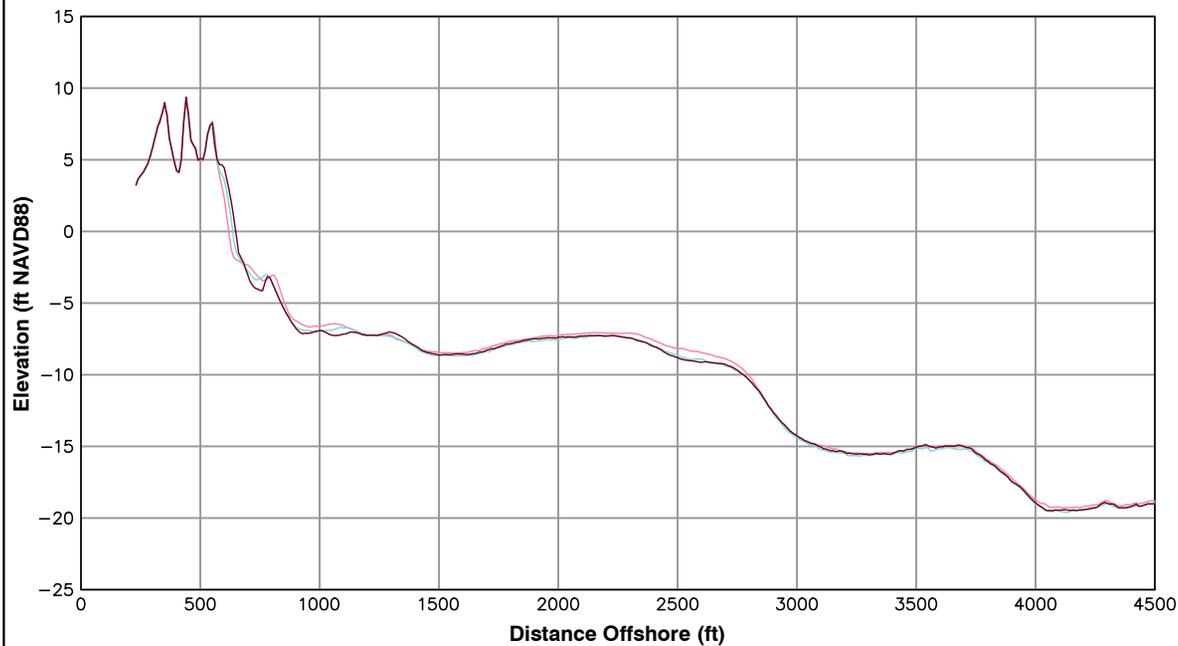
2014 MAR	—
2013 OCT	—
2013 APR	—

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Survey Transect 12+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	29.92 ft/yr	12.04 ft
Volume Change Above -15 ft NAVD88	-16.16 cy/ft/yr	3.61 cy/ft
Volume Change Above 0 ft NAVD88	5.14 cy/ft/yr	2.78 cy/ft

**LEGEND:**

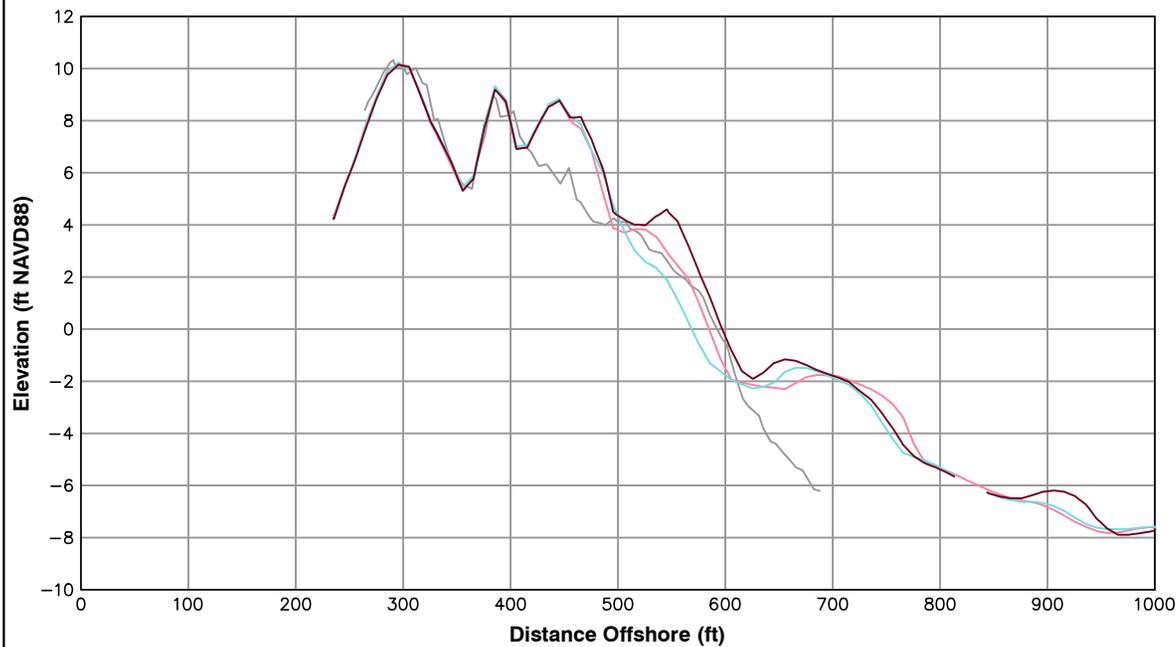
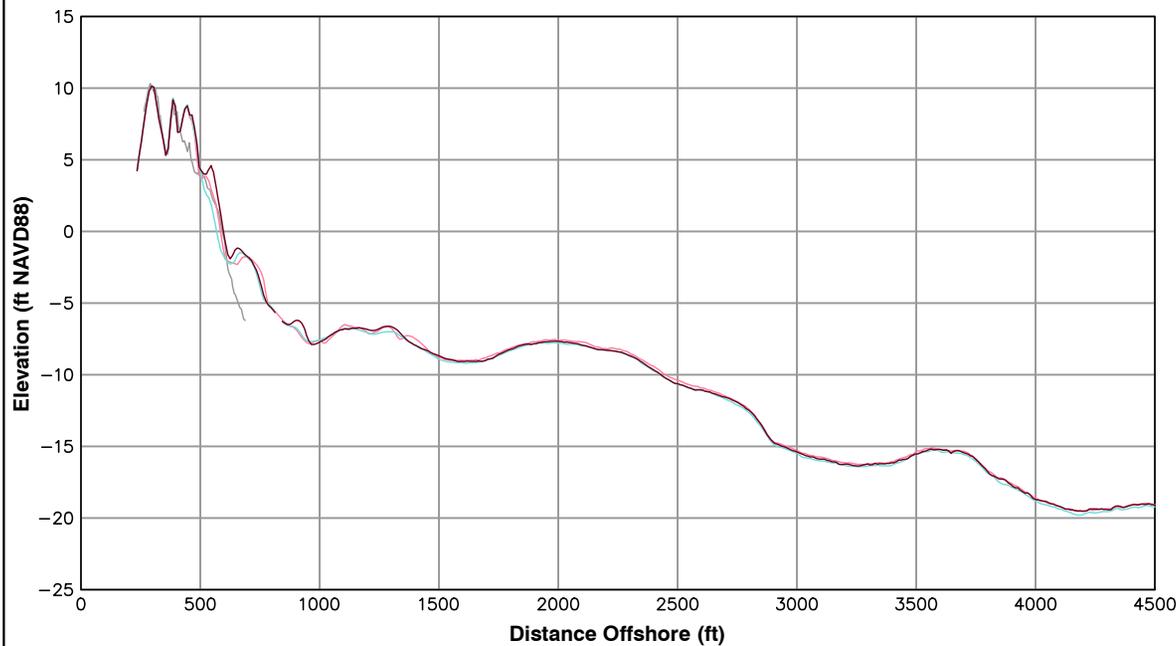
- 2014 MAR ———
- 2013 OCT ———
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Survey Transect 15+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	12.64 ft/yr	30.48 ft
Volume Change Above -15 ft NAVD88	-0.17 cy/ft/yr	16.30 cy/ft
Volume Change Above 0 ft NAVD88	4.13 cy/ft/yr	5.86 cy/ft

**LEGEND:**

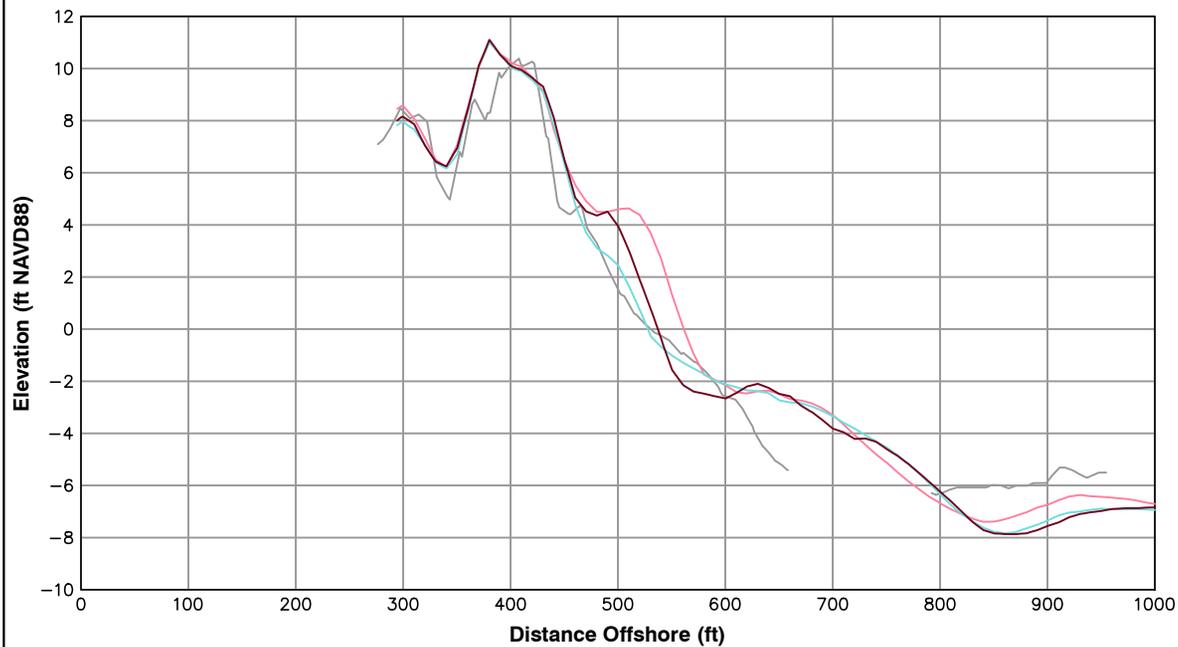
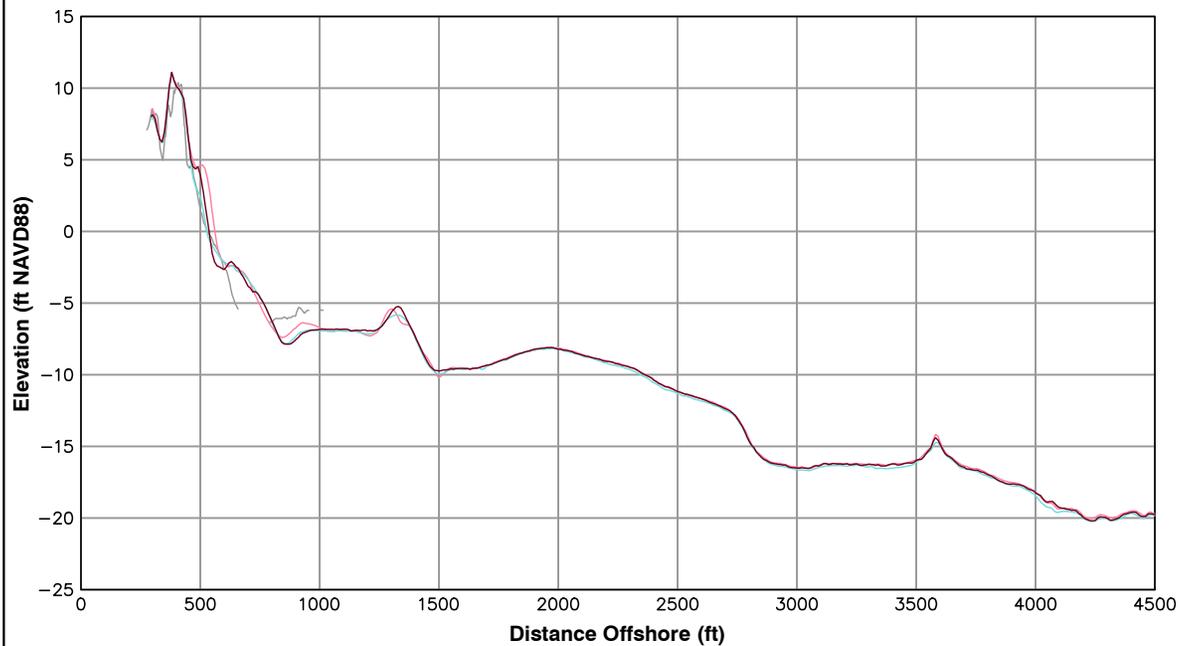
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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Survey Transect 17+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-25.51 ft/yr	10.91 ft
Volume Change Above -15 ft NAVD88	-9.34 cy/ft/yr	9.61 cy/ft
Volume Change Above 0 ft NAVD88	-5.21 cy/ft/yr	3.93 cy/ft

**LEGEND:**

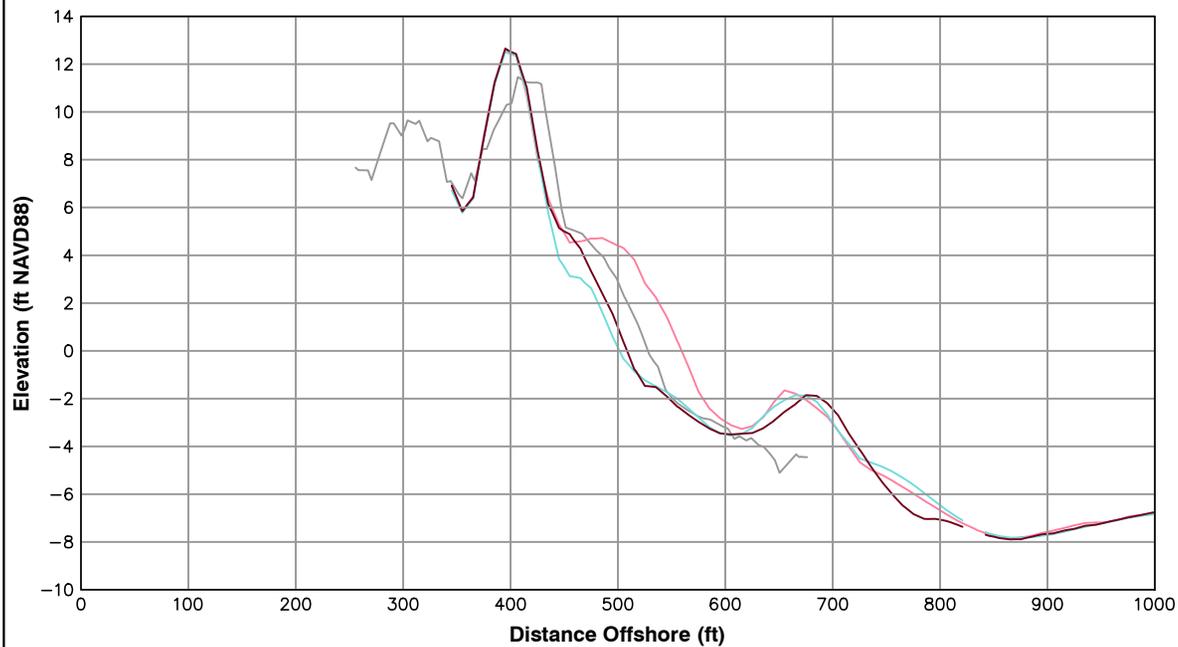
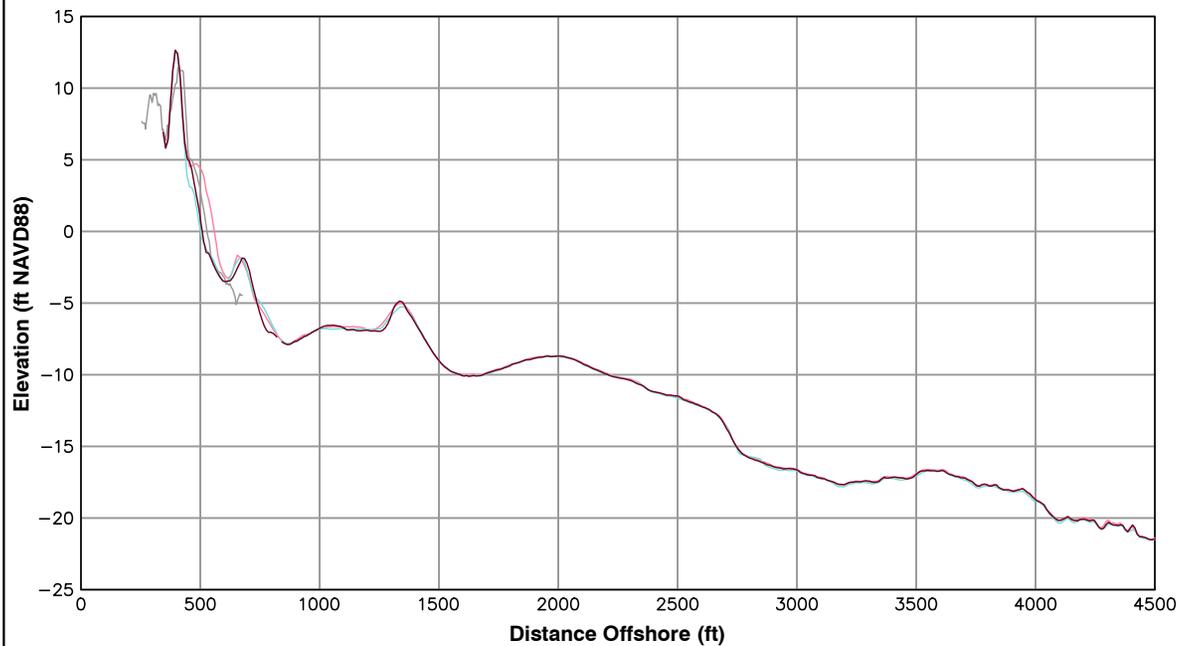
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

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Survey Transect 20+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-51.69 ft/yr	8.51 ft
Volume Change Above -15 ft NAVD88	-18.44 cy/ft/yr	1.42 cy/ft
Volume Change Above 0 ft NAVD88	-8.09 cy/ft/yr	3.08 cy/ft

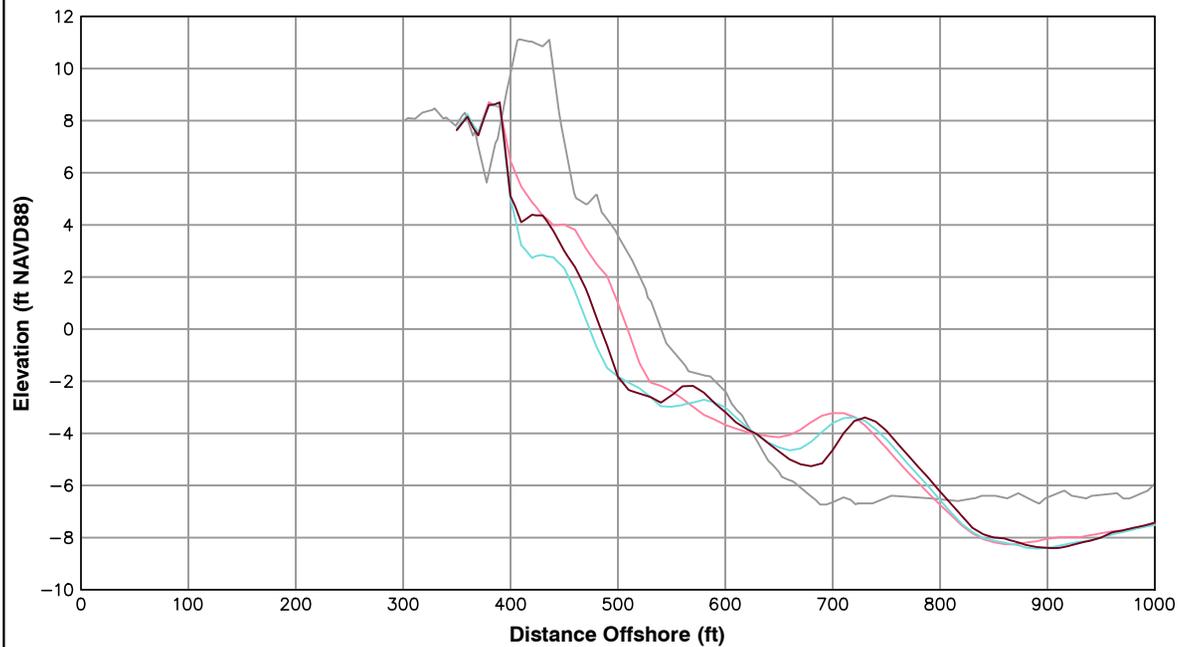
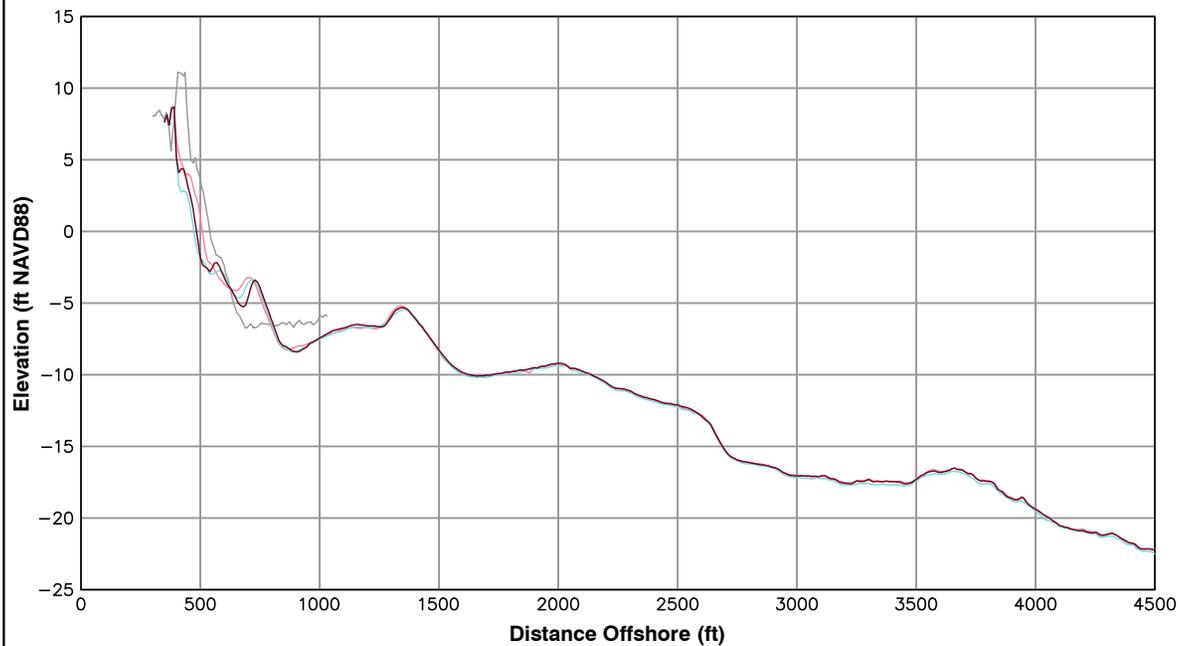
**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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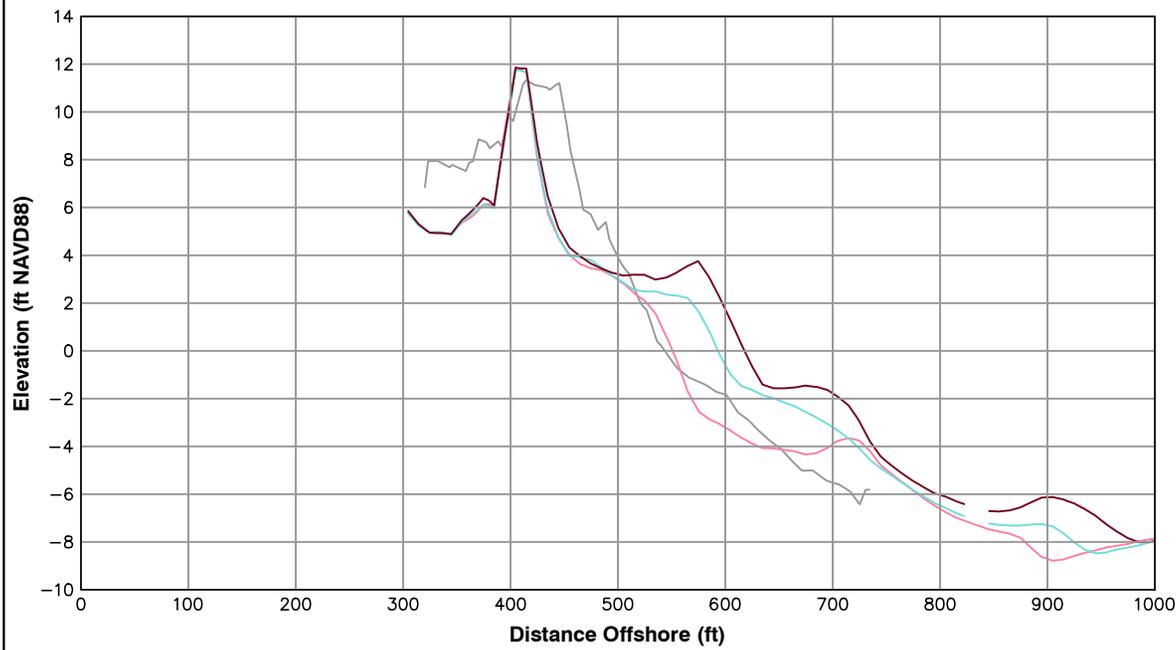
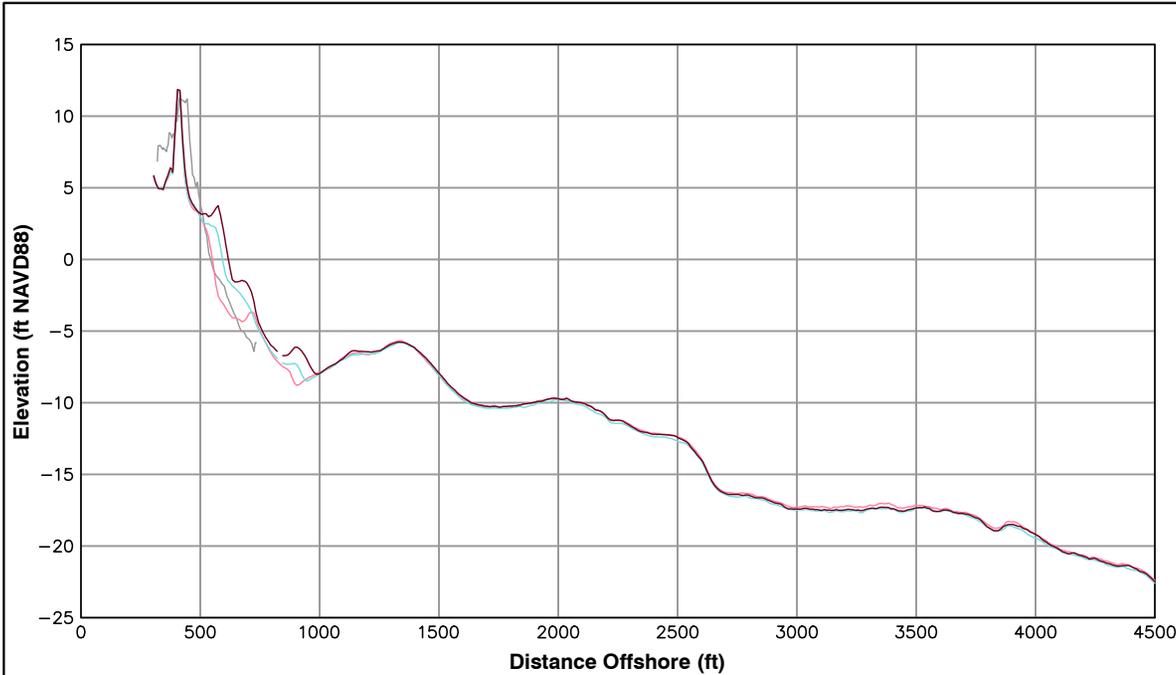
Survey Transect 22+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-25.72 ft/yr	10.94 ft
Volume Change Above -15 ft NAVD88	-4.74 cy/ft/yr	10.61 cy/ft
Volume Change Above 0 ft NAVD88	-4.85 cy/ft/yr	3.08 cy/ft

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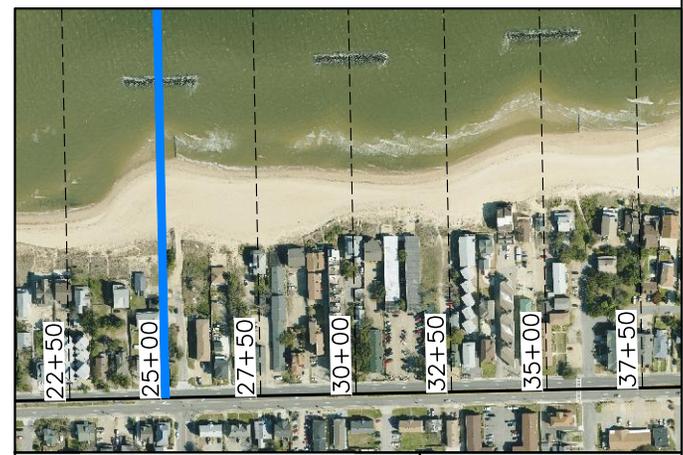


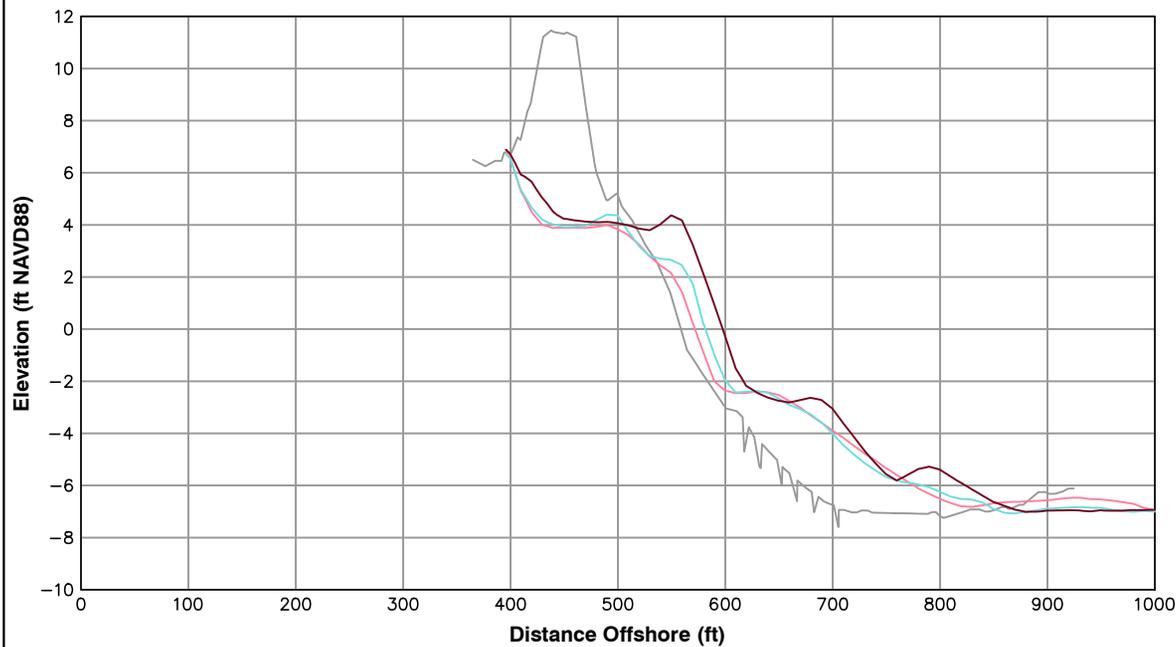
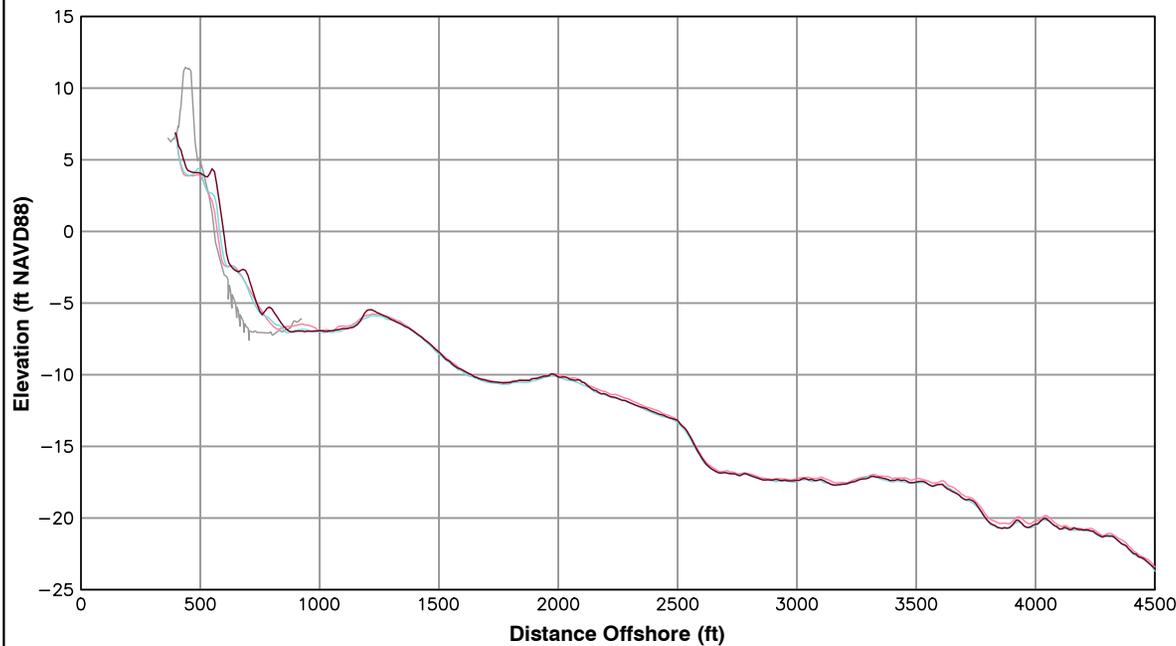
Survey Transect 25+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	69.23 ft/yr	24.66 ft
Volume Change Above -15 ft NAVD88	37.45 cy/ft/yr	26.09 cy/ft
Volume Change Above 0 ft NAVD88	10.34 cy/ft/yr	5.93 cy/ft

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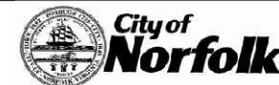
Survey Transect 27+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	26.96 ft/yr	14.84 ft
Volume Change Above -15 ft NAVD88	7.34 cy/ft/yr	15.58 cy/ft
Volume Change Above 0 ft NAVD88	7.51 cy/ft/yr	5.25 cy/ft

**LEGEND:**

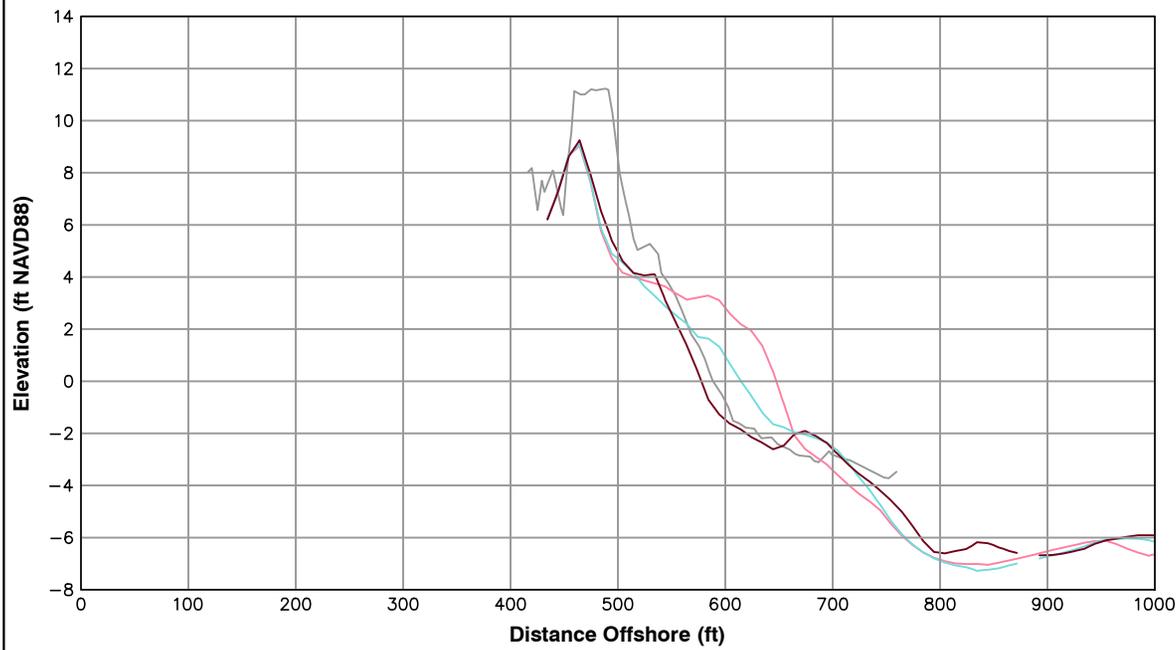
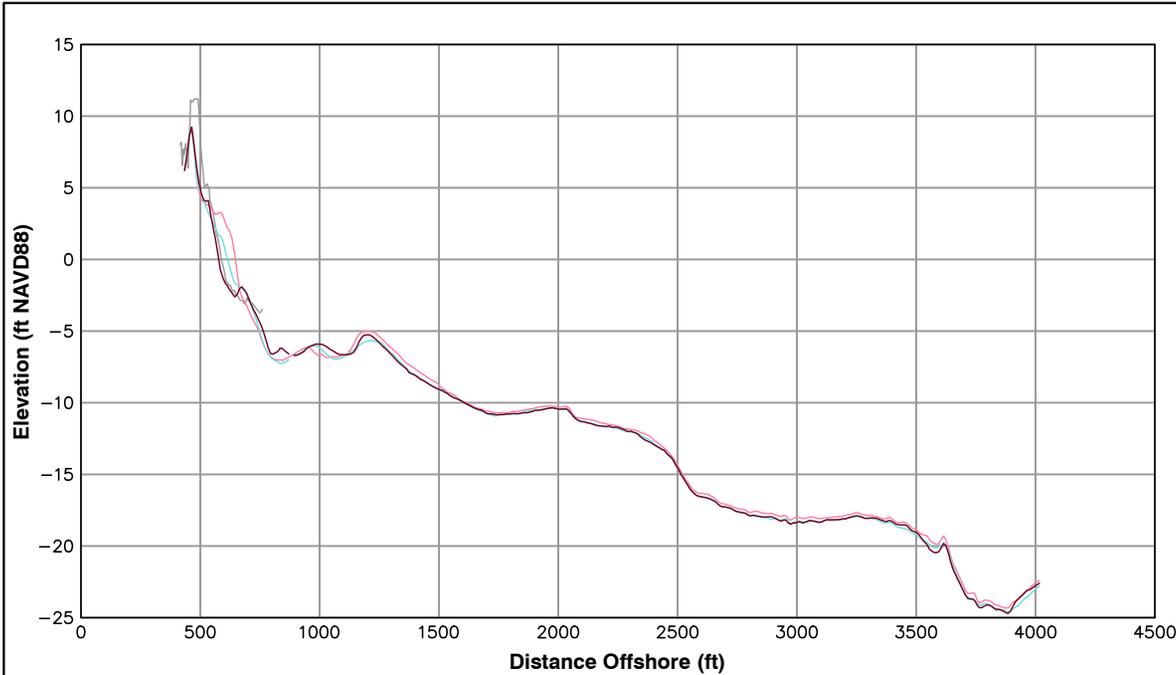
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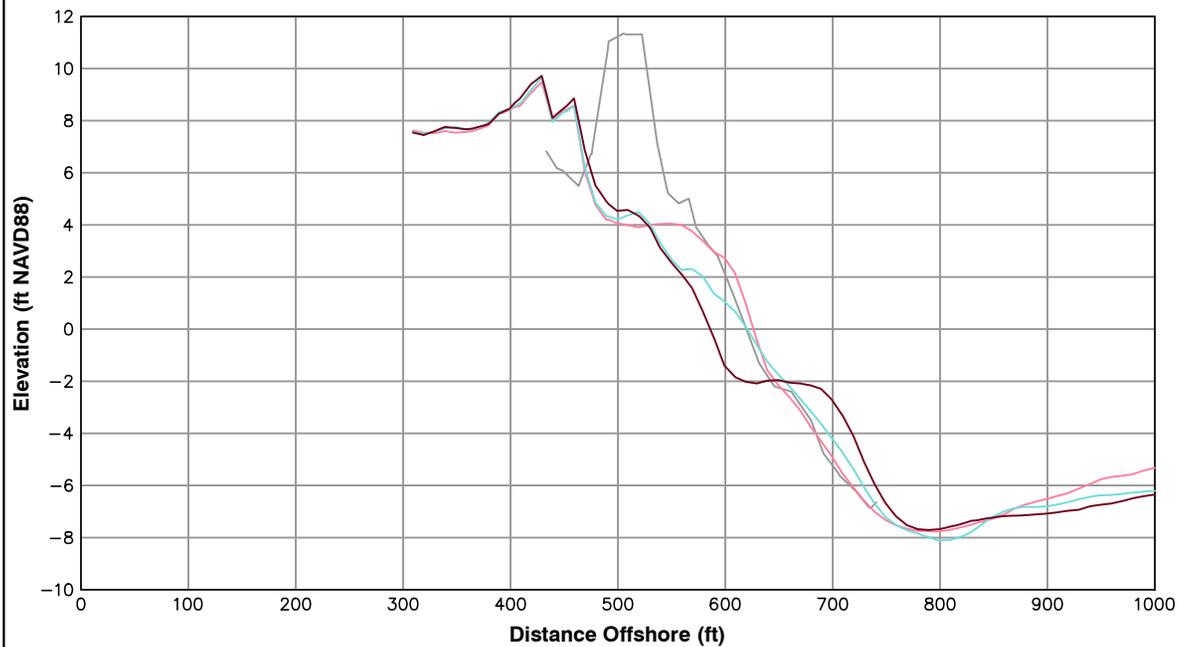
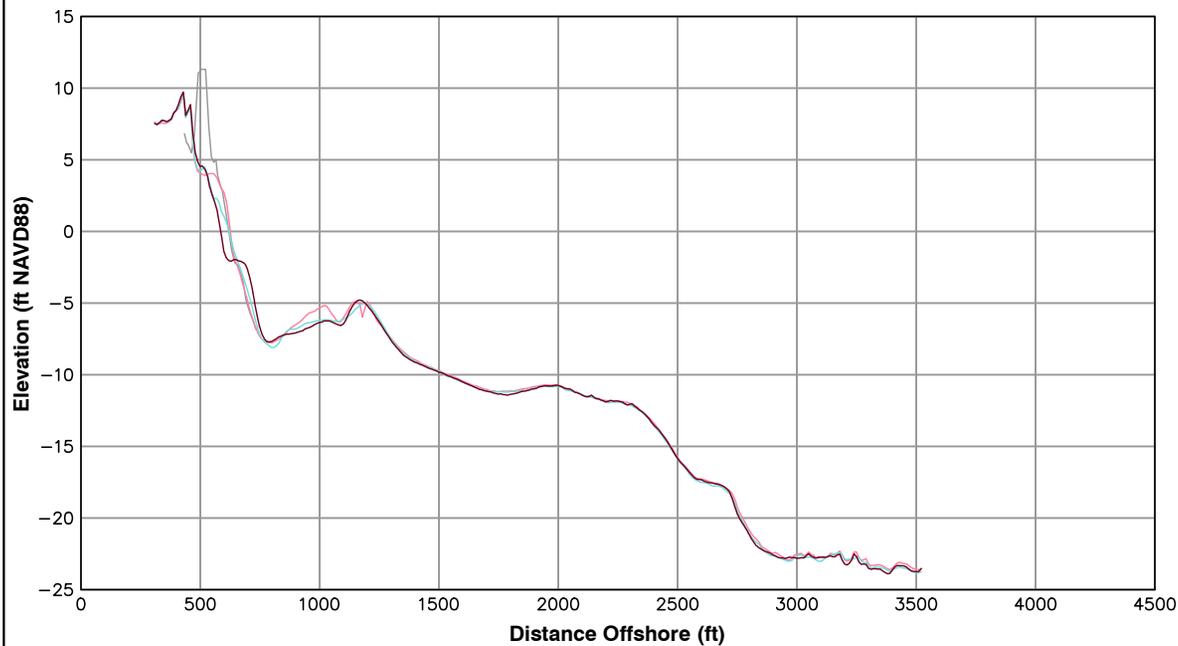
Survey Transect 30+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-72.76 ft/yr	-31.51 ft
Volume Change Above -15 ft NAVD88	-18.02 cy/ft/yr	0.48 cy/ft
Volume Change Above 0 ft NAVD88	-6.94 cy/ft/yr	-1.19 cy/ft

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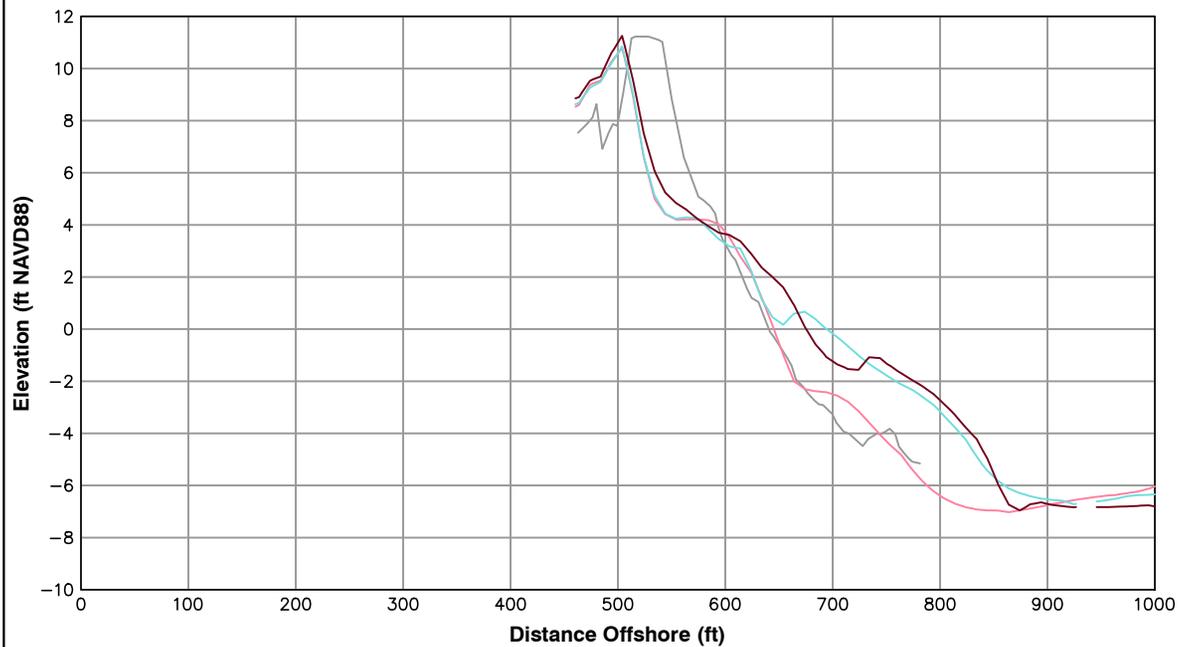
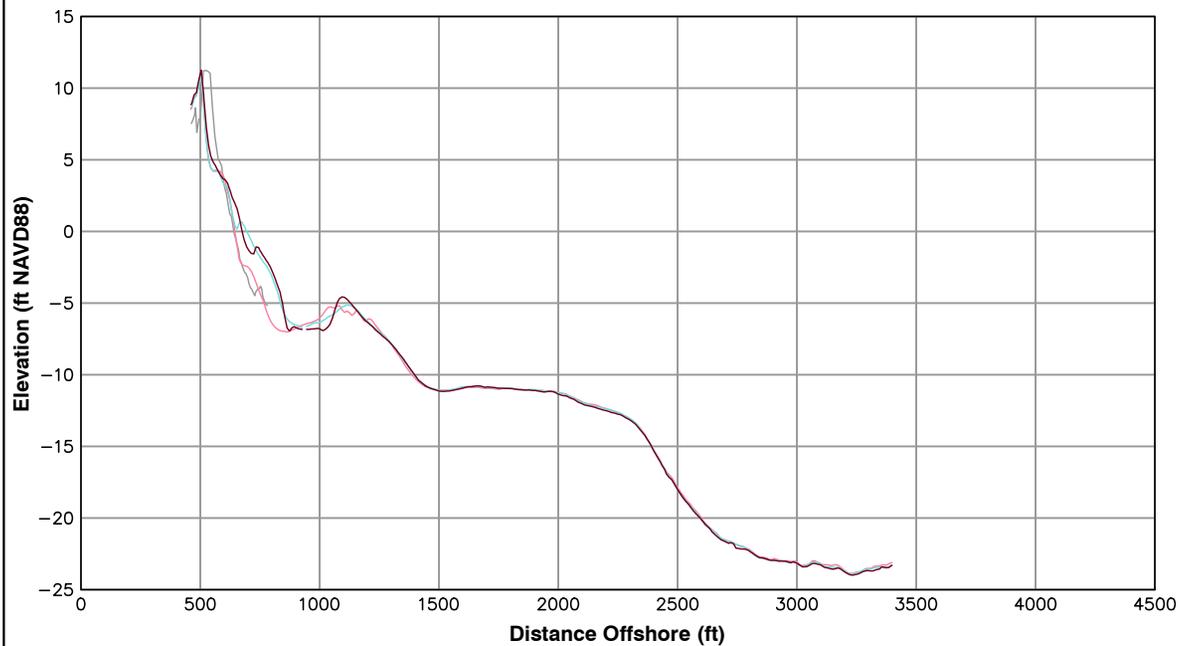
Survey Transect 32+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-44.94 ft/yr	-25.55 ft
Volume Change Above -15 ft NAVD88	-11.99 cy/ft/yr	-1.52 cy/ft
Volume Change Above 0 ft NAVD88	-4.74 cy/ft/yr	-0.99 cy/ft

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Survey Transect 35+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	28.01 ft/yr	26.69 ft
Volume Change Above -15 ft NAVD88	21.28 cy/ft/yr	0.84 cy/ft
Volume Change Above 0 ft NAVD88	4.73 cy/ft/yr	3.98 cy/ft

**LEGEND:**

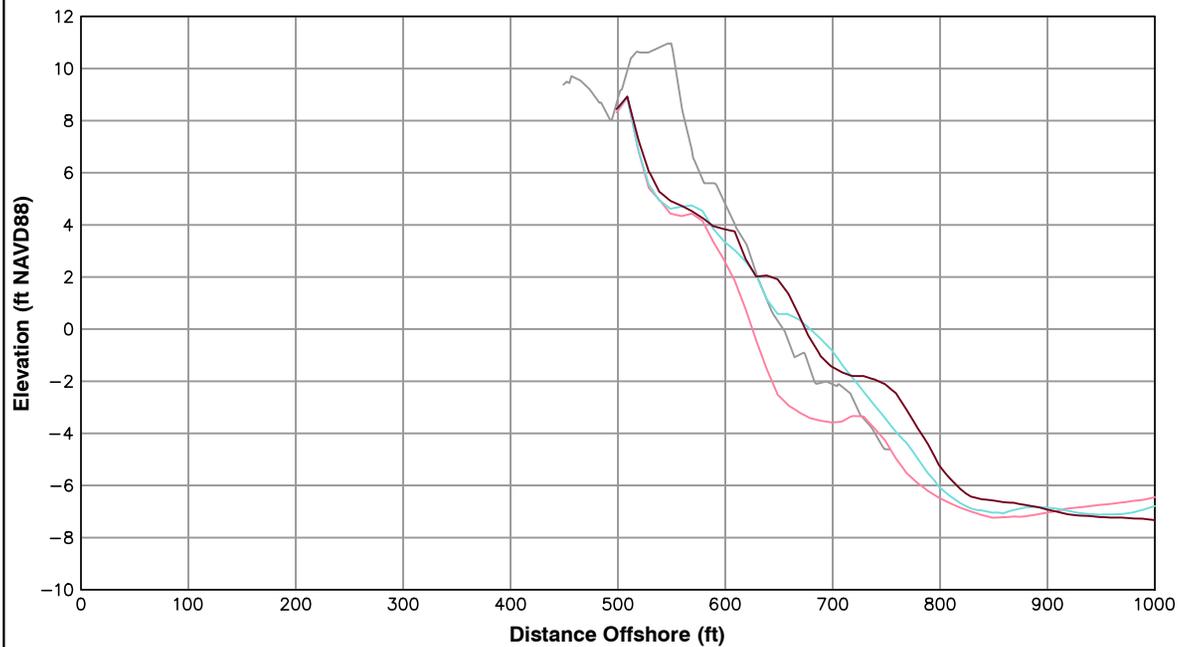
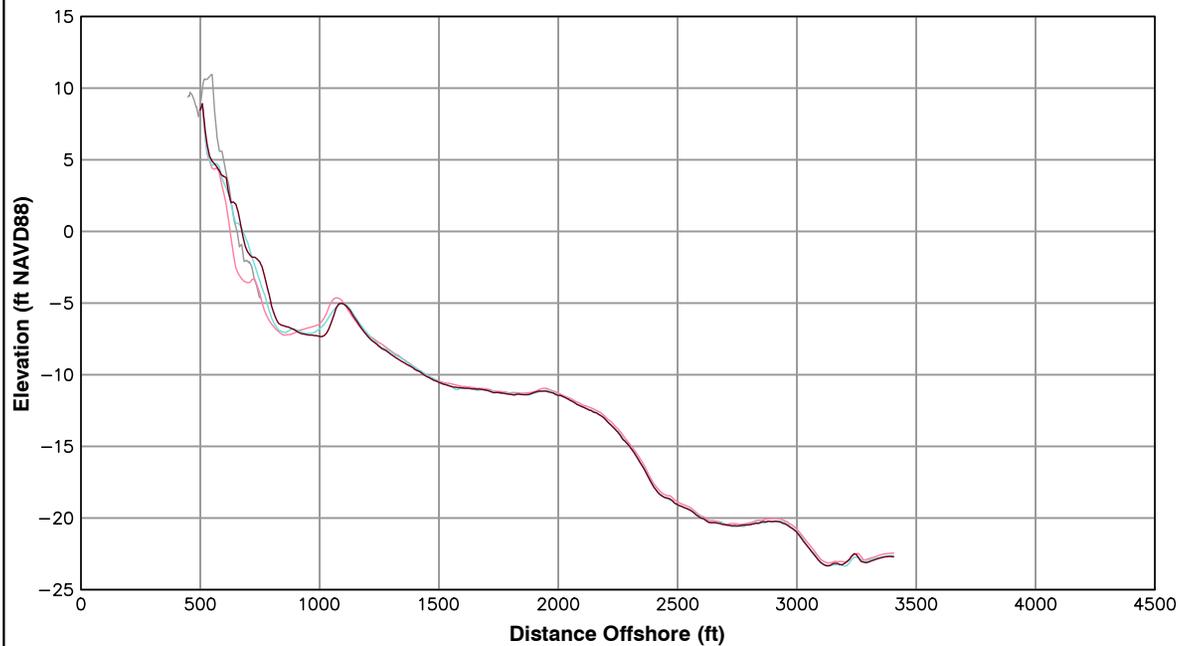
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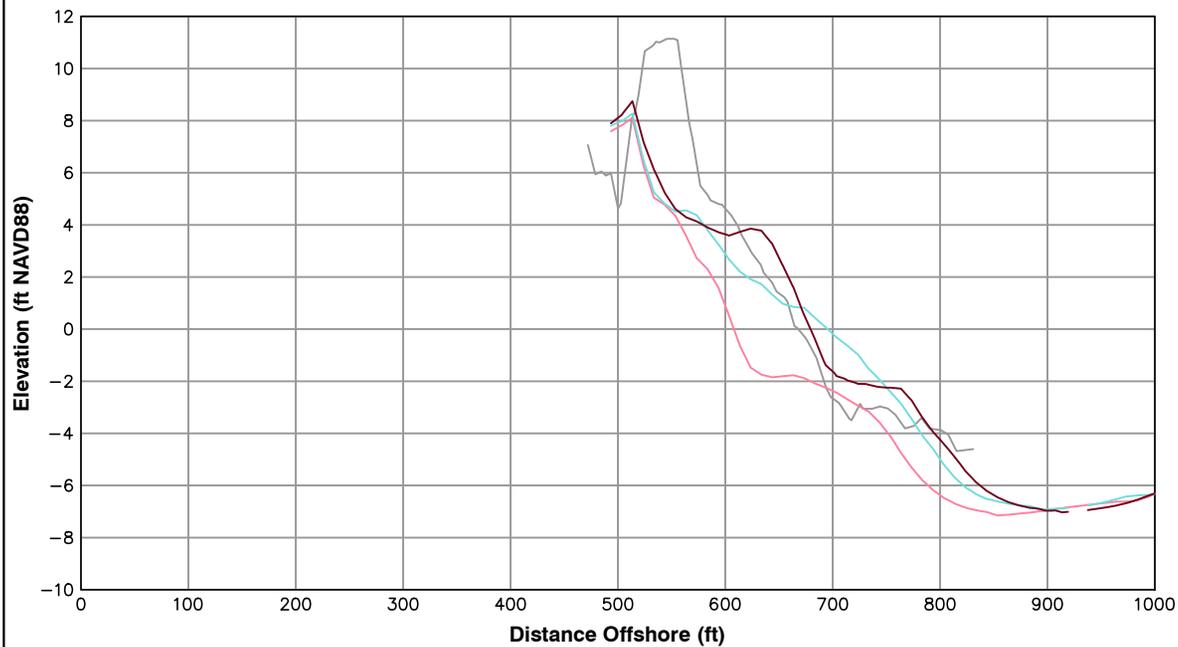
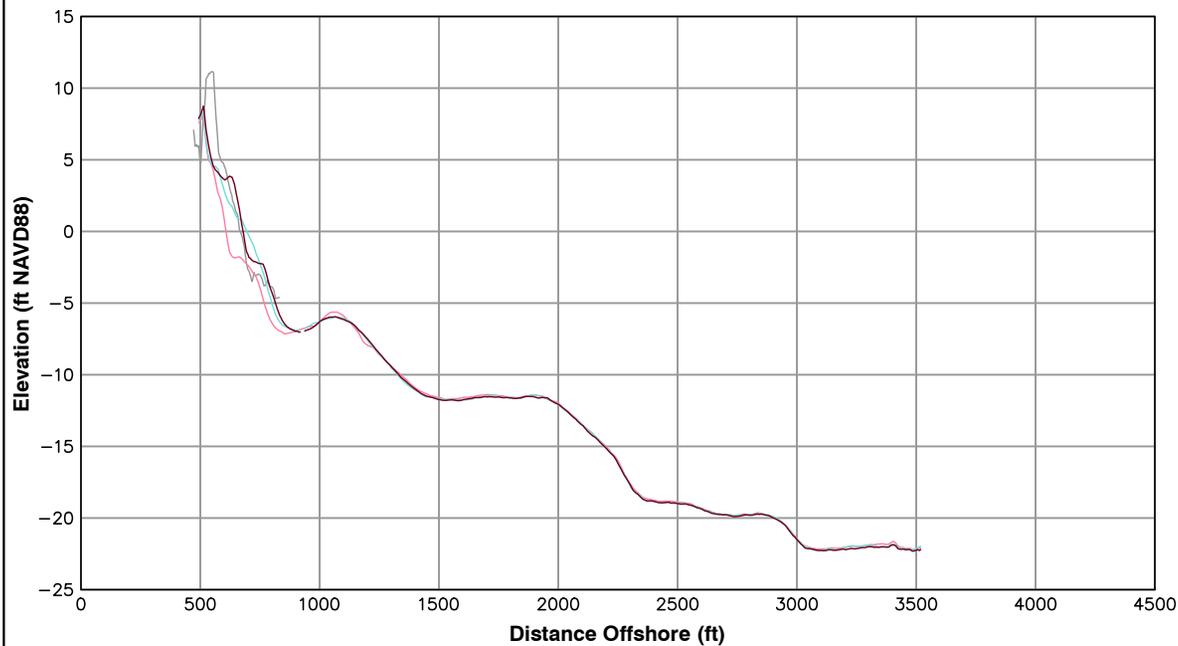
Survey Transect 37+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	48.10 ft/yr	21.71 ft
Volume Change Above -15 ft NAVD88	11.16 cy/ft/yr	1.45 cy/ft
Volume Change Above 0 ft NAVD88	6.16 cy/ft/yr	2.06 cy/ft

**LEGEND:**

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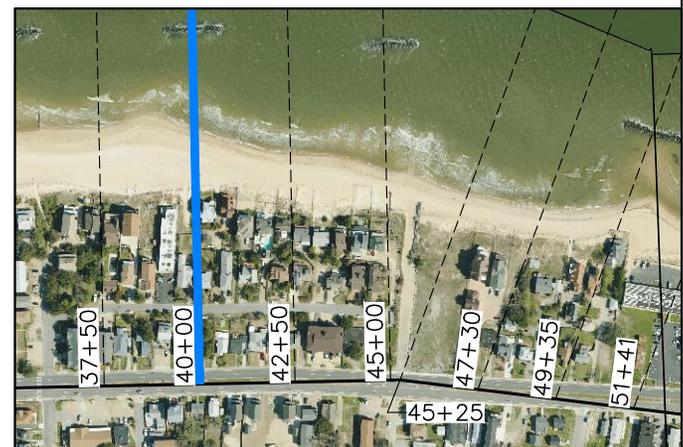


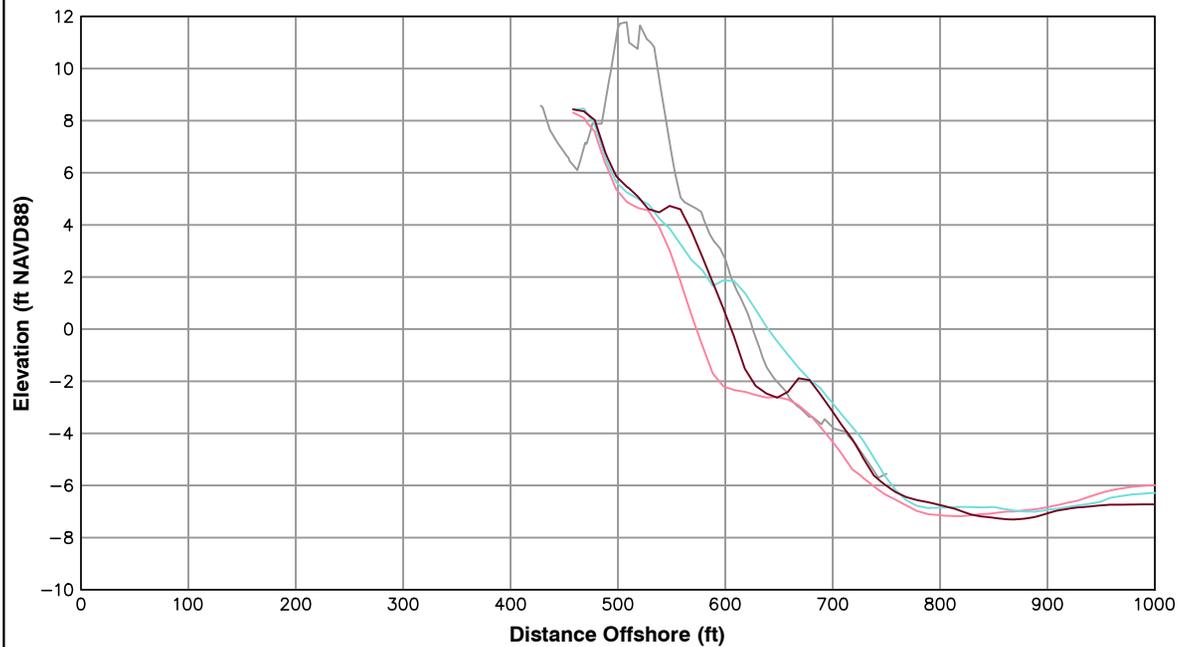
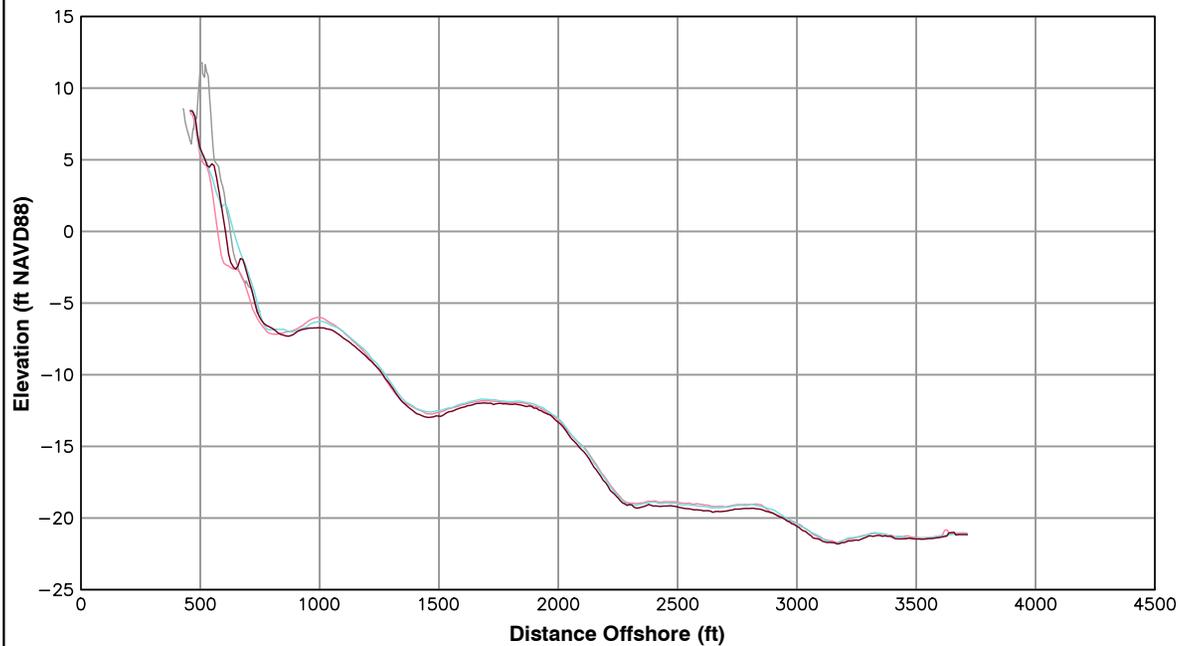
Survey Transect 40+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	72.58 ft/yr	15.82 ft
Volume Change Above -15 ft NAVD88	23.84 cy/ft/yr	3.89 cy/ft
Volume Change Above 0 ft NAVD88	12.32 cy/ft/yr	4.67 cy/ft

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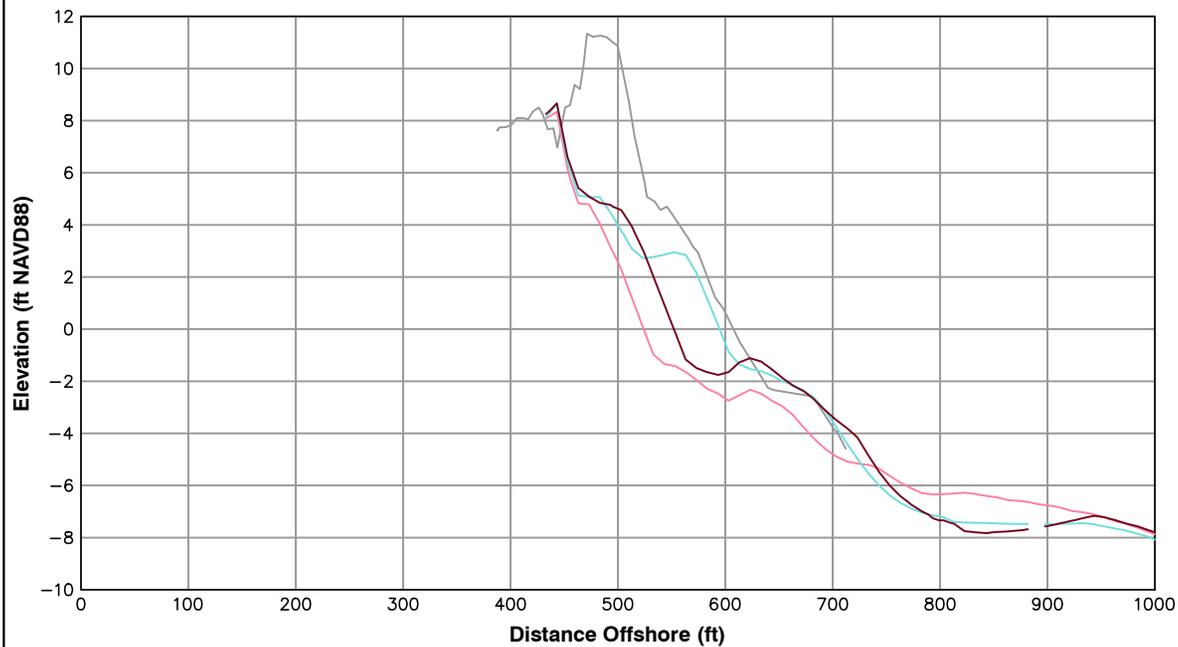
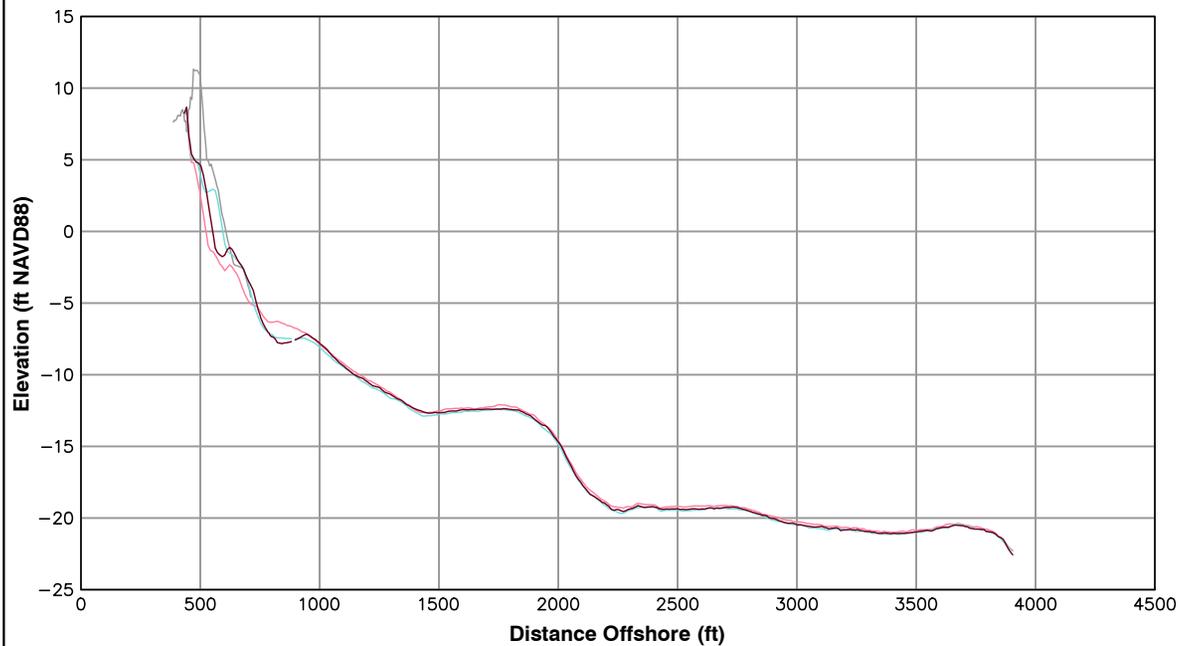
Survey Transect 42+50	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	32.44 ft/yr	-28.38 ft
Volume Change Above -15 ft NAVD88	3.37 cy/ft/yr	-18.17 cy/ft
Volume Change Above 0 ft NAVD88	6.32 cy/ft/yr	-0.15 cy/ft

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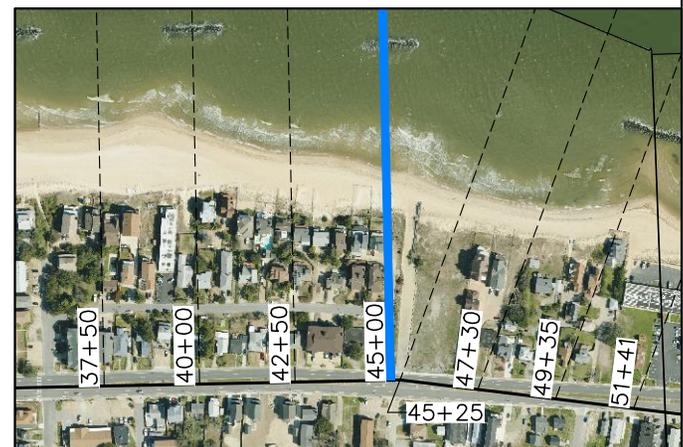


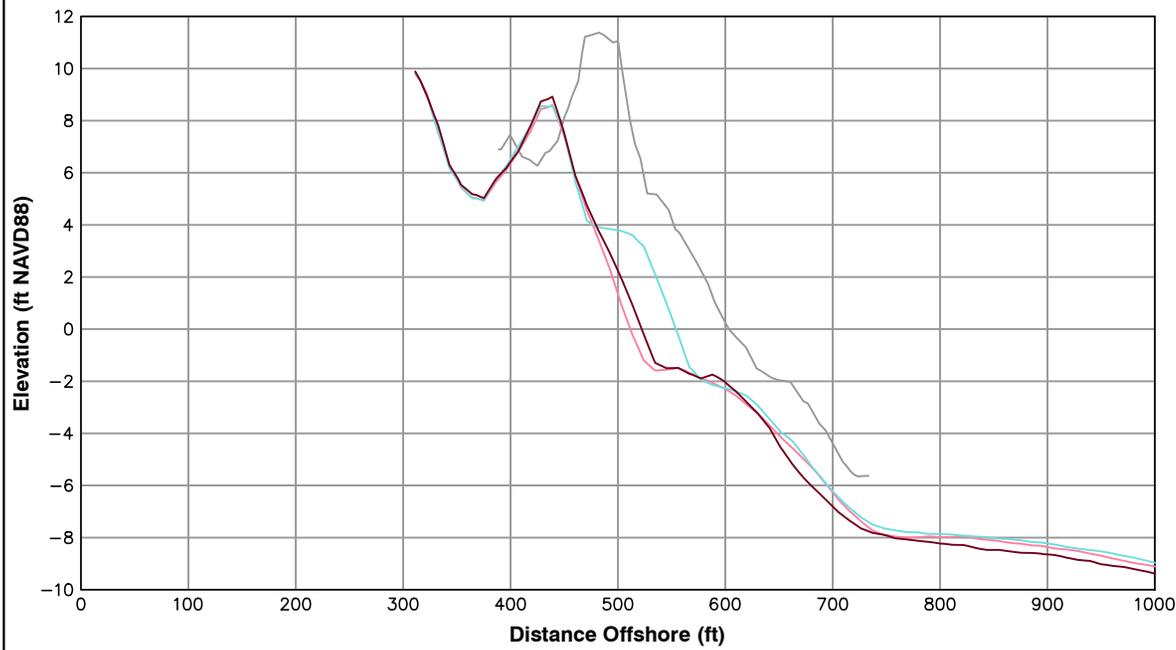
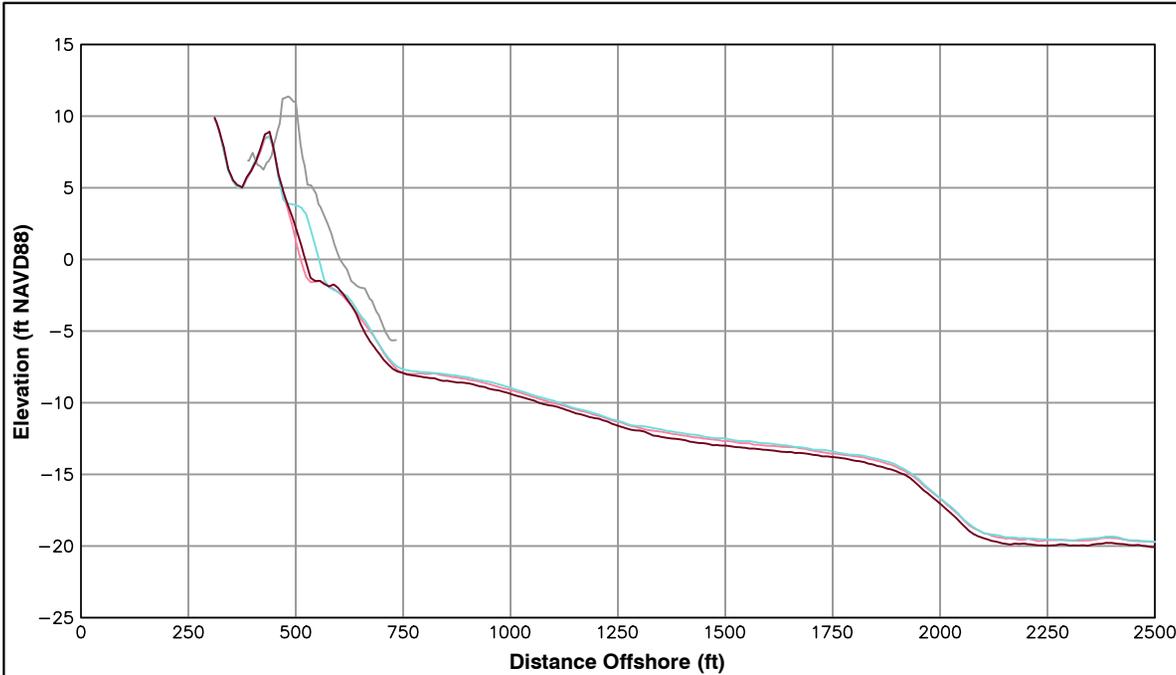
Survey Transect 45+00	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	28.84 ft/yr	-42.10 ft
Volume Change Above -15 ft NAVD88	3.91 cy/ft/yr	0.97 cy/ft
Volume Change Above 0 ft NAVD88	5.80 cy/ft/yr	-3.43 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:
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Survey Transect 45+25	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	10.50 ft/yr	-32.34 ft
Volume Change Above -15 ft NAVD88	-11.81 cy/ft/yr	-25.94 cy/ft
Volume Change Above 0 ft NAVD88	1.99 cy/ft/yr	-3.90 cy/ft

**LEGEND:**

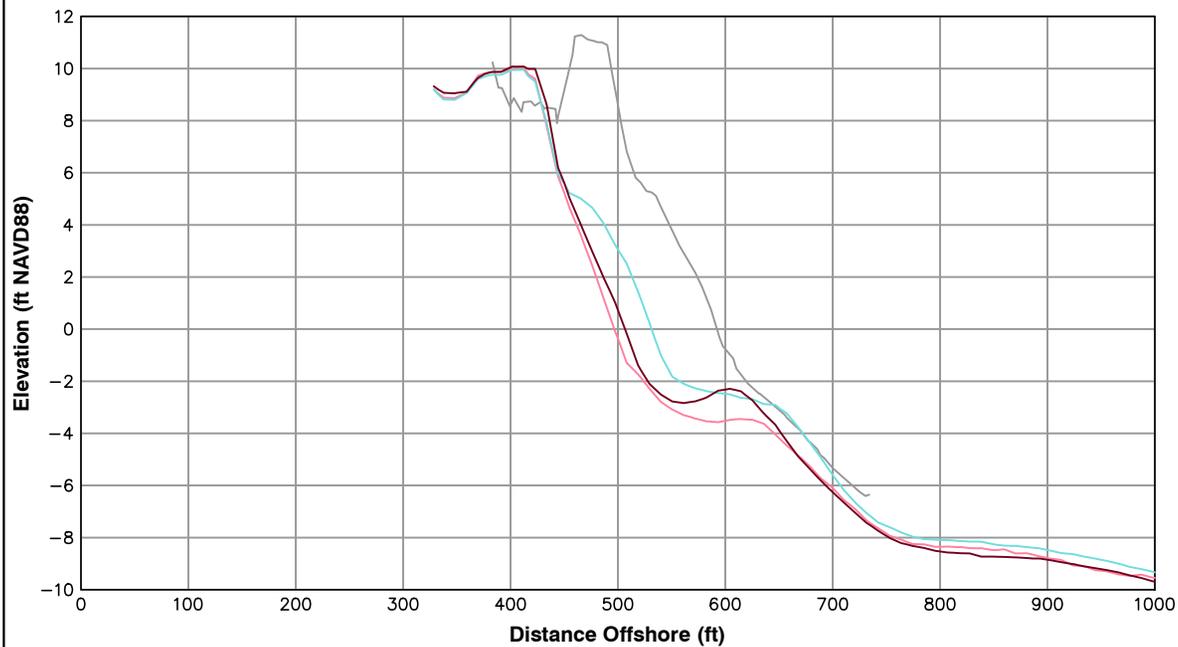
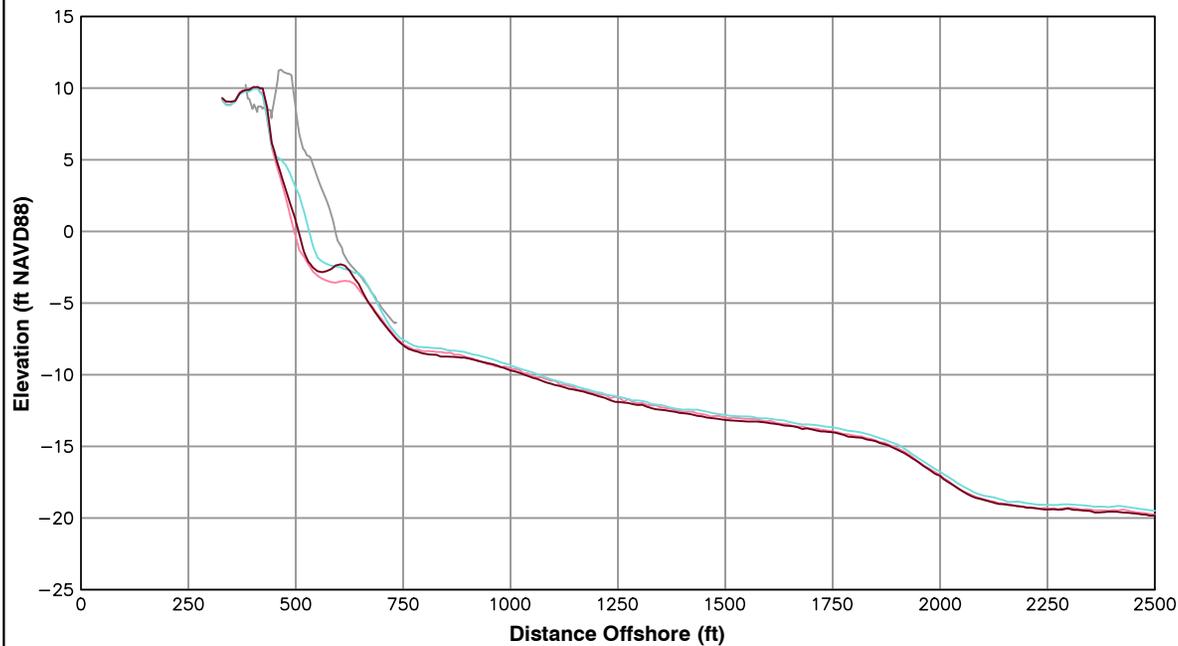
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

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**OCEAN VIEW PERIODIC  
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Survey Transect 47+30	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	9.72 ft/yr	-25.07 ft
Volume Change Above -15 ft NAVD88	-0.13 cy/ft/yr	-23.50 cy/ft
Volume Change Above 0 ft NAVD88	2.13 cy/ft/yr	-3.46 cy/ft

**LEGEND:**

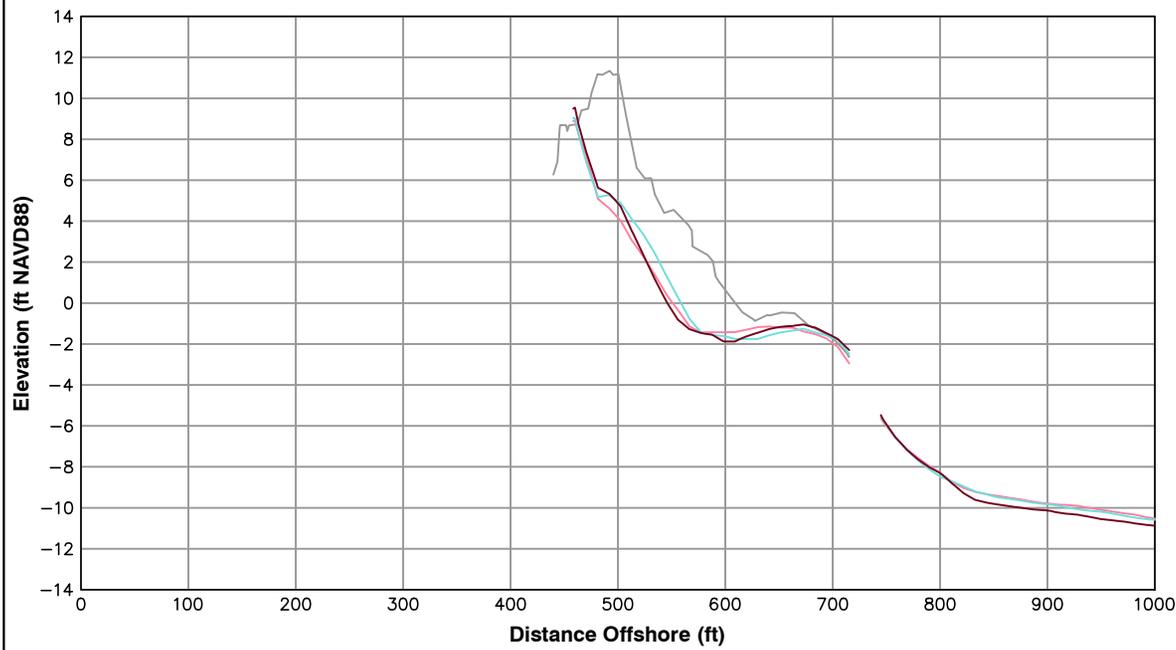
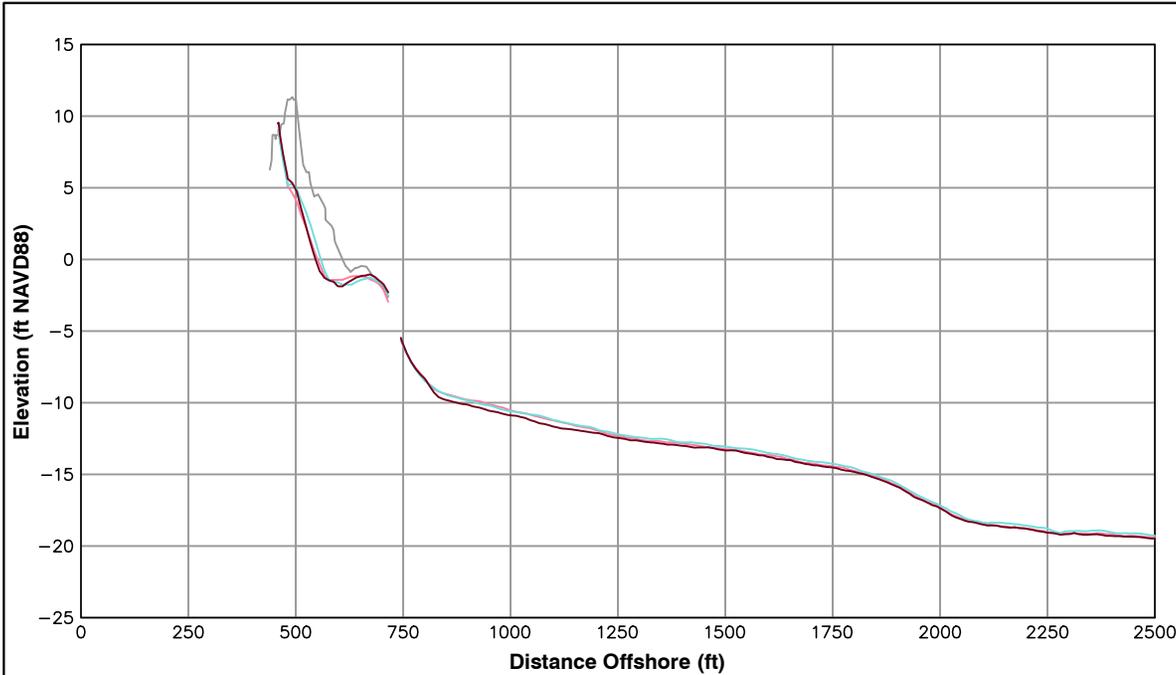
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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ANALYSIS**



Survey Transect 49+35	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-2.78 ft/yr	-12.50 ft
Volume Change Above -15 ft NAVD88	-7.31 cy/ft/yr	-12.38 cy/ft
Volume Change Above 0 ft NAVD88	1.05 cy/ft/yr	-1.24 cy/ft

**LEGEND:**

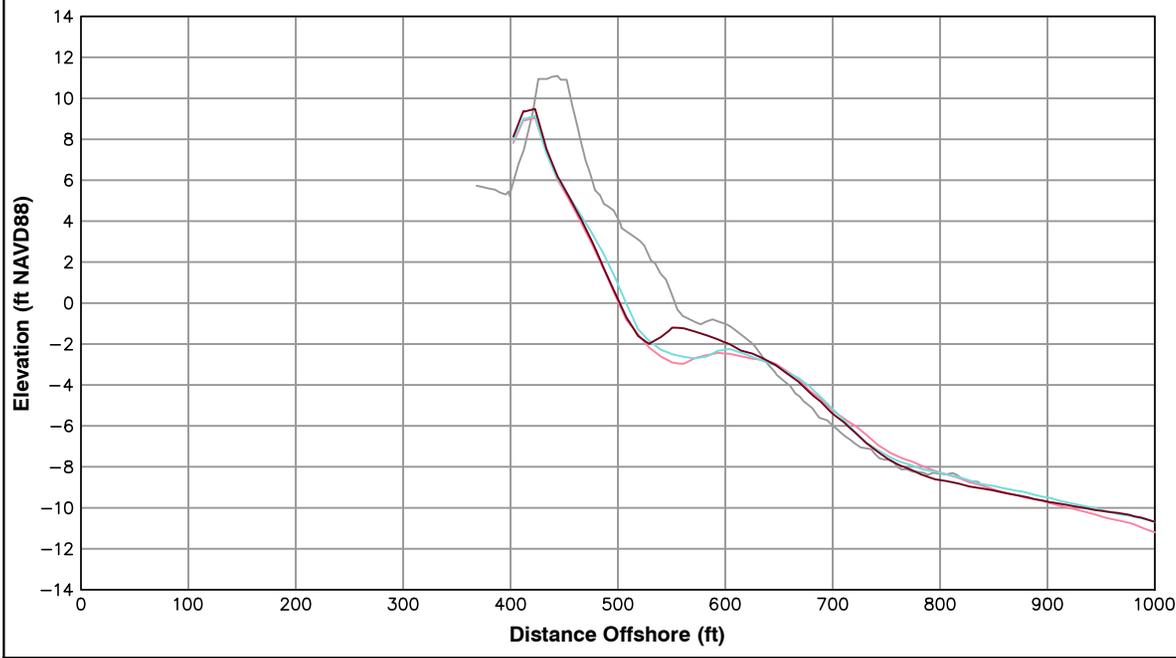
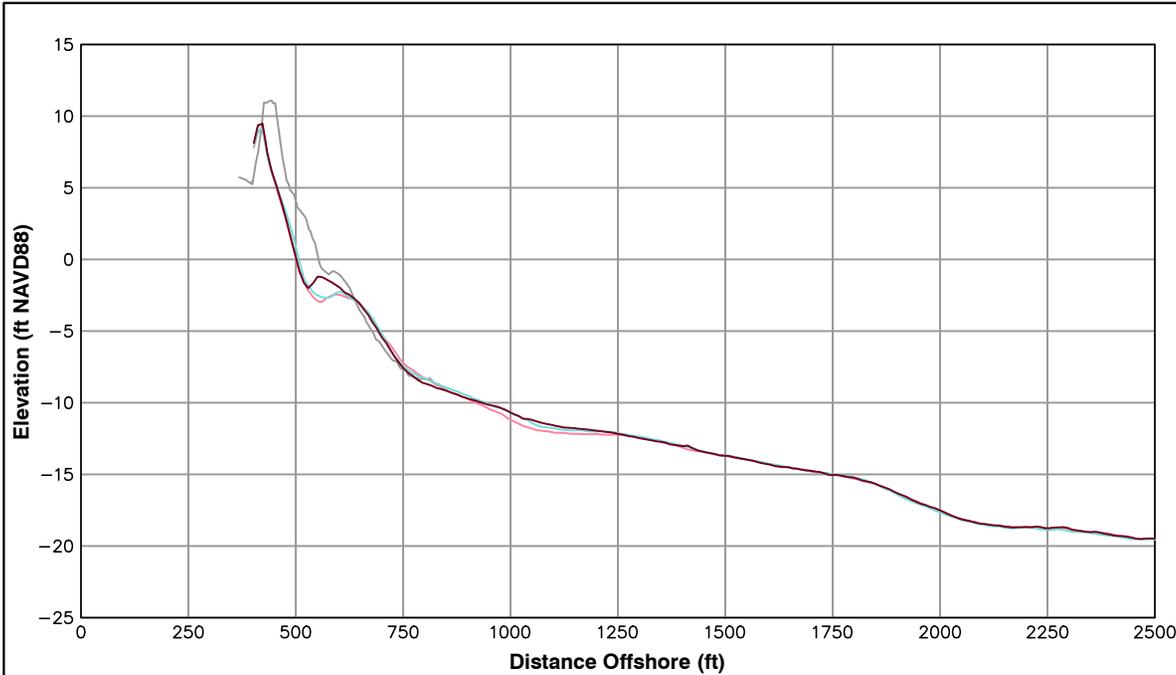
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**

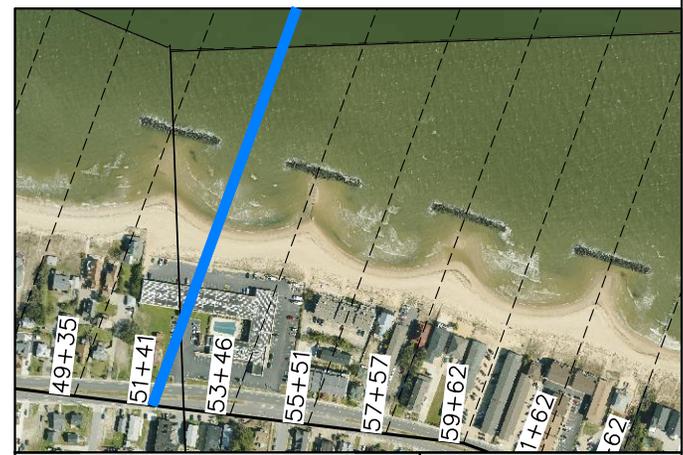


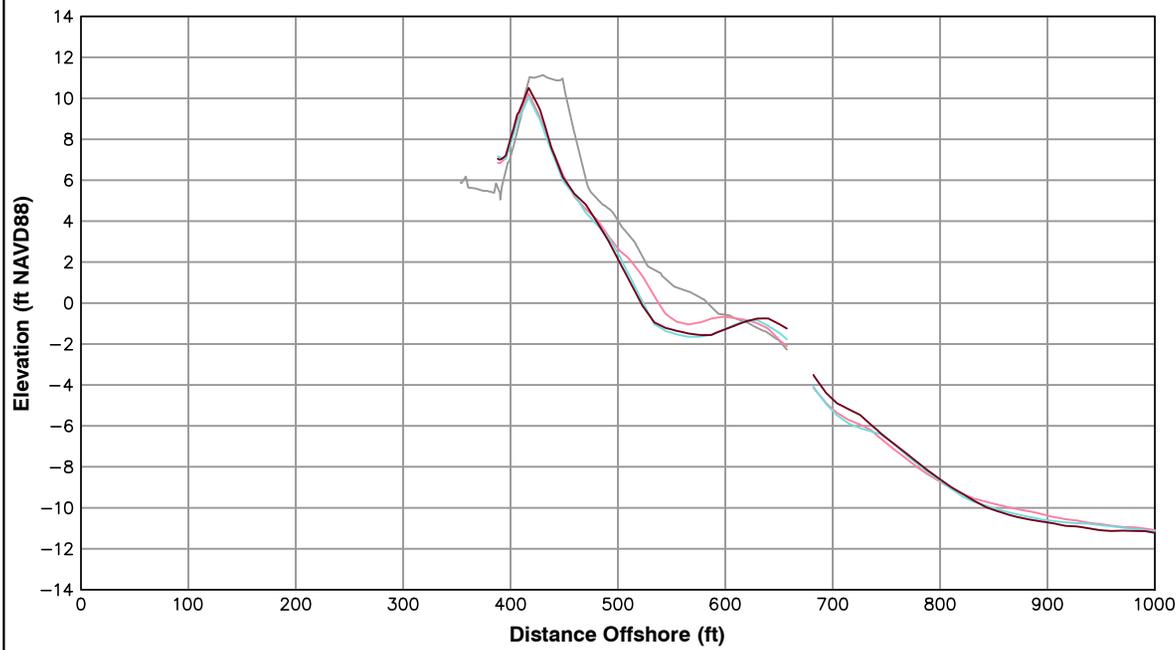
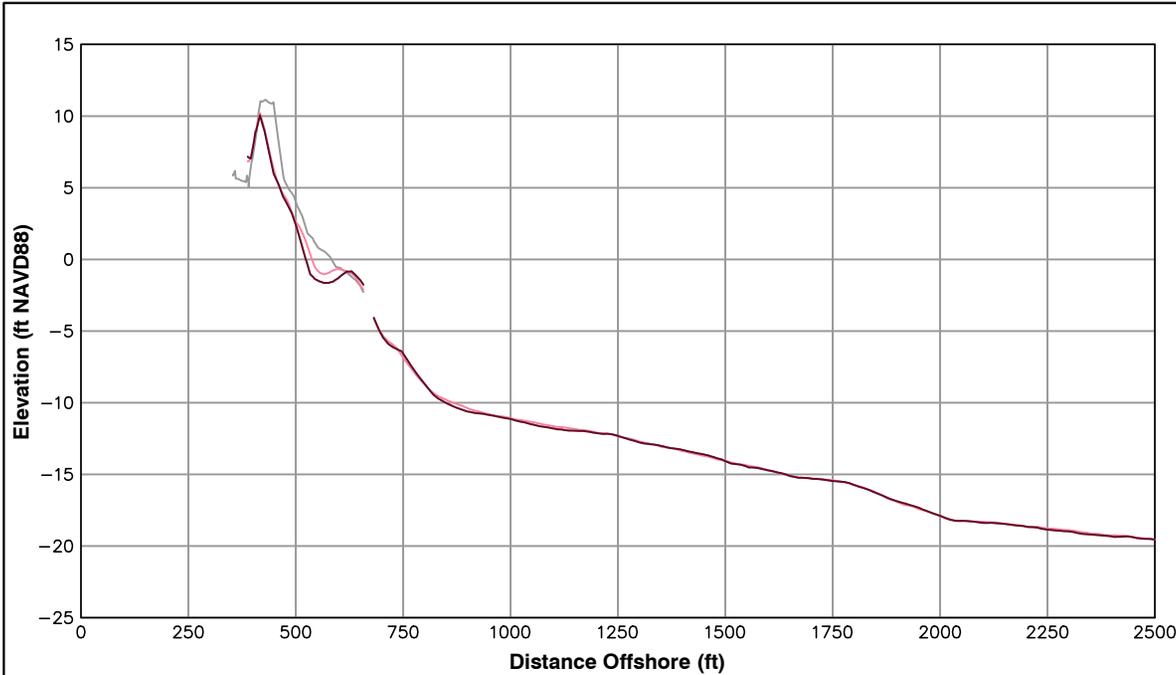
Survey Transect 51+41	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	0.71 ft/yr	-6.39 ft
Volume Change Above -15 ft NAVD88	7.35 cy/ft/yr	0.18 cy/ft
Volume Change Above 0 ft NAVD88	0.76 cy/ft/yr	-0.40 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

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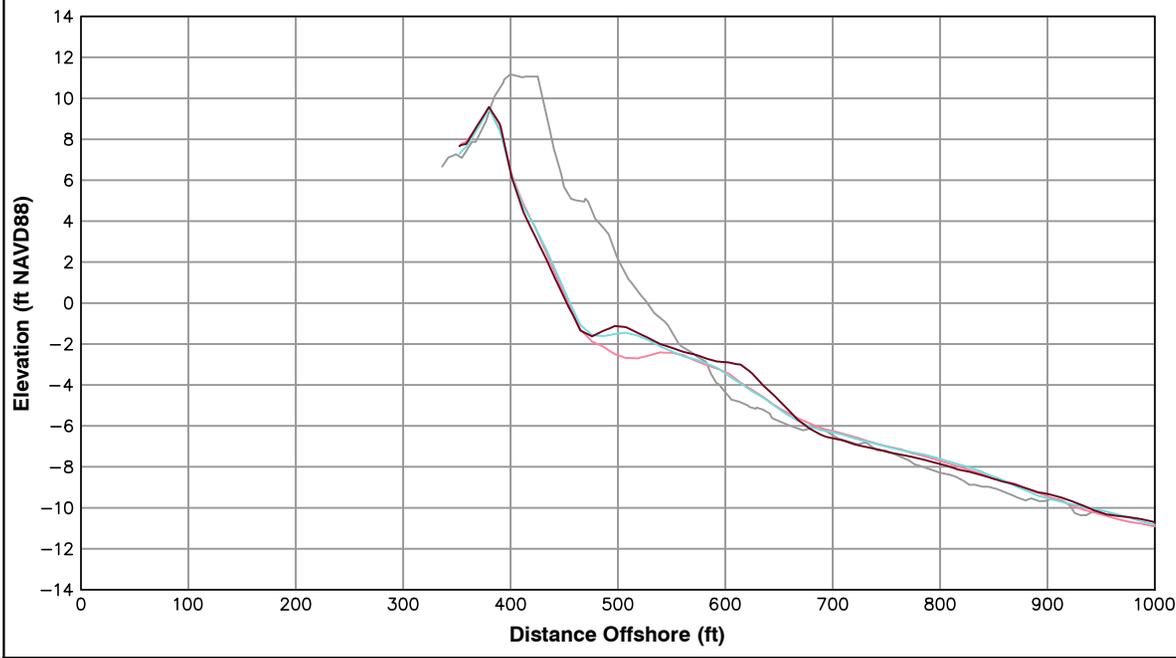
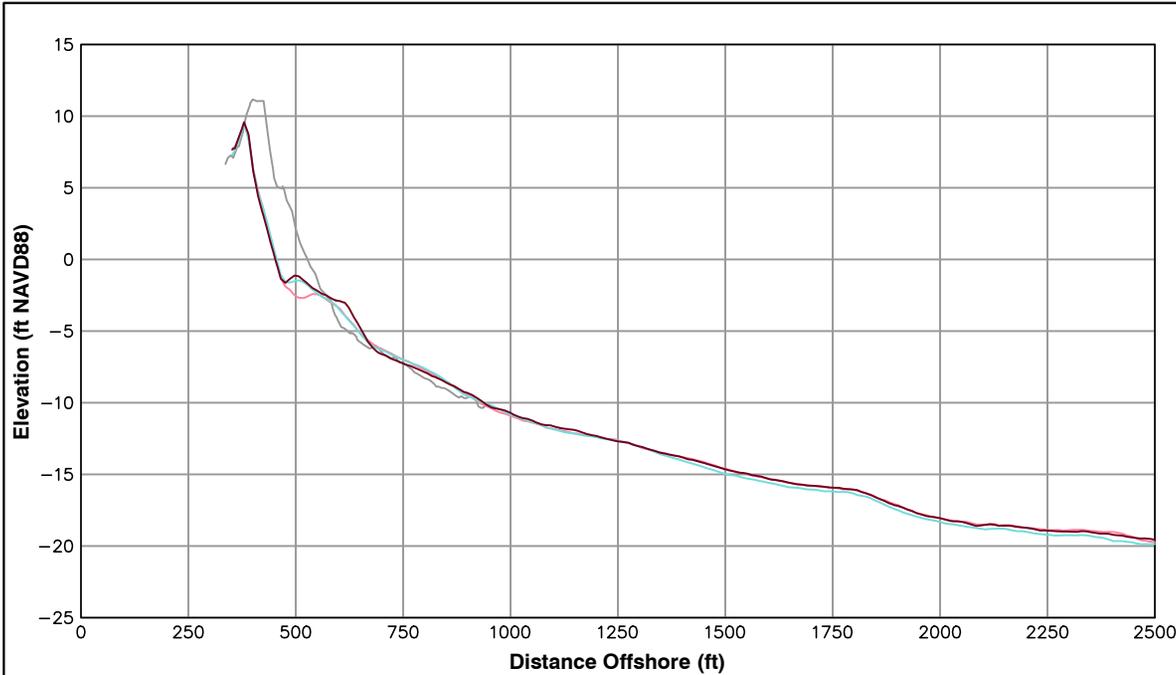
Survey Transect 53+46	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-15.49 ft/yr	-2.37 ft
Volume Change Above -15 ft NAVD88	-4.86 cy/ft/yr	0.52 cy/ft
Volume Change Above 0 ft NAVD88	-0.99 cy/ft/yr	0.59 cy/ft

**LEGEND:**

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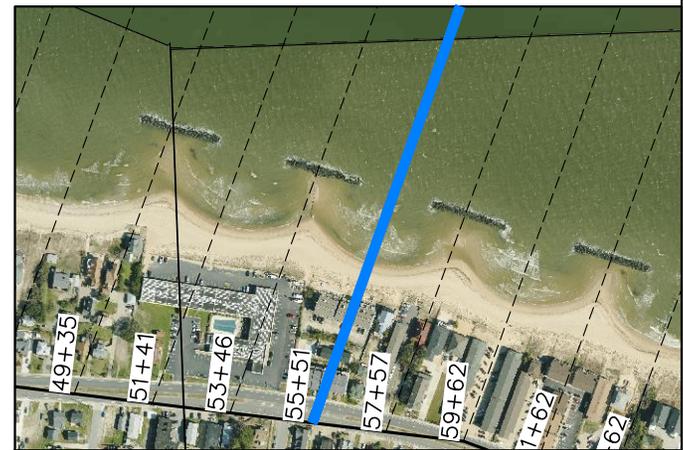
Survey Transect 55+51	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-2.00 ft/yr	-3.75 ft
Volume Change Above -15 ft NAVD88	4.01 cy/ft/yr	3.61 cy/ft
Volume Change Above 0 ft NAVD88	-0.53 cy/ft/yr	-0.40 cy/ft

**LEGEND:**

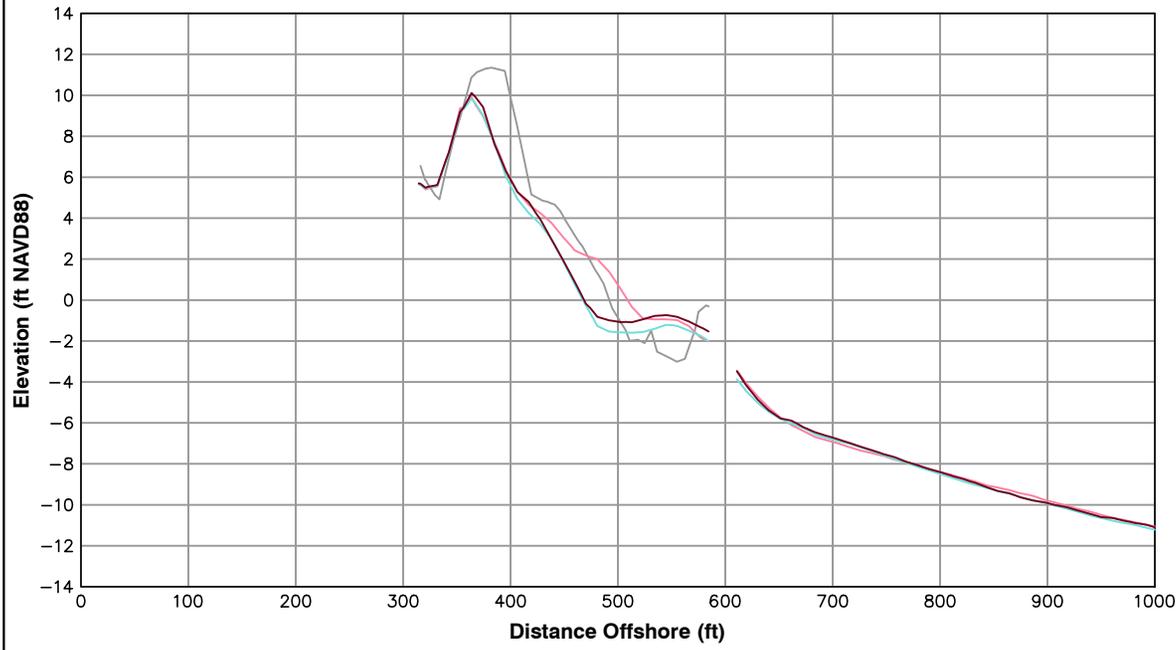
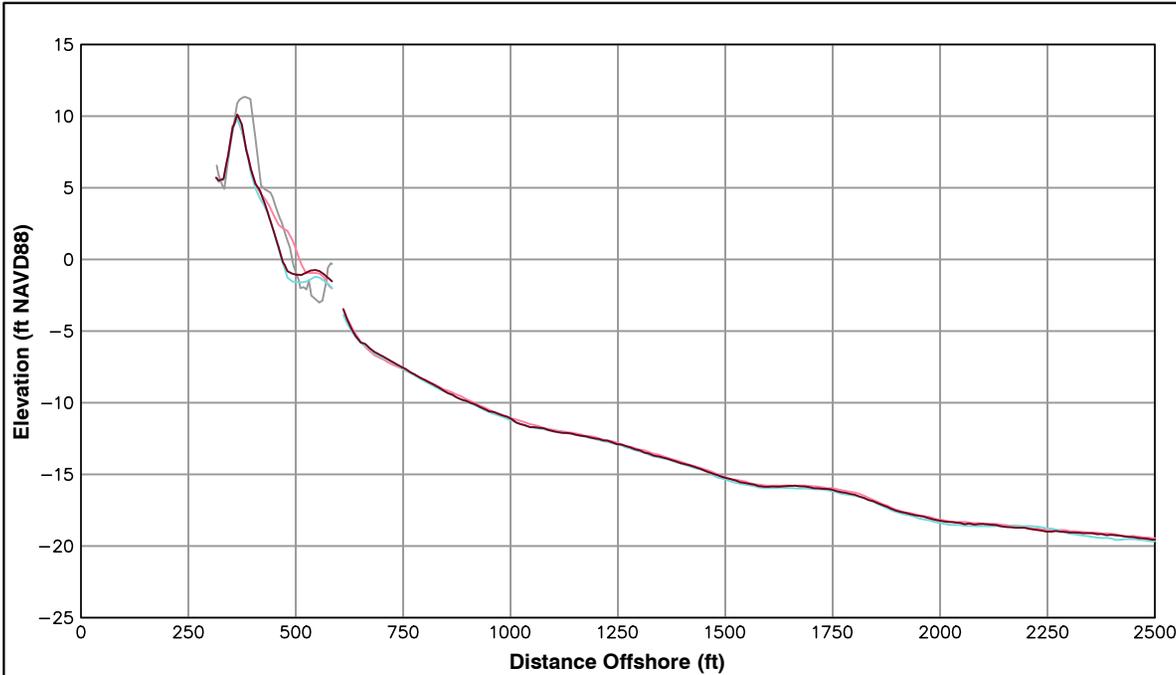
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
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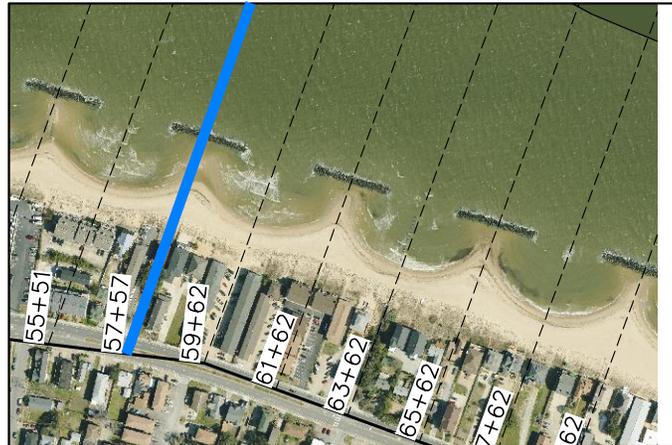


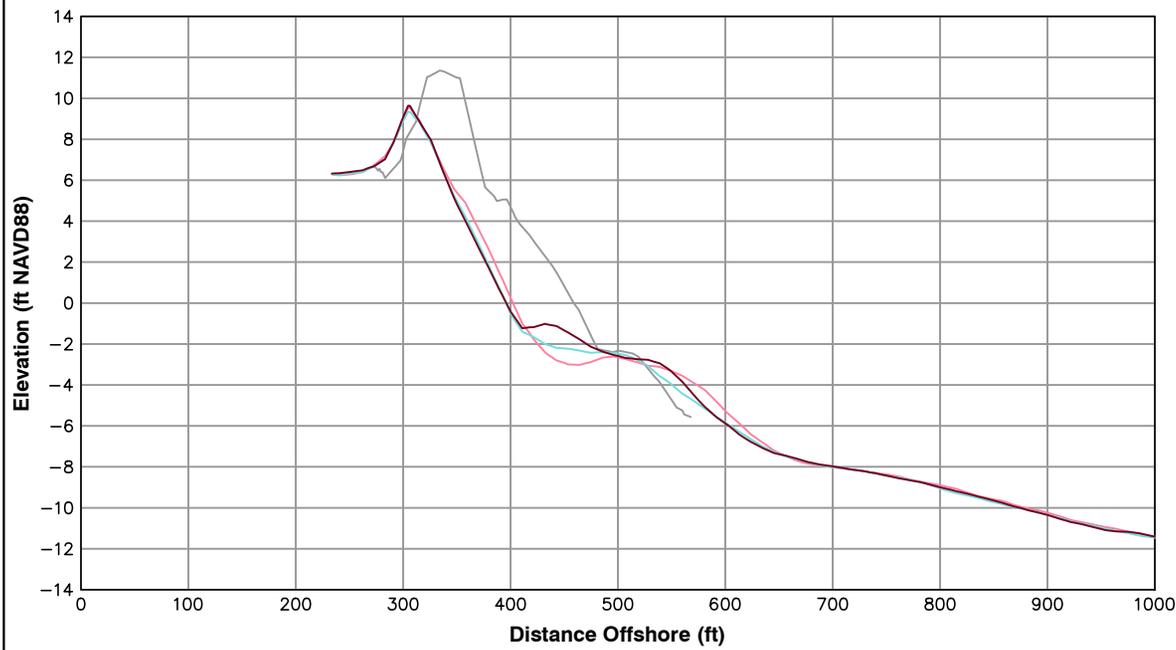
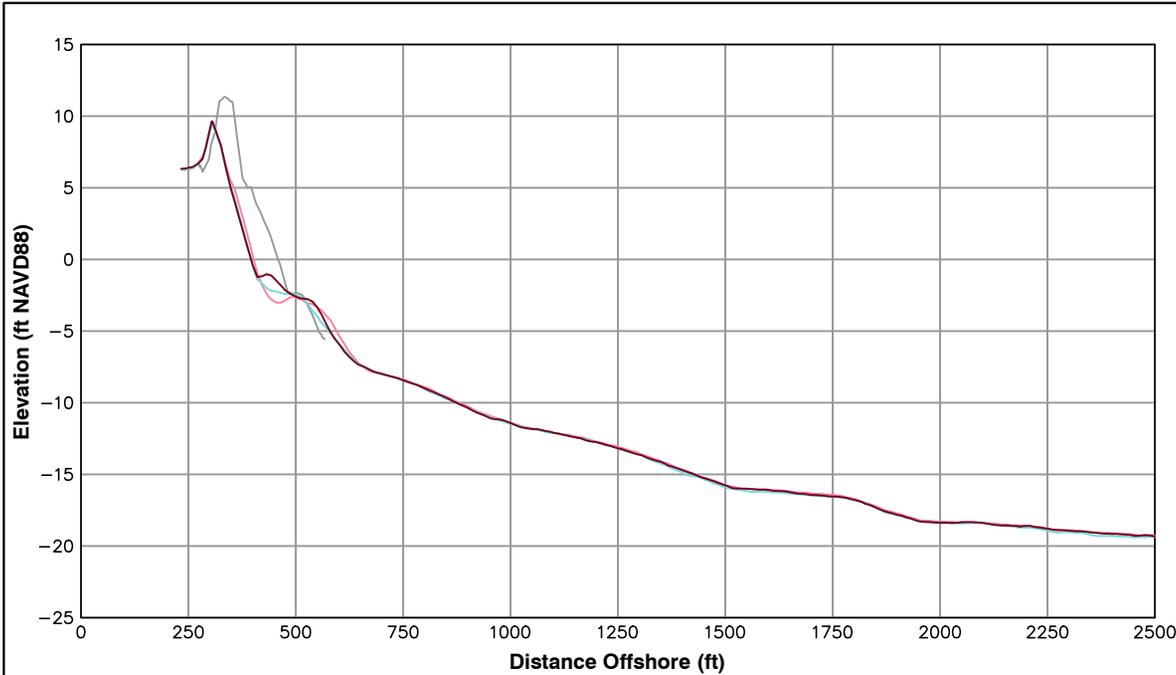
Survey Transect 57+57	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-39.43 ft/yr	1.19 ft
Volume Change Above -15 ft NAVD88	-6.52 cy/ft/yr	4.92 cy/ft
Volume Change Above 0 ft NAVD88	-3.78 cy/ft/yr	0.93 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
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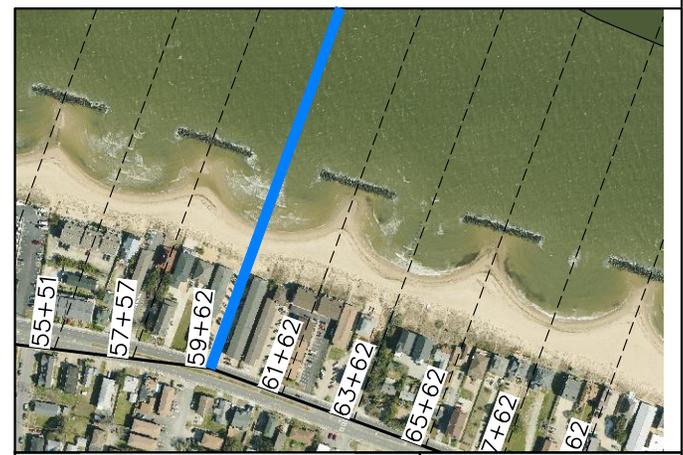


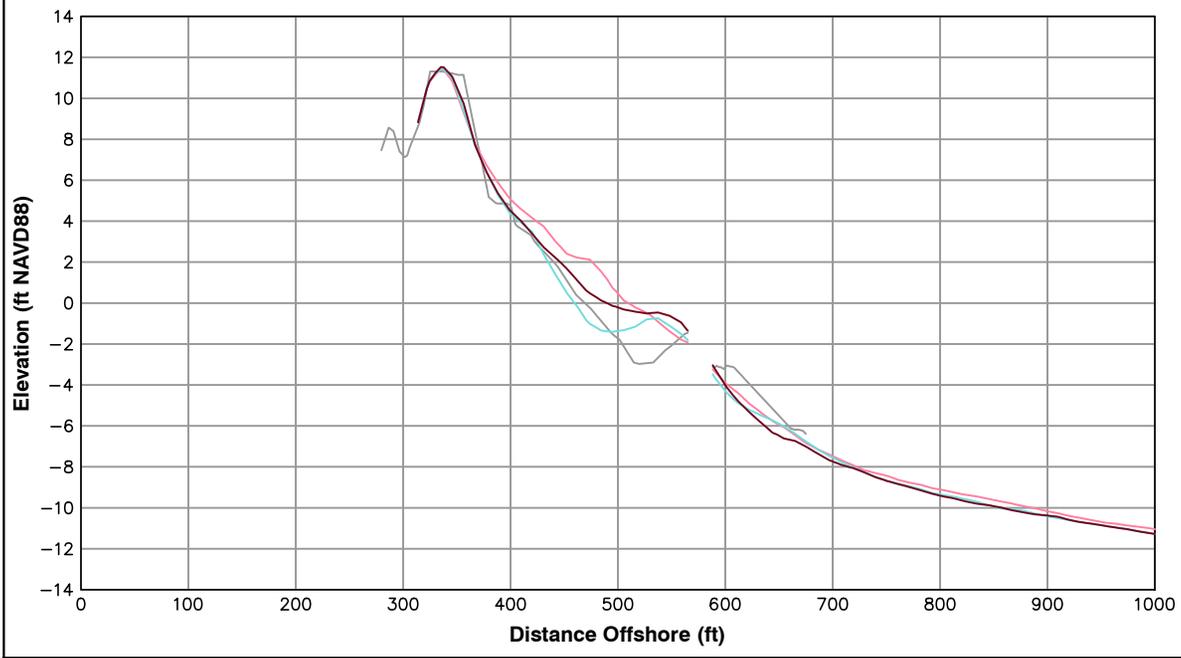
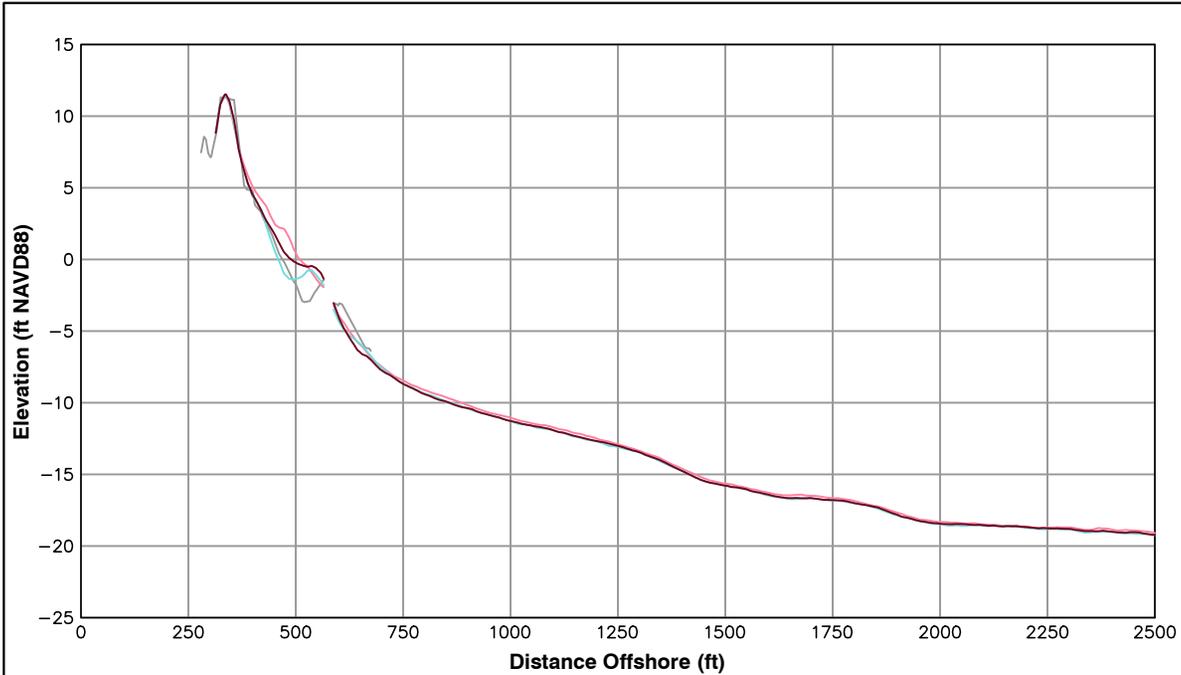
Survey Transect 59+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-7.66 ft/yr	-0.65 ft
Volume Change Above -15 ft NAVD88	-1.90 cy/ft/yr	3.31 cy/ft
Volume Change Above 0 ft NAVD88	-1.64 cy/ft/yr	0.06 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
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- POST-FILL ———

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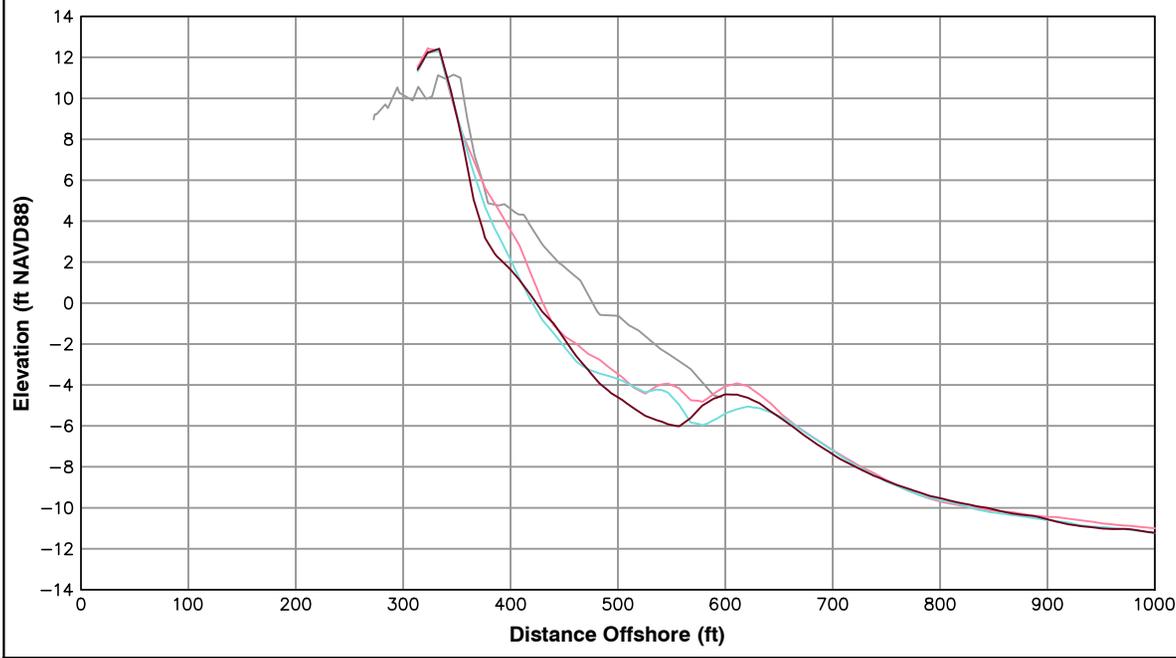
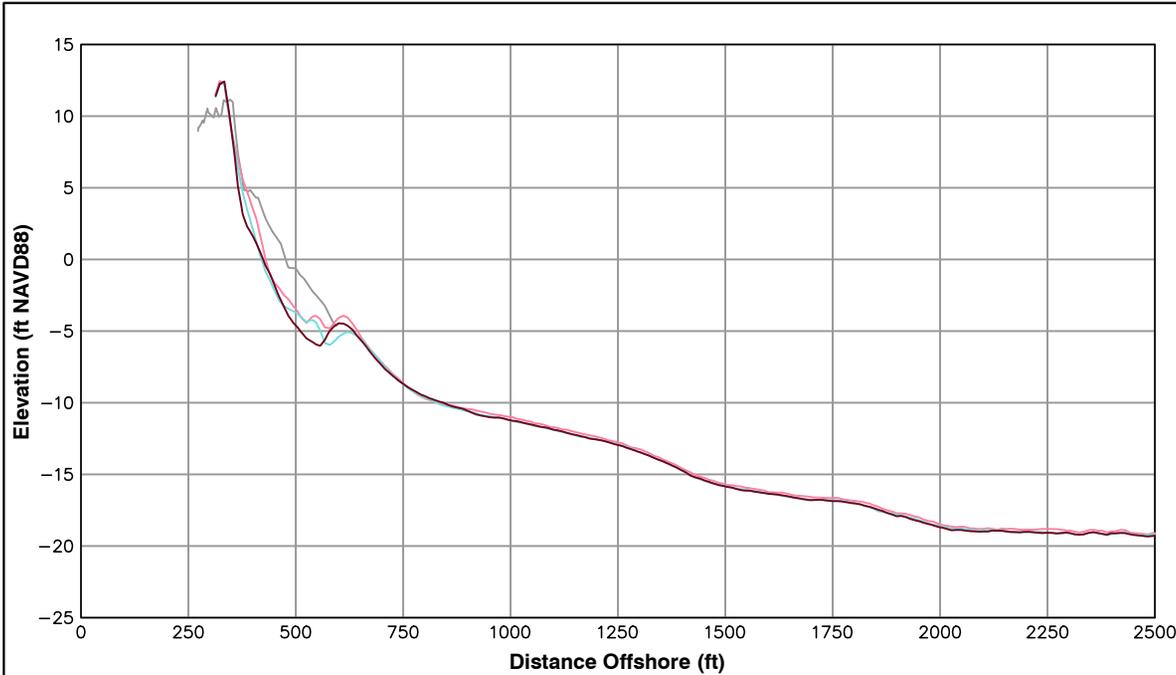
Survey Transect 61+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-28.97 ft/yr	17.40 ft
Volume Change Above -15 ft NAVD88	-10.15 cy/ft/yr	4.30 cy/ft
Volume Change Above 0 ft NAVD88	-3.97 cy/ft/yr	1.86 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
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- POST-FILL ———

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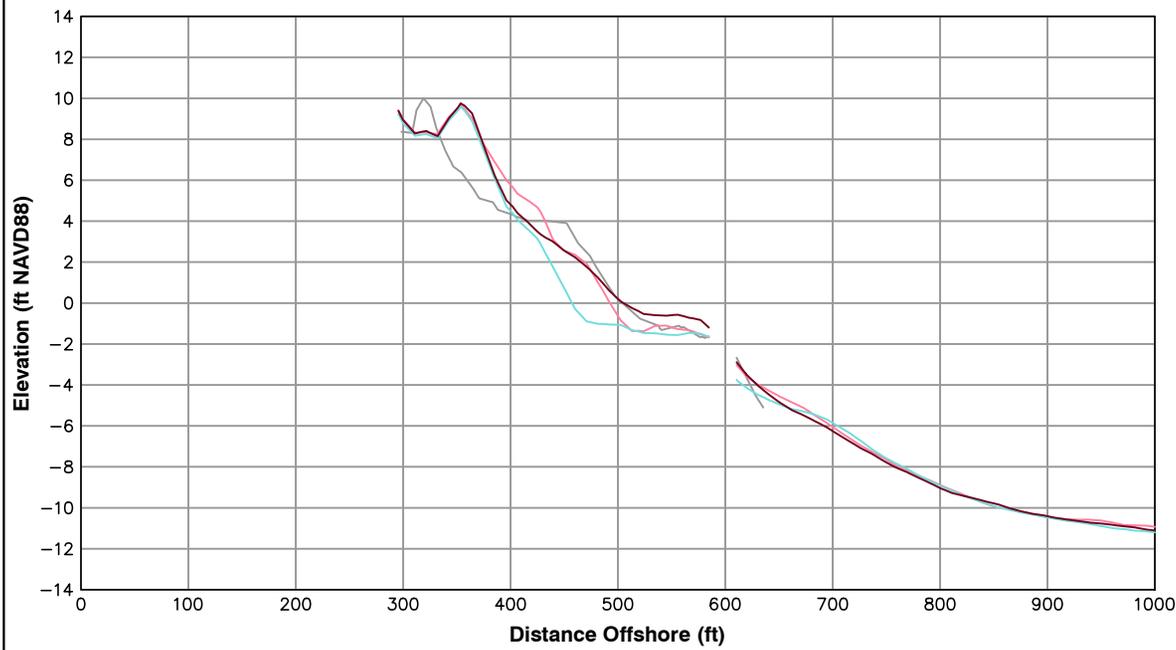
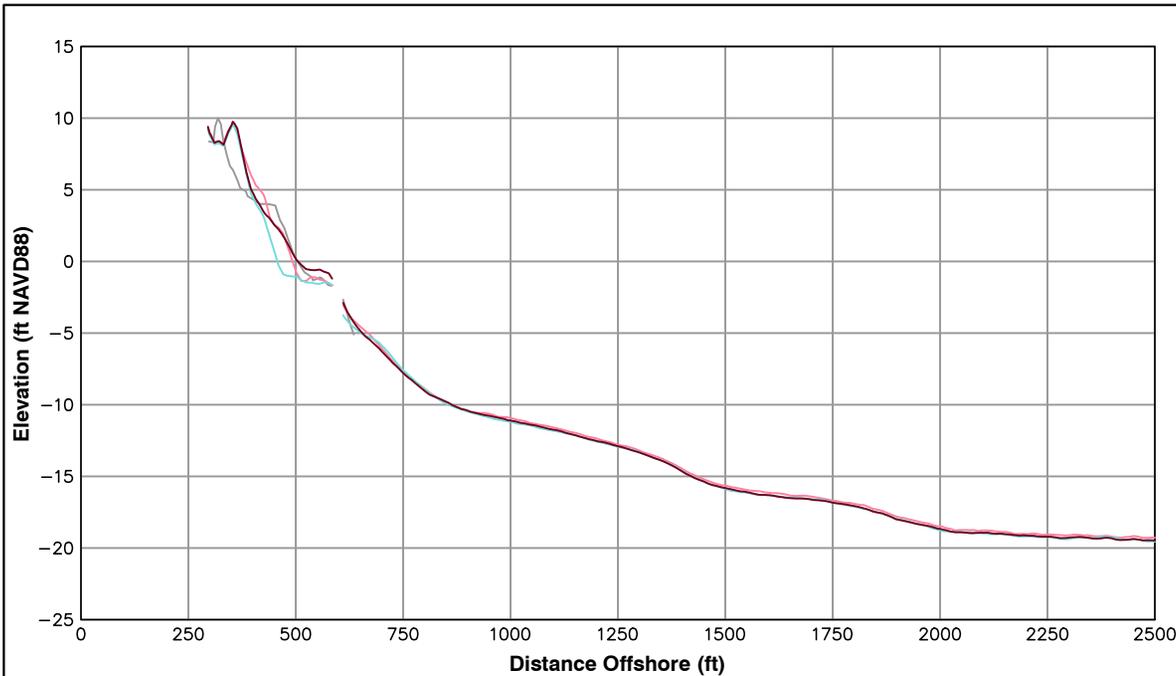
Survey Transect 63+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-12.47 ft/yr	-0.04 ft
Volume Change Above -15 ft NAVD88	-15.64 cy/ft/yr	-2.63 cy/ft
Volume Change Above 0 ft NAVD88	-4.84 cy/ft/yr	-1.73 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
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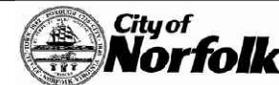
Survey Transect 65+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	4.35 ft/yr	38.38 ft
Volume Change Above -15 ft NAVD88	-3.19 cy/ft/yr	9.33 cy/ft
Volume Change Above 0 ft NAVD88	-1.75 cy/ft/yr	4.72 cy/ft

**LEGEND:**

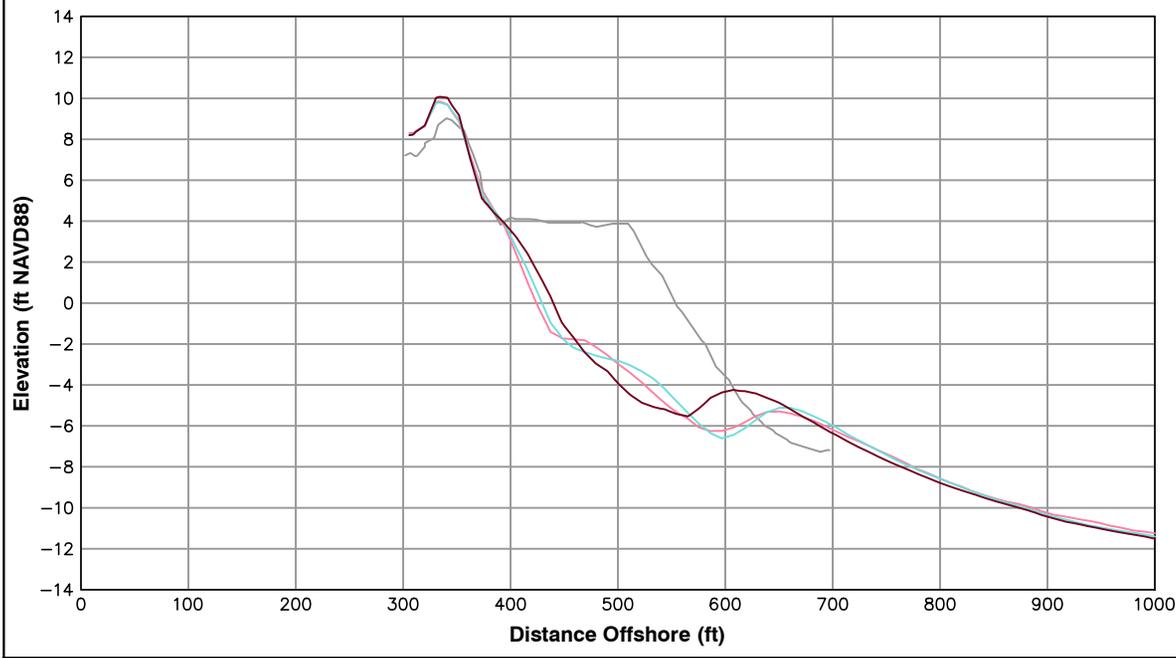
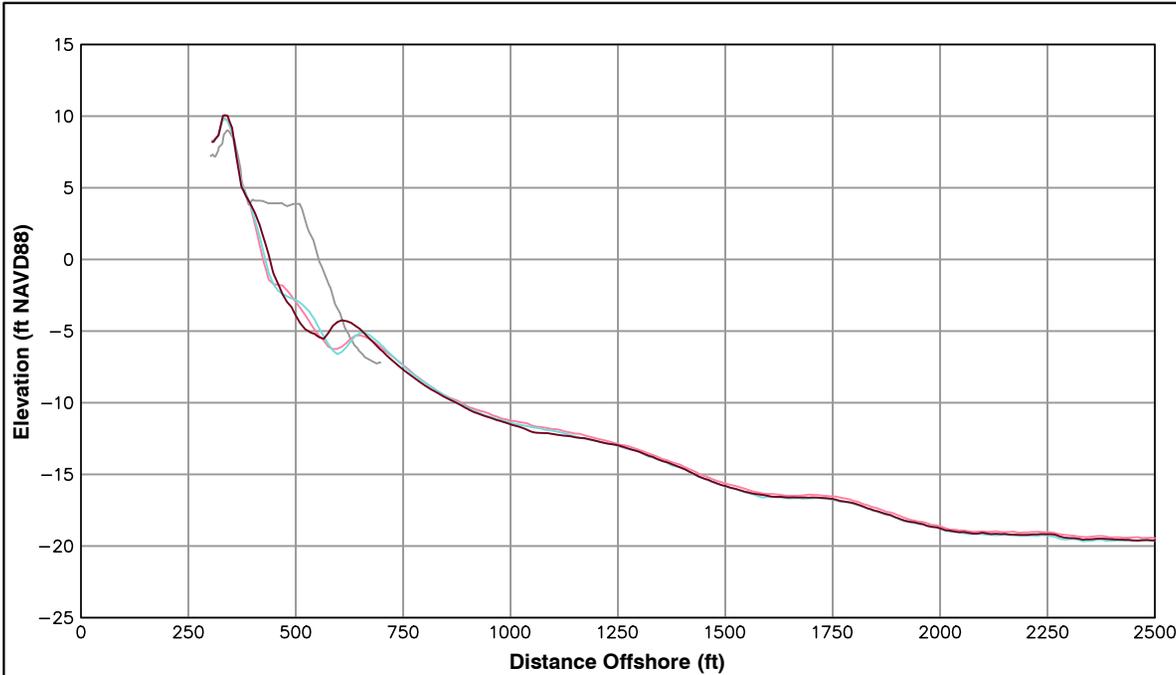
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2013 OCT	<span style="color: cyan;">—</span>
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POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



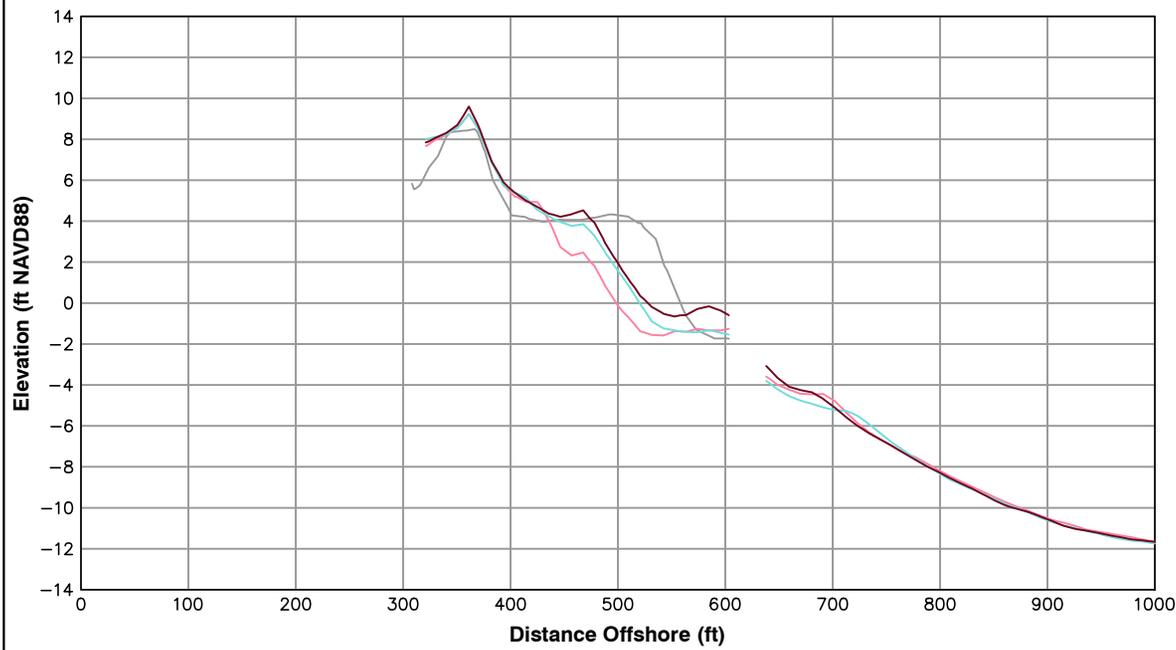
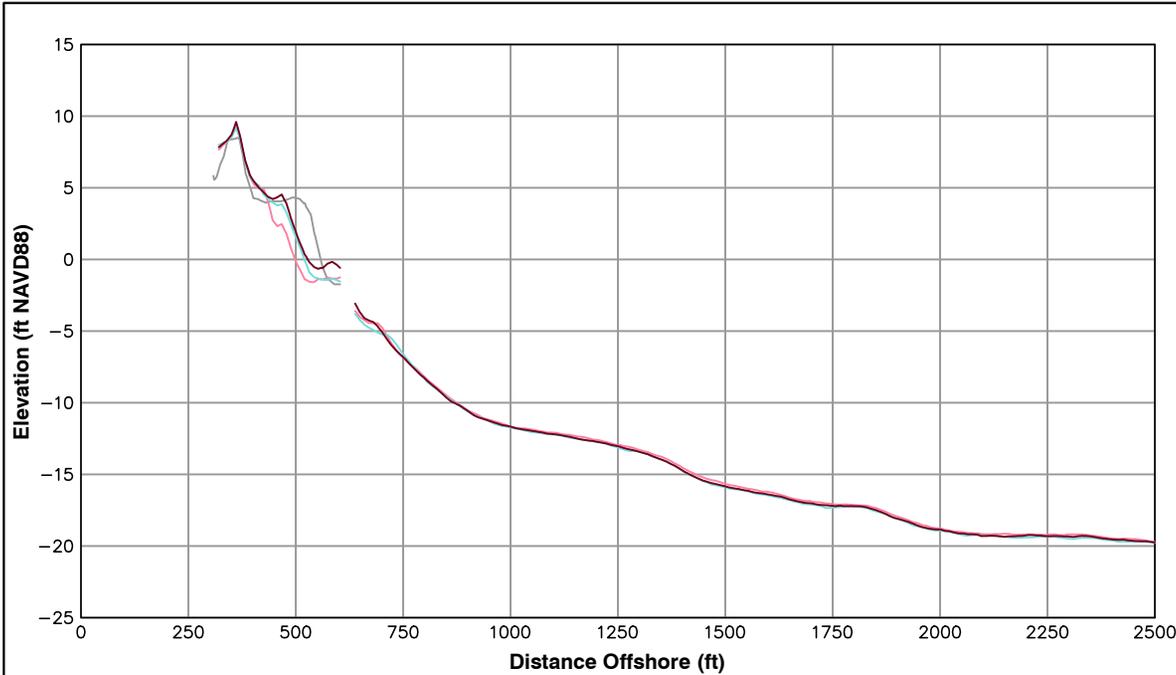
Survey Transect 67+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	15.09 ft/yr	9.39 ft
Volume Change Above -15 ft NAVD88	-2.13 cy/ft/yr	0.02 cy/ft
Volume Change Above 0 ft NAVD88	1.70 cy/ft/yr	1.23 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

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Survey Transect 69+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	26.51 ft/yr	4.21 ft
Volume Change Above -15 ft NAVD88	6.89 cy/ft/yr	5.52 cy/ft
Volume Change Above 0 ft NAVD88	5.93 cy/ft/yr	1.79 cy/ft

**LEGEND:**

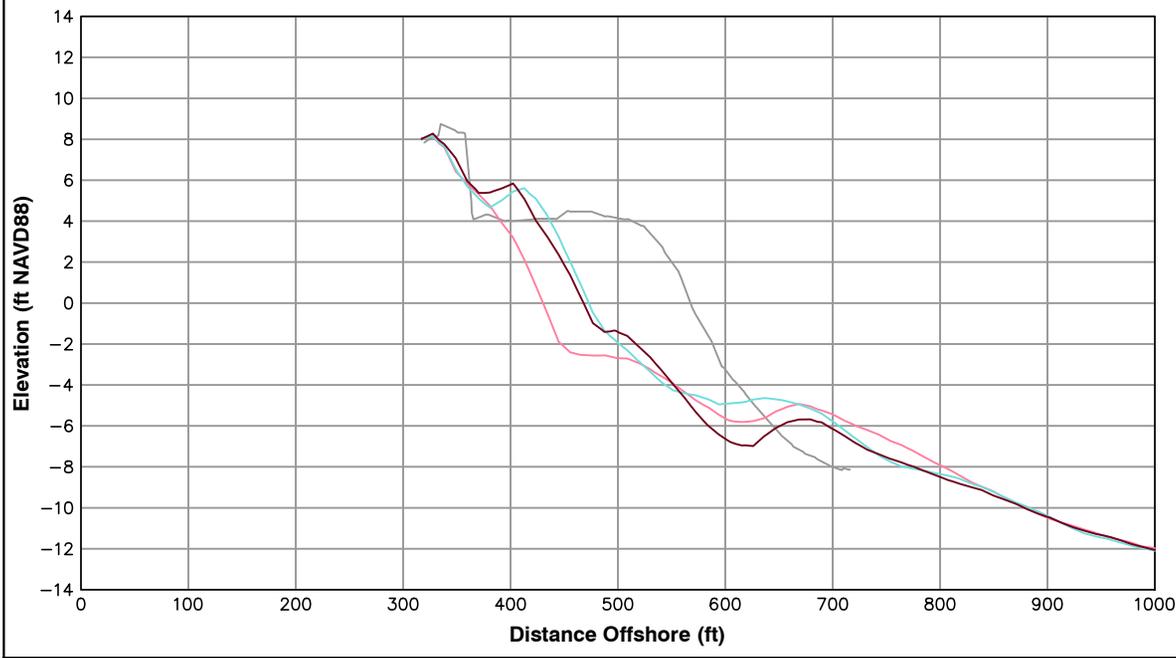
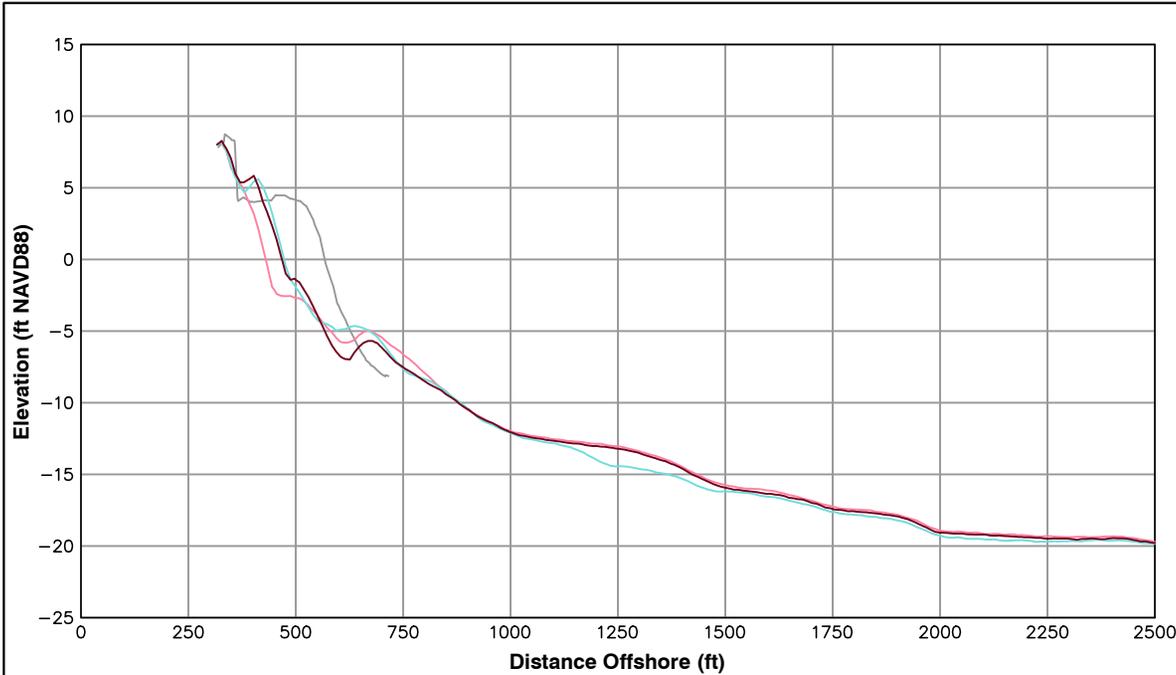
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



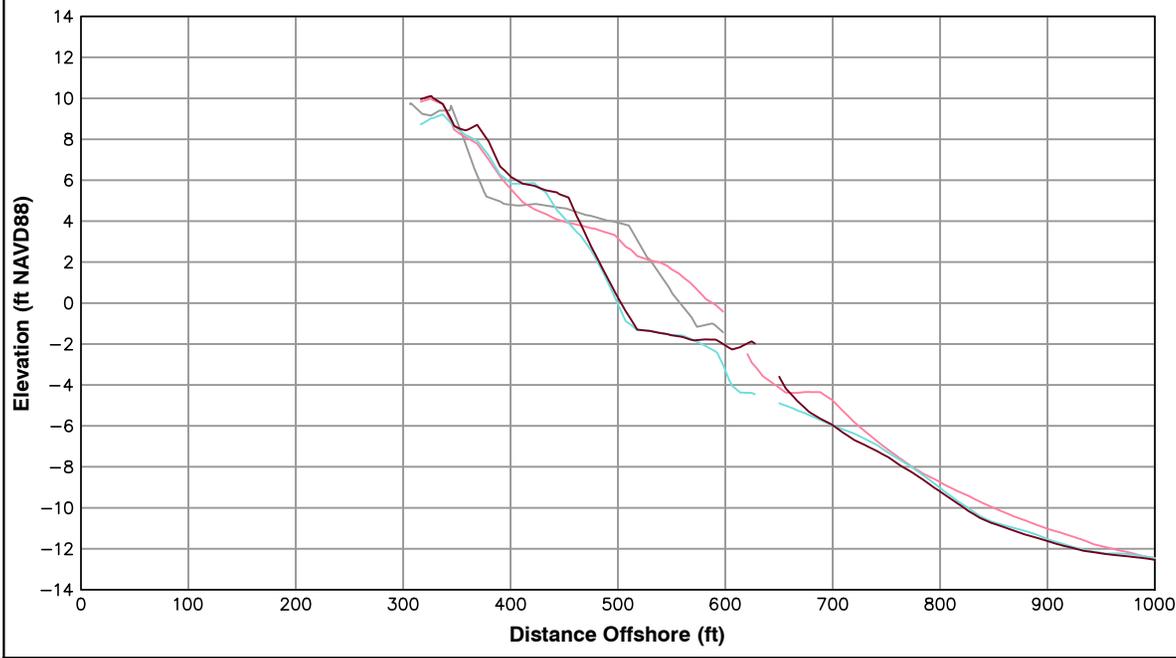
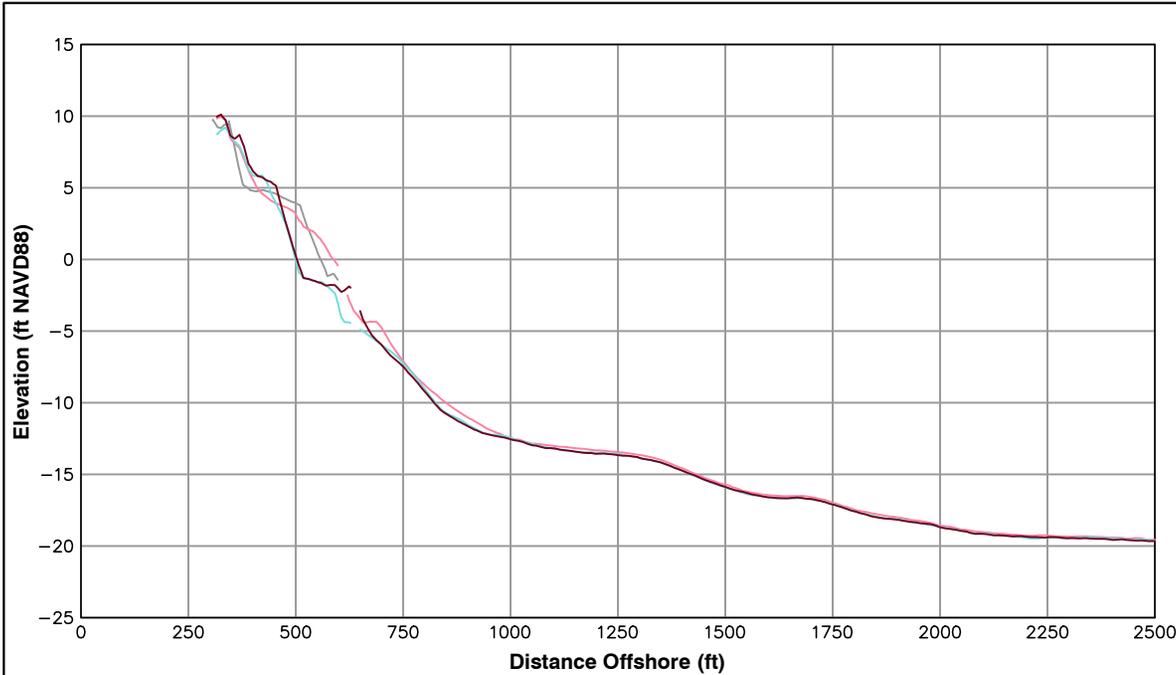
Survey Transect 71+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	37.98 ft/yr	-5.67 ft
Volume Change Above -15 ft NAVD88	3.09 cy/ft/yr	3.49 cy/ft
Volume Change Above 0 ft NAVD88	7.97 cy/ft/yr	-0.64 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

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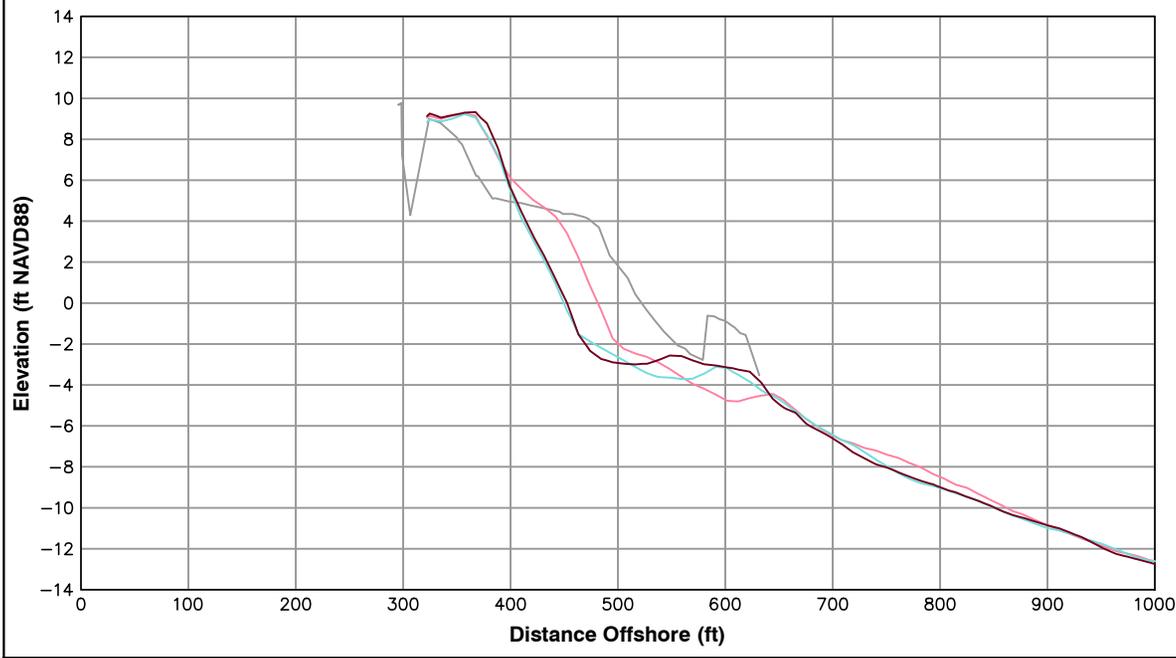
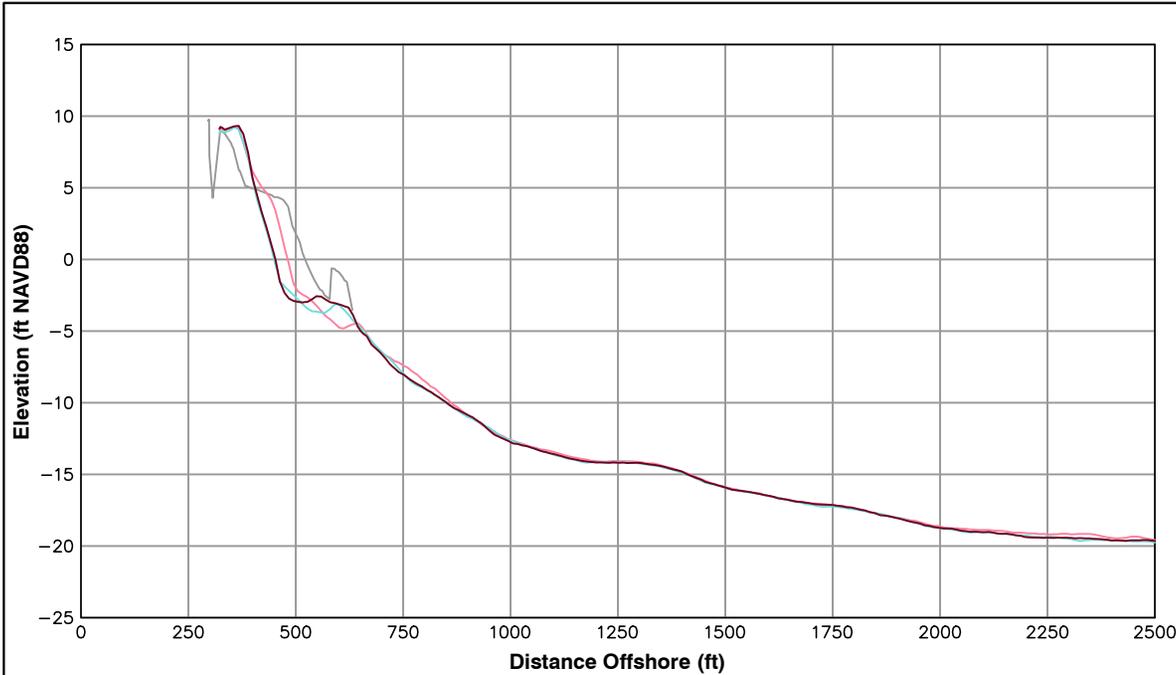
Survey Transect 73+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-77.49 ft/yr	1.87 ft
Volume Change Above -15 ft NAVD88	-19.29 cy/ft/yr	4.57 cy/ft
Volume Change Above 0 ft NAVD88	-3.78 cy/ft/yr	3.06 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

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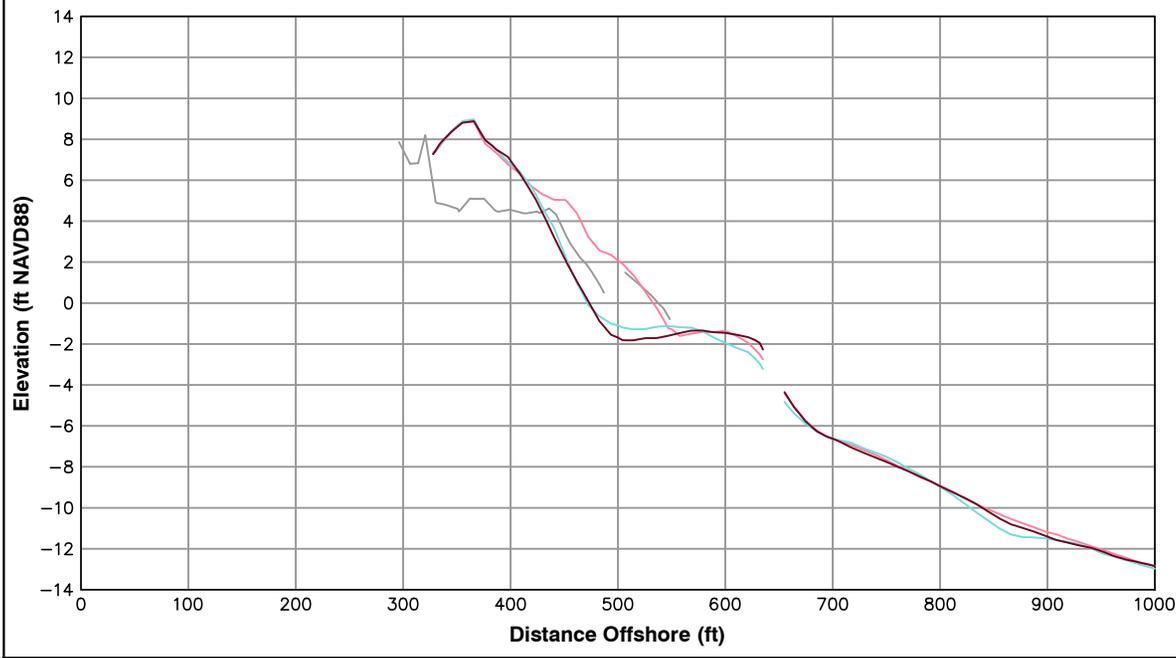
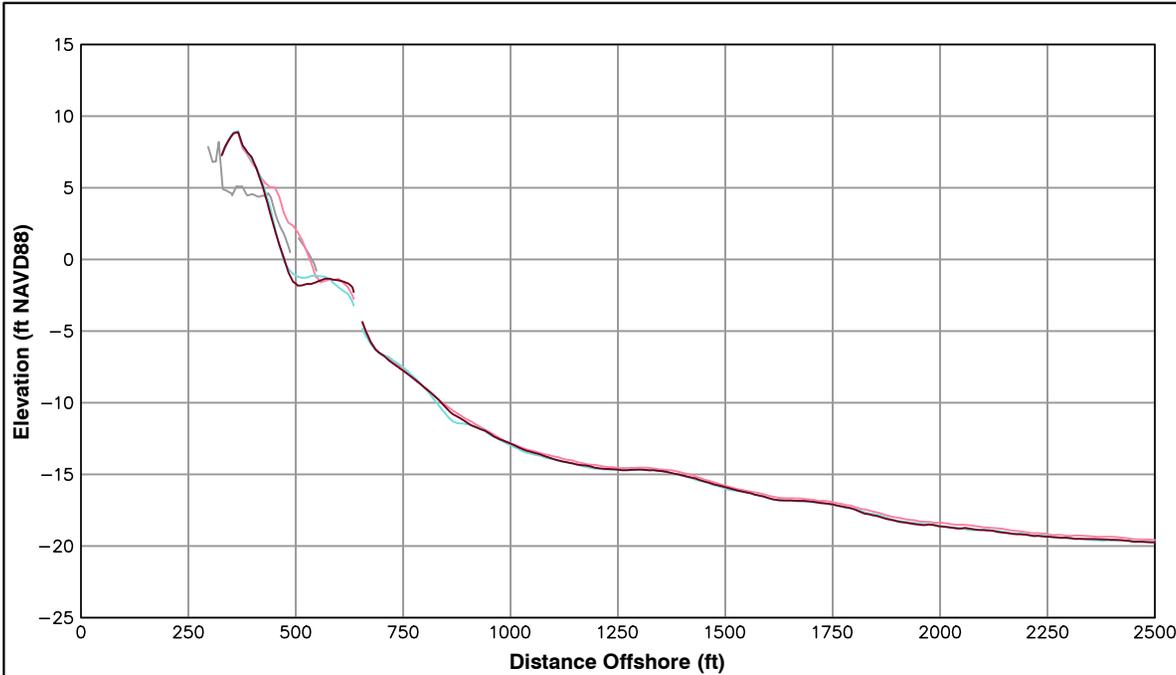
Survey Transect 75+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-30.35 ft/yr	2.07 ft
Volume Change Above -15 ft NAVD88	-10.22 cy/ft/yr	1.20 cy/ft
Volume Change Above 0 ft NAVD88	-5.56 cy/ft/yr	1.20 cy/ft

**LEGEND:**

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- 2013 OCT ———
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- POST-FILL ———

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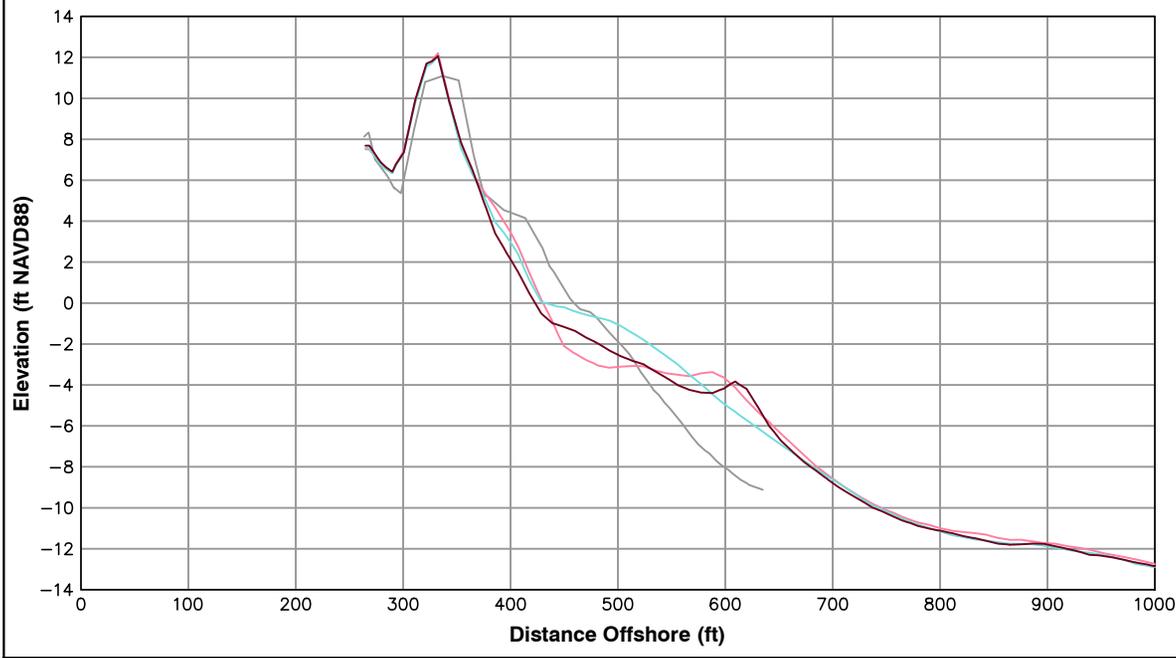
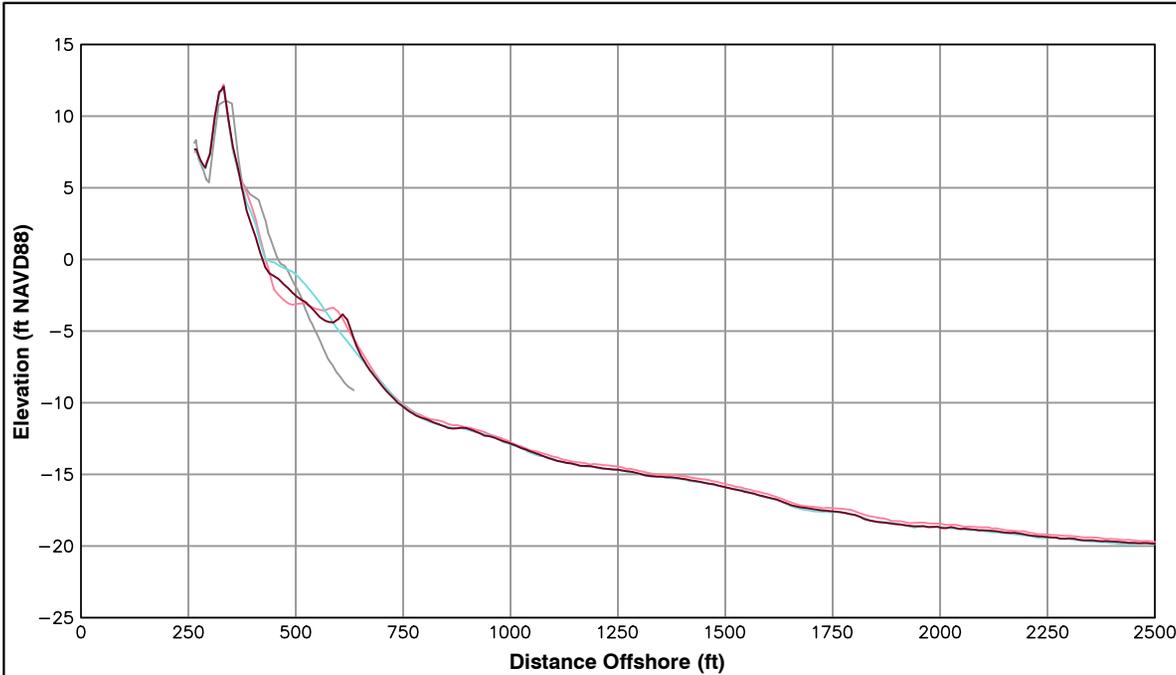
Survey Transect 77+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-59.23 ft/yr	0.97 ft
Volume Change Above -15 ft NAVD88	-15.17 cy/ft/yr	0.96 cy/ft
Volume Change Above 0 ft NAVD88	-8.27 cy/ft/yr	-0.36 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





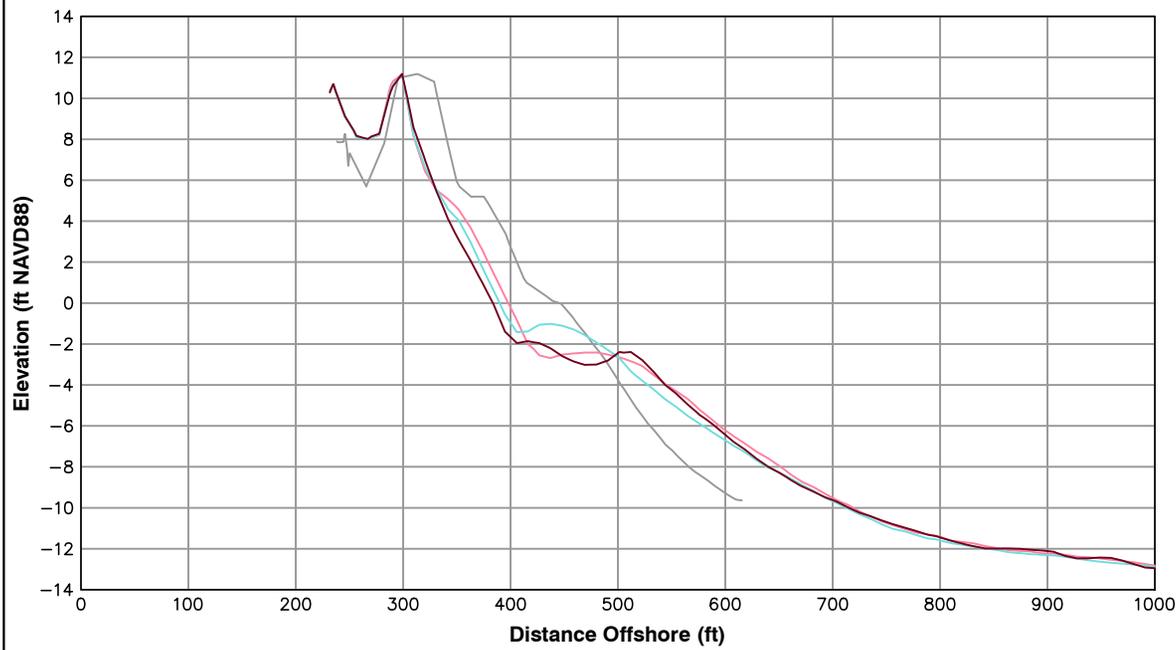
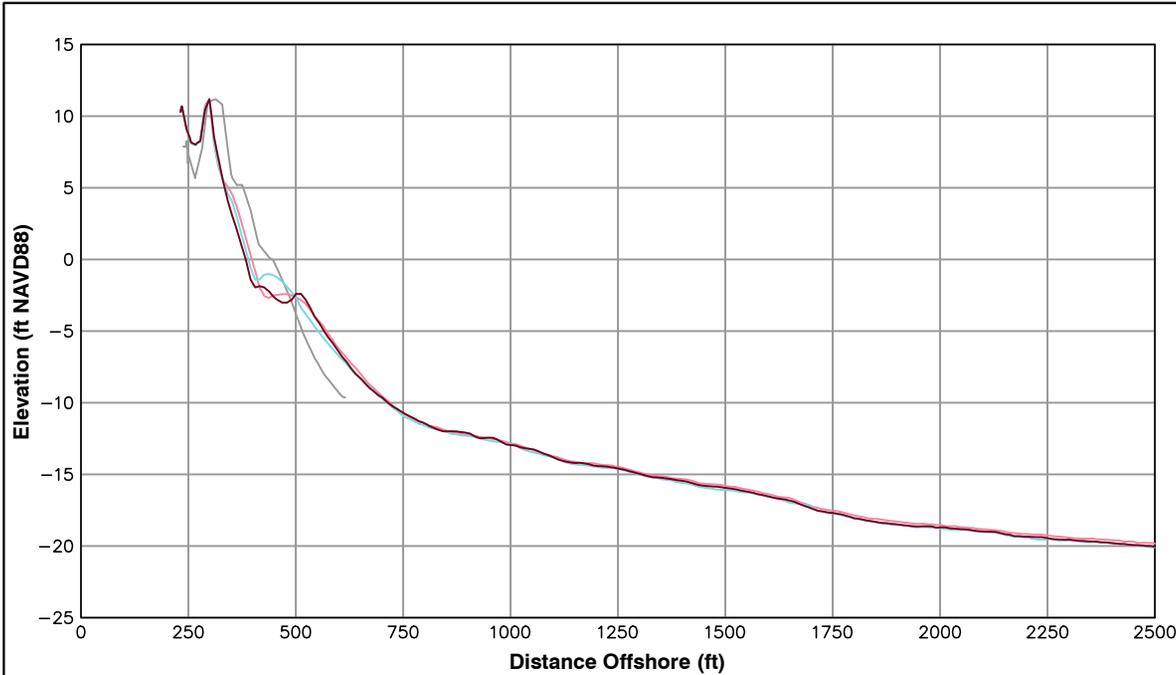
Survey Transect 79+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-9.60 ft/yr	-6.53 ft
Volume Change Above -15 ft NAVD88	-5.92 cy/ft/yr	-4.76 cy/ft
Volume Change Above 0 ft NAVD88	-2.10 cy/ft/yr	-0.83 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 81+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-15.46 ft/yr	-6.98 ft
Volume Change Above -15 ft NAVD88	-6.12 cy/ft/yr	-0.42 cy/ft
Volume Change Above 0 ft NAVD88	-2.70 cy/ft/yr	-1.13 cy/ft

**LEGEND:**

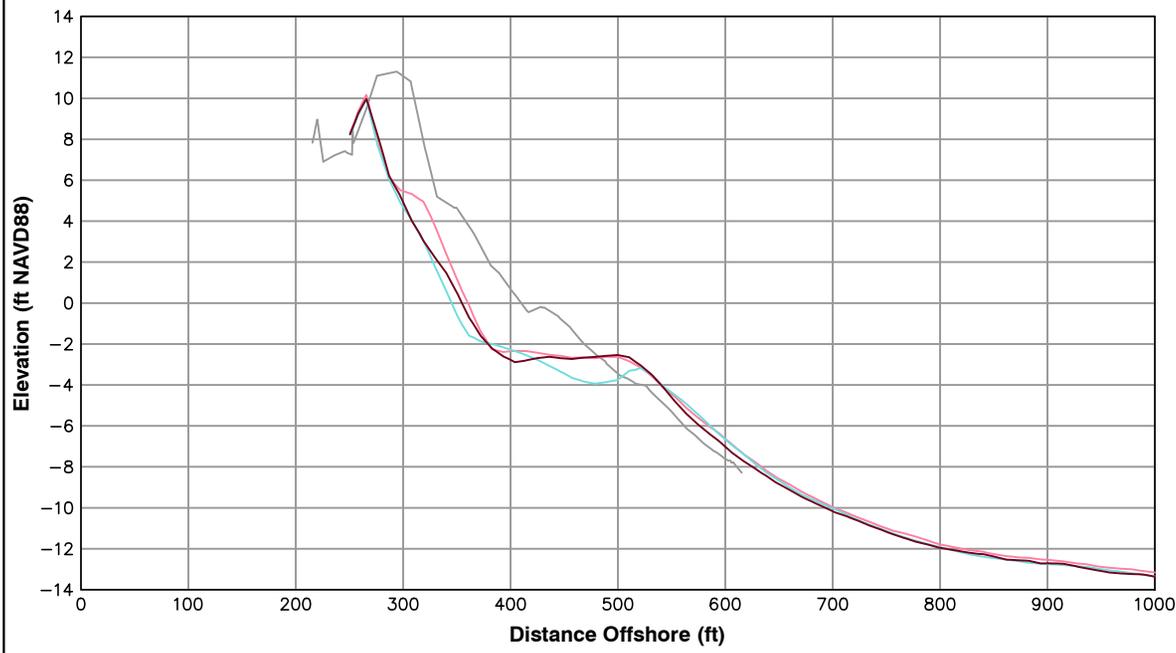
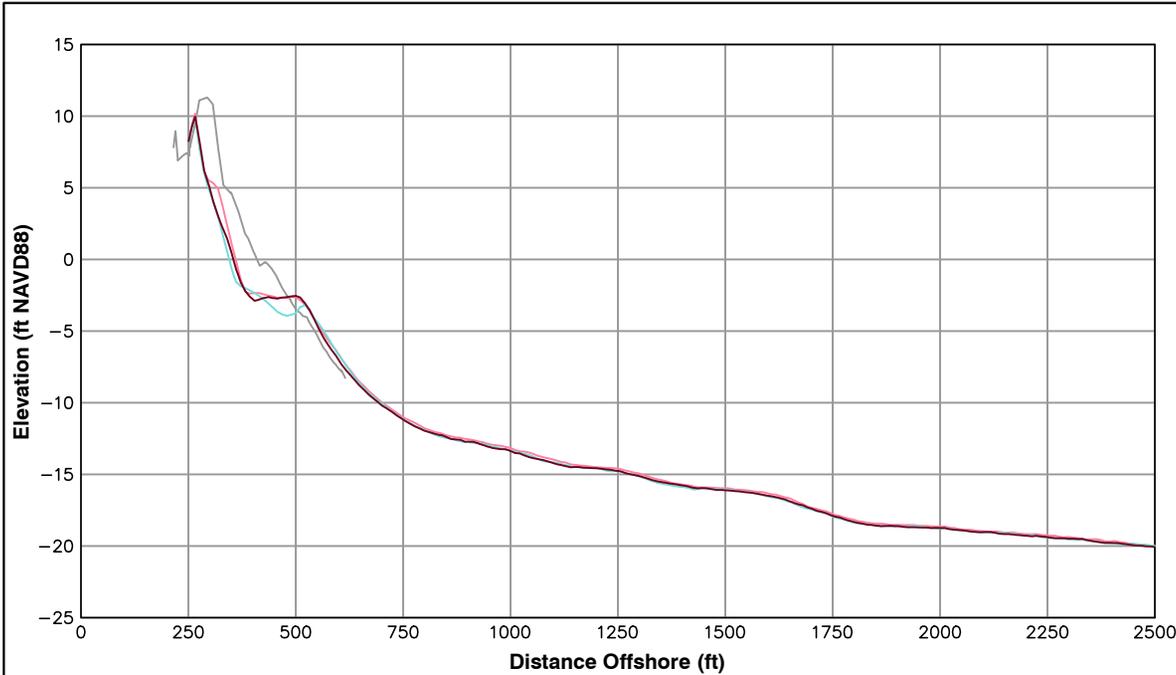
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
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**OCEAN VIEW PERIODIC  
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Survey Transect 83+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-6.75 ft/yr	8.47 ft
Volume Change Above -15 ft NAVD88	-9.21 cy/ft/yr	2.51 cy/ft
Volume Change Above 0 ft NAVD88	-2.65 cy/ft/yr	1.13 cy/ft

**LEGEND:**

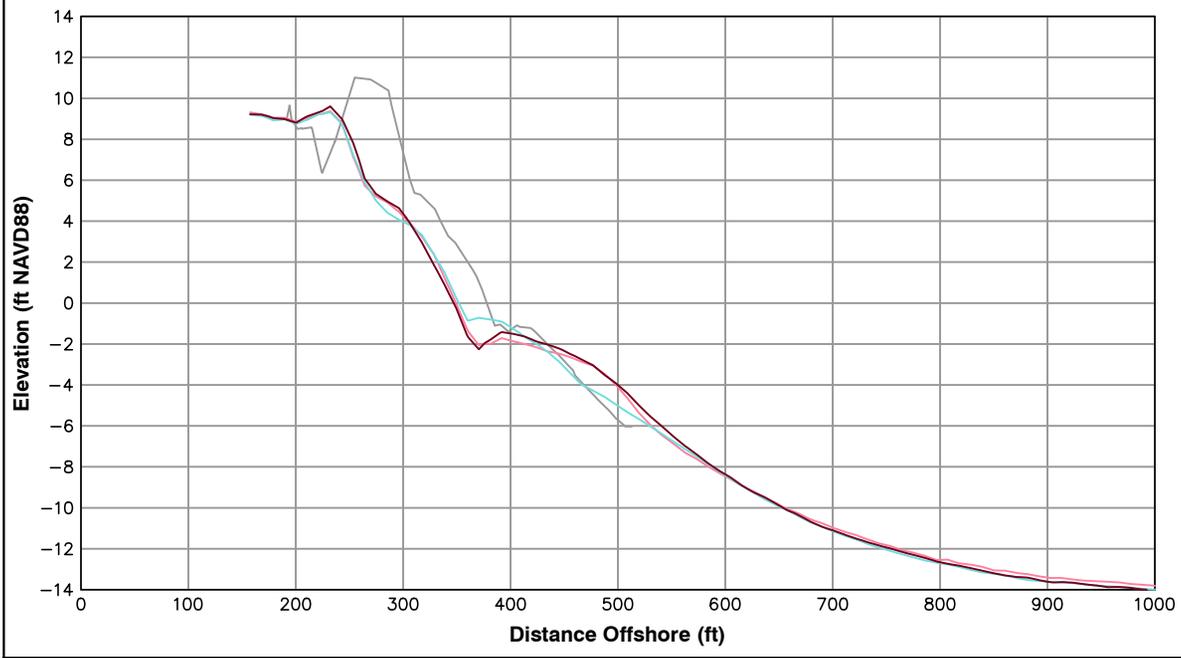
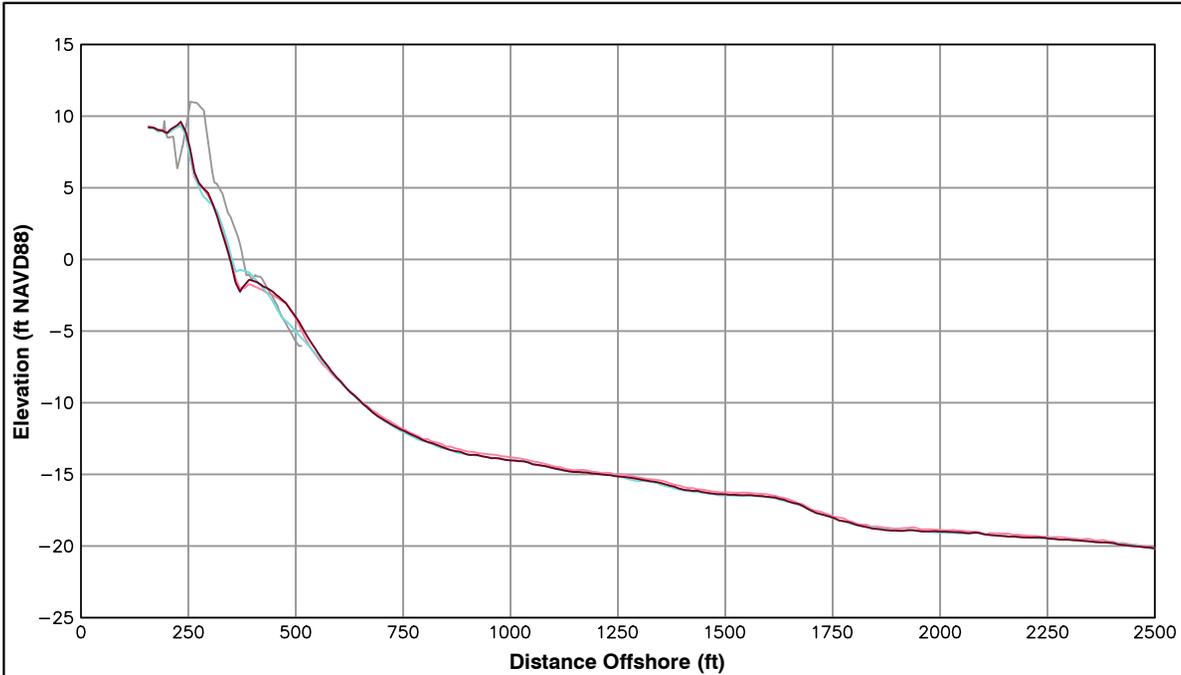
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



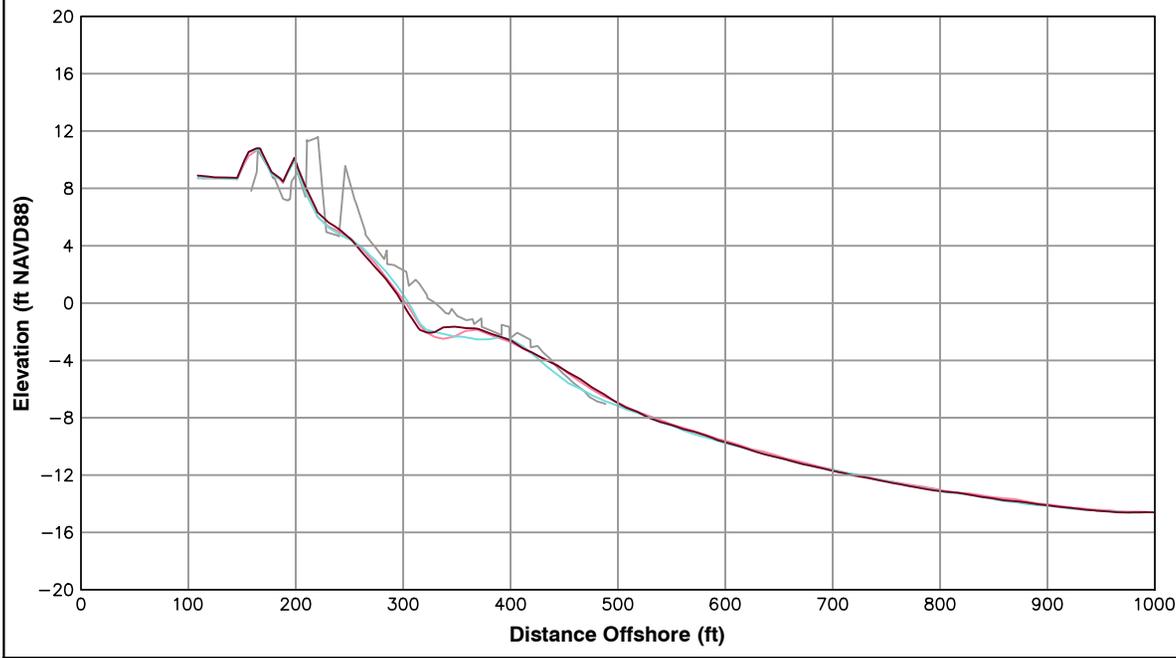
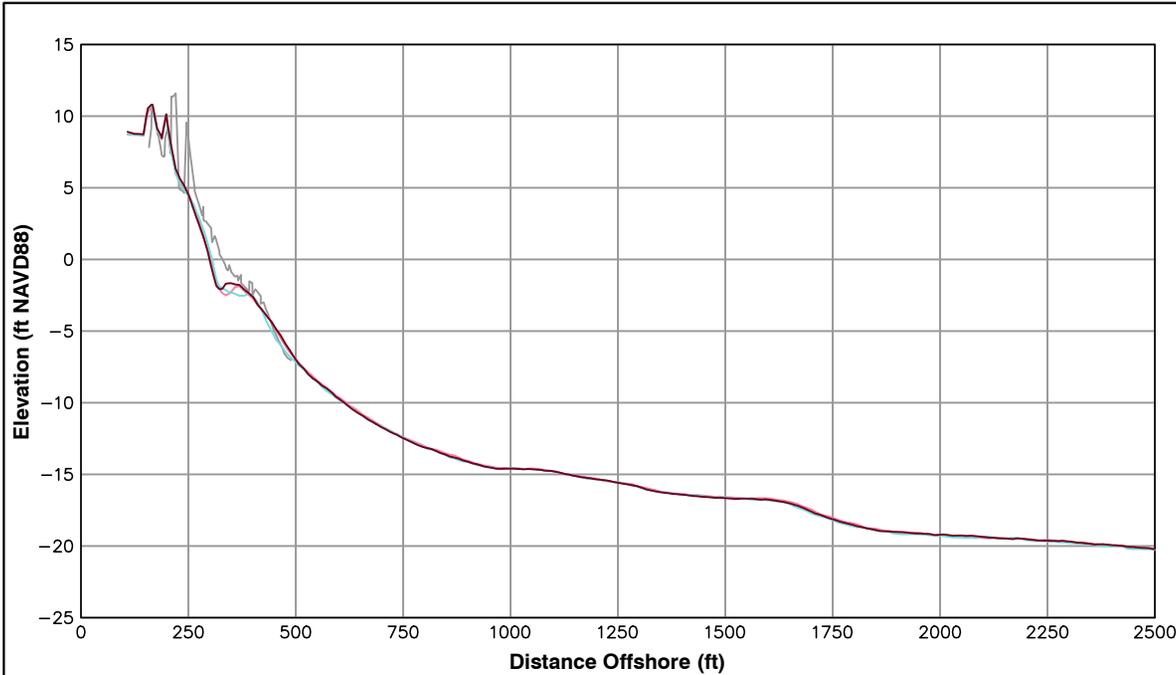
Survey Transect 85+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-3.12 ft/yr	-5.27 ft
Volume Change Above -15 ft NAVD88	-1.38 cy/ft/yr	3.44 cy/ft
Volume Change Above 0 ft NAVD88	0.26 cy/ft/yr	0.66 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
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  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





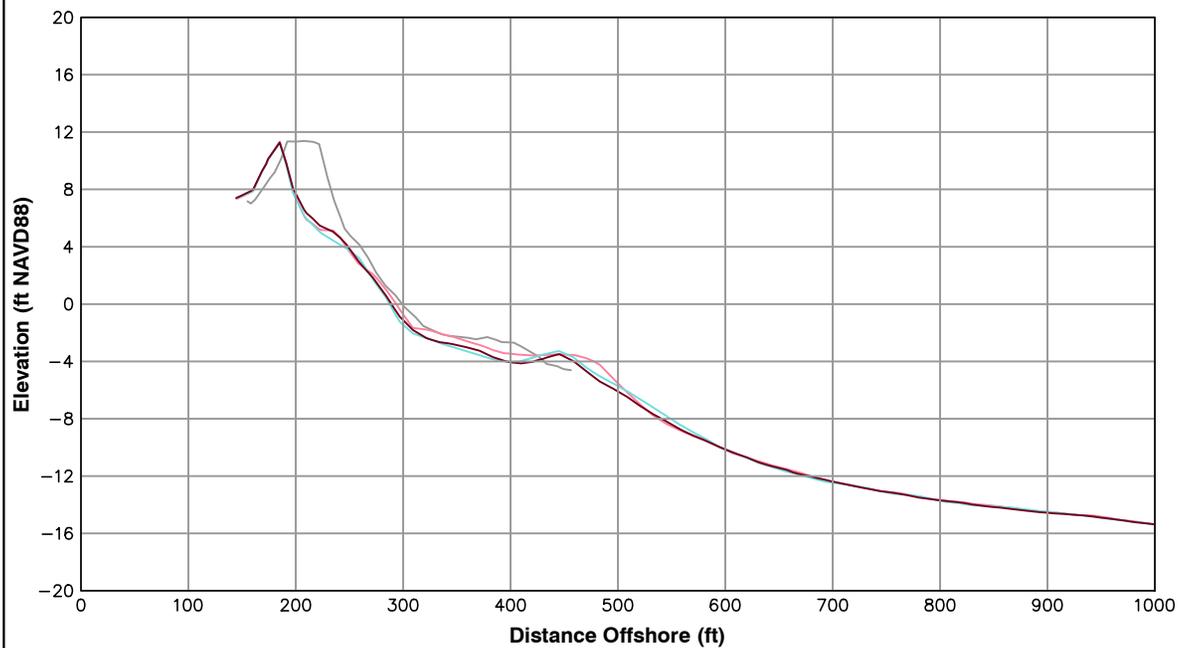
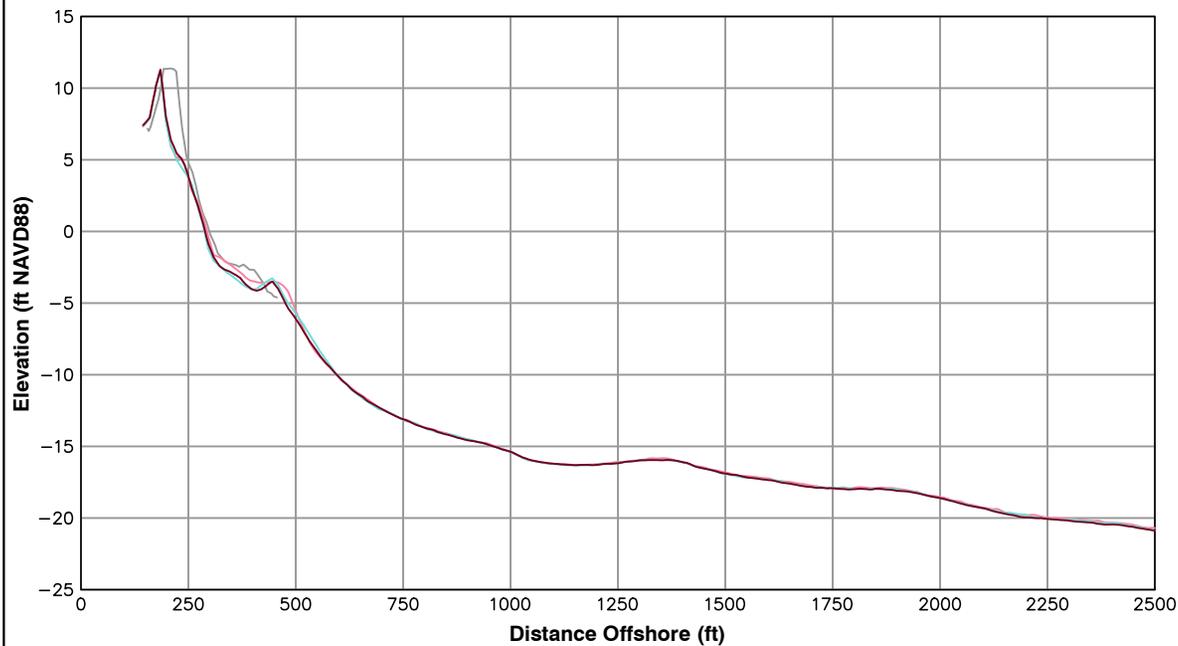
Survey Transect 87+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-1.69 ft/yr	-5.62 ft
Volume Change Above -15 ft NAVD88	-0.30 cy/ft/yr	2.59 cy/ft
Volume Change Above 0 ft NAVD88	0.49 cy/ft/yr	0.11 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
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  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 93+41	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-4.22 ft/yr	1.22 ft
Volume Change Above -15 ft NAVD88	-4.41 cy/ft/yr	-0.24 cy/ft
Volume Change Above 0 ft NAVD88	0.22 cy/ft/yr	0.99 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
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3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.

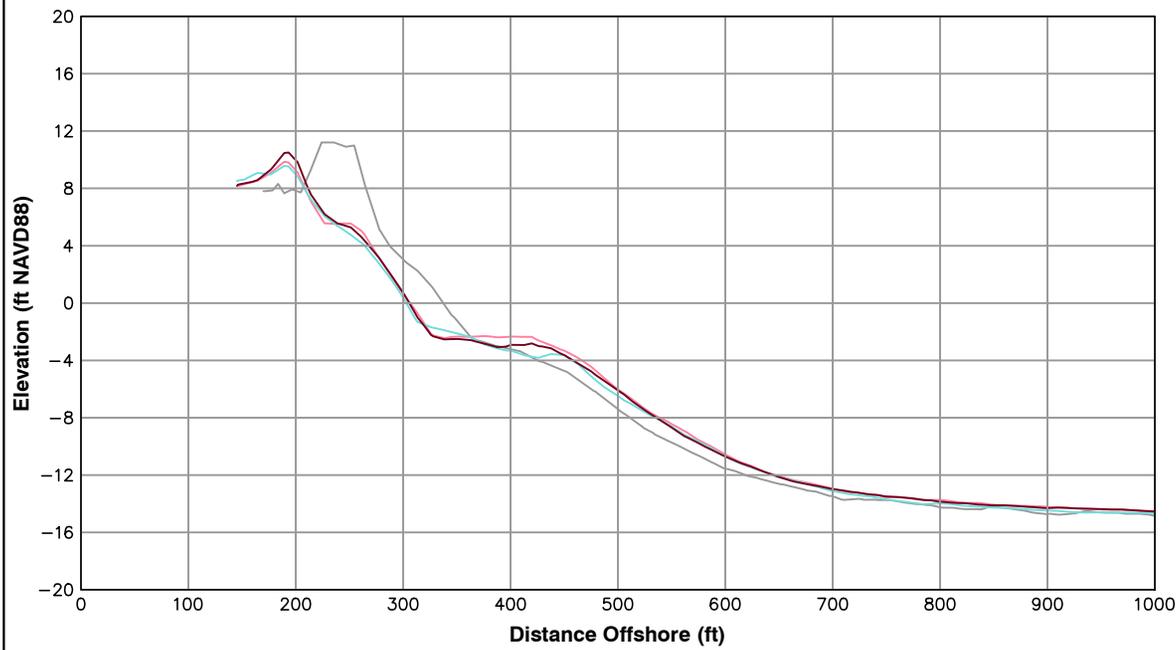
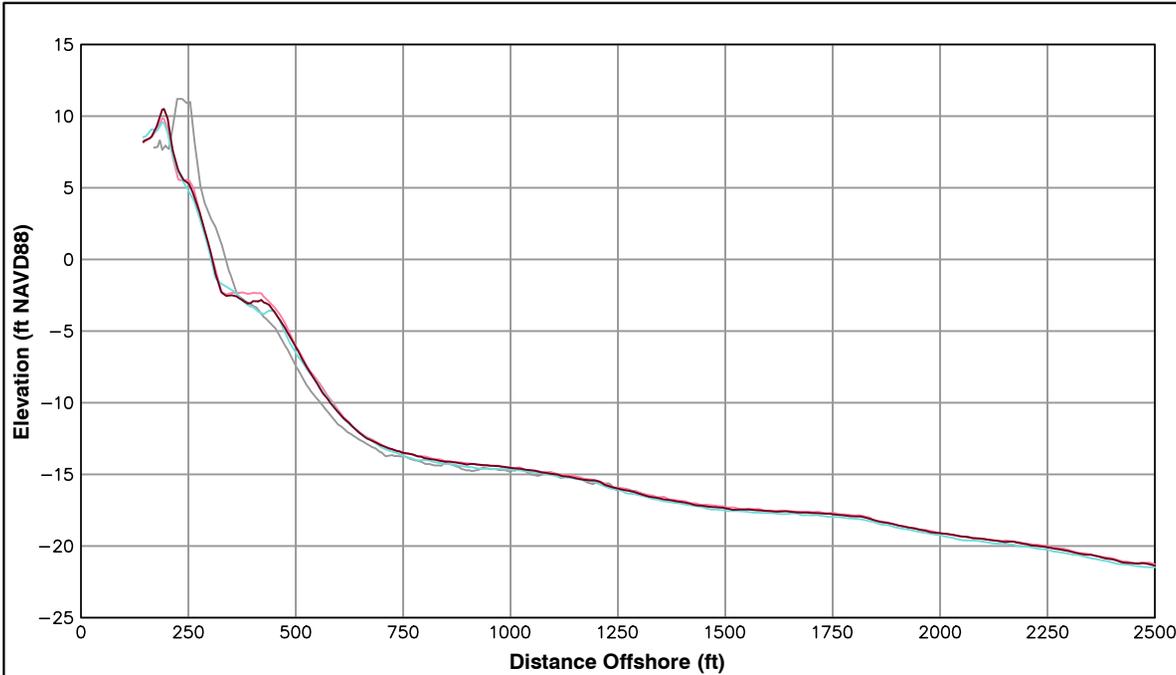


OCEAN VIEW PERIODIC  
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ANALYSIS

ST 93+41

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Spring 2014



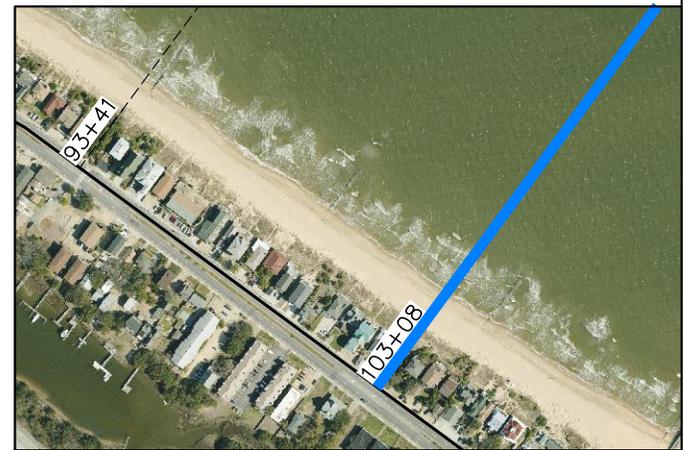
Survey Transect 103+08	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	0.72 ft/yr	2.75 ft
Volume Change Above -15 ft NAVD88	-2.67 cy/ft/yr	5.56 cy/ft
Volume Change Above 0 ft NAVD88	1.03 cy/ft/yr	1.81 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
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4. Survey Comparison Made To April 2013 and October 2013.
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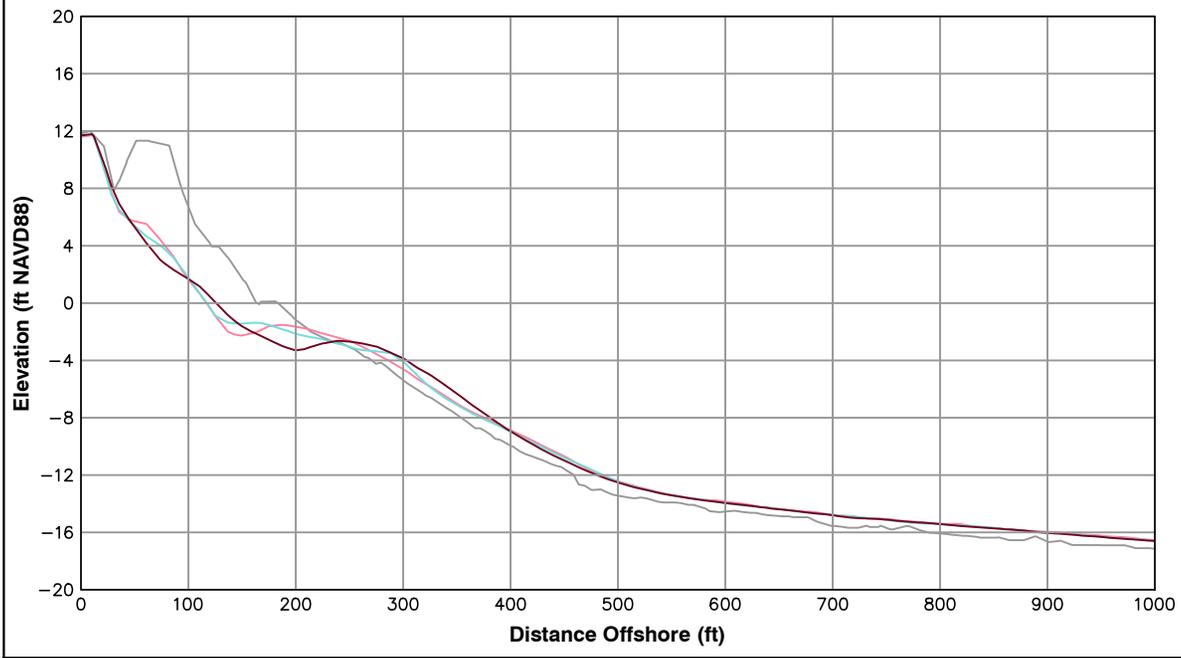
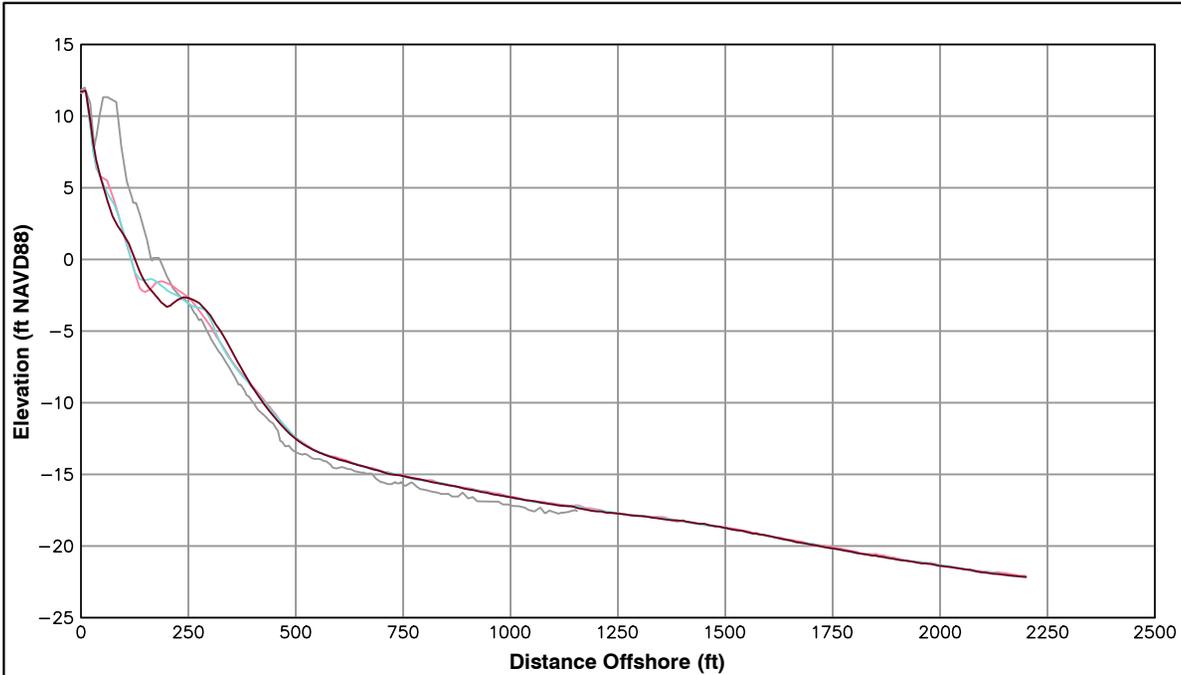
**City of  
Norfolk**

**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**

ST 103+08

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Spring 2014



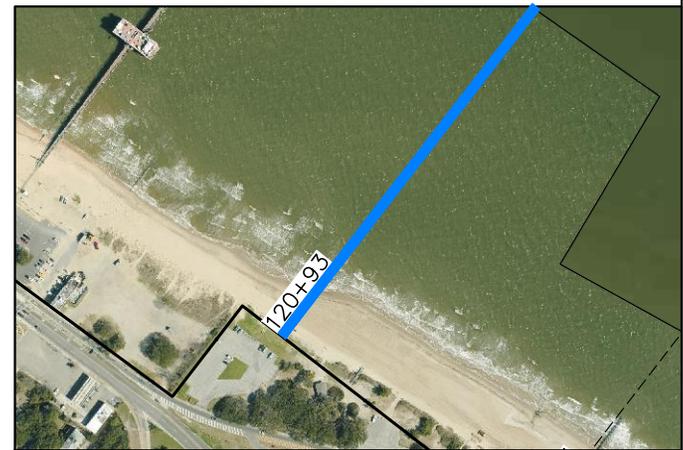
Survey Transect 120+93	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	6.19 ft/yr	5.38 ft
Volume Change Above -15 ft NAVD88	-1.30 cy/ft/yr	-0.27 cy/ft
Volume Change Above 0 ft NAVD88	-1.11 cy/ft/yr	-0.38 cy/ft

**LEGEND:**

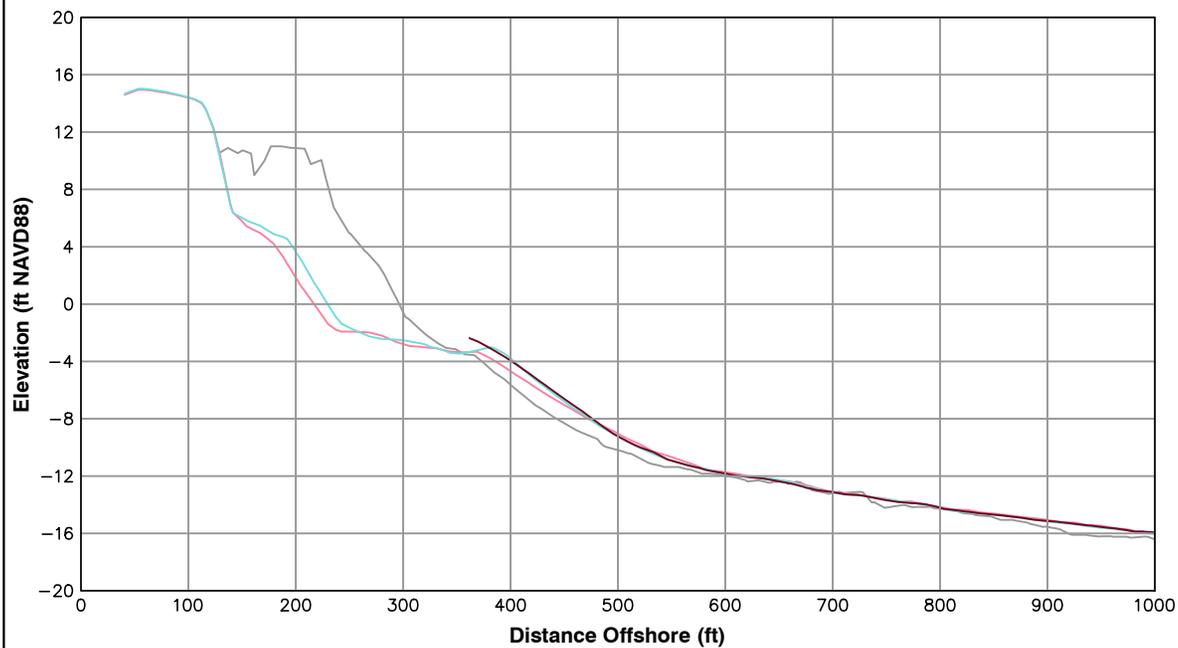
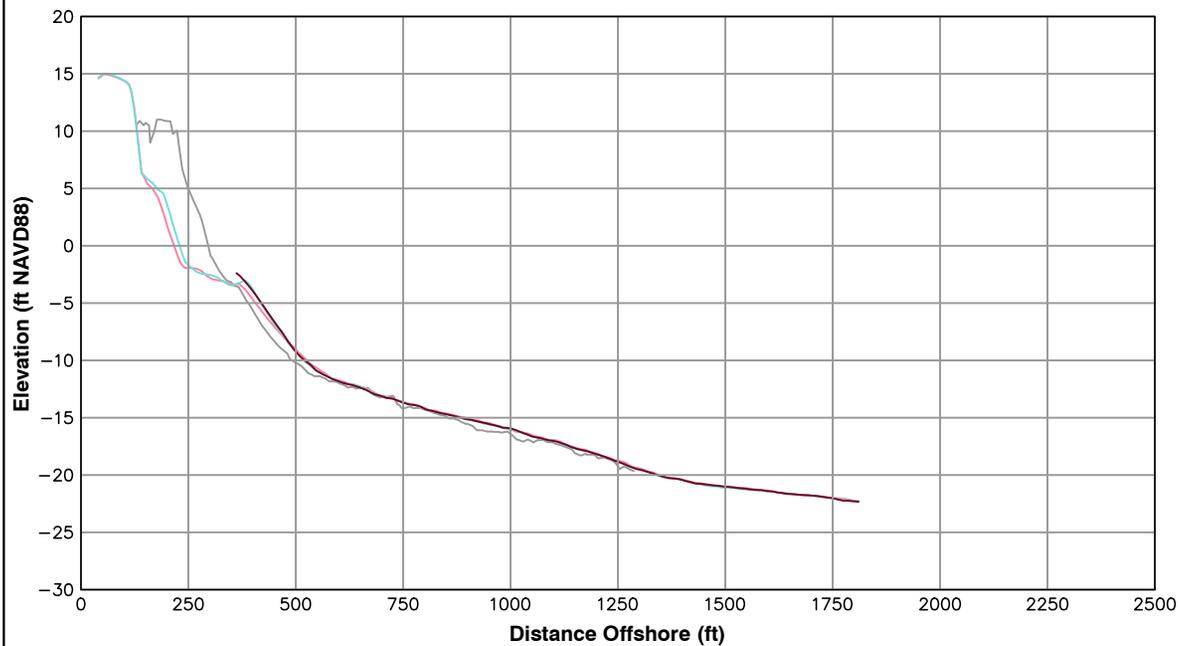
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
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ANALYSIS**



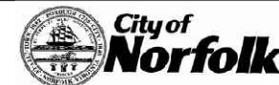
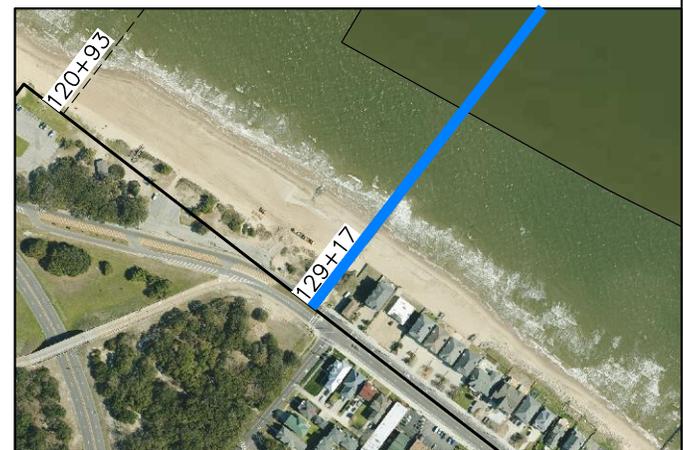
Survey Transect 129+17	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	- ft/yr	- ft
Volume Change Above -15 ft NAVD88	- cy/ft/yr	- cy/ft
Volume Change Above 0 ft NAVD88	- cy/ft/yr	- cy/ft

**LEGEND:**

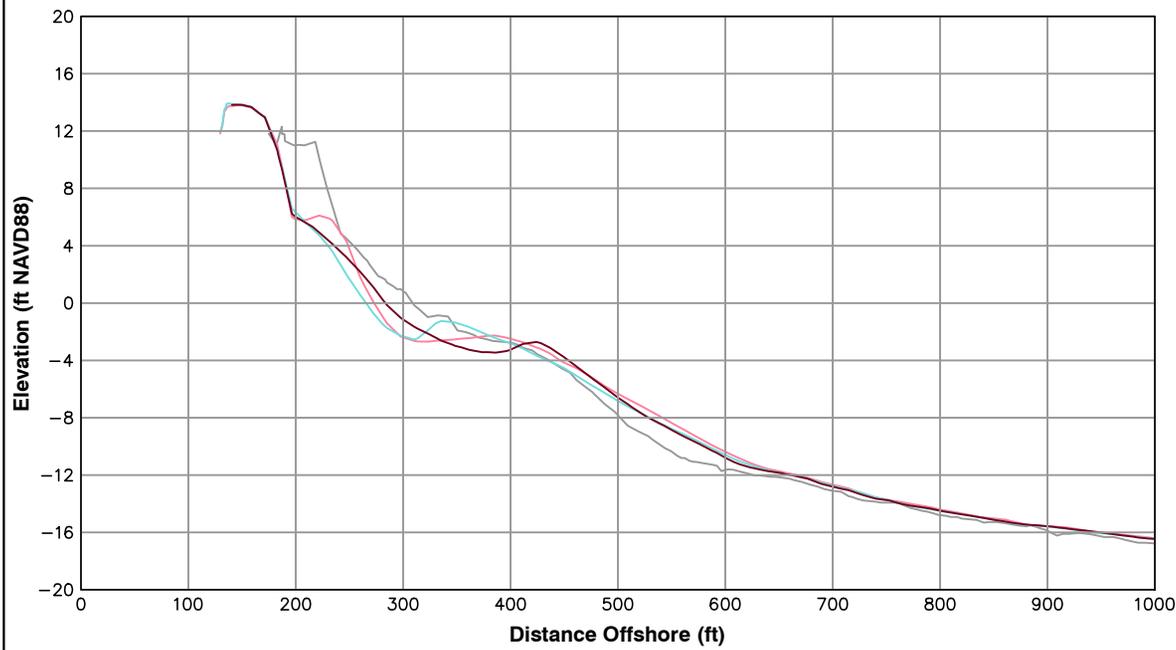
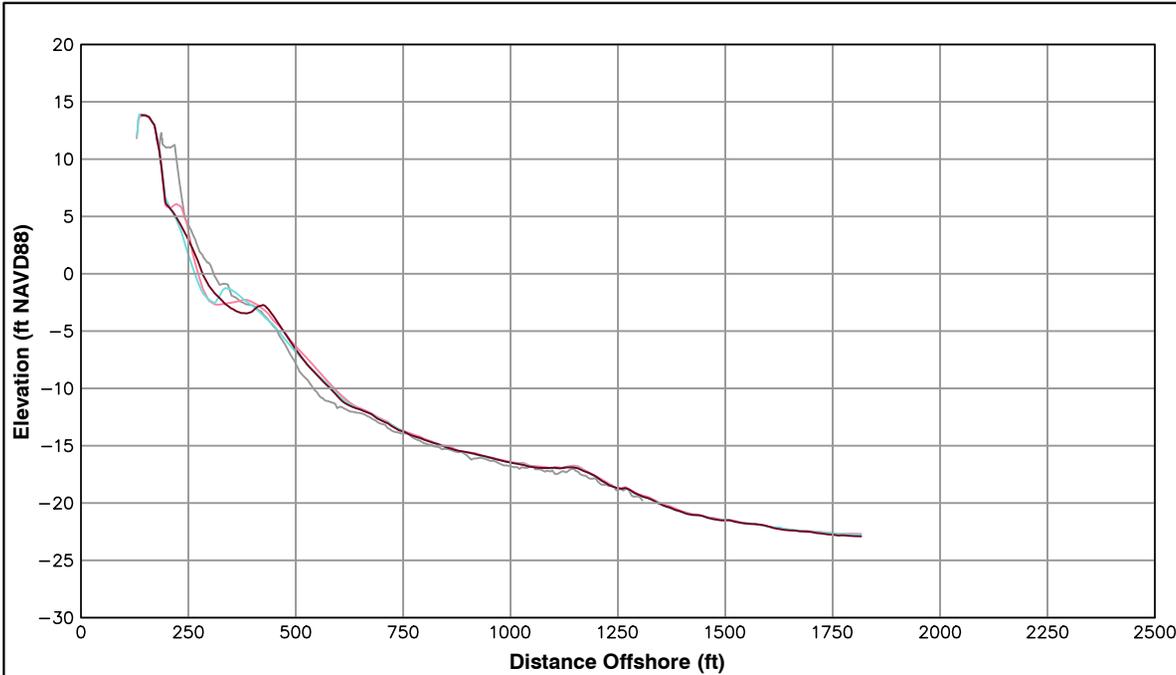
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
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Survey Transect 141+98	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	8.31 ft/yr	17.36 ft
Volume Change Above -15 ft NAVD88	-3.92 cy/ft/yr	1.99 cy/ft
Volume Change Above 0 ft NAVD88	-1.33 cy/ft/yr	2.00 cy/ft

**LEGEND:**

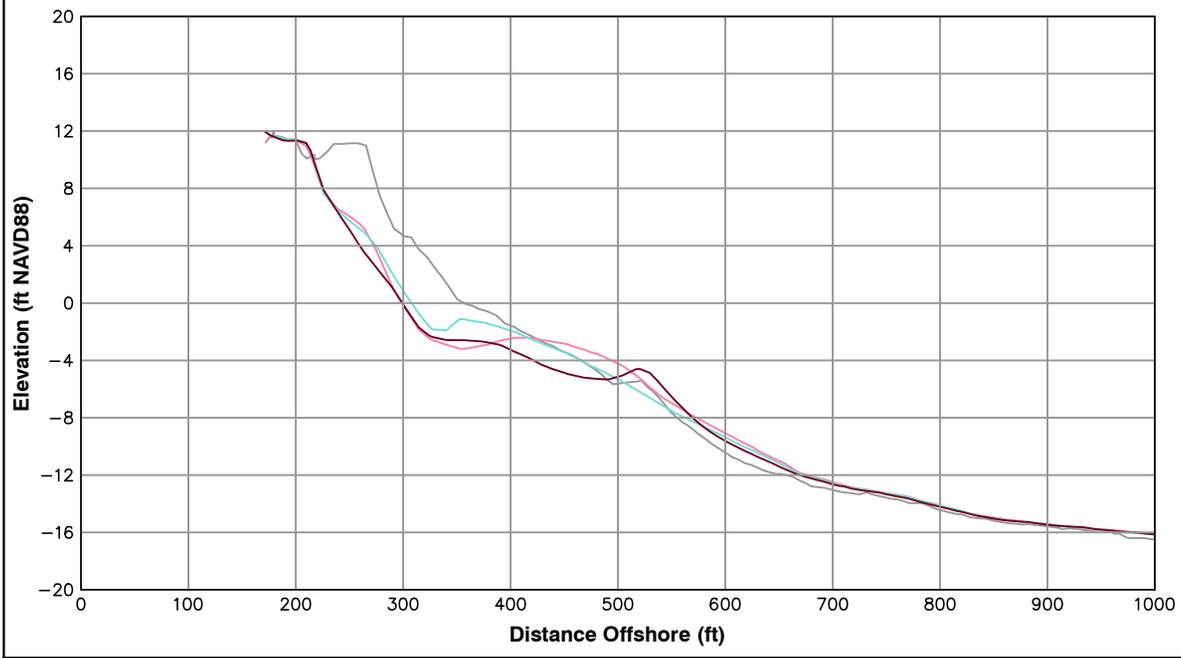
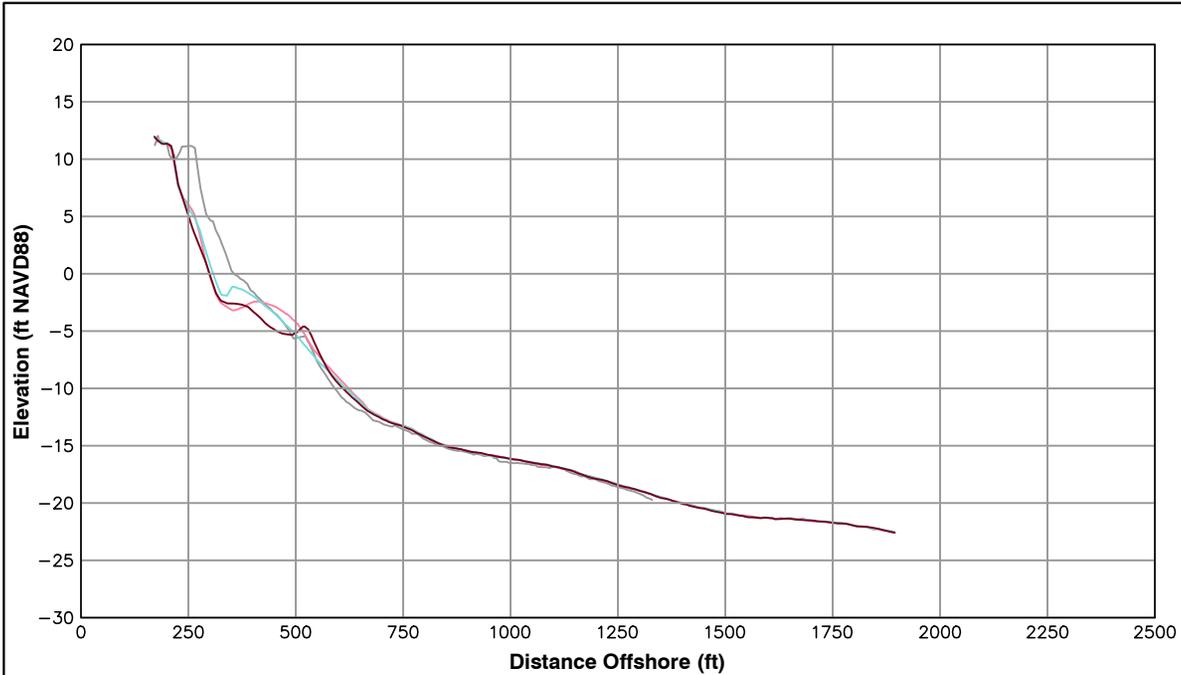
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
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4. Survey Comparison Made To April 2013 and October 2013.
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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



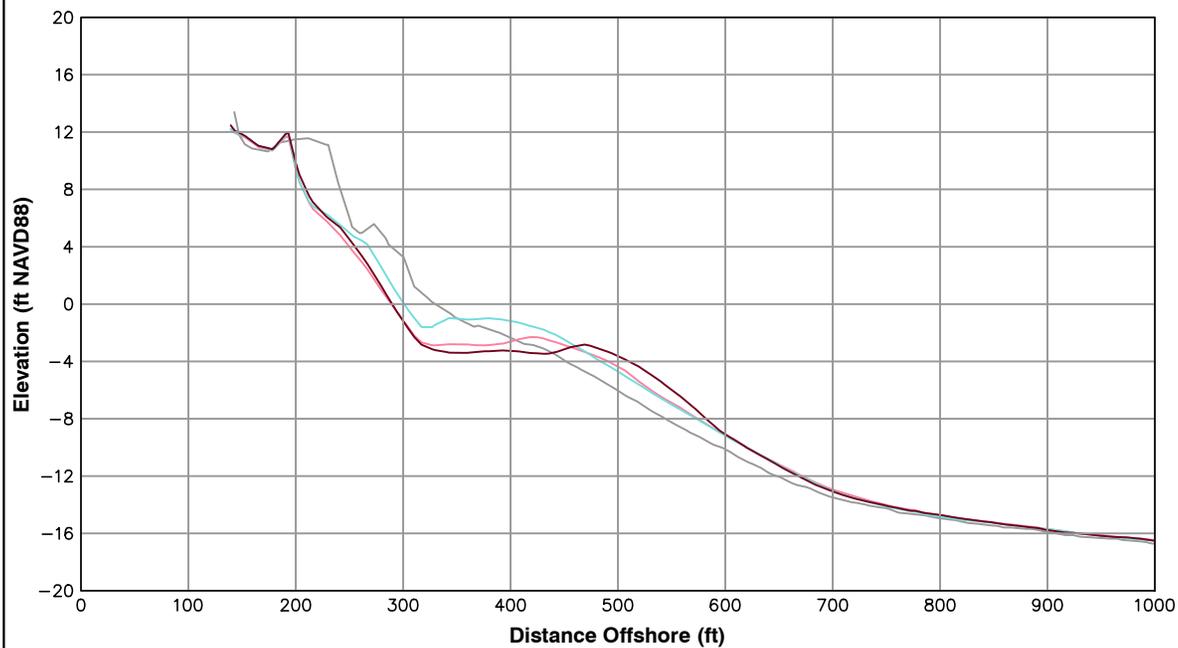
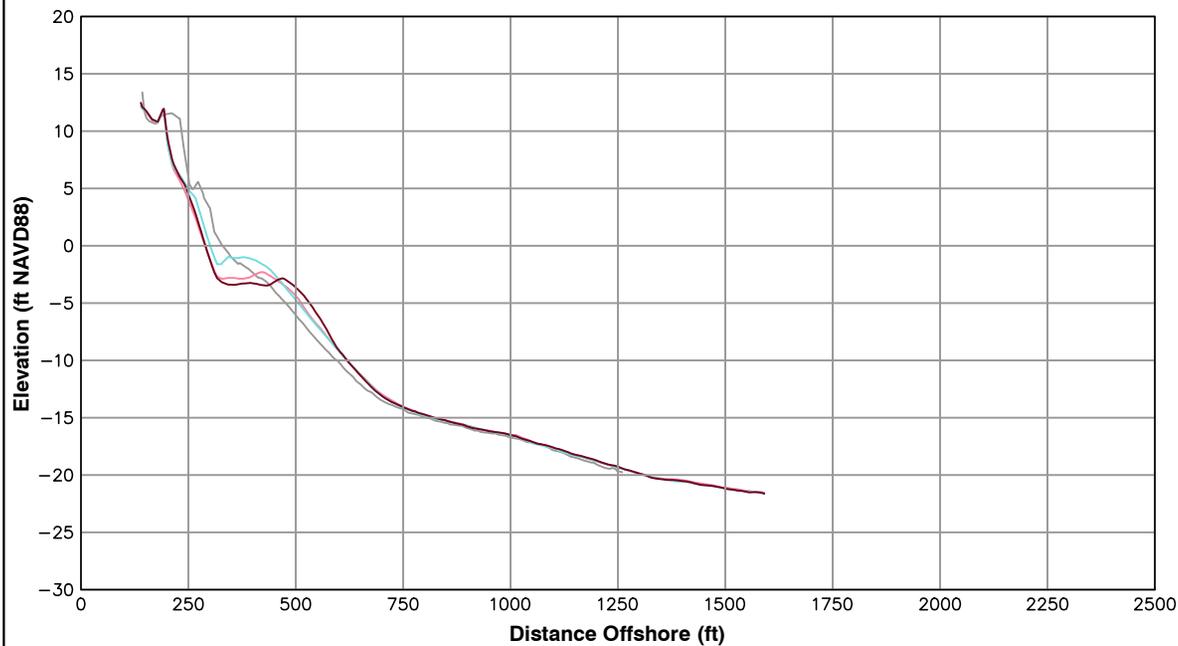
Survey Transect 152+01	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-0.31 ft/yr	-8.18 ft
Volume Change Above -15 ft NAVD88	-8.77 cy/ft/yr	-8.92 cy/ft
Volume Change Above 0 ft NAVD88	-1.77 cy/ft/yr	-2.45 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 163+49	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	2.11 ft/yr	-10.59 ft
Volume Change Above -15 ft NAVD88	1.62 cy/ft/yr	-8.06 cy/ft
Volume Change Above 0 ft NAVD88	1.75 cy/ft/yr	-1.63 cy/ft

**LEGEND:**

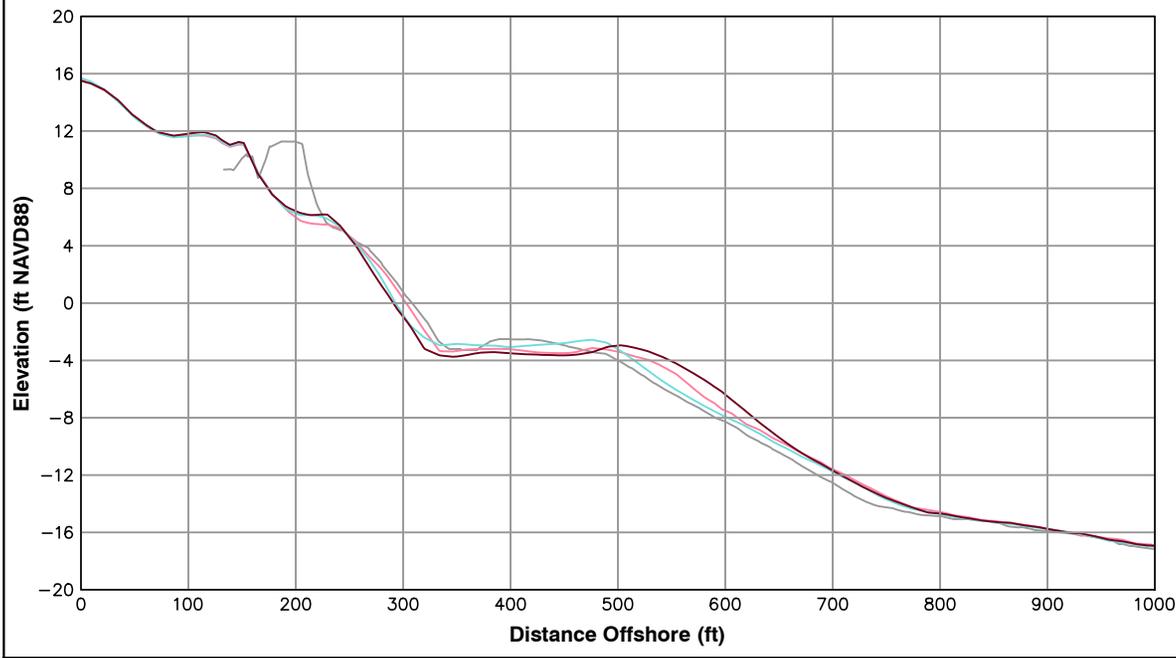
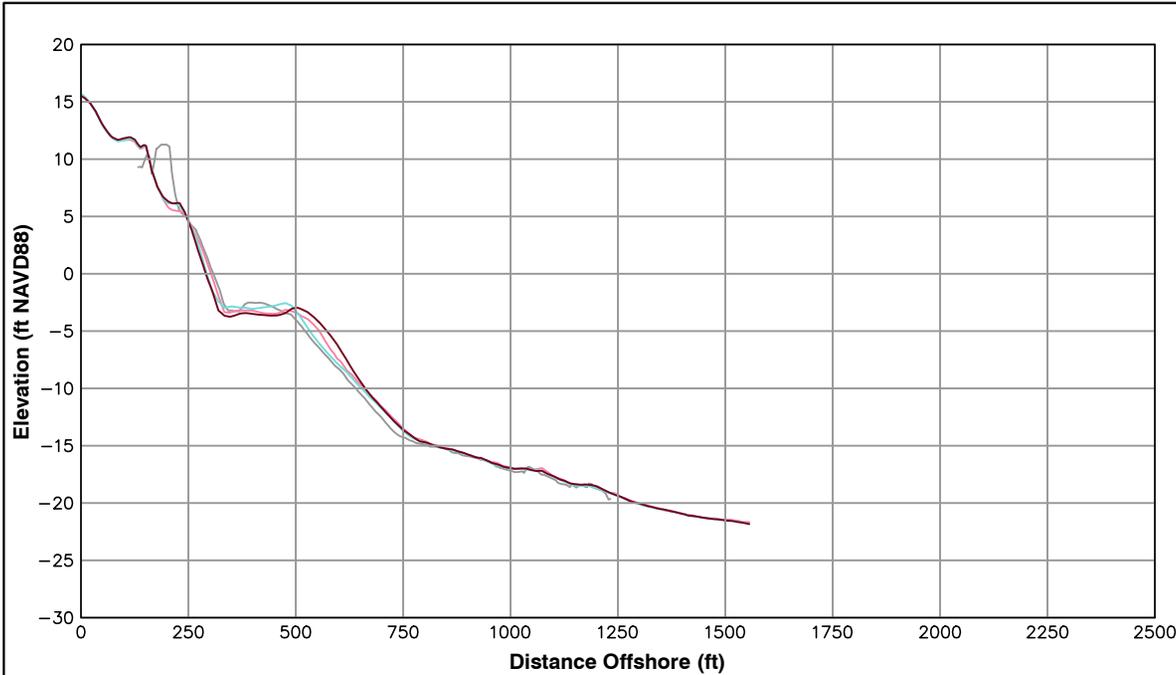
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

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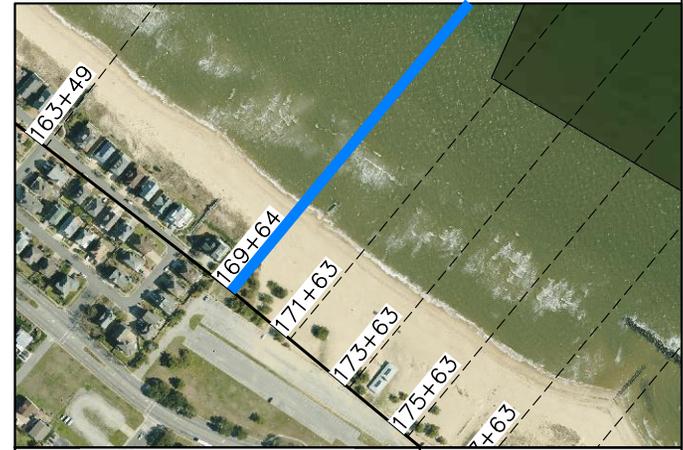


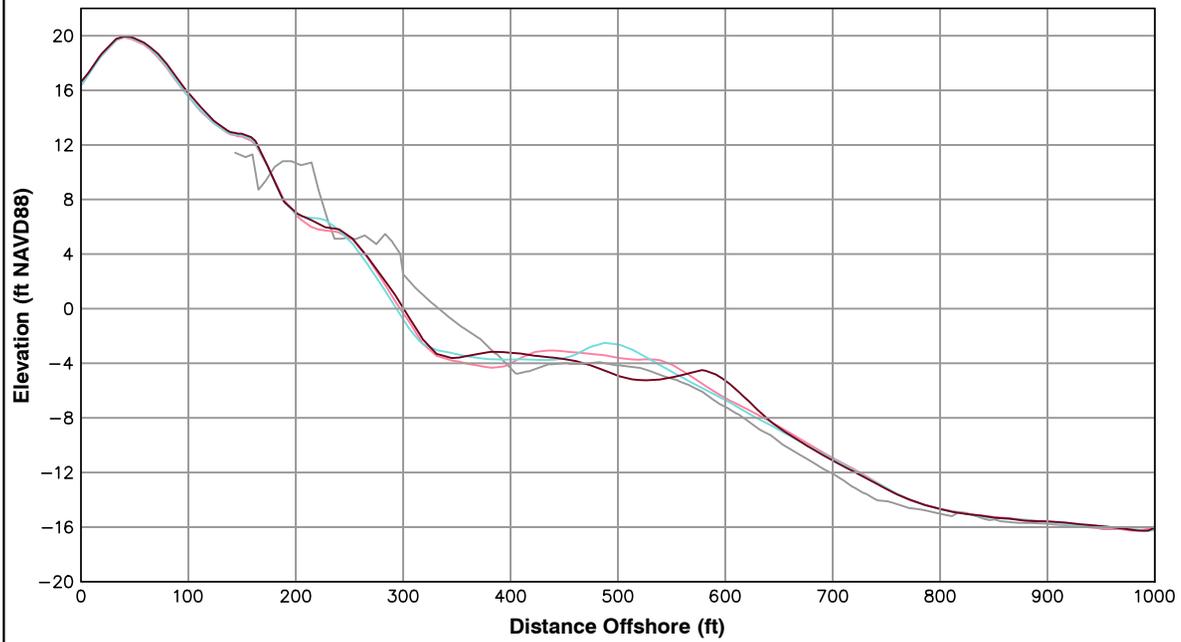
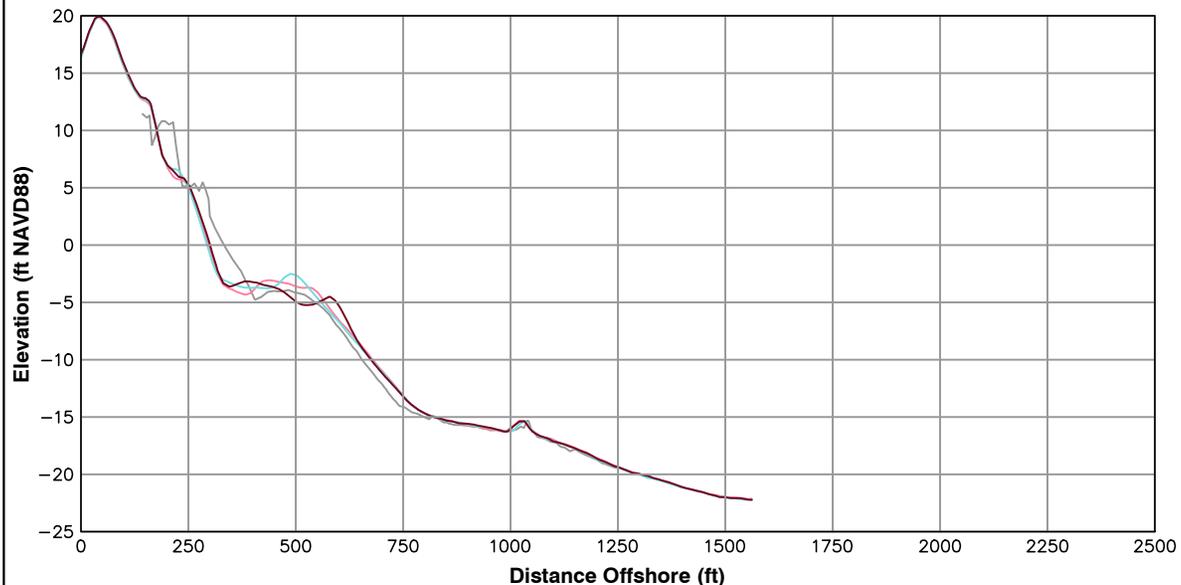
Survey Transect 169+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-12.02 ft/yr	-3.48 ft
Volume Change Above -15 ft NAVD88	1.23 cy/ft/yr	3.55 cy/ft
Volume Change Above 0 ft NAVD88	0.04 cy/ft/yr	0.15 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
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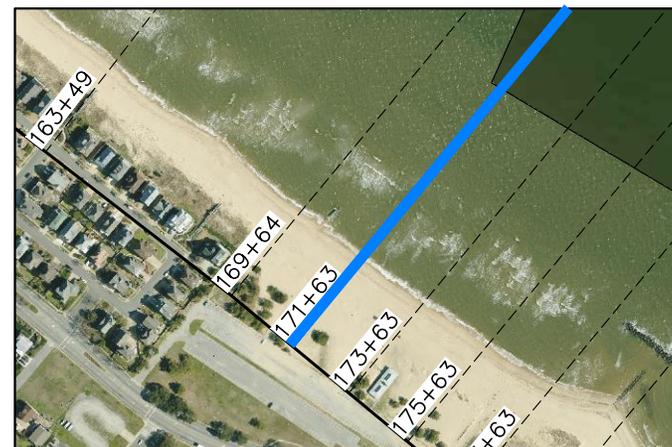


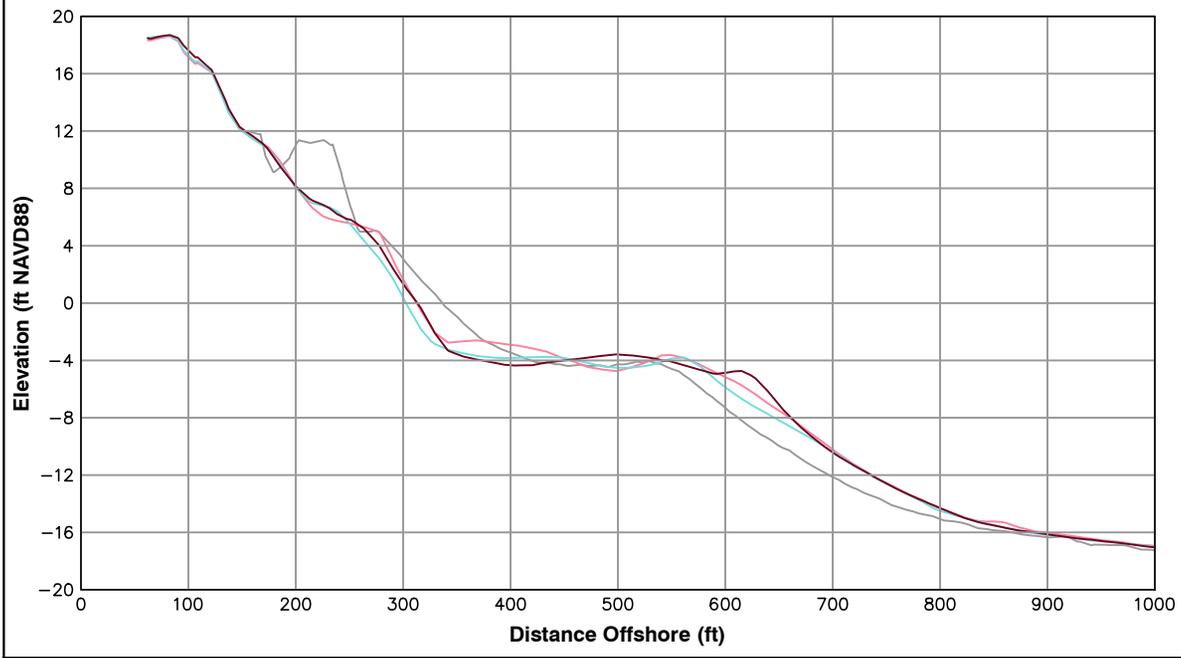
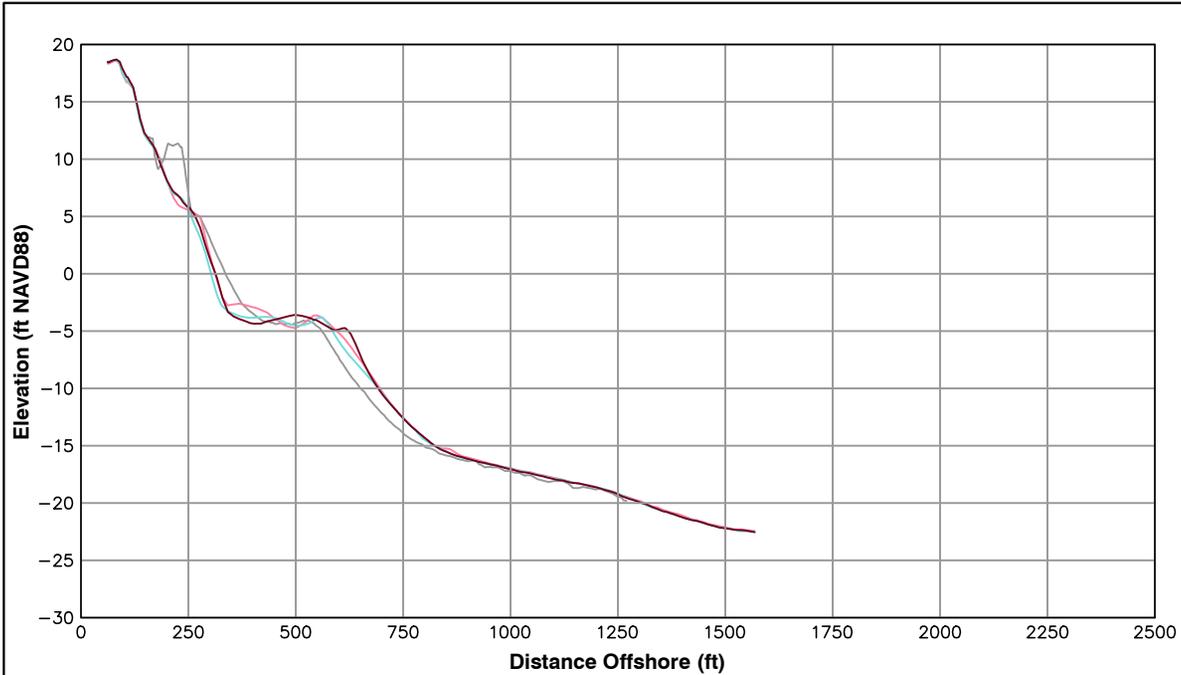
Survey Transect 171+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	3.66 ft/yr	6.84 ft
Volume Change Above -15 ft NAVD88	1.07 cy/ft/yr	0.72 cy/ft
Volume Change Above 0 ft NAVD88	2.21 cy/ft/yr	1.81 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
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  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





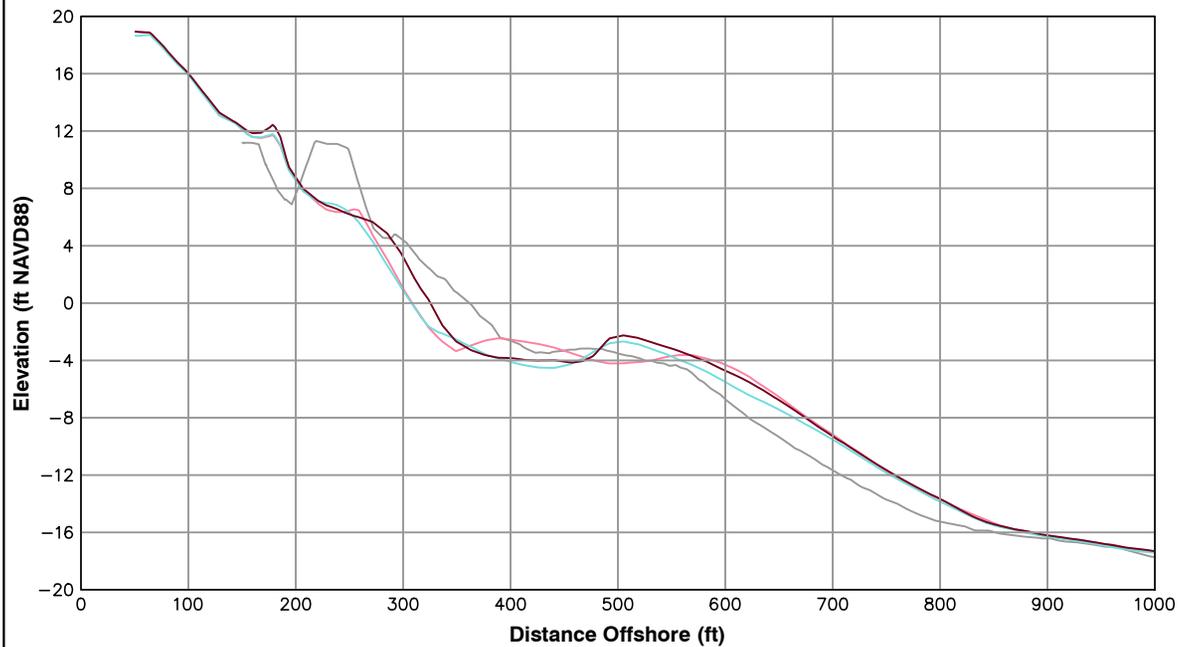
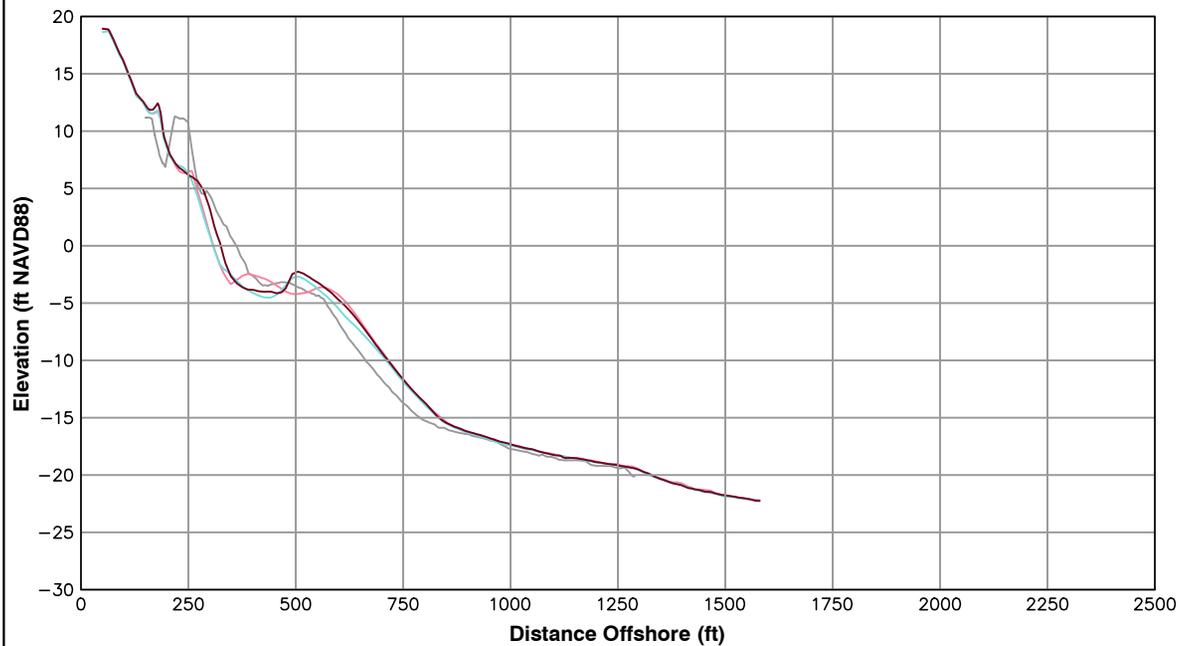
Survey Transect 173+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-1.72 ft/yr	7.50 ft
Volume Change Above -15 ft NAVD88	-1.31 cy/ft/yr	7.78 cy/ft
Volume Change Above 0 ft NAVD88	0.70 cy/ft/yr	2.48 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
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  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 175+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	16.92 ft/yr	17.56 ft
Volume Change Above -15 ft NAVD88	5.05 cy/ft/yr	12.34 cy/ft
Volume Change Above 0 ft NAVD88	4.44 cy/ft/yr	5.15 cy/ft

**LEGEND:**

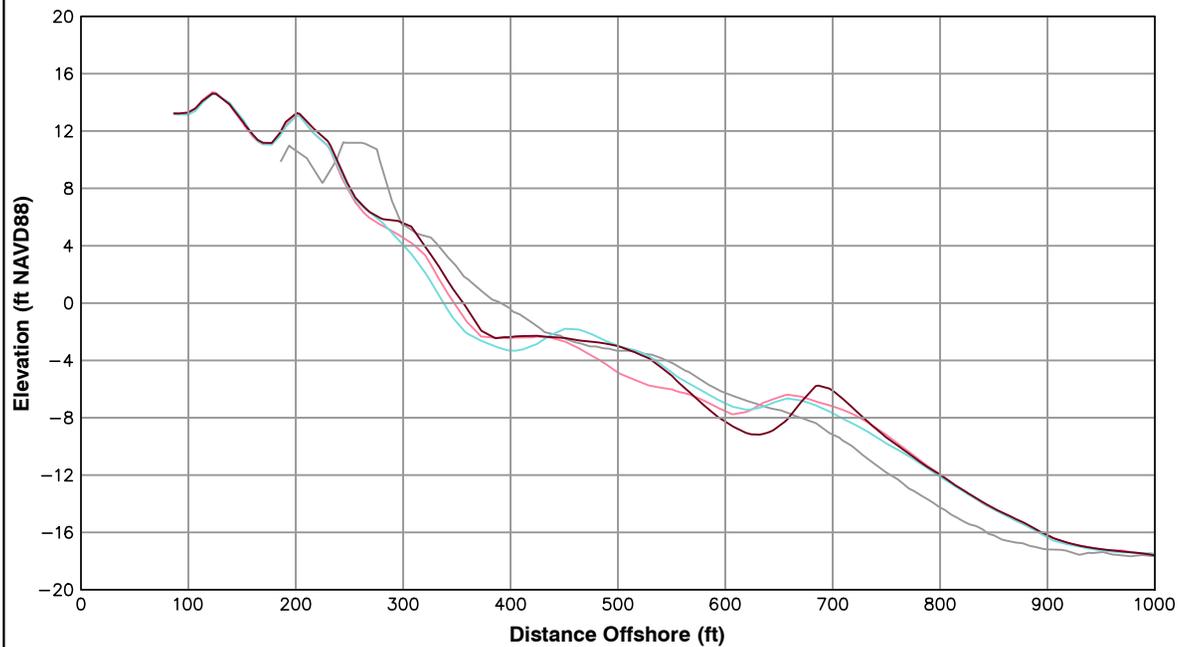
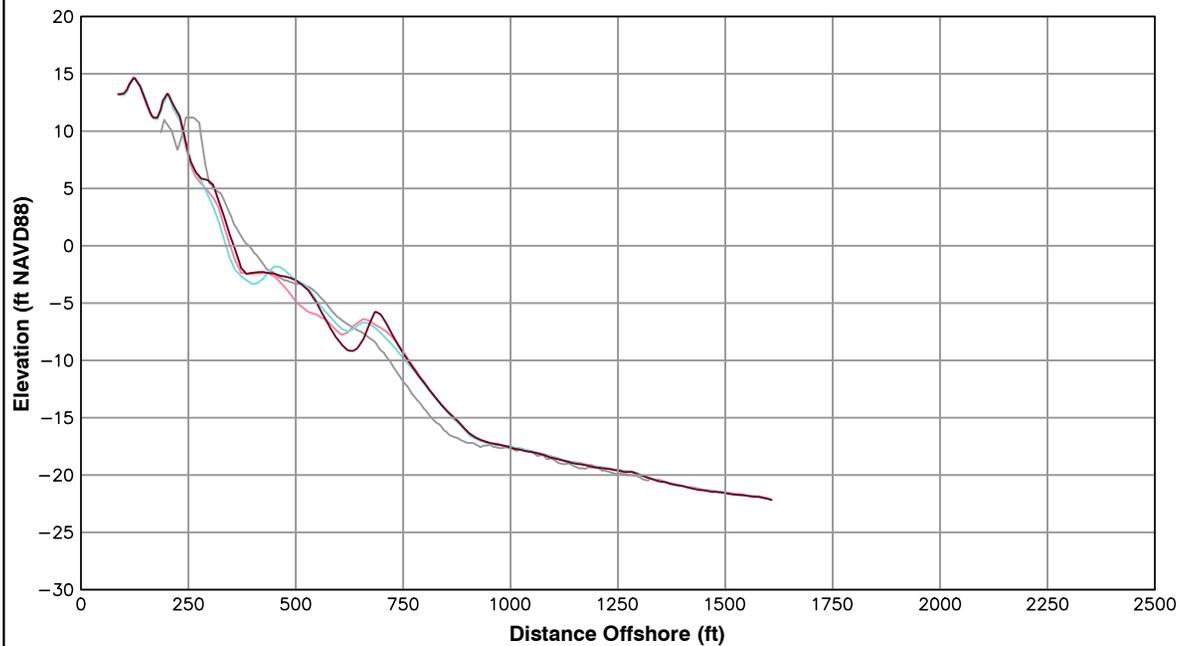
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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Survey Transect 177+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	7.65 ft/yr	16.60 ft
Volume Change Above -15 ft NAVD88	6.85 cy/ft/yr	4.77 cy/ft
Volume Change Above 0 ft NAVD88	3.67 cy/ft/yr	4.84 cy/ft

**LEGEND:**

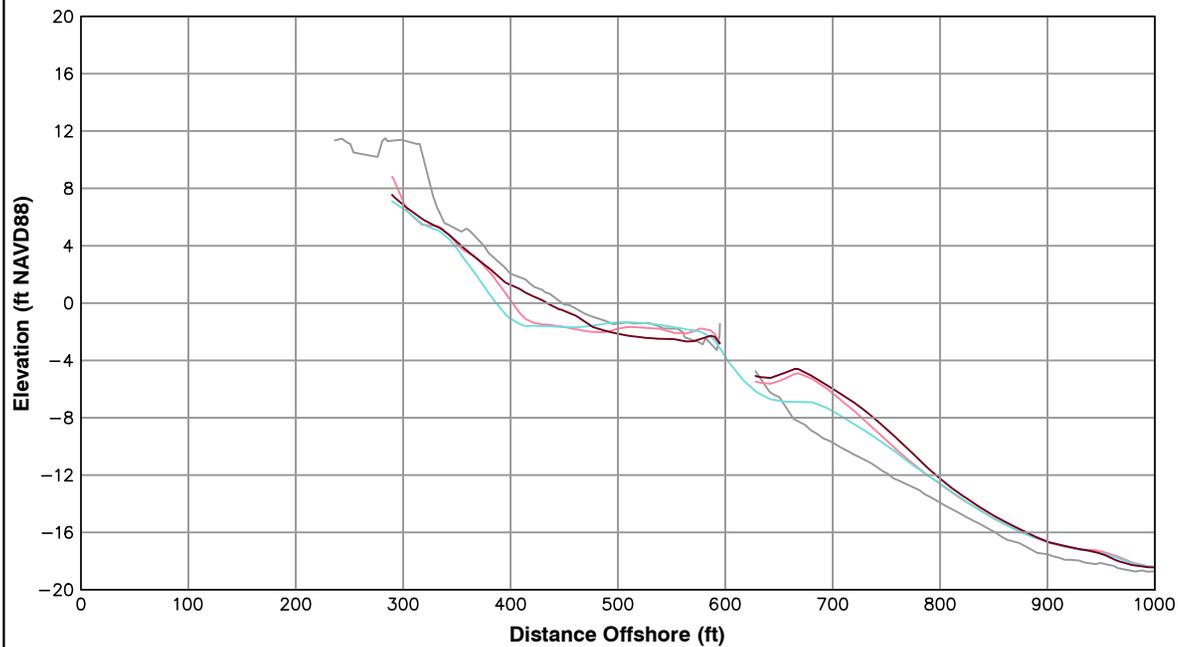
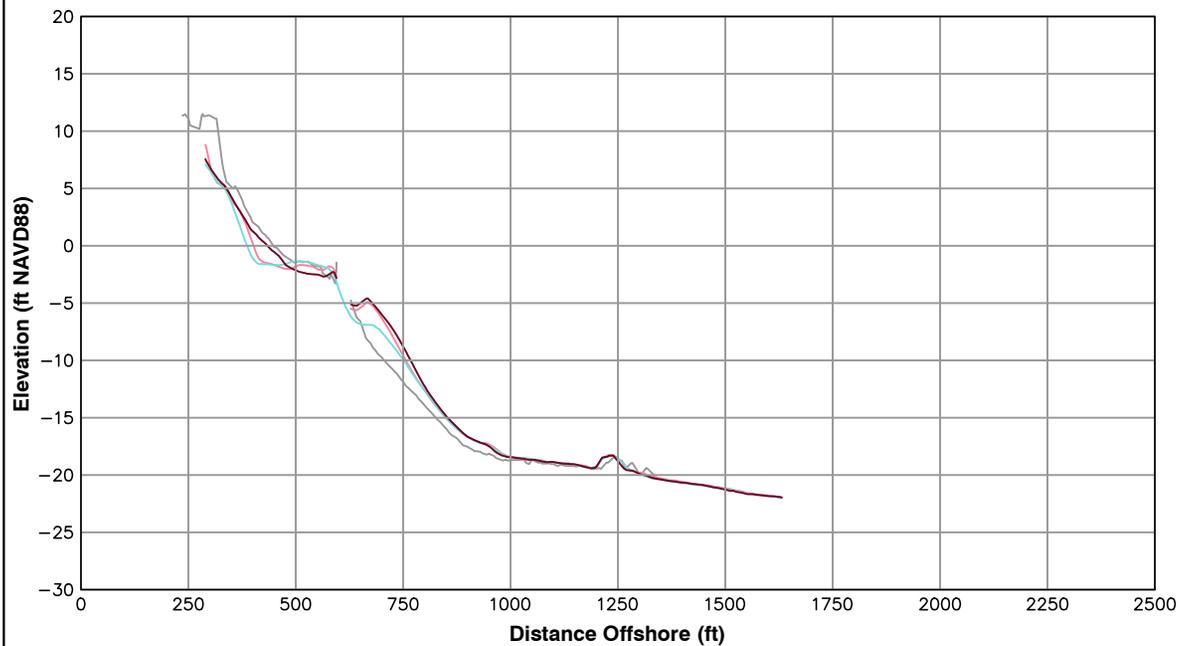
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
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4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.



**OCEAN VIEW PERIODIC  
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Survey Transect 179+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	16.66 ft/yr	31.48 ft
Volume Change Above -15 ft NAVD88	6.06 cy/ft/yr	13.78 cy/ft
Volume Change Above 0 ft NAVD88	1.31 cy/ft/yr	3.94 cy/ft

**LEGEND:**

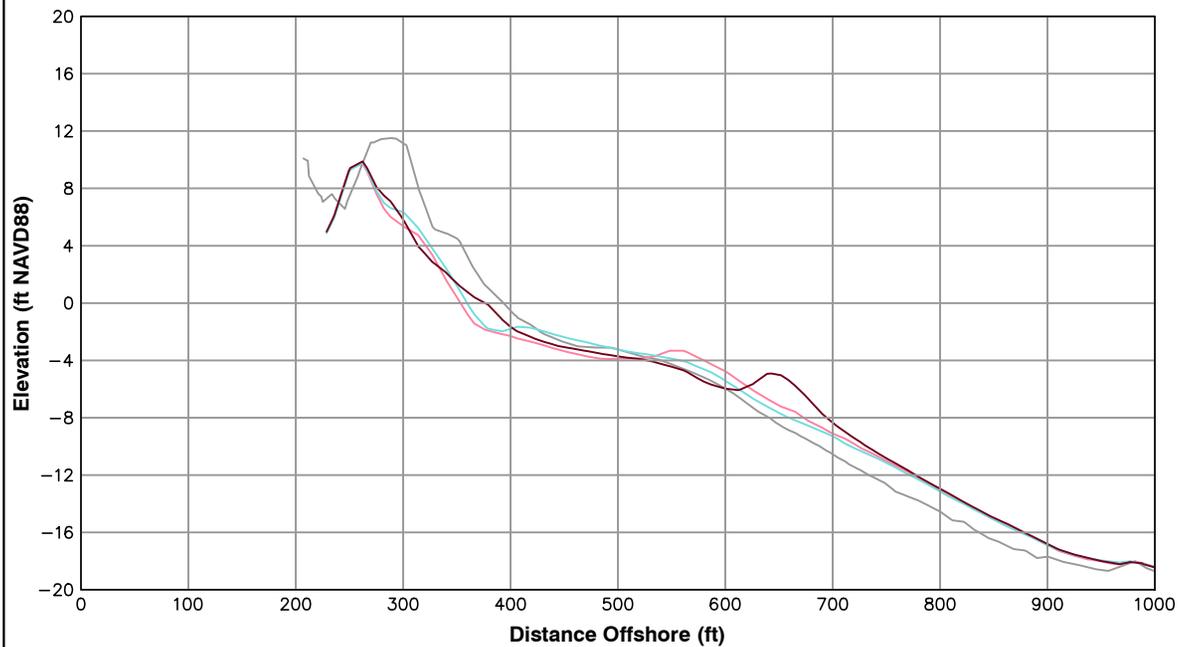
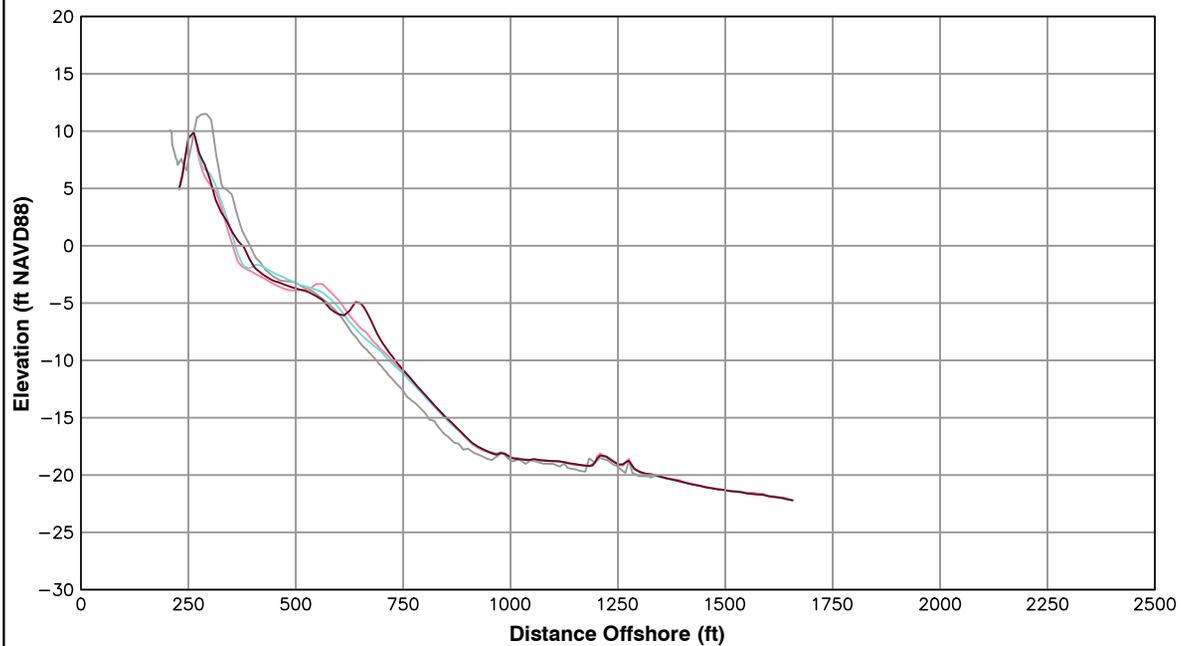
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
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OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS



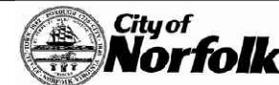
Survey Transect 181+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	11.45 ft/yr	4.39 ft
Volume Change Above -15 ft NAVD88	6.73 cy/ft/yr	3.99 cy/ft
Volume Change Above 0 ft NAVD88	1.46 cy/ft/yr	-0.48 cy/ft

**LEGEND:**

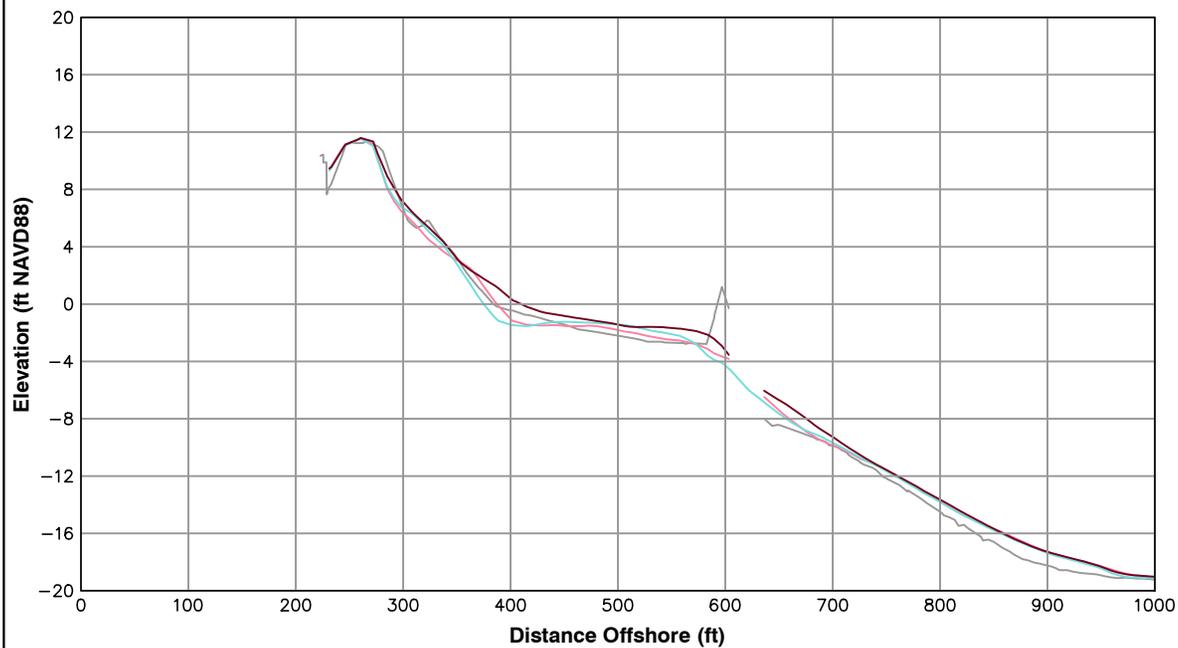
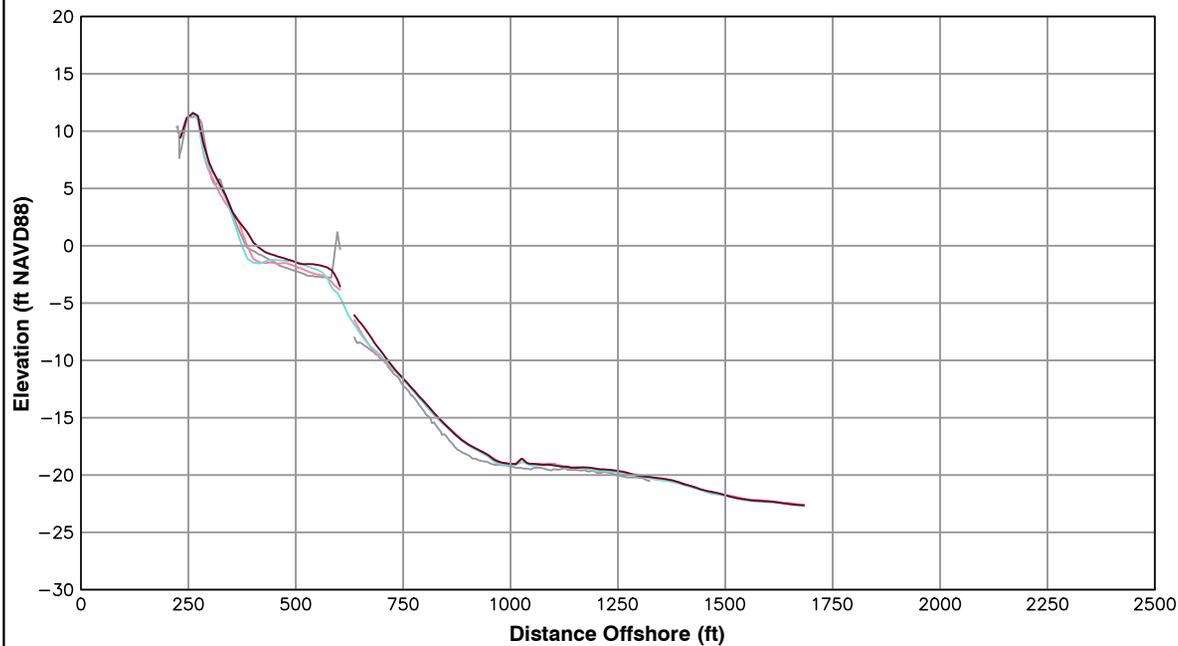
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



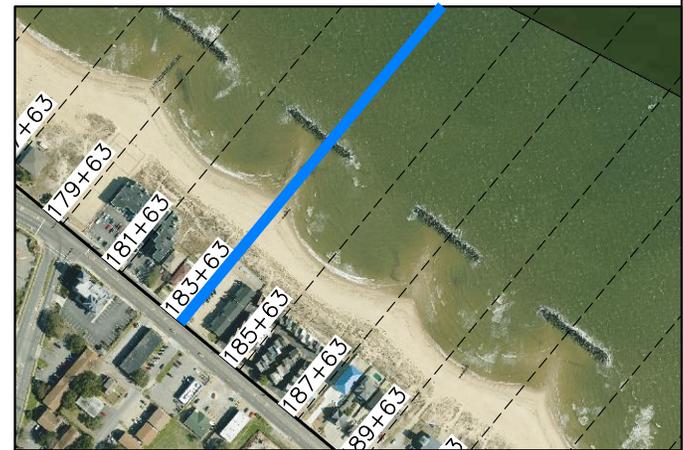
Survey Transect 183+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	13.71 ft/yr	24.71 ft
Volume Change Above -15 ft NAVD88	11.60 cy/ft/yr	11.19 cy/ft
Volume Change Above 0 ft NAVD88	2.99 cy/ft/yr	3.27 cy/ft

**LEGEND:**

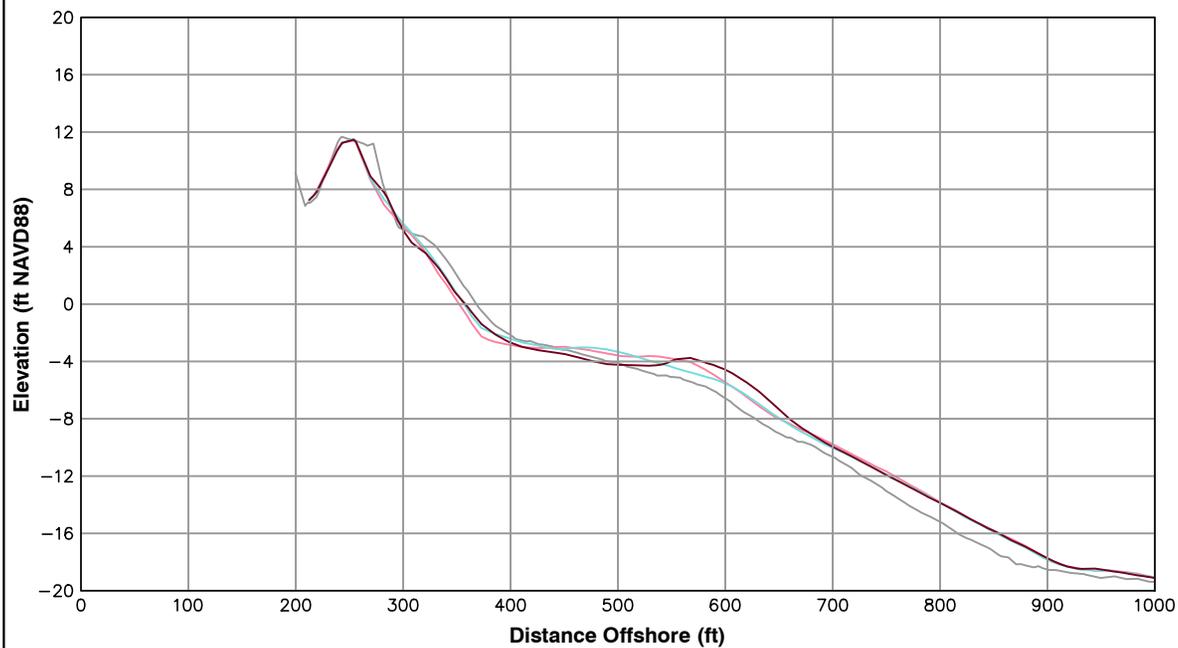
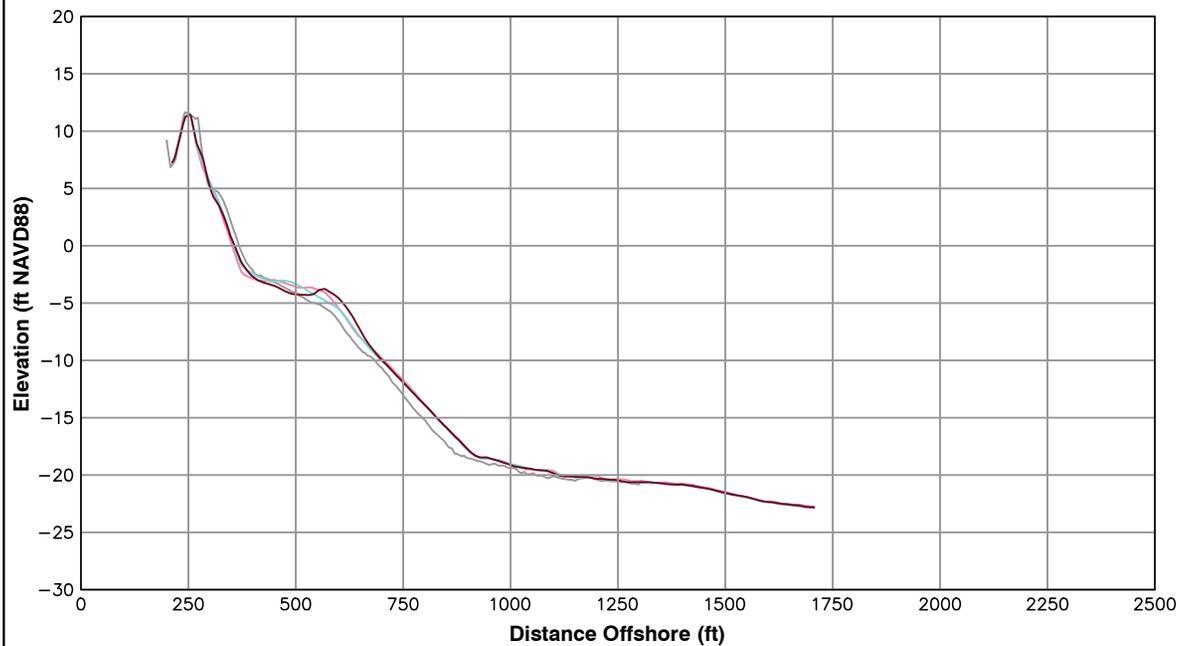
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



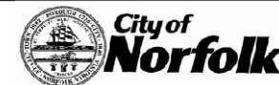
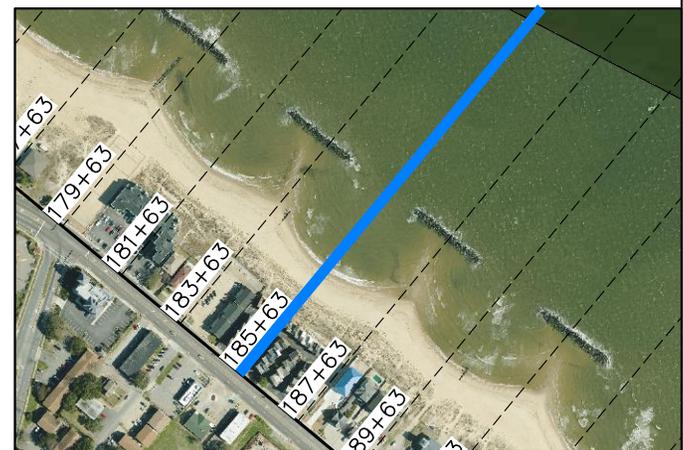
Survey Transect 185+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	3.36 ft/yr	-0.99 ft
Volume Change Above -15 ft NAVD88	1.15 cy/ft/yr	0.71 cy/ft
Volume Change Above 0 ft NAVD88	0.66 cy/ft/yr	-0.38 cy/ft

**LEGEND:**

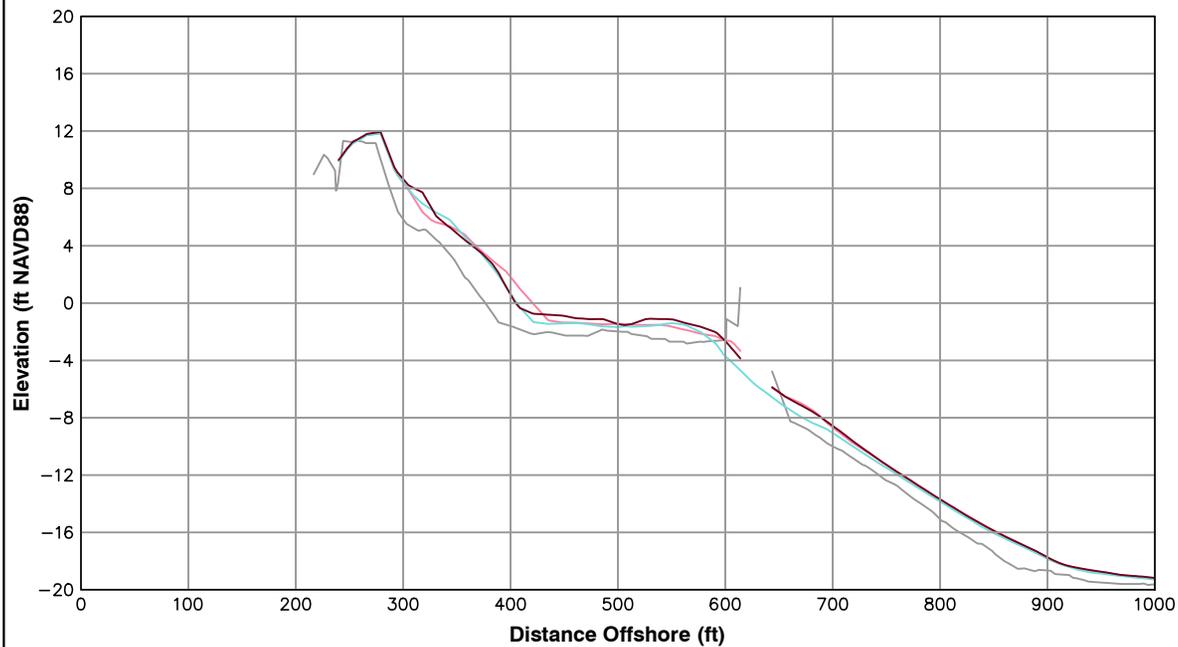
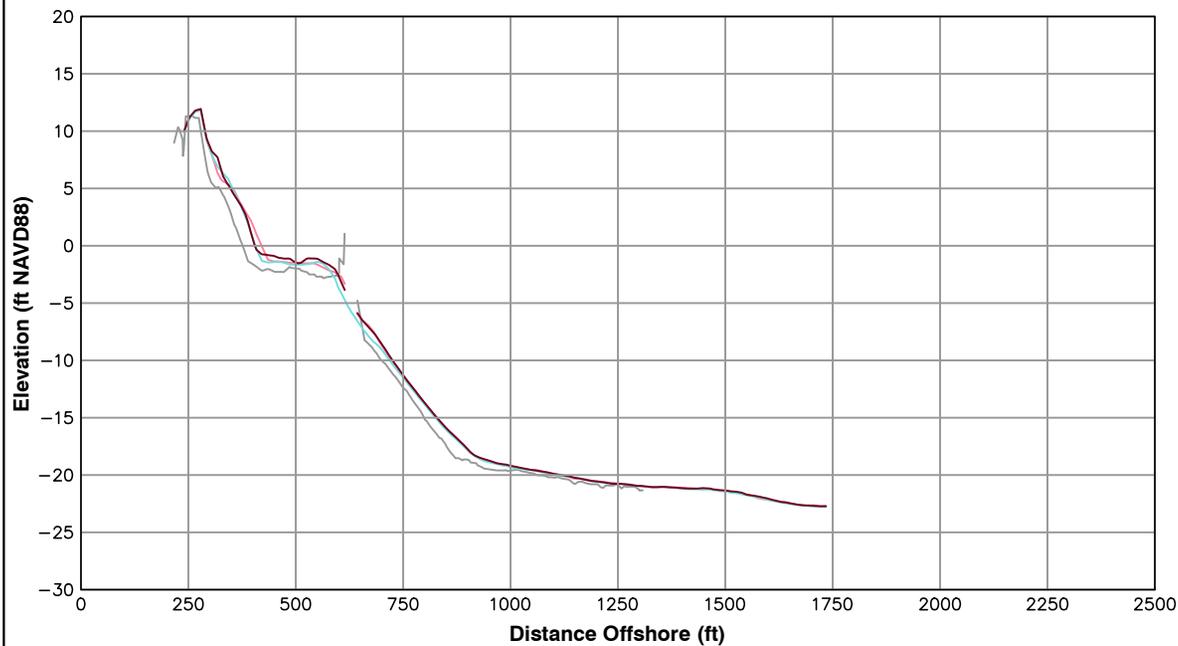
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



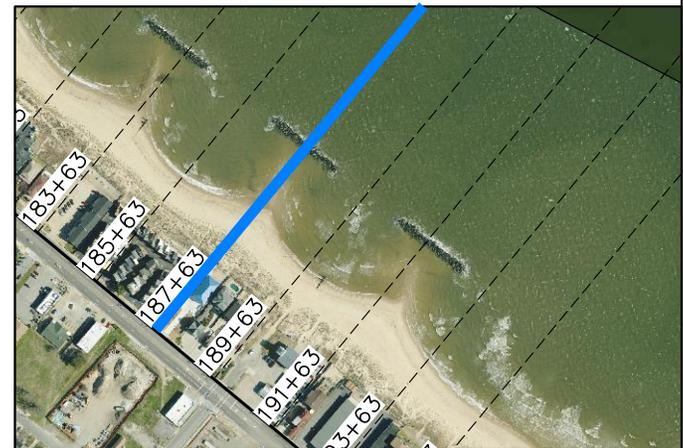
Survey Transect 187+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-12.32 ft/yr	-0.24 ft
Volume Change Above -15 ft NAVD88	1.35 cy/ft/yr	6.40 cy/ft
Volume Change Above 0 ft NAVD88	-0.22 cy/ft/yr	0.39 cy/ft

**LEGEND:**

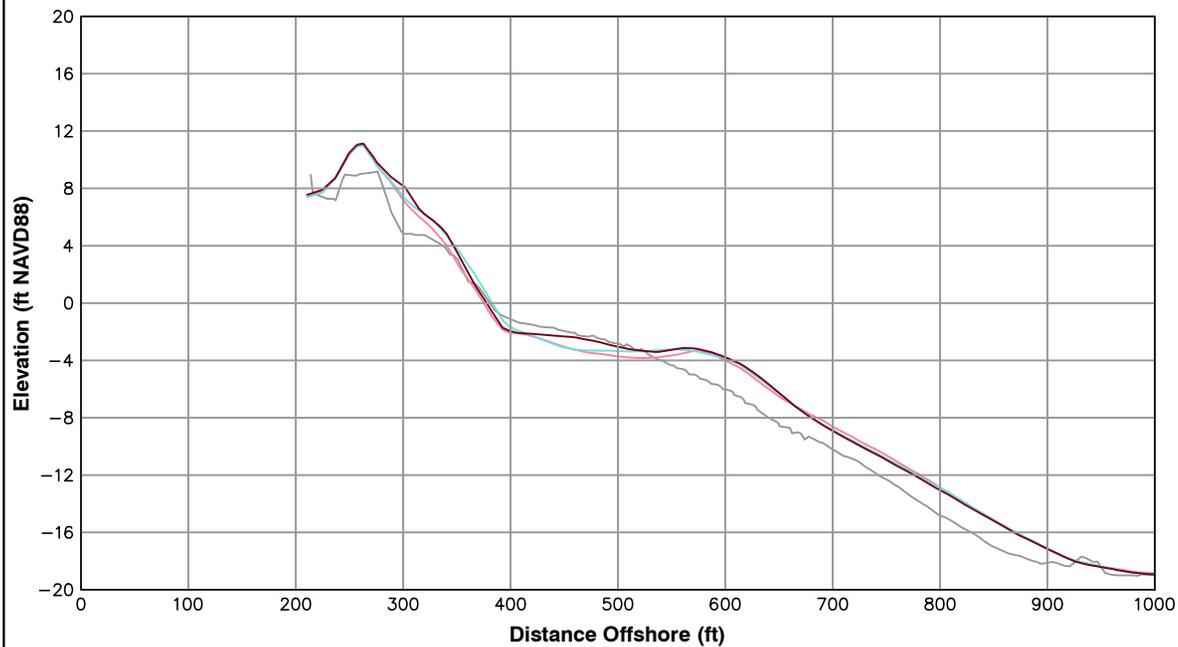
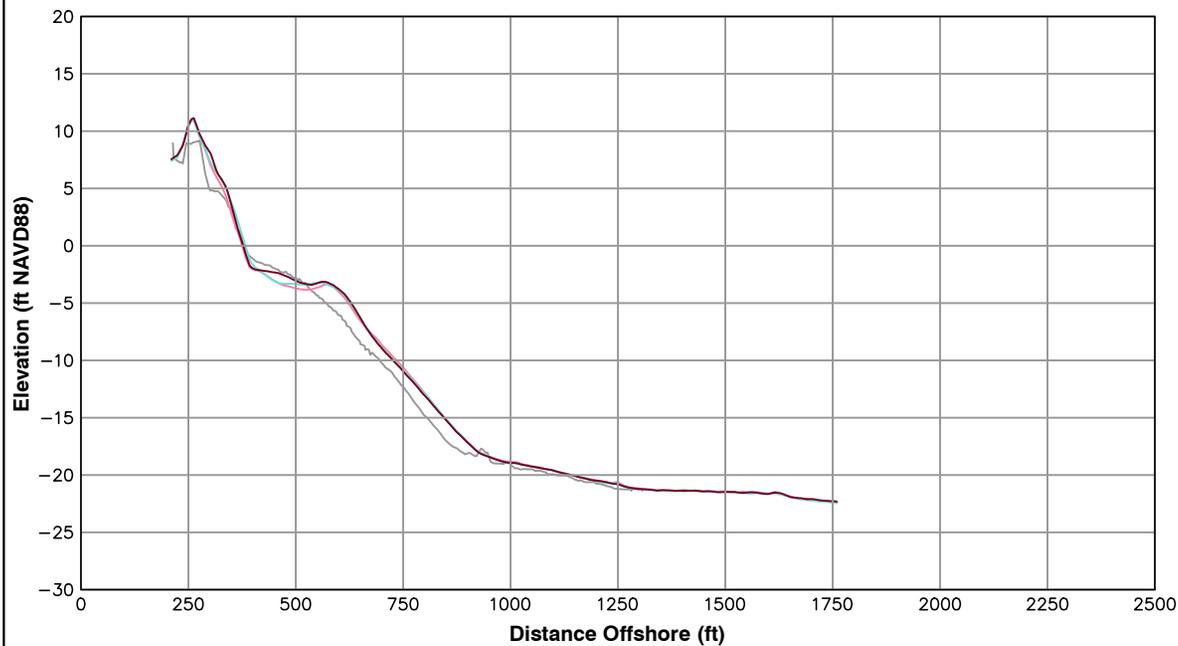
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

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OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS



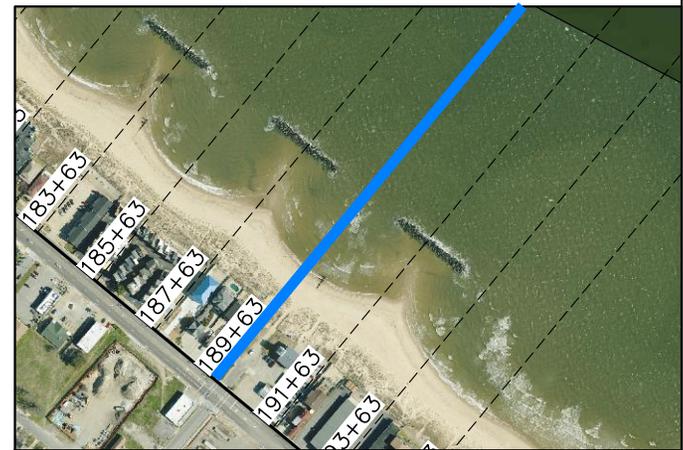
Survey Transect 189+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	2.26 ft/yr	-5.77 ft
Volume Change Above -15 ft NAVD88	5.29 cy/ft/yr	1.40 cy/ft
Volume Change Above 0 ft NAVD88	2.54 cy/ft/yr	0.28 cy/ft

**LEGEND:**

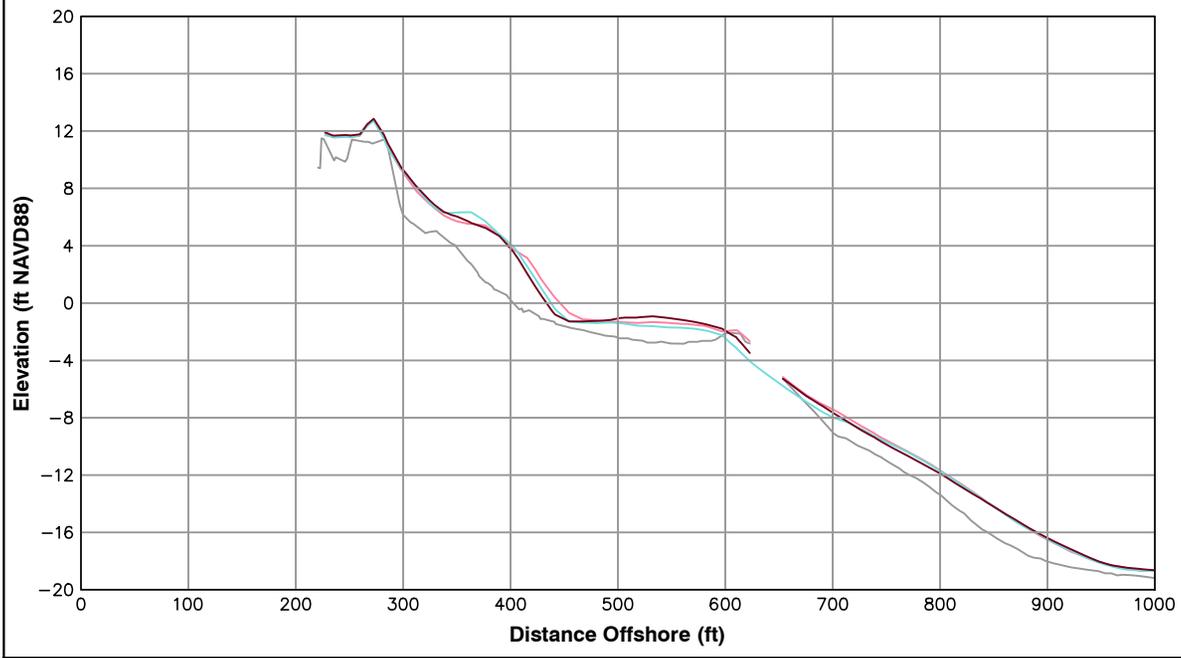
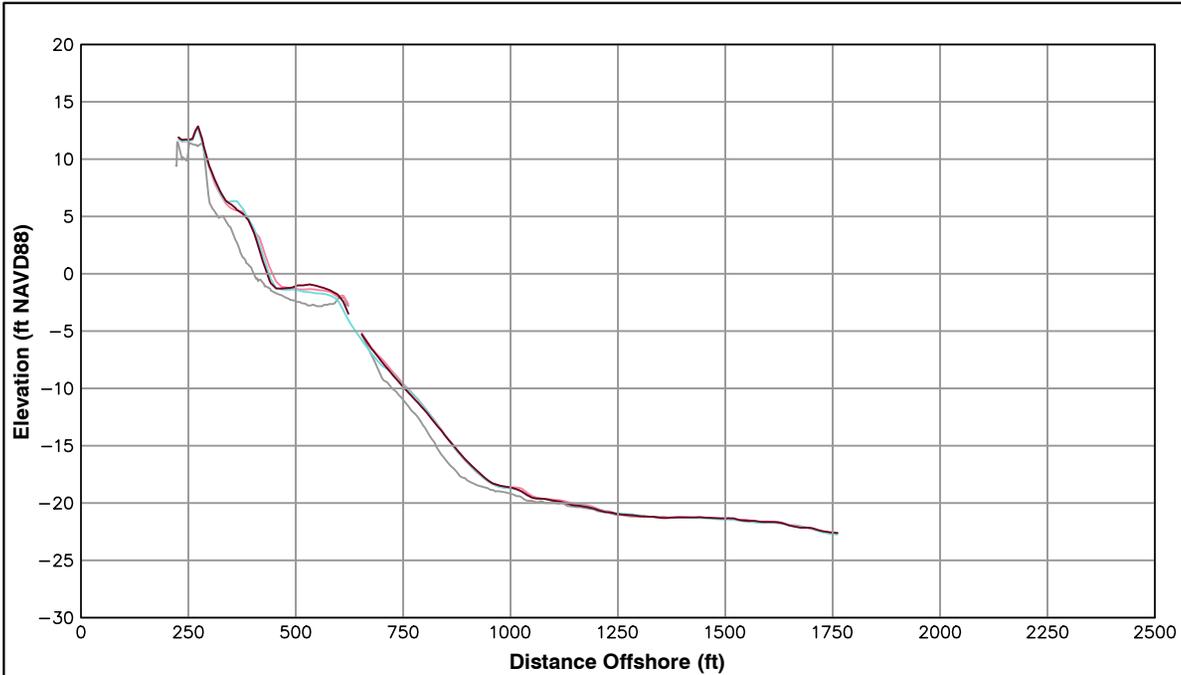
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS



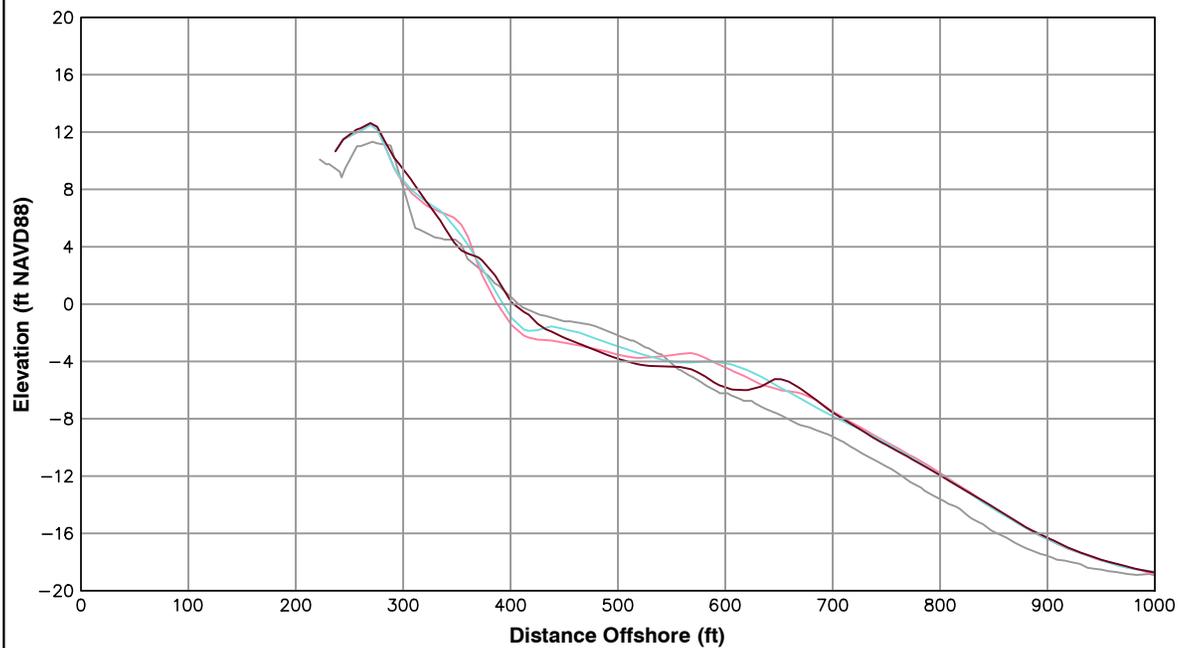
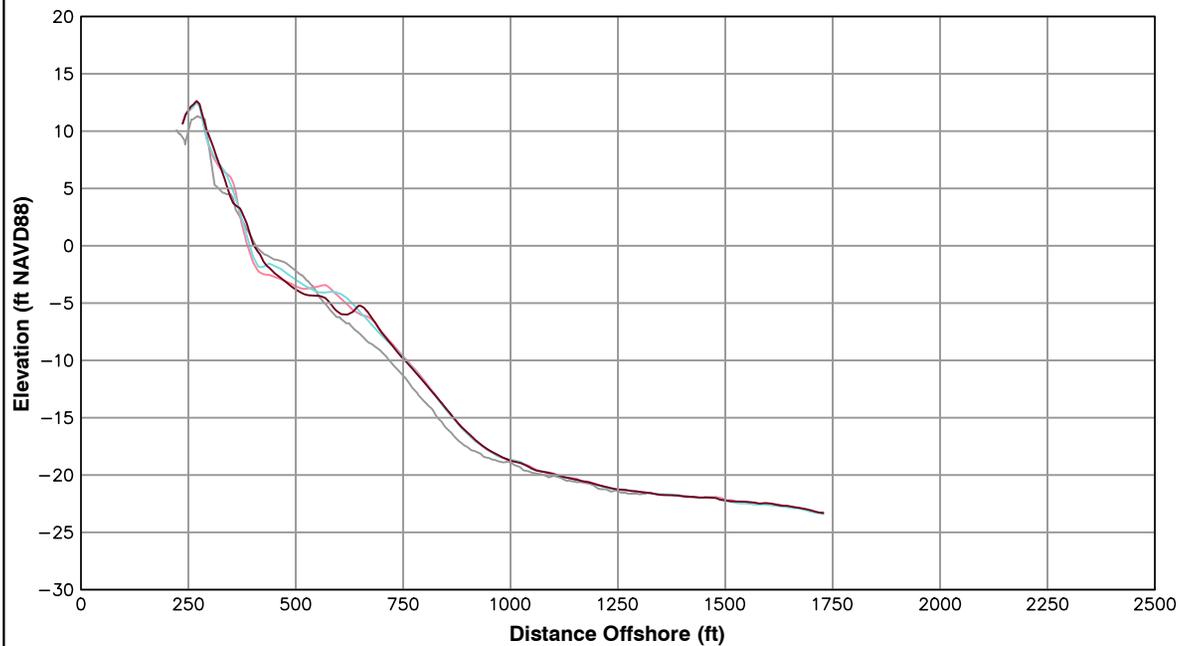
Survey Transect 191+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-11.06 ft/yr	-4.58 ft
Volume Change Above -15 ft NAVD88	-2.02 cy/ft/yr	1.86 cy/ft
Volume Change Above 0 ft NAVD88	-0.43 cy/ft/yr	-0.84 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
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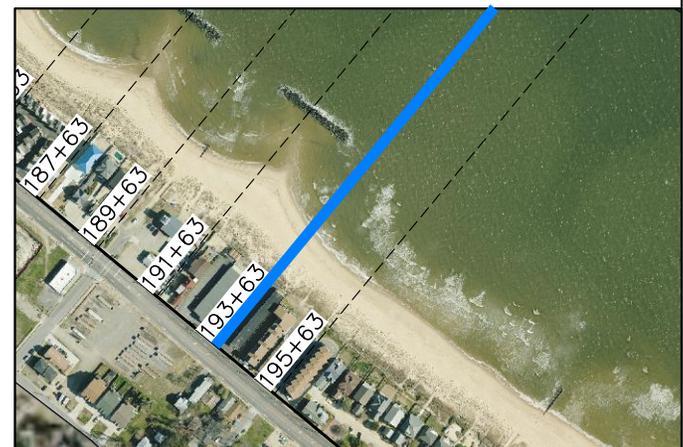


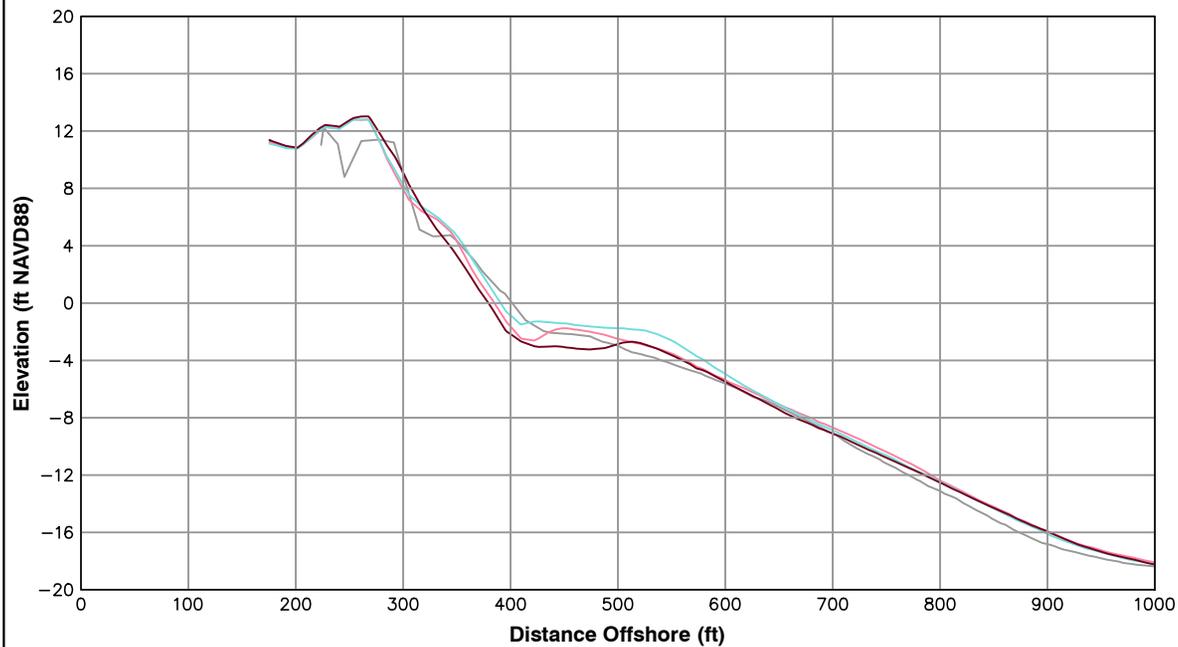
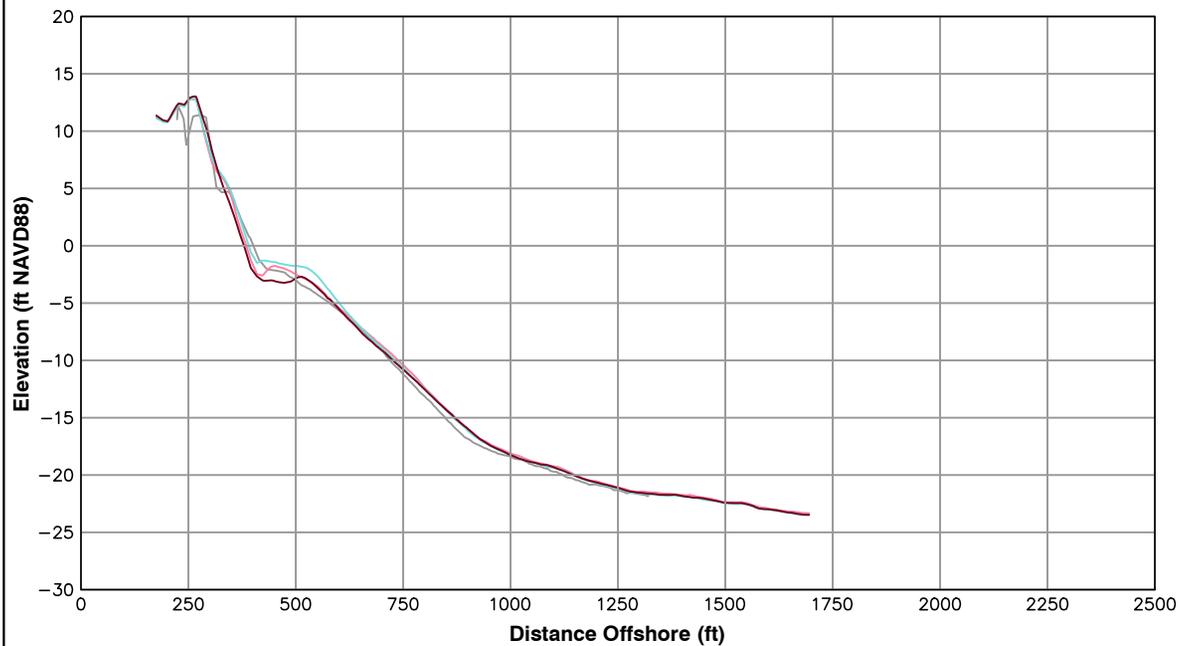
Survey Transect 193+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	13.77 ft/yr	8.57 ft
Volume Change Above -15 ft NAVD88	-1.05 cy/ft/yr	-3.27 cy/ft
Volume Change Above 0 ft NAVD88	0.98 cy/ft/yr	0.82 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

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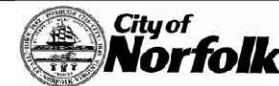
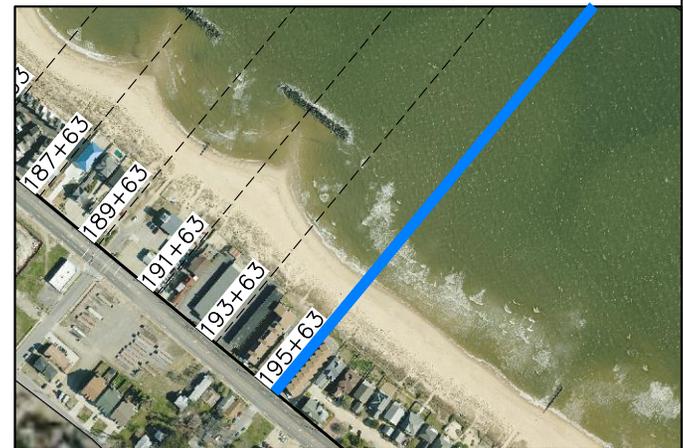
Survey Transect 195+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-5.91 ft/yr	-12.02 ft
Volume Change Above -15 ft NAVD88	-6.73 cy/ft/yr	-12.63 cy/ft
Volume Change Above 0 ft NAVD88	0.32 cy/ft/yr	-1.19 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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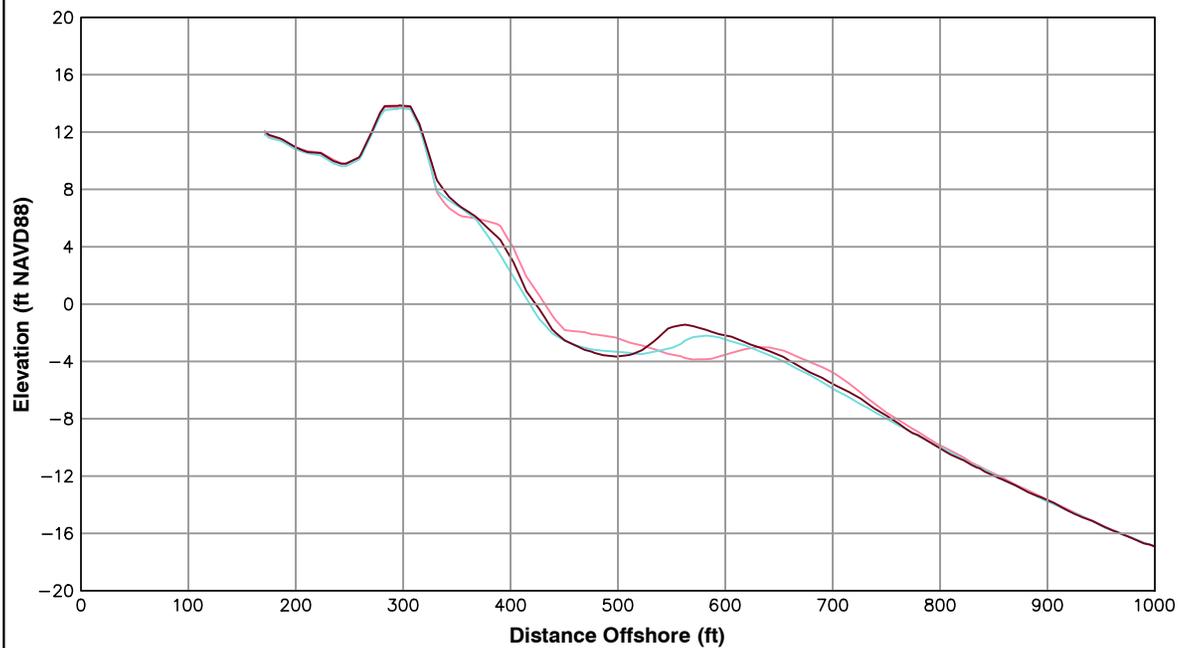
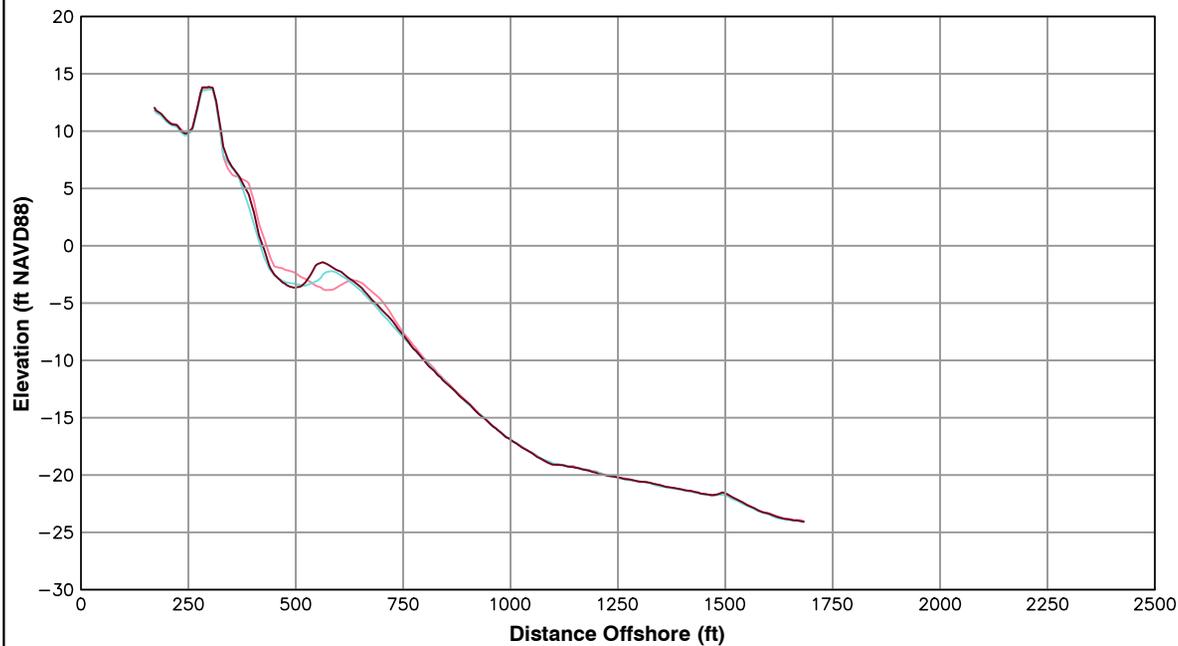


**OCEAN VIEW PERIODIC  
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ST 195+63

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Spring 2014



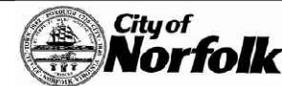
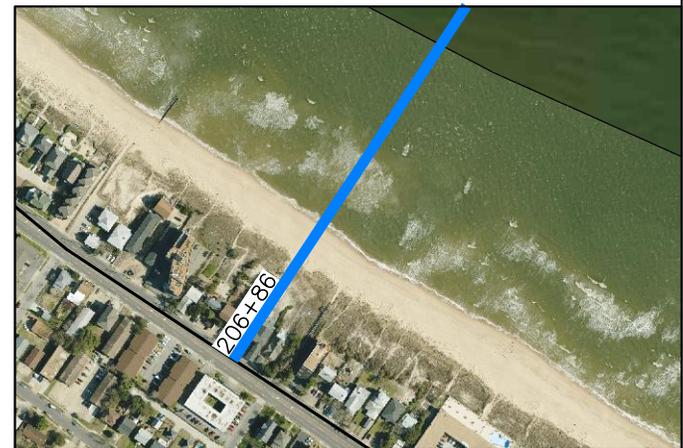
Survey Transect 206+86	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-9.38 ft/yr	4.18 ft
Volume Change Above -15 ft NAVD88	-2.14 cy/ft/yr	6.82 cy/ft
Volume Change Above 0 ft NAVD88	-0.50 cy/ft/yr	2.98 cy/ft

**LEGEND:**

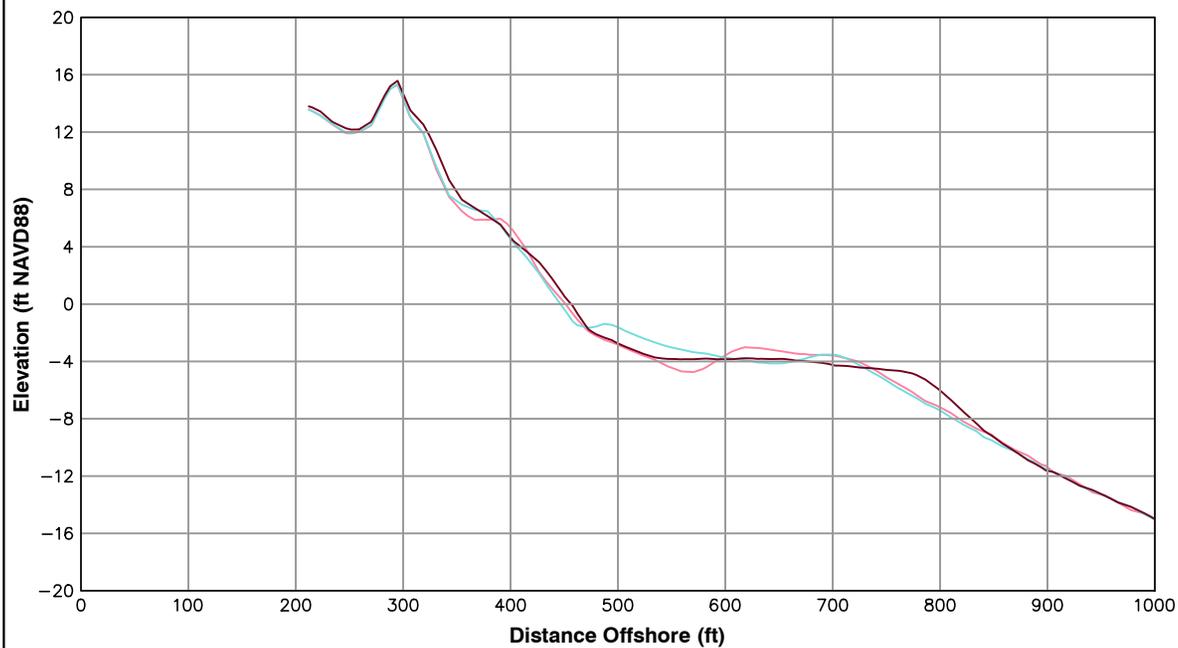
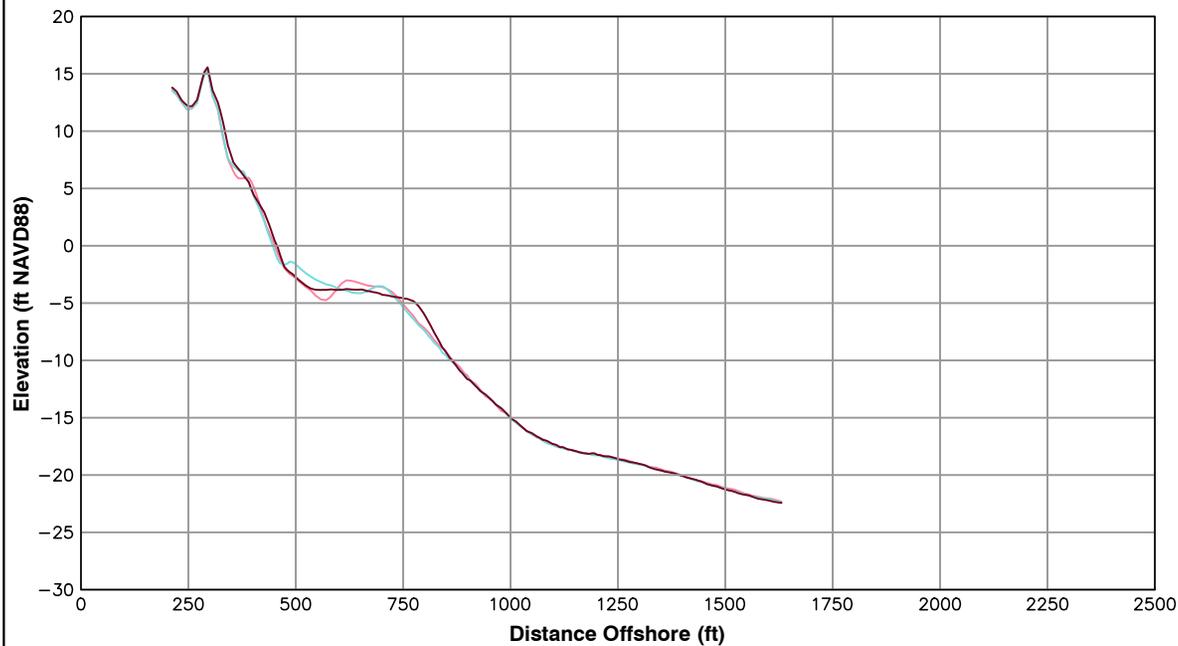
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>

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**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
ANALYSIS**



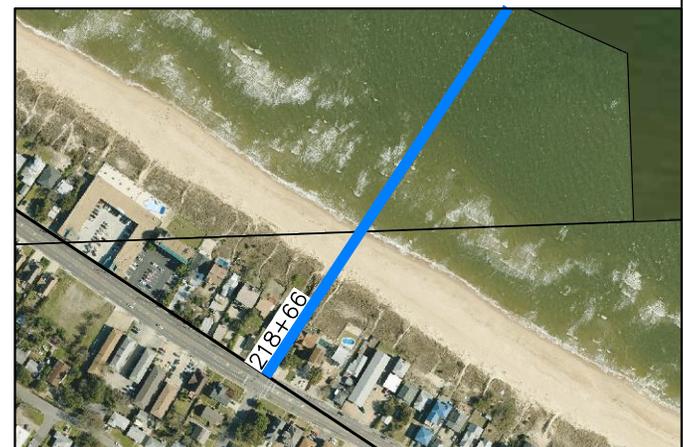
Survey Transect 218+66	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	6.46 ft/yr	9.05 ft
Volume Change Above -15 ft NAVD88	5.77 cy/ft/yr	4.50 cy/ft
Volume Change Above 0 ft NAVD88	3.59 cy/ft/yr	3.55 cy/ft

**LEGEND:**

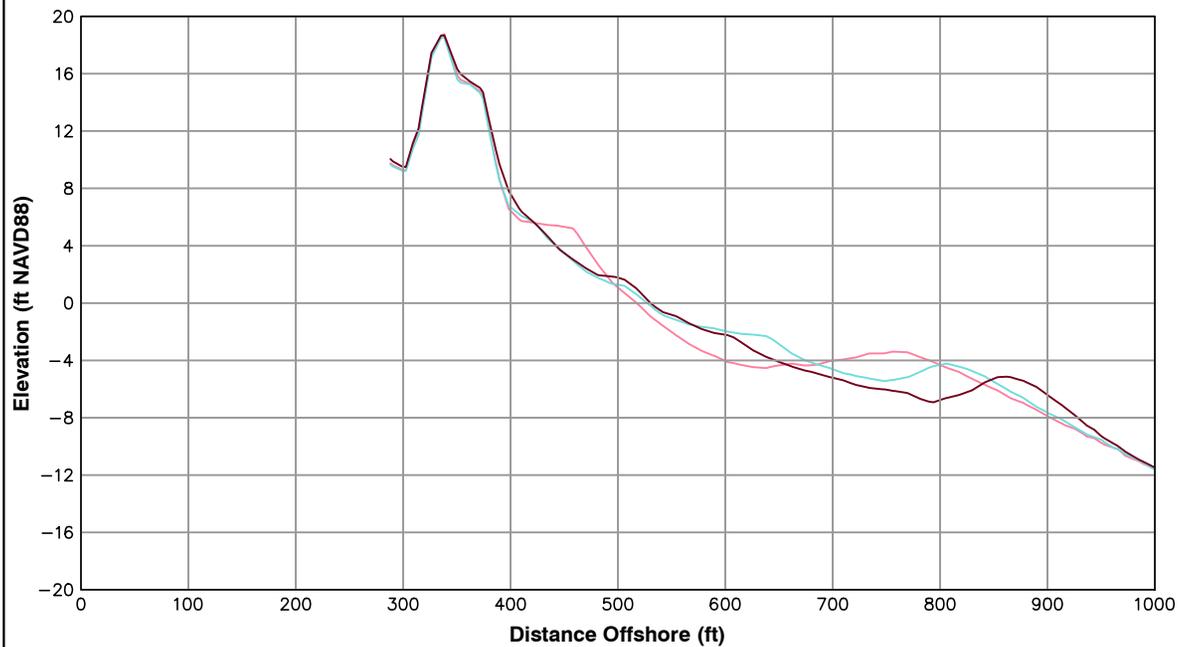
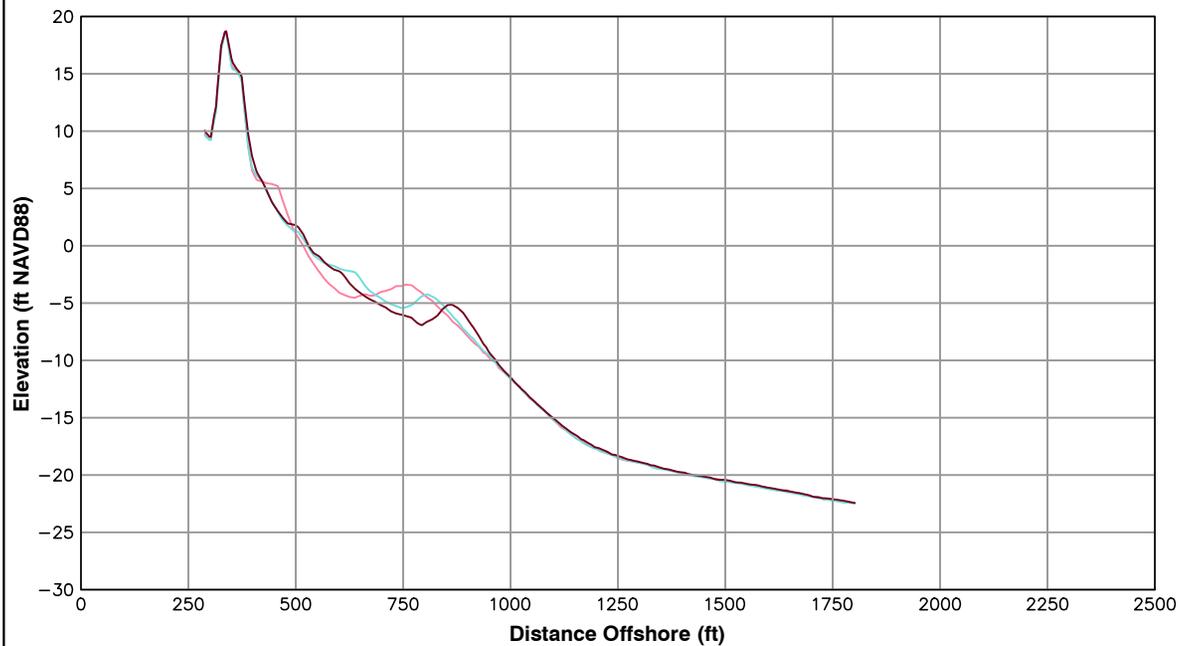
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>

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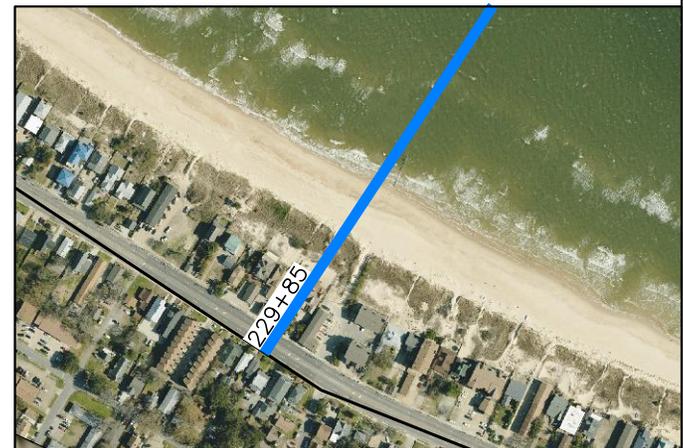
Survey Transect 229+85	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	16.70 ft/yr	7.58 ft
Volume Change Above -15 ft NAVD88	-0.51 cy/ft/yr	-2.59 cy/ft
Volume Change Above 0 ft NAVD88	0.02 cy/ft/yr	3.19 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>

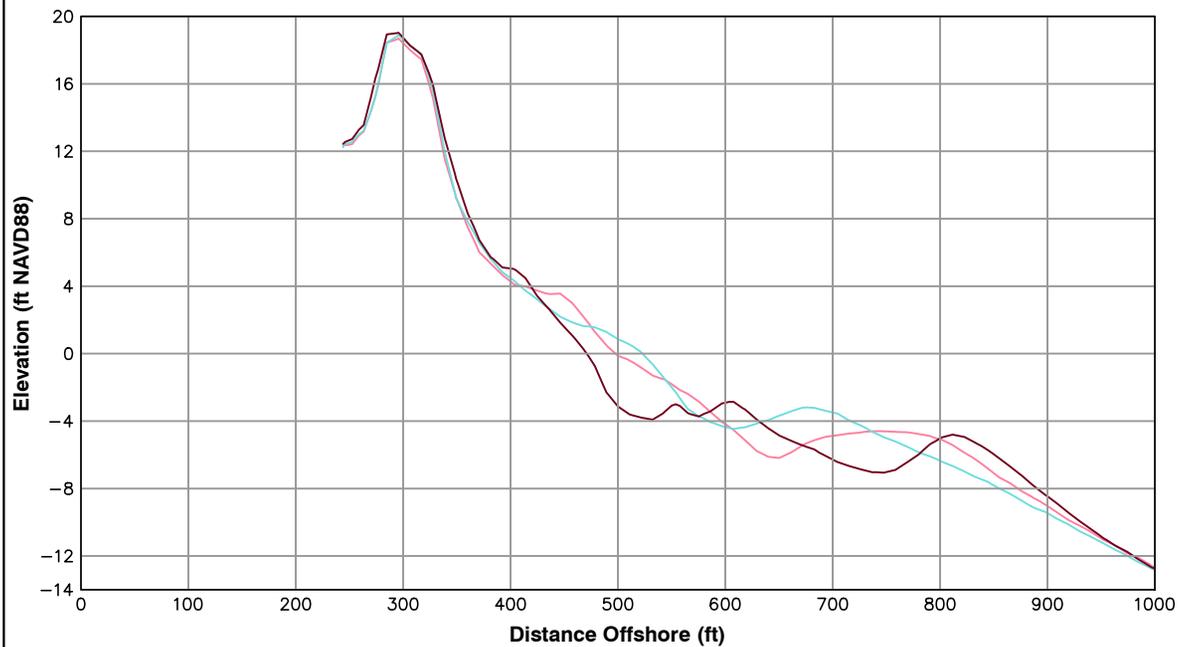
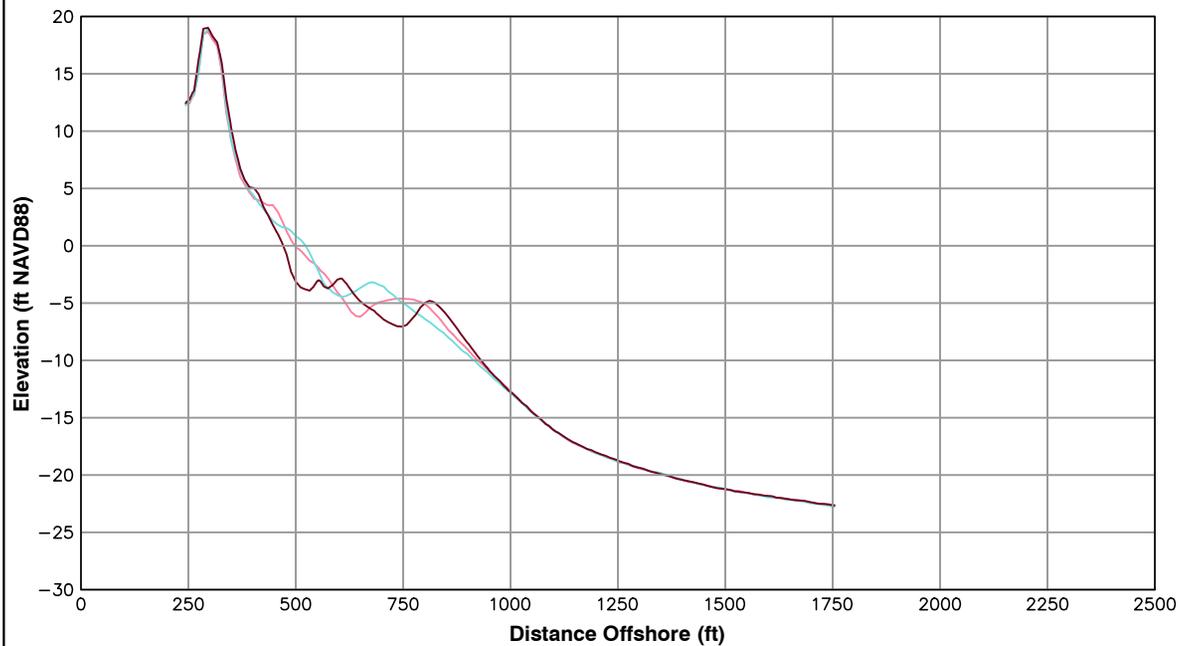
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**City of  
Norfolk**

**OCEAN VIEW PERIODIC  
SURVEYING DATA &  
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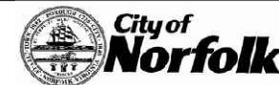
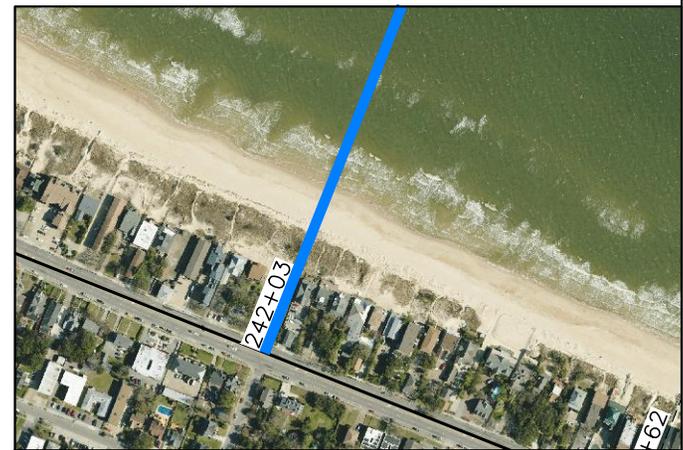
Survey Transect 242+03	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-24.72 ft/yr	-38.25 ft
Volume Change Above -15 ft NAVD88	-6.81 cy/ft/yr	-7.70 cy/ft
Volume Change Above 0 ft NAVD88	0.66 cy/ft/yr	0.17 cy/ft

**LEGEND:**

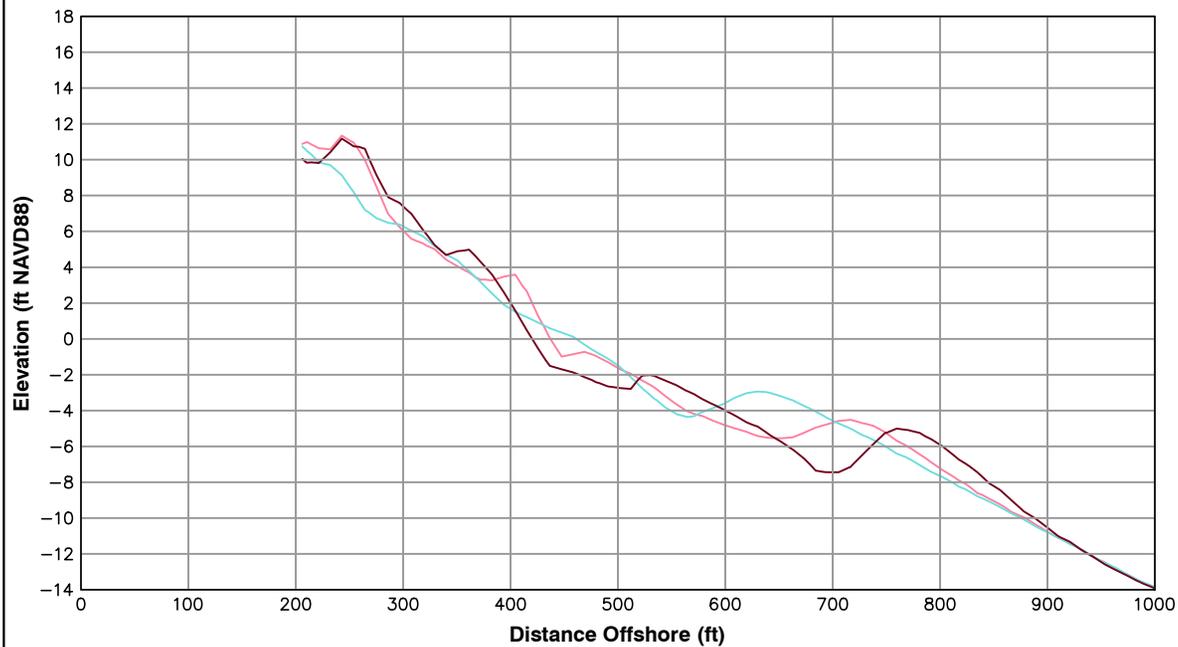
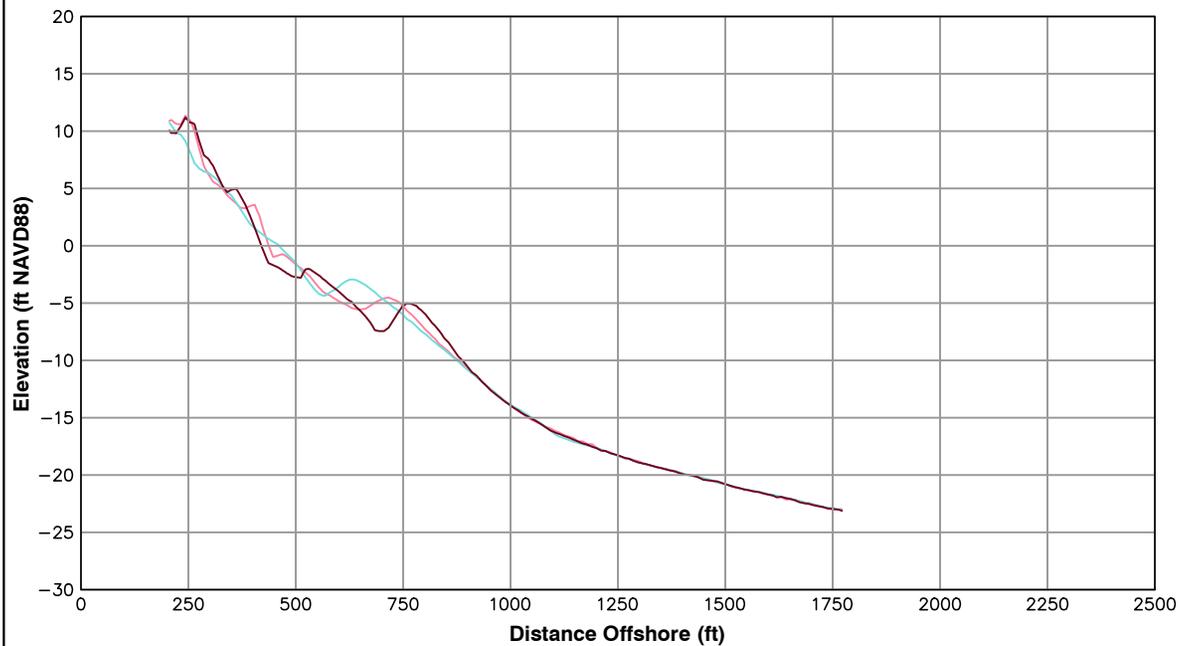
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2013 OCT	<span style="color: cyan;">—</span>
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SURVEYING DATA &  
ANALYSIS**



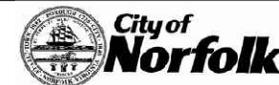
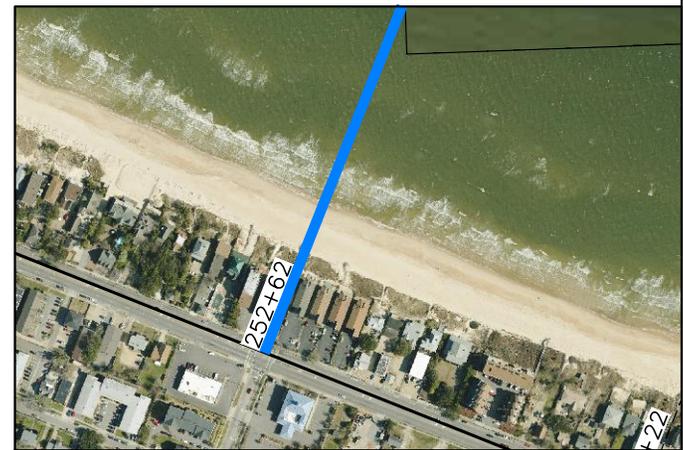
Survey Transect 252+62	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-18.79 ft/yr	-13.01 ft
Volume Change Above -15 ft NAVD88	-1.61 cy/ft/yr	-0.03 cy/ft
Volume Change Above 0 ft NAVD88	0.38 cy/ft/yr	6.52 cy/ft

**LEGEND:**

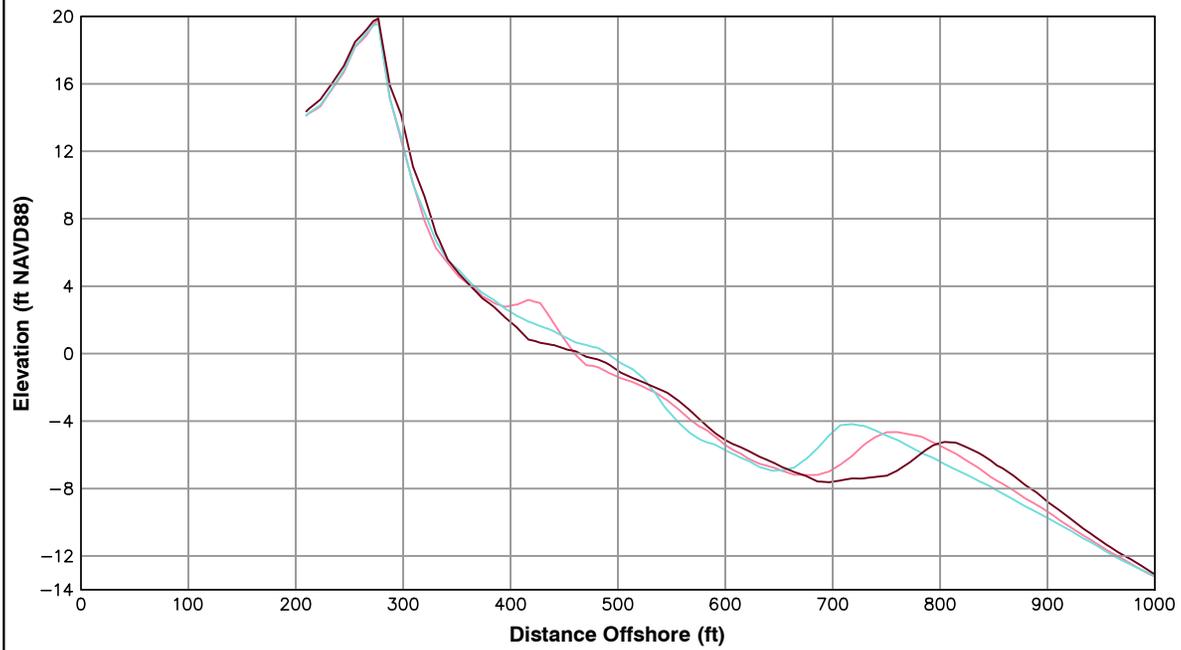
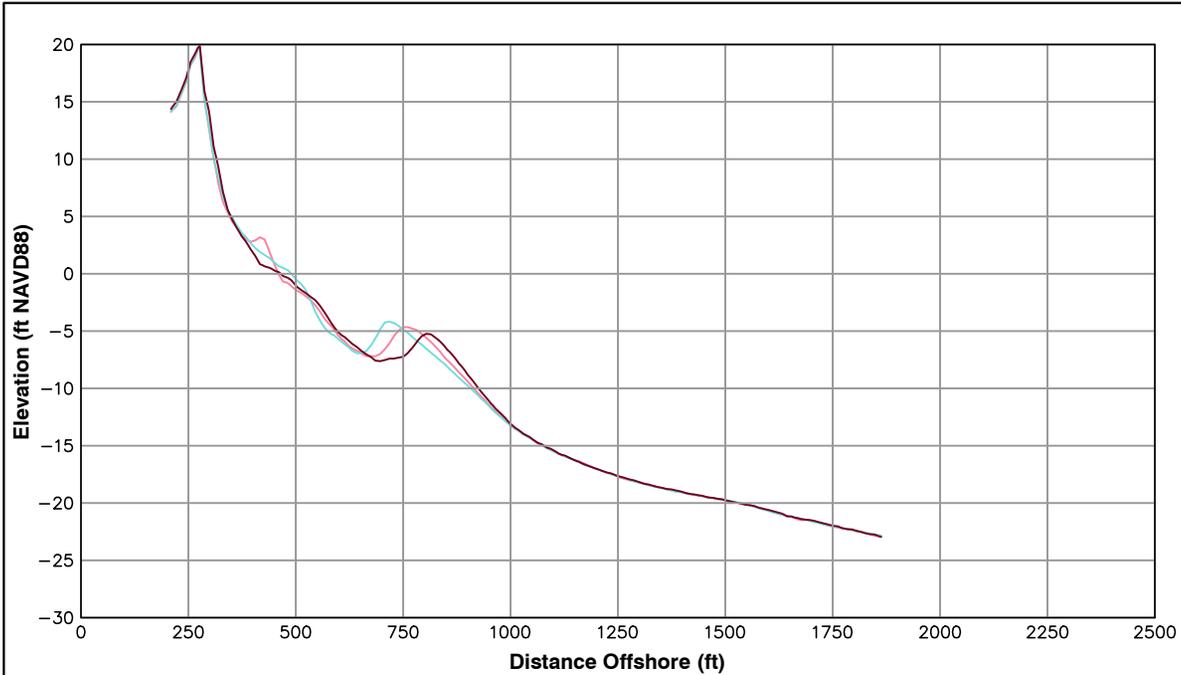
2014 MAR	—
2013 OCT	—
2013 APR	—

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**OCEAN VIEW PERIODIC  
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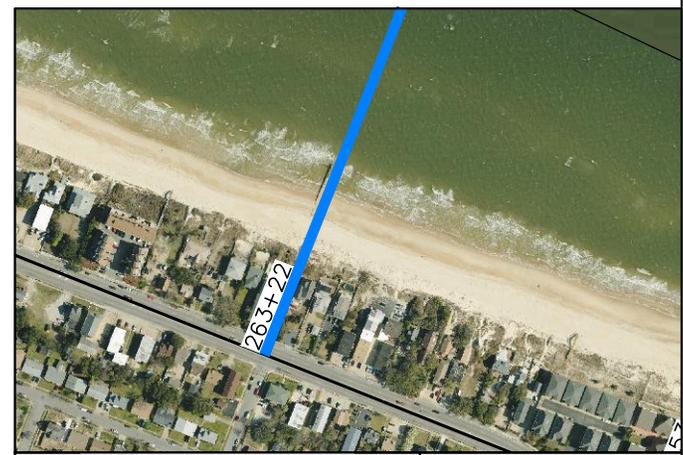


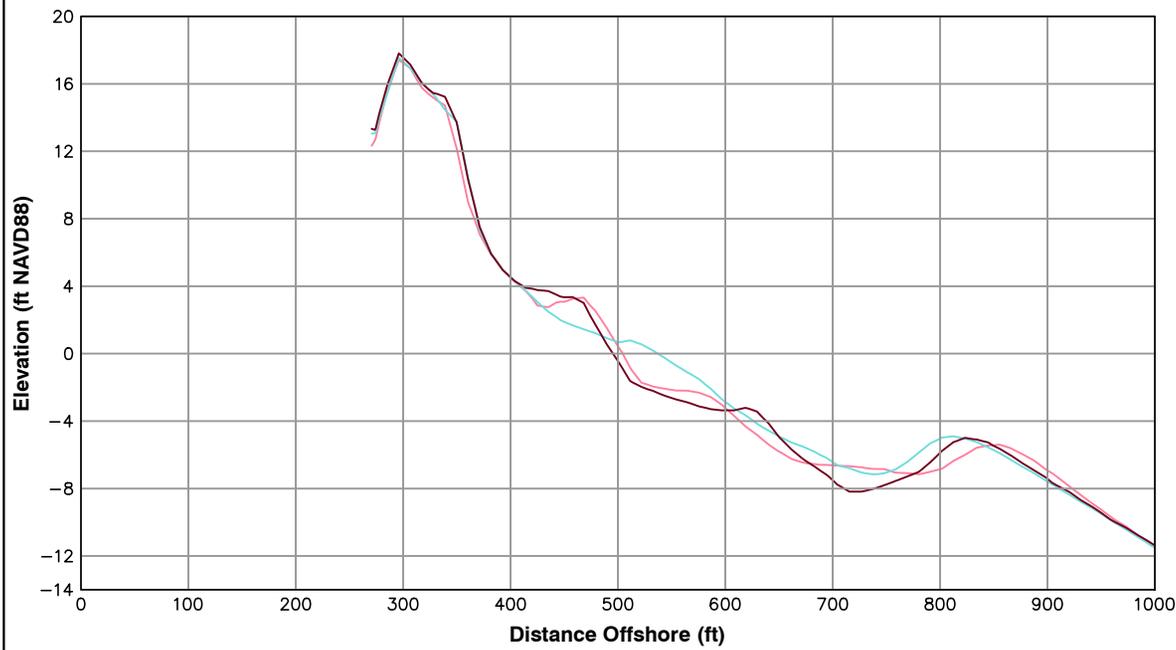
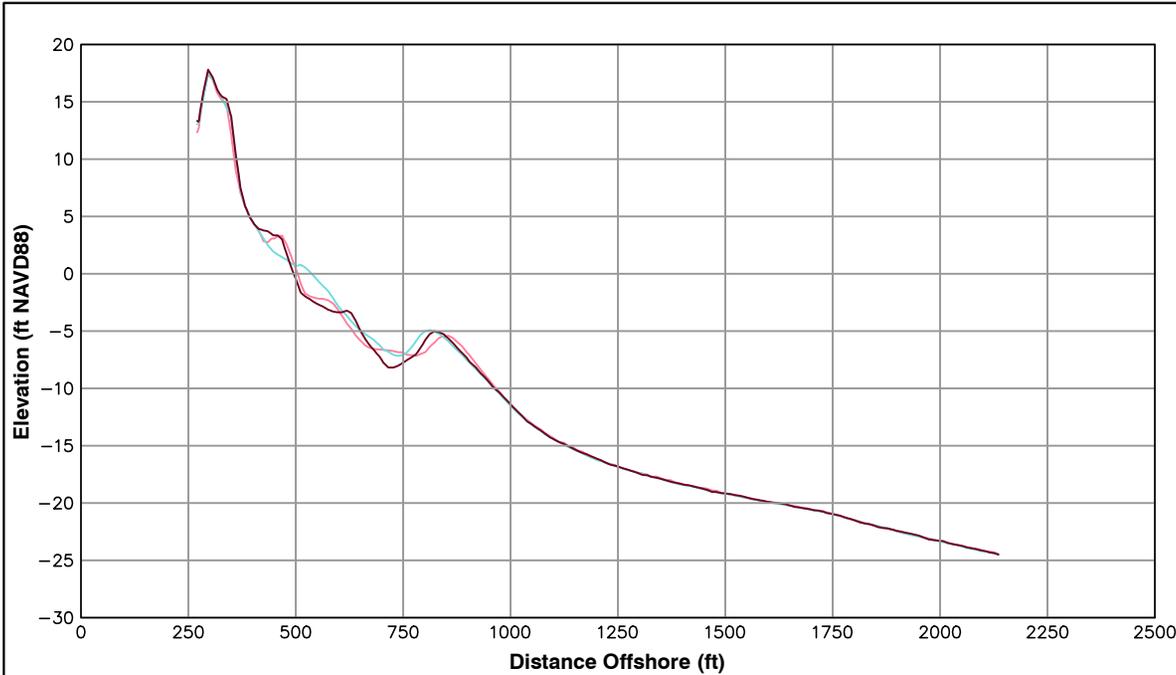
Survey Transect 263+22	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-35.51 ft/yr	-36.13 ft
Volume Change Above -15 ft NAVD88	0.64 cy/ft/yr	0.58 cy/ft
Volume Change Above 0 ft NAVD88	-0.44 cy/ft/yr	-0.36 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—

- Notes:
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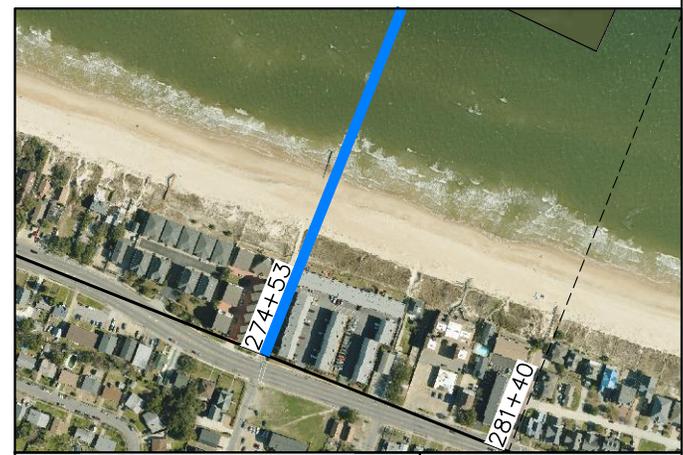


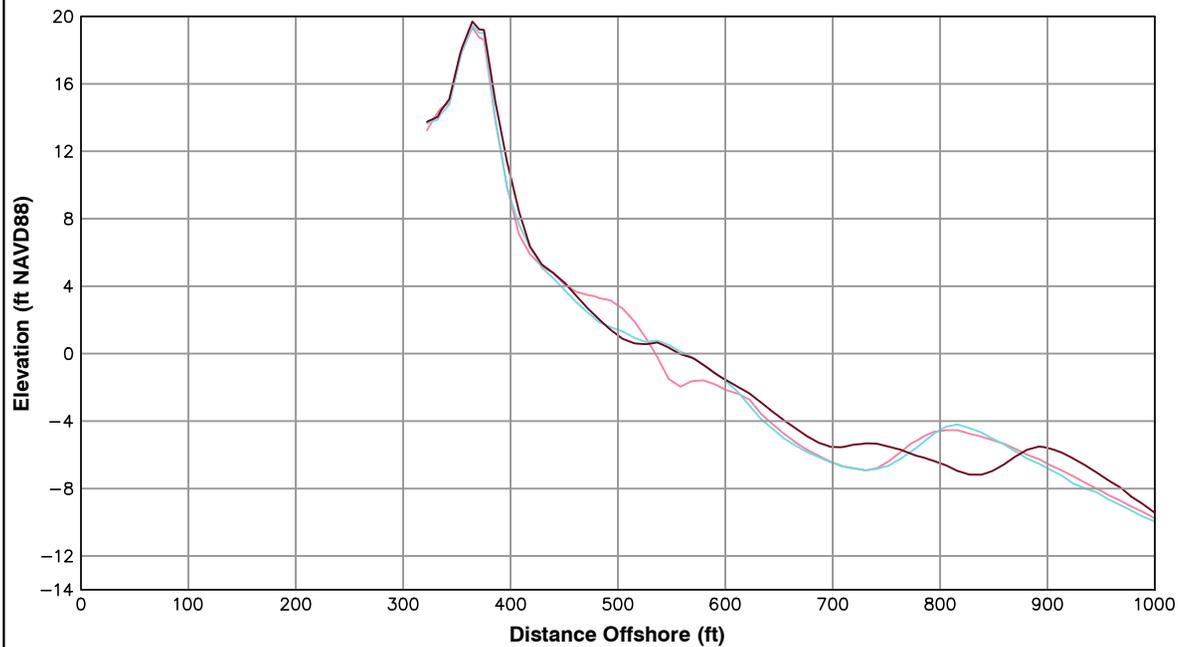
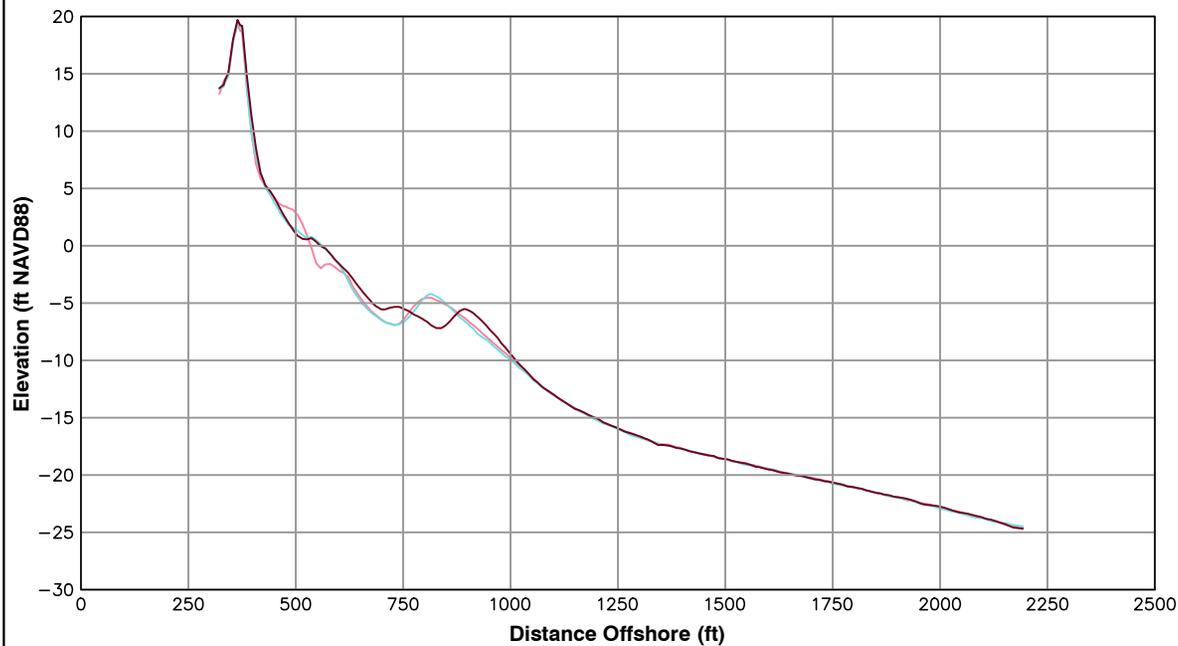
Survey Transect 274+53	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-9.39 ft/yr	-1.66 ft
Volume Change Above -15 ft NAVD88	-0.60 cy/ft/yr	-7.15 cy/ft
Volume Change Above 0 ft NAVD88	2.47 cy/ft/yr	2.65 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———

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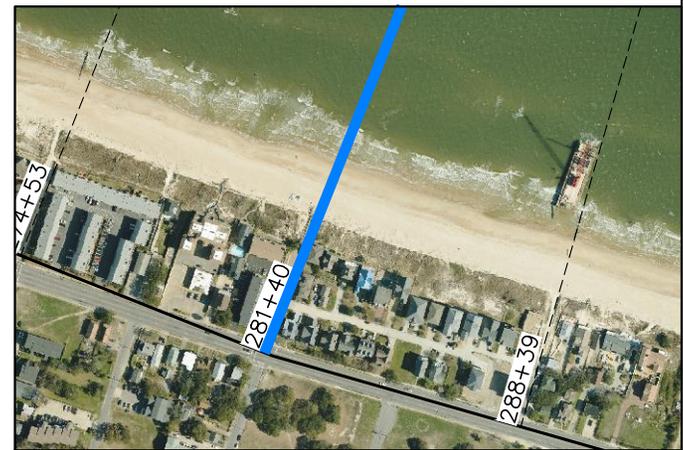
Survey Transect 281+40	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-23.71 ft/yr	-11.88 ft
Volume Change Above -15 ft NAVD88	5.46 cy/ft/yr	7.03 cy/ft
Volume Change Above 0 ft NAVD88	-0.21 cy/ft/yr	1.91 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—

**Notes:**

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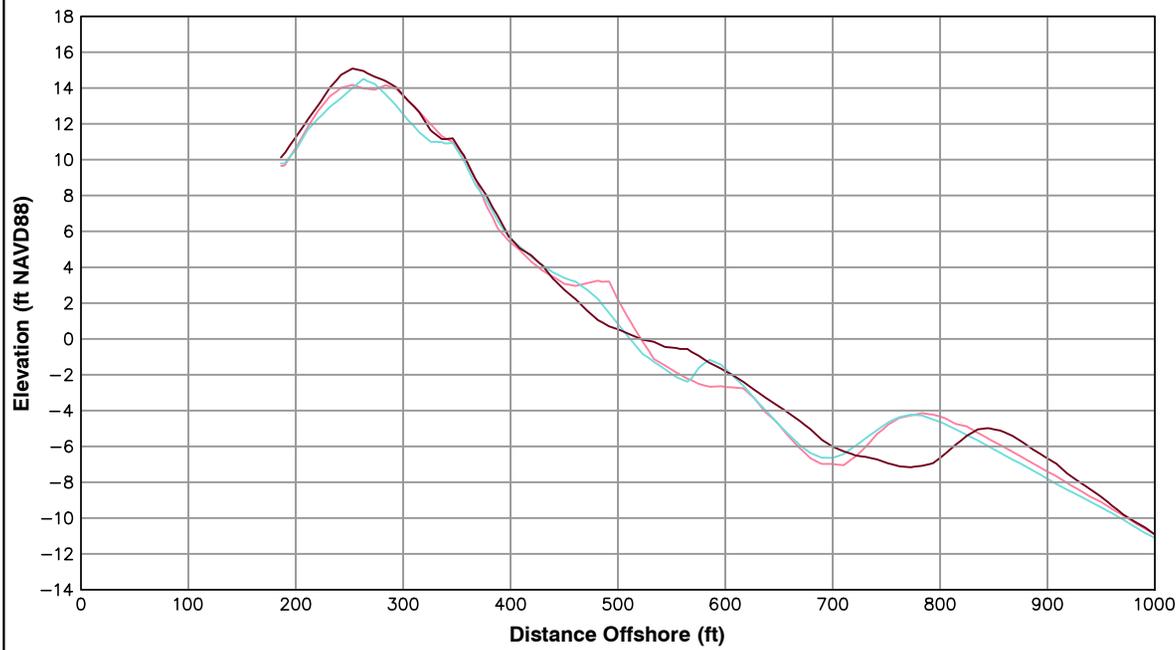
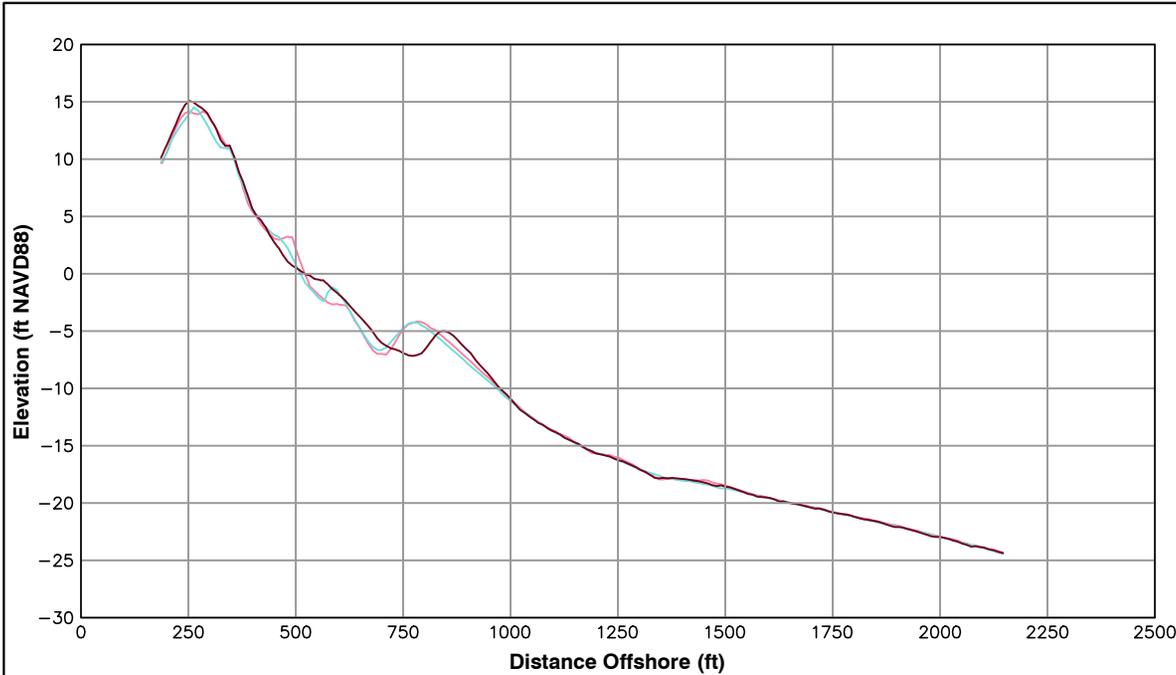


**OCEAN VIEW PERIODIC  
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ST 281+40

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Spring 2014

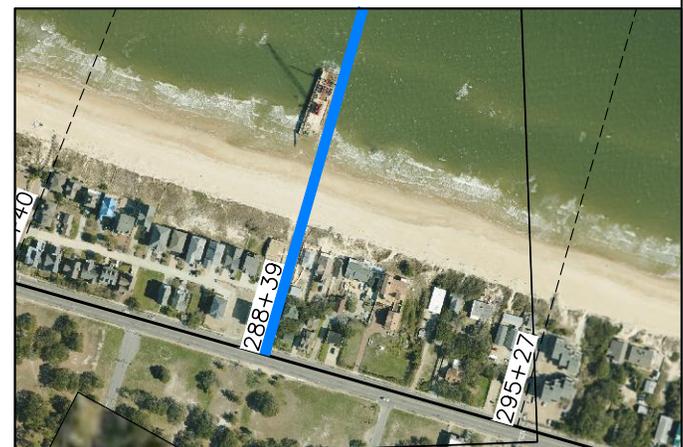


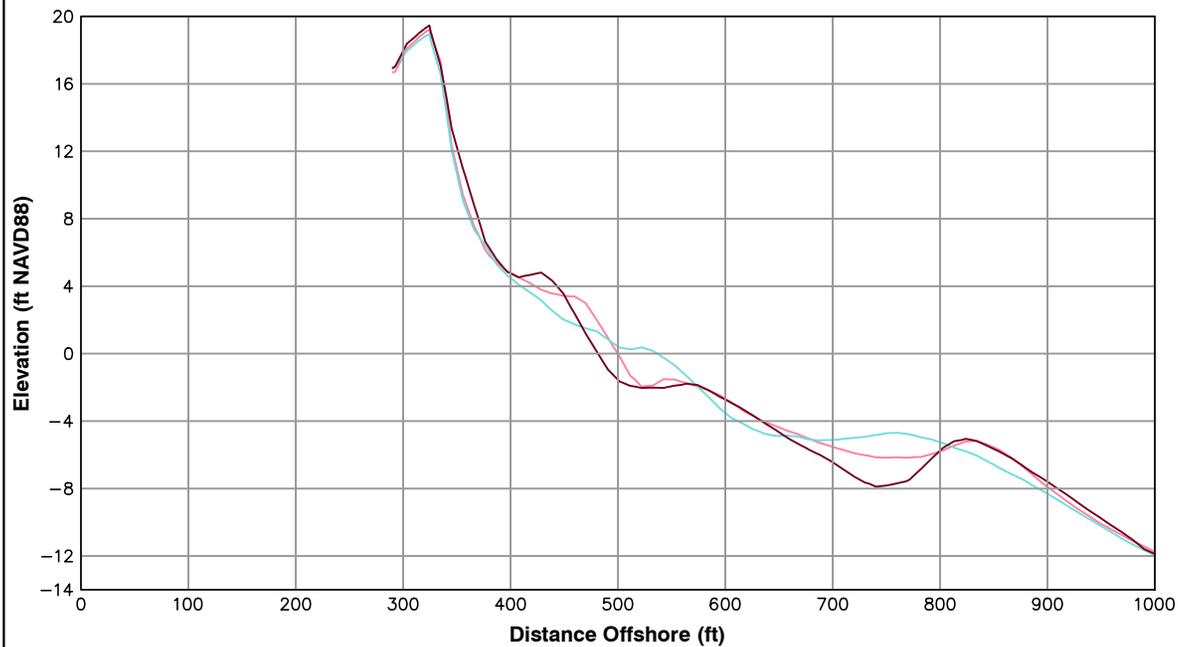
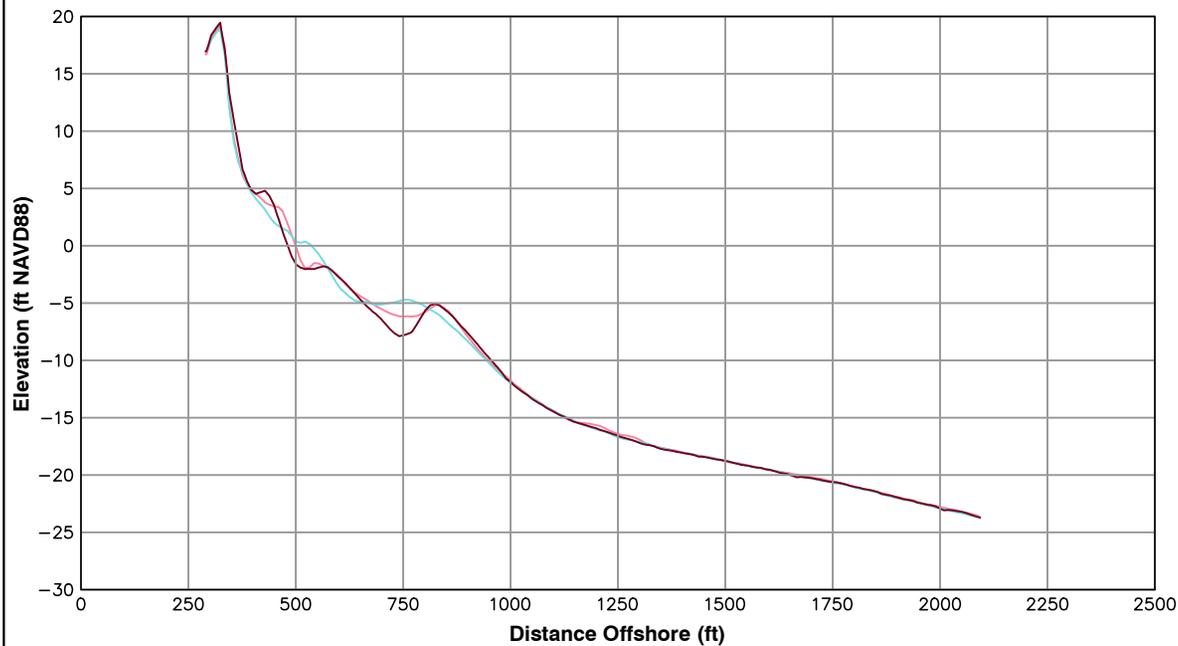
Survey Transect 288+39	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-28.92 ft/yr	-14.40 ft
Volume Change Above -15 ft NAVD88	2.24 cy/ft/yr	6.65 cy/ft
Volume Change Above 0 ft NAVD88	-0.62 cy/ft/yr	3.10 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———

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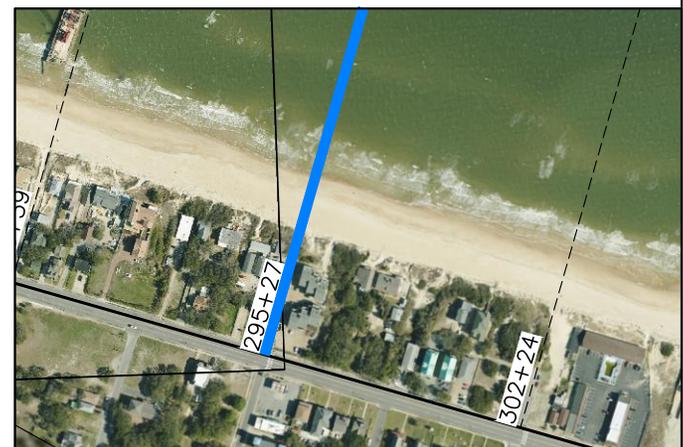


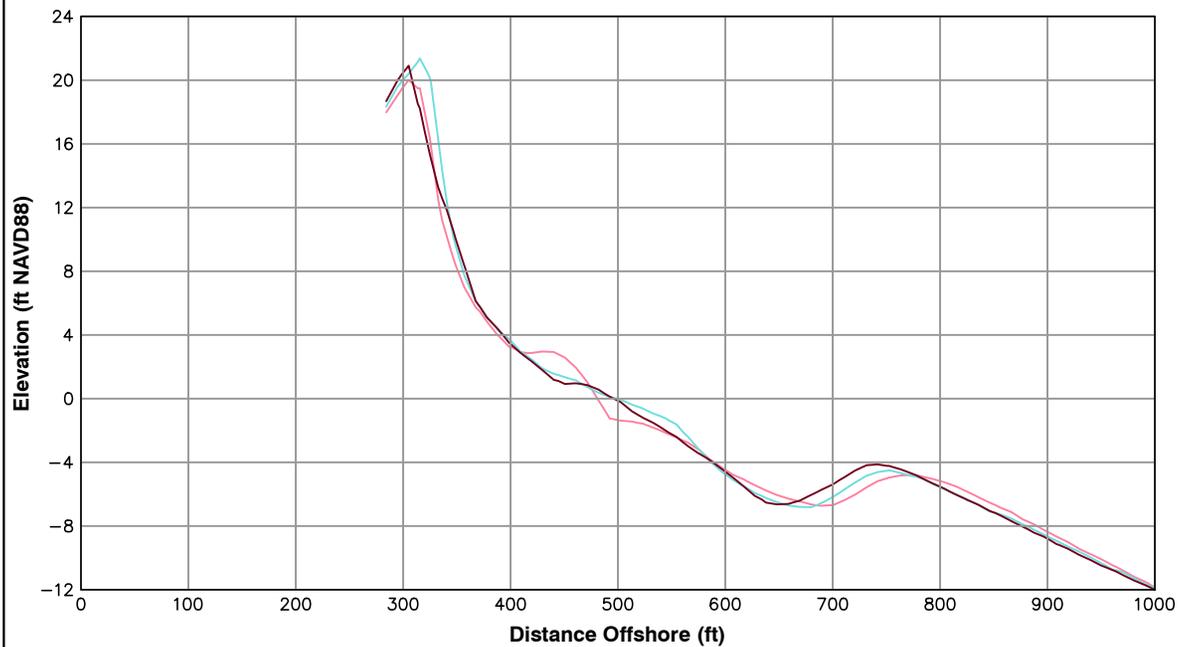
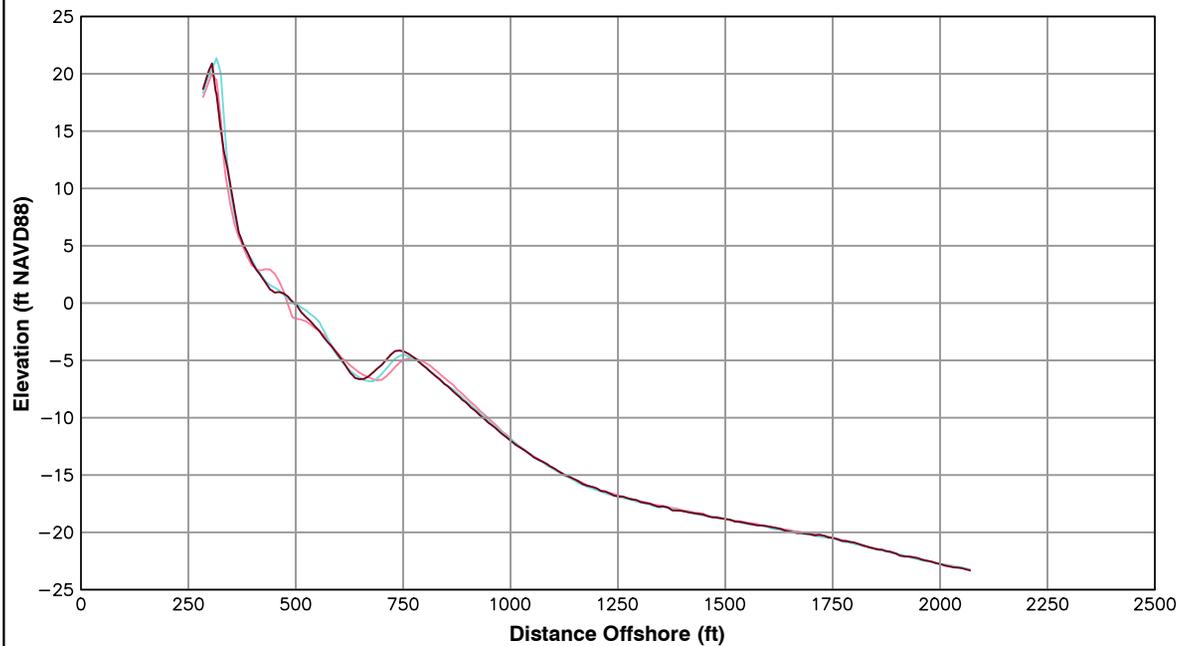
Survey Transect 295+27	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-19.02 ft/yr	-15.70 ft
Volume Change Above -15 ft NAVD88	-5.99 cy/ft/yr	-4.22 cy/ft
Volume Change Above 0 ft NAVD88	0.80 cy/ft/yr	4.18 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———

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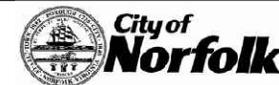
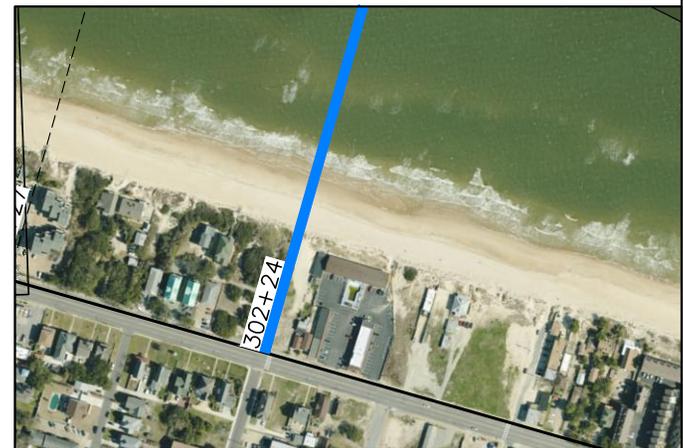
Survey Transect 302+24	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-24.07 ft/yr	-16.39 ft
Volume Change Above -15 ft NAVD88	0.71 cy/ft/yr	-3.36 cy/ft
Volume Change Above 0 ft NAVD88	0.11 cy/ft/yr	-3.42 cy/ft

**LEGEND:**

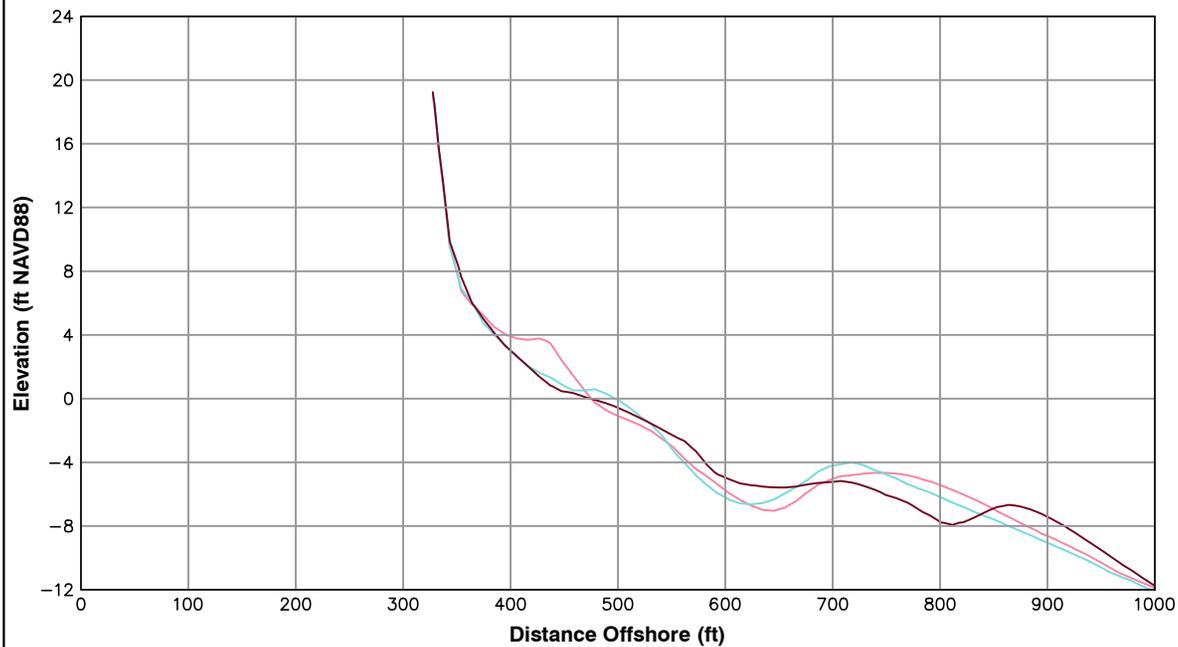
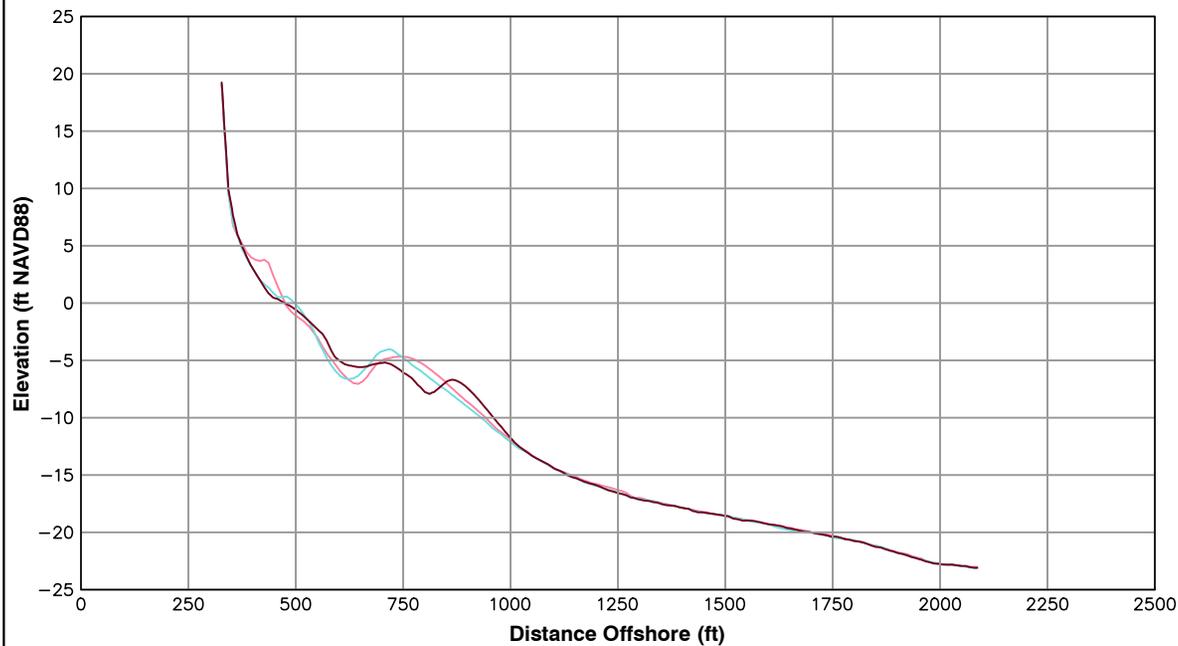
2014 MAR	<span style="color: darkred;">—</span>
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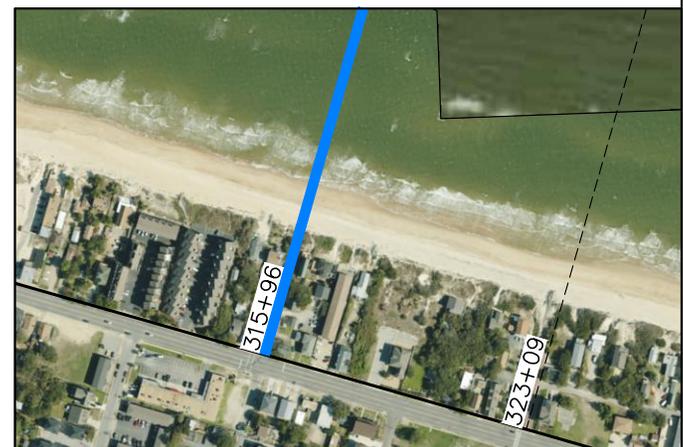


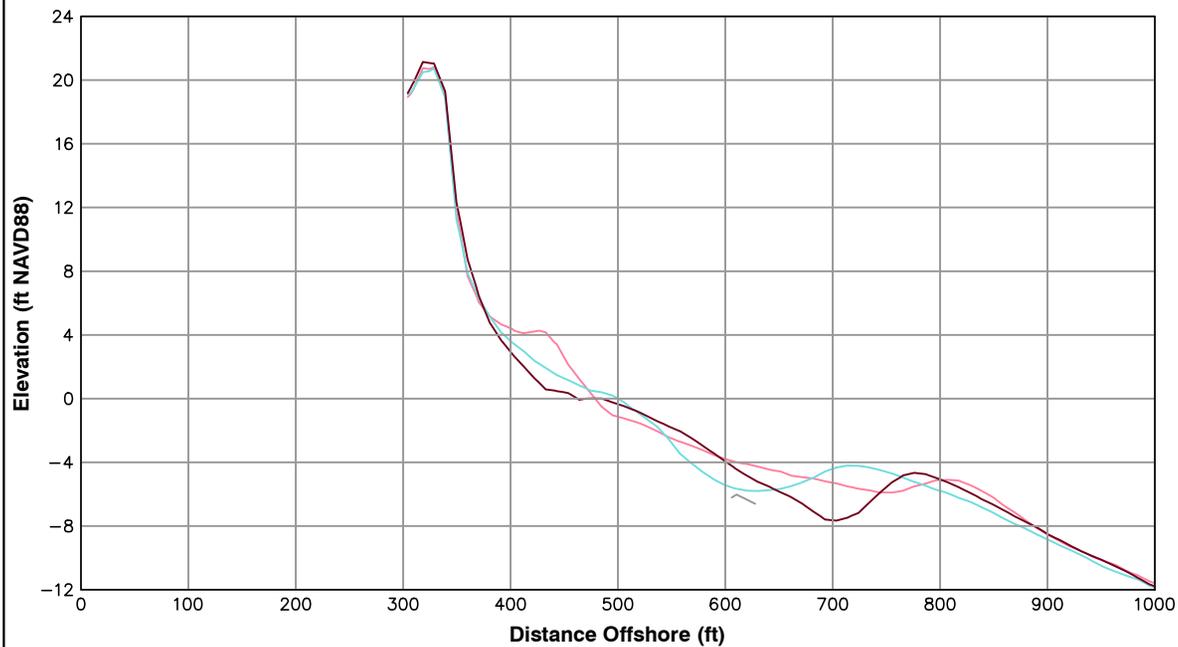
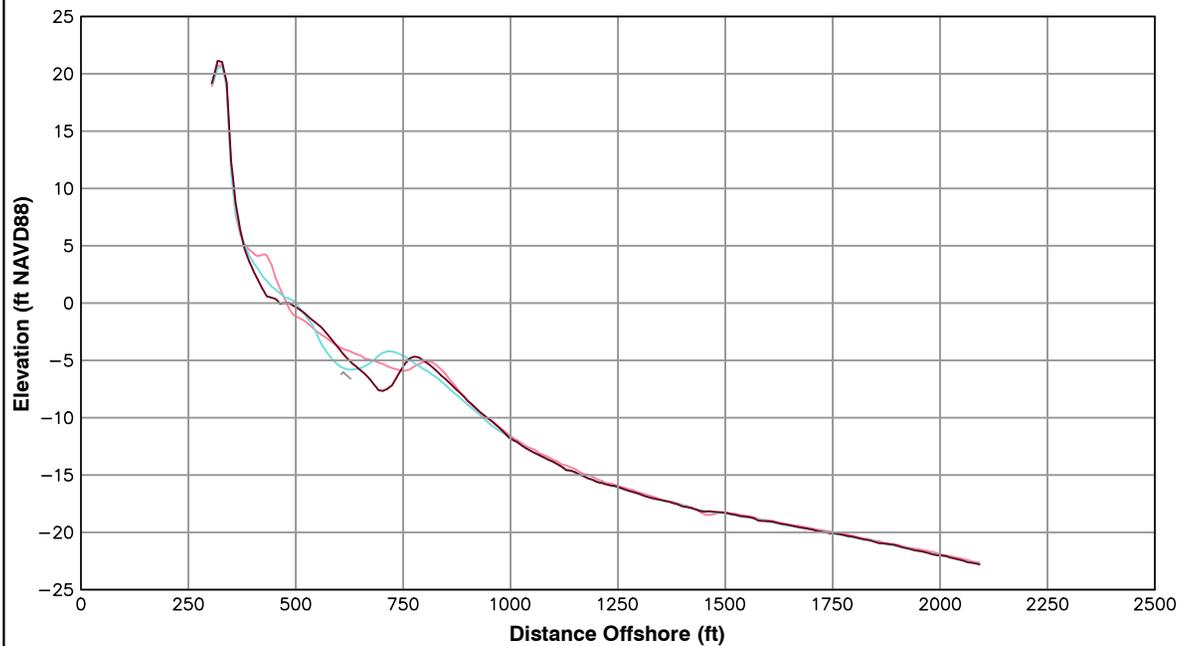
Survey Transect 315+96	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-30.48 ft/yr	-11.25 ft
Volume Change Above -15 ft NAVD88	-0.98 cy/ft/yr	4.22 cy/ft
Volume Change Above 0 ft NAVD88	-4.47 cy/ft/yr	-0.39 cy/ft

**LEGEND:**

- 2014 MAR —
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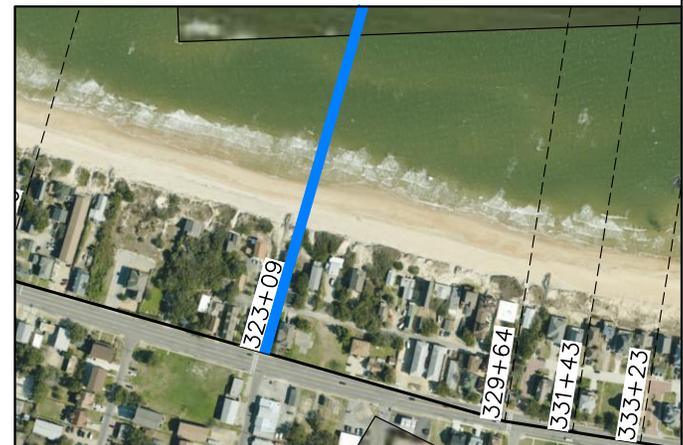
Survey Transect 323+09	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-41.56 ft/yr	-32.46 ft
Volume Change Above -15 ft NAVD88	-12.13 cy/ft/yr	-1.83 cy/ft
Volume Change Above 0 ft NAVD88	-5.78 cy/ft/yr	-1.92 cy/ft

**LEGEND:**

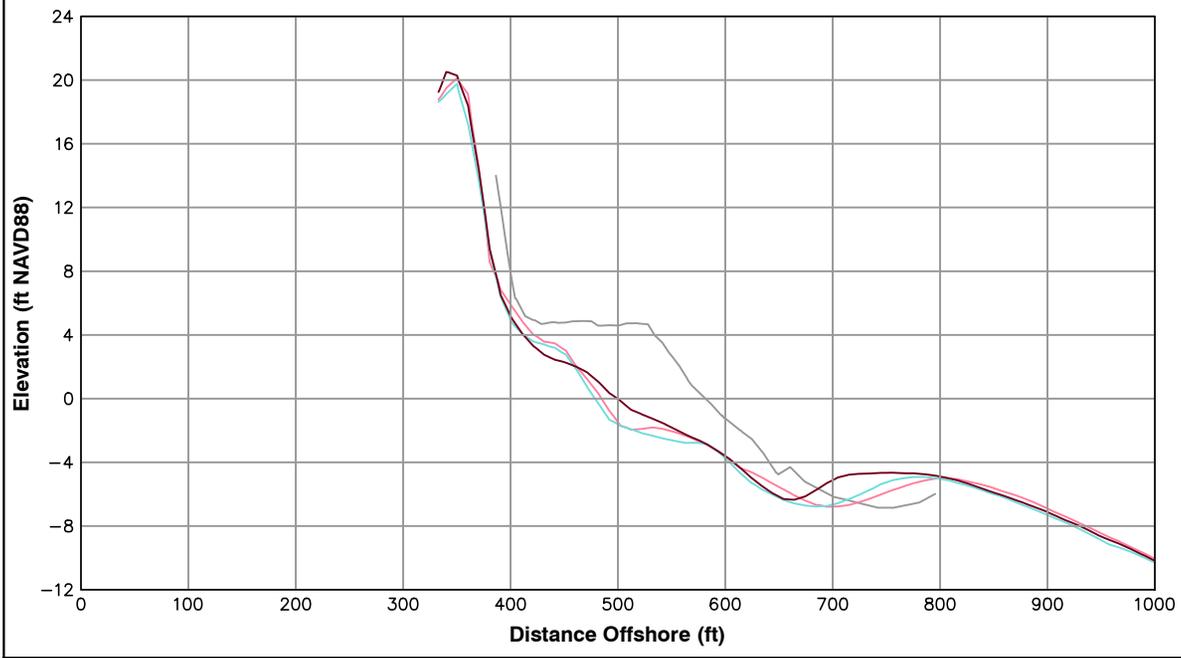
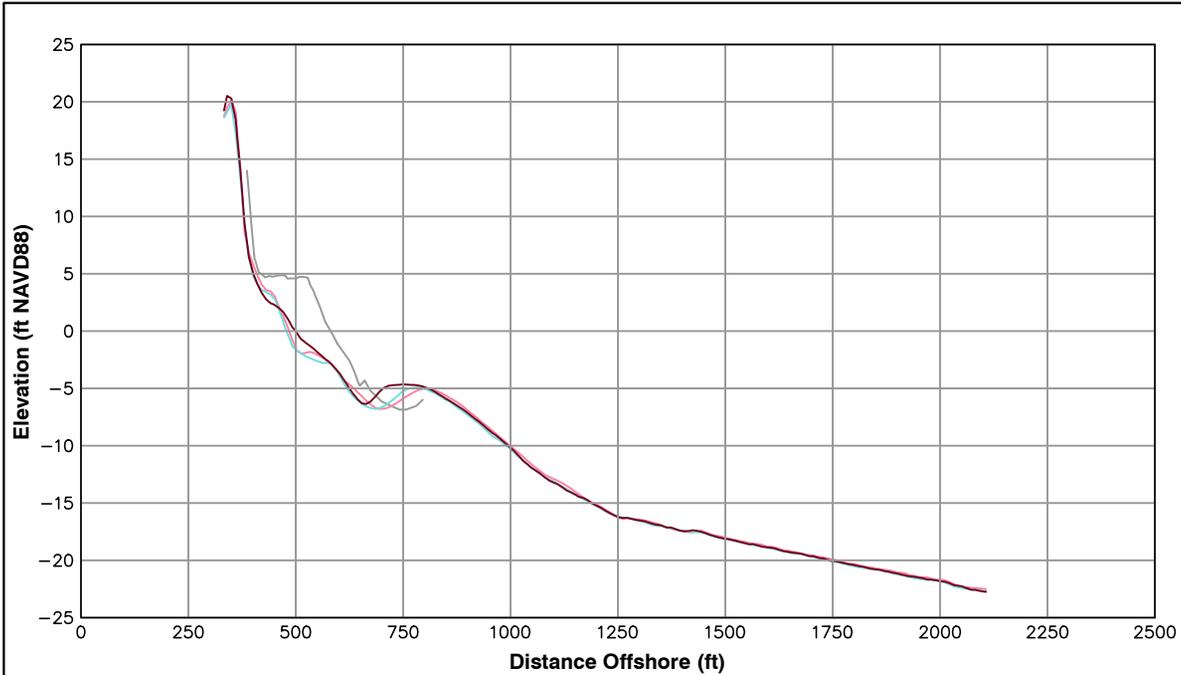
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2013 OCT	<span style="color: cyan;">—</span>
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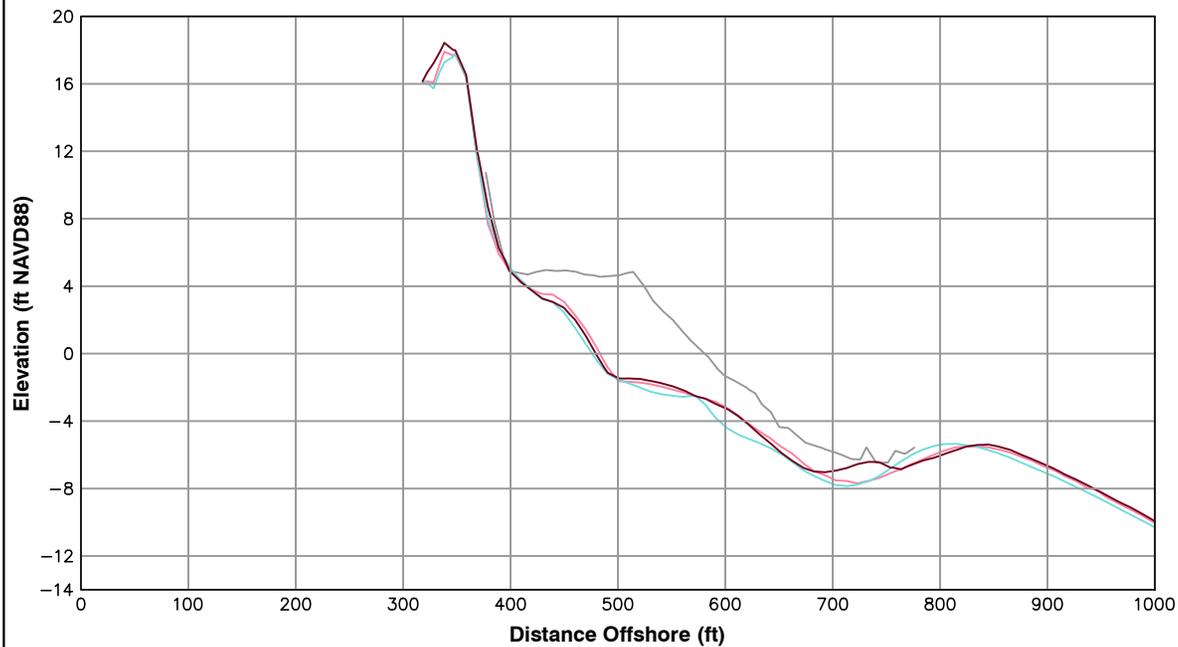
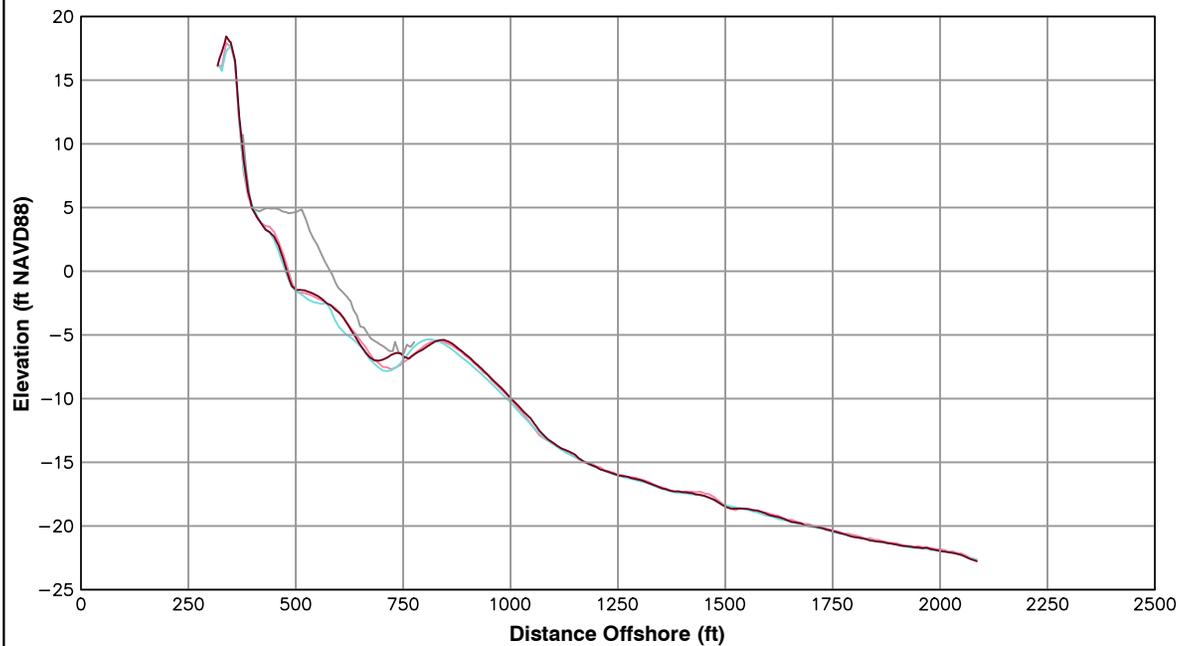
Survey Transect 329+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	9.03 ft/yr	13.76 ft
Volume Change Above -15 ft NAVD88	2.67 cy/ft/yr	10.94 cy/ft
Volume Change Above 0 ft NAVD88	-0.93 cy/ft/yr	1.80 cy/ft

**LEGEND:**

- 2014 MAR ———
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- POST-FILL ———

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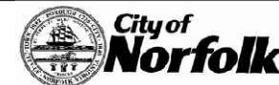
Survey Transect 331+43	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-3.79 ft/yr	4.90 ft
Volume Change Above -15 ft NAVD88	4.01 cy/ft/yr	10.13 cy/ft
Volume Change Above 0 ft NAVD88	0.73 cy/ft/yr	1.90 cy/ft

**LEGEND:**

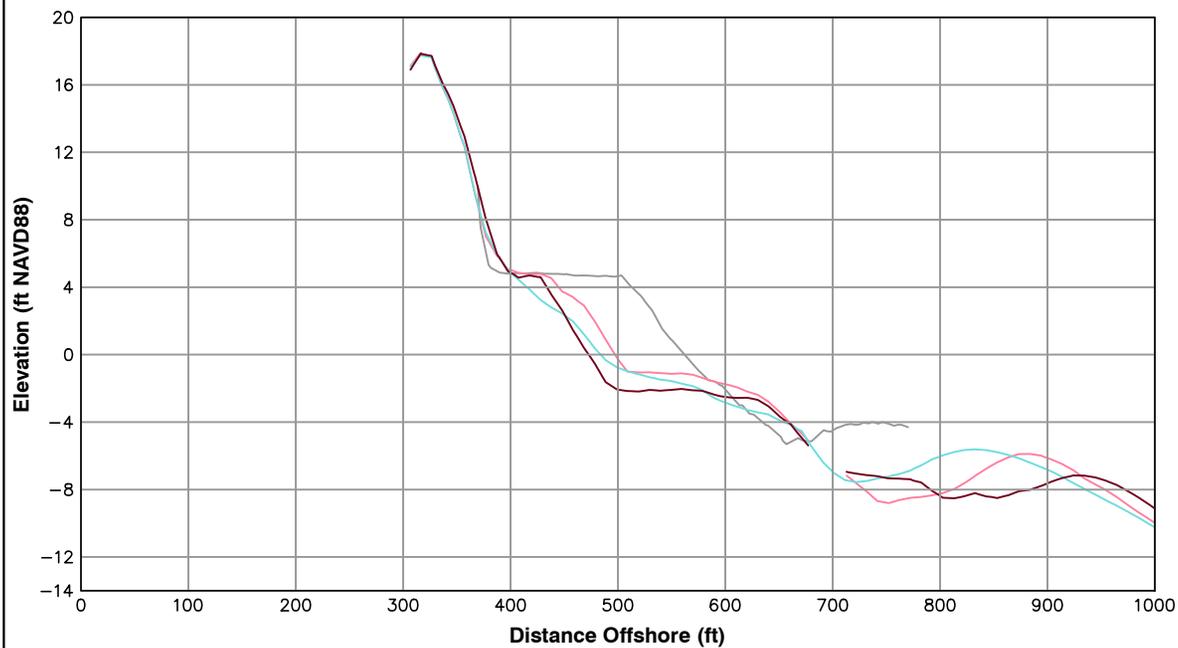
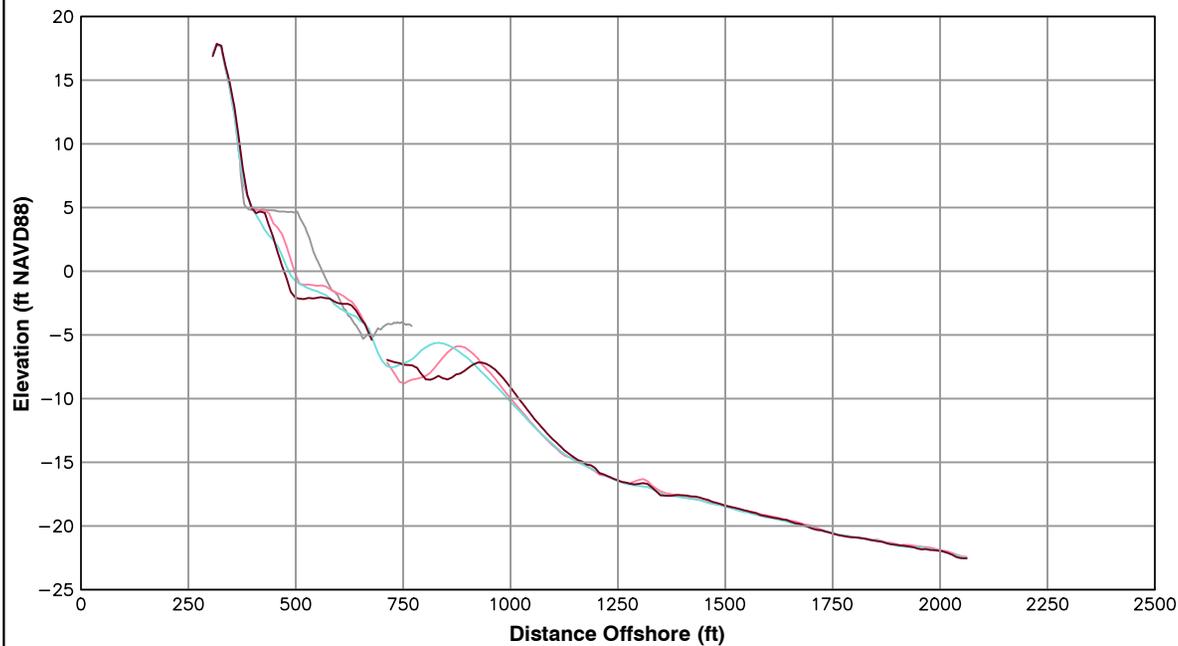
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
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Survey Transect 333+23	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-25.79 ft/yr	-8.36 ft
Volume Change Above -15 ft NAVD88	-7.41 cy/ft/yr	-3.66 cy/ft
Volume Change Above 0 ft NAVD88	-2.61 cy/ft/yr	1.78 cy/ft

**LEGEND:**

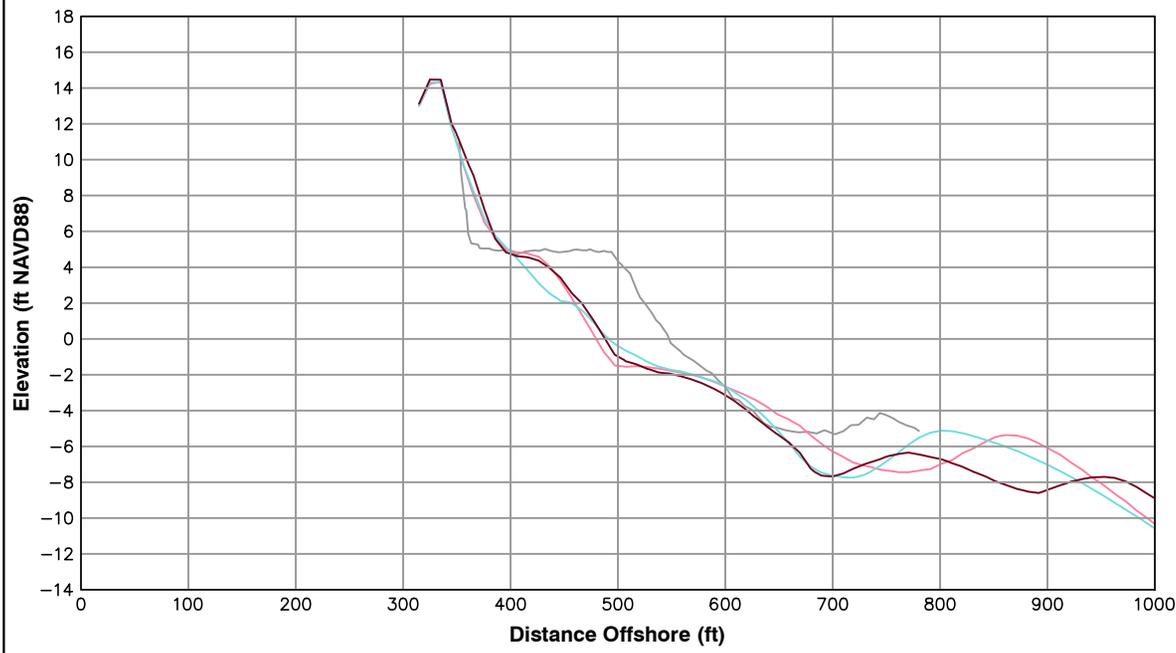
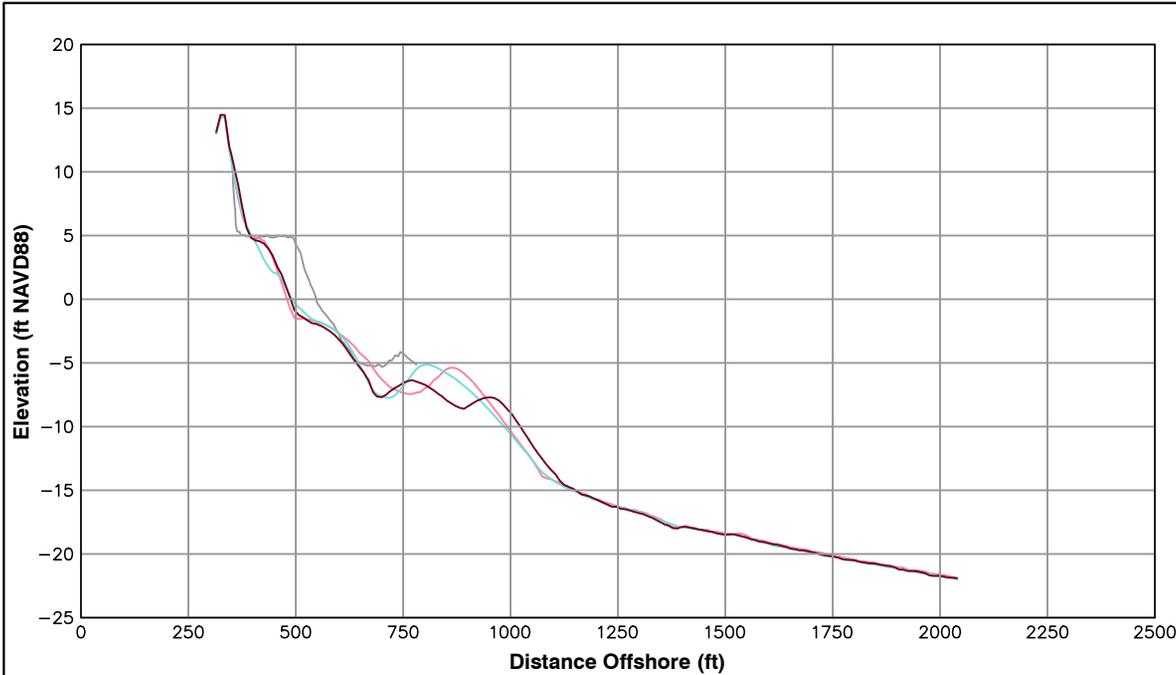
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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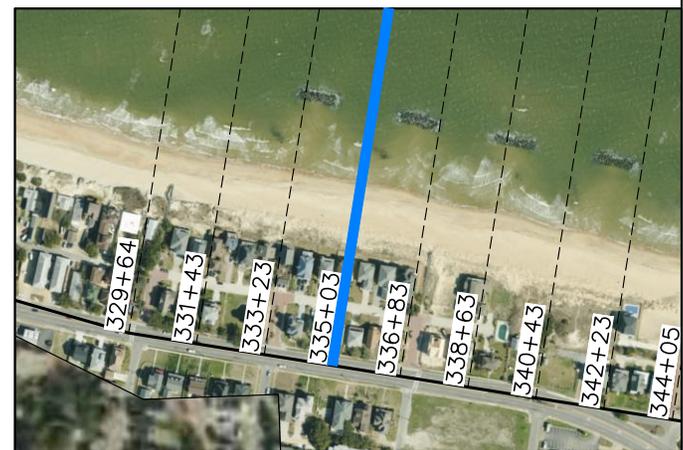


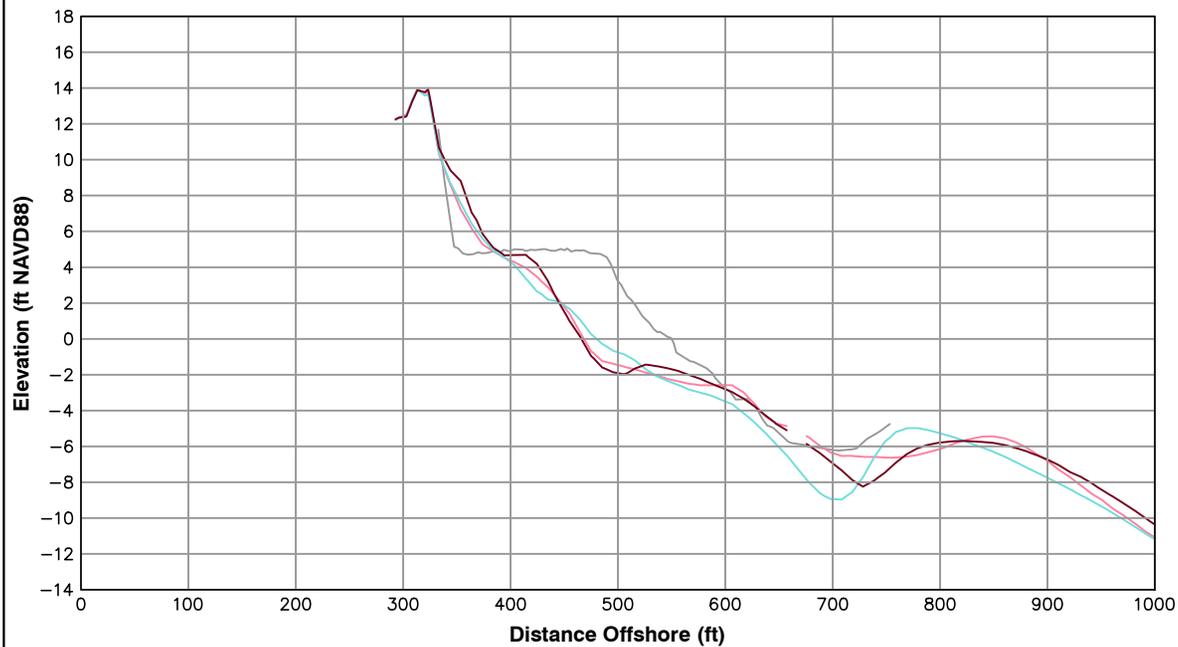
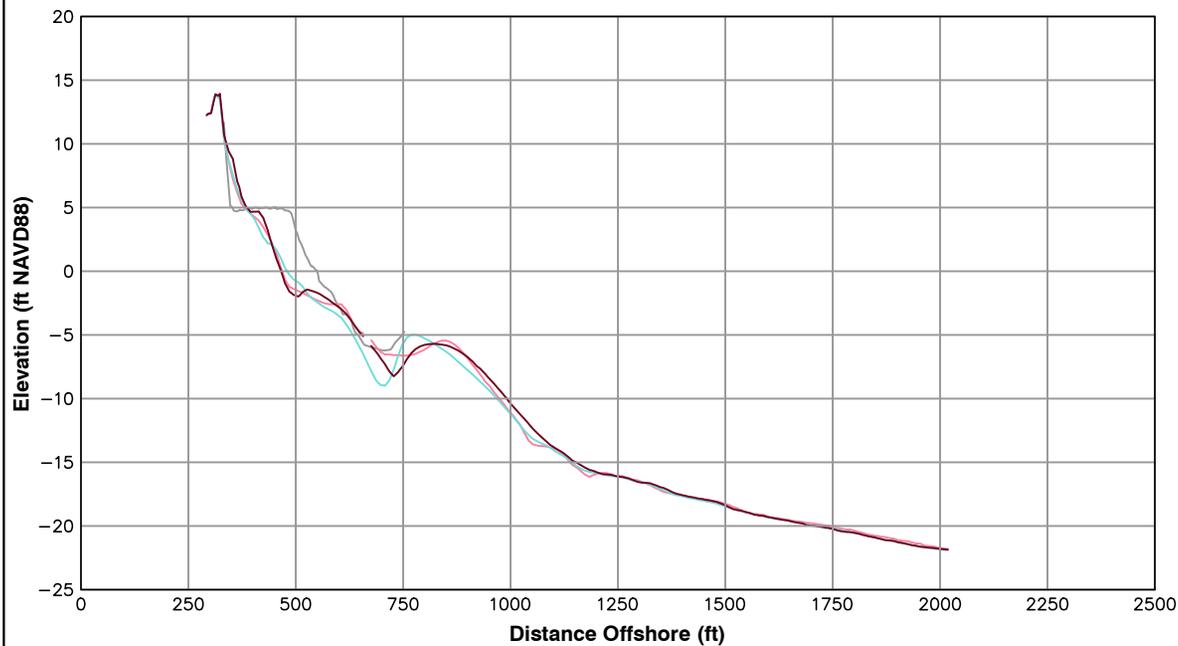
Survey Transect 335+03	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	7.96 ft/yr	1.49 ft
Volume Change Above -15 ft NAVD88	-3.80 cy/ft/yr	0.23 cy/ft
Volume Change Above 0 ft NAVD88	1.64 cy/ft/yr	3.02 cy/ft

**LEGEND:**

- 2014 MAR ———
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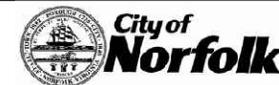
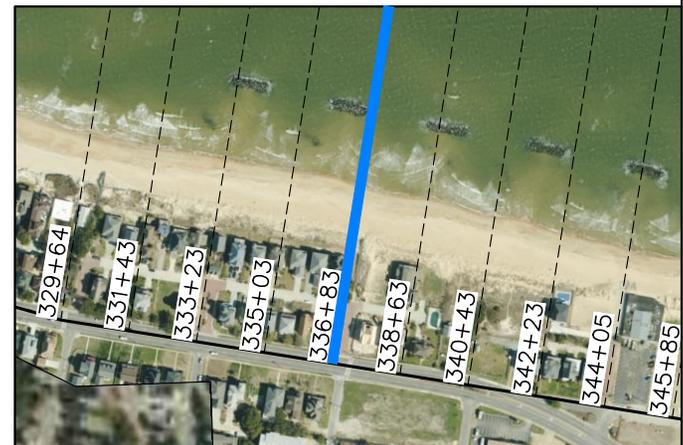
Survey Transect 336+83	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-4.03 ft/yr	-10.96 ft
Volume Change Above -15 ft NAVD88	4.92 cy/ft/yr	11.89 cy/ft
Volume Change Above 0 ft NAVD88	2.35 cy/ft/yr	2.33 cy/ft

**LEGEND:**

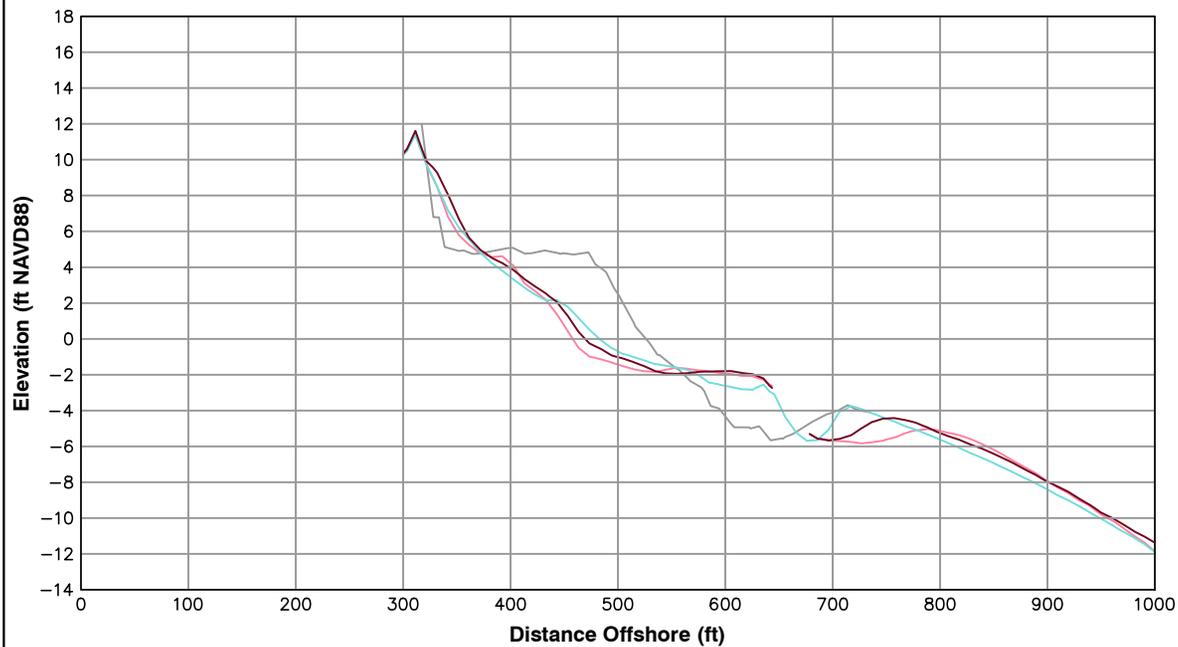
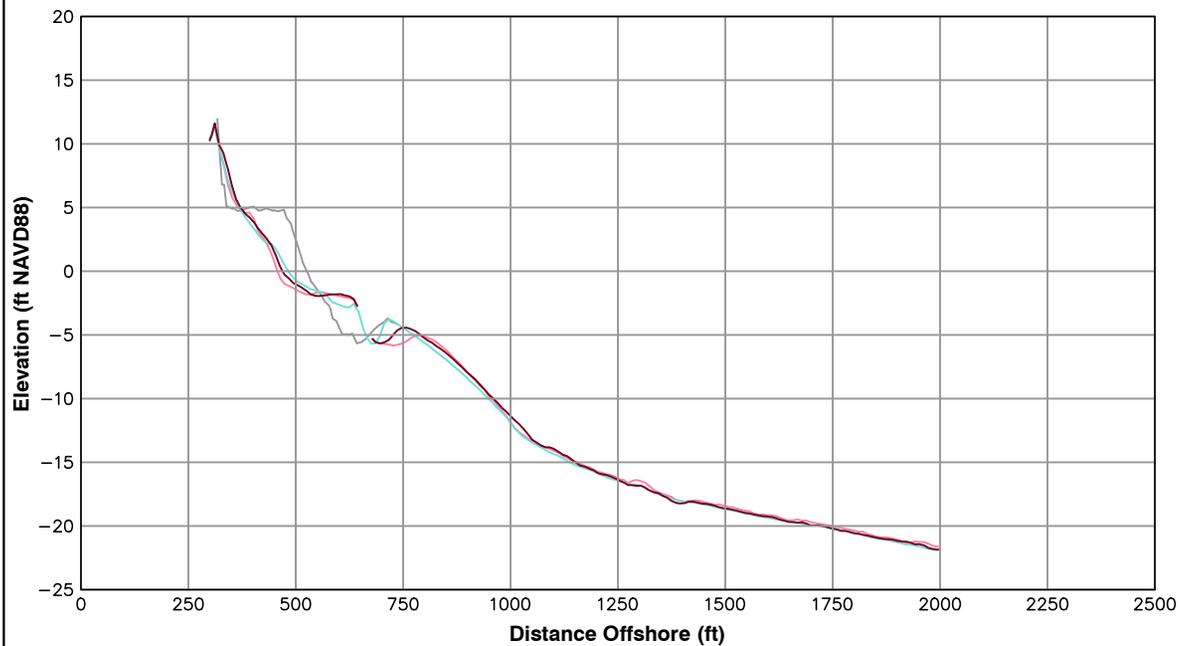
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
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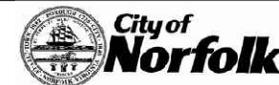
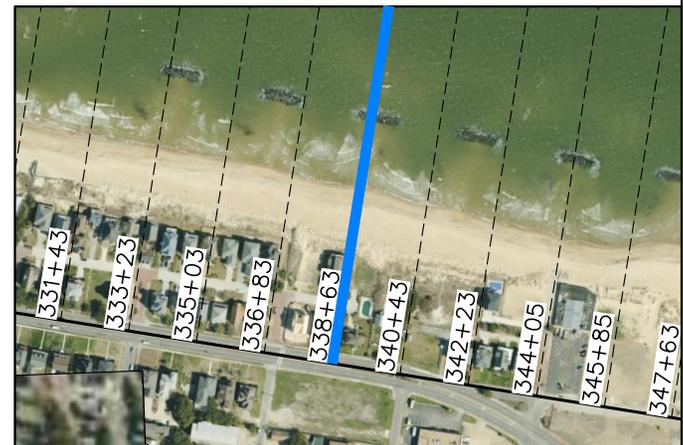
Survey Transect 338+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	9.58 ft/yr	-9.43 ft
Volume Change Above -15 ft NAVD88	6.86 cy/ft/yr	5.78 cy/ft
Volume Change Above 0 ft NAVD88	2.32 cy/ft/yr	1.29 cy/ft

**LEGEND:**

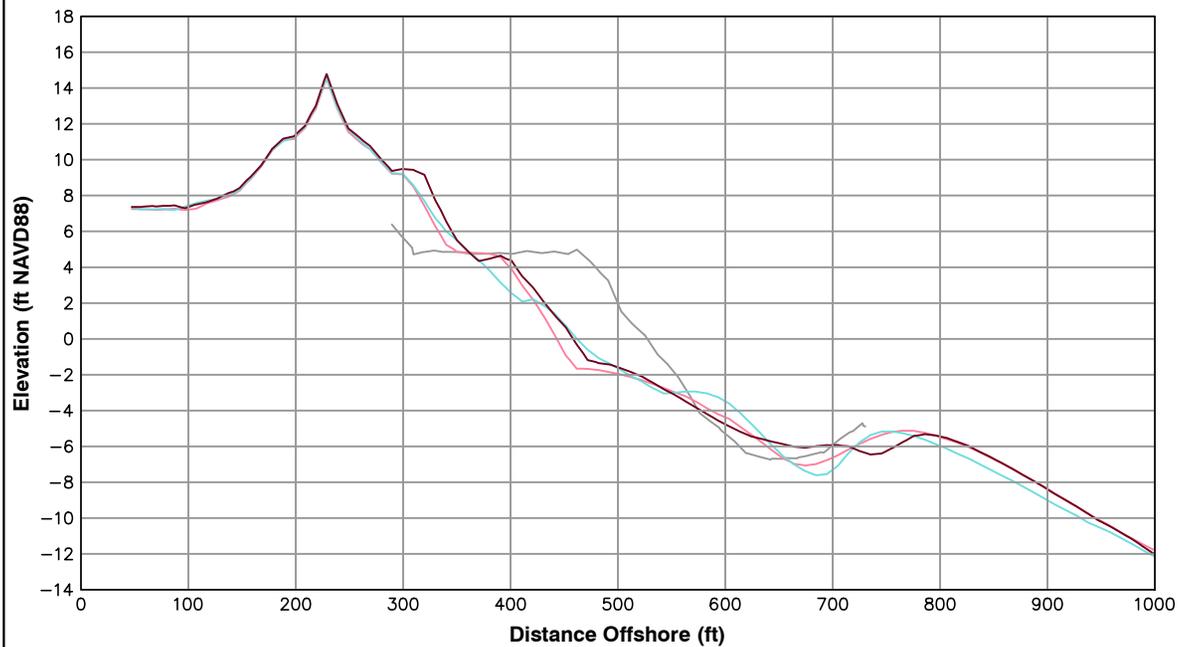
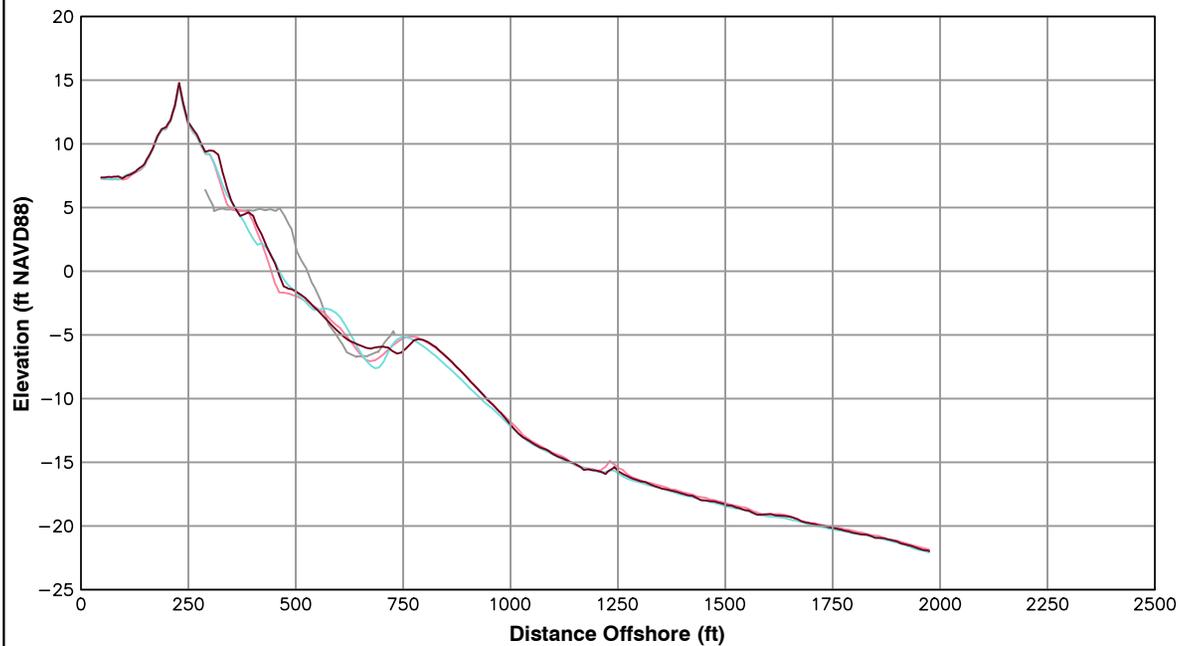
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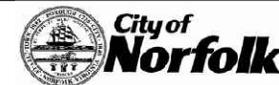
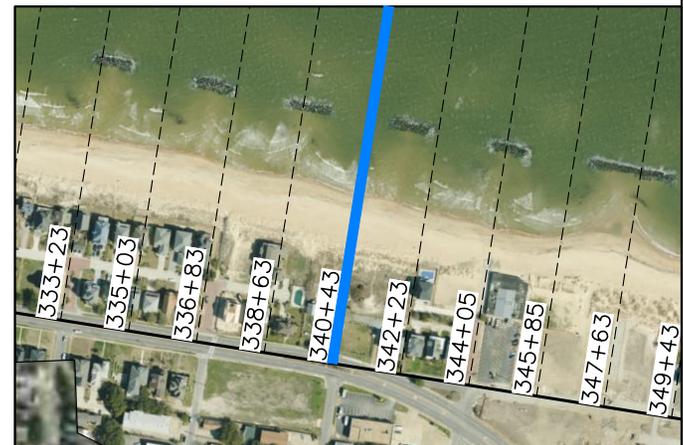
Survey Transect 340+43	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	13.00 ft/yr	-1.39 ft
Volume Change Above -15 ft NAVD88	6.17 cy/ft/yr	7.86 cy/ft
Volume Change Above 0 ft NAVD88	5.37 cy/ft/yr	4.61 cy/ft

**LEGEND:**

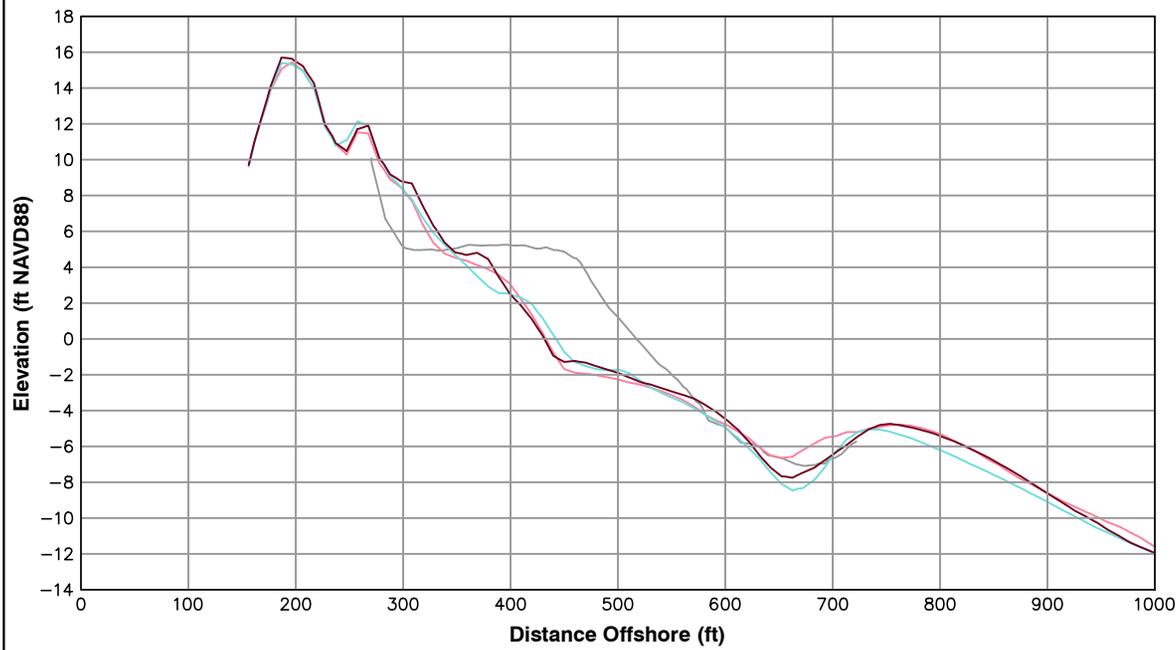
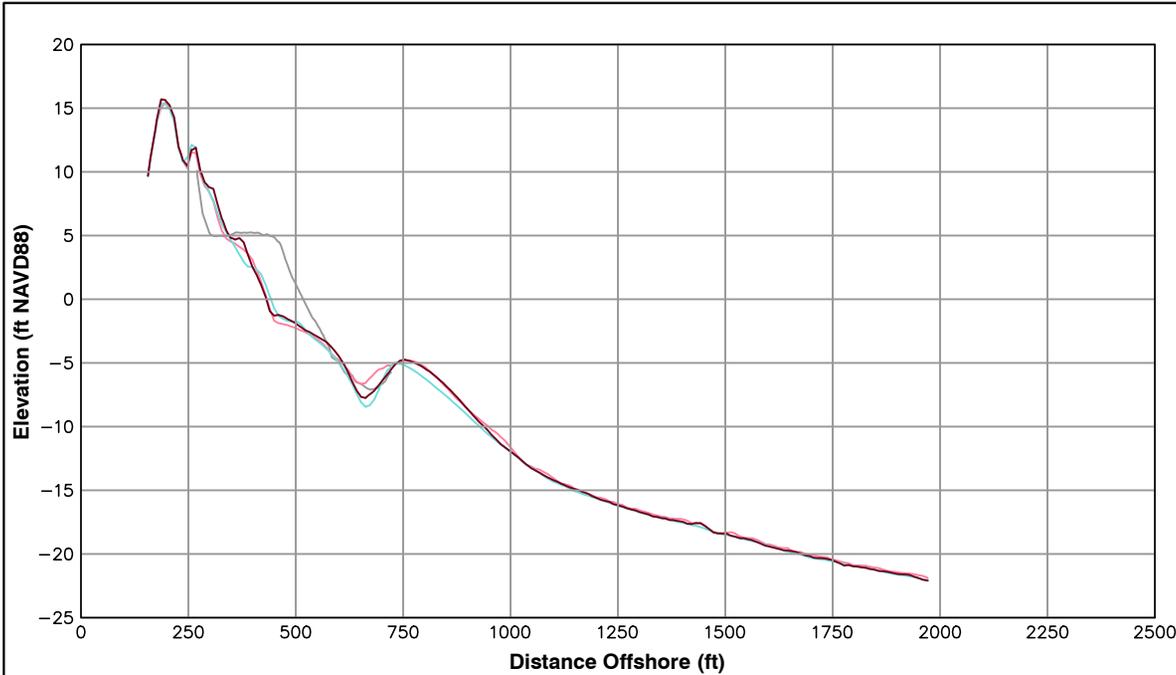
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ANALYSIS**



Survey Transect 342+23	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-2.38 ft/yr	-10.70 ft
Volume Change Above -15 ft NAVD88	-0.30 cy/ft/yr	9.13 cy/ft
Volume Change Above 0 ft NAVD88	2.90 cy/ft/yr	1.93 cy/ft

**LEGEND:**

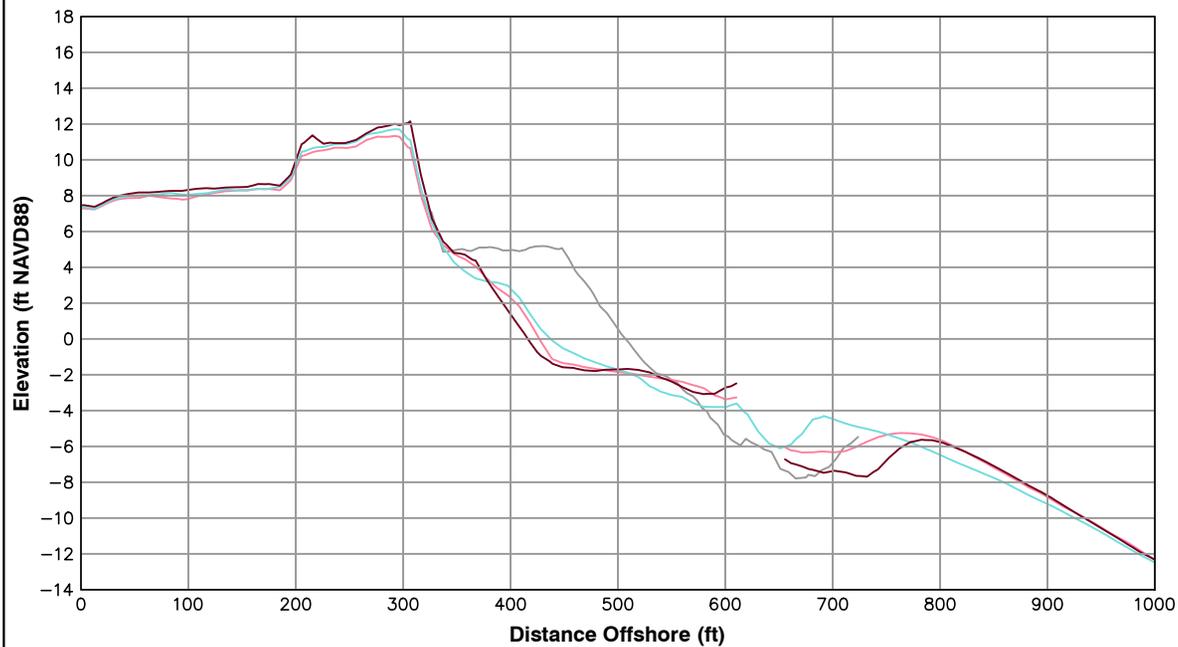
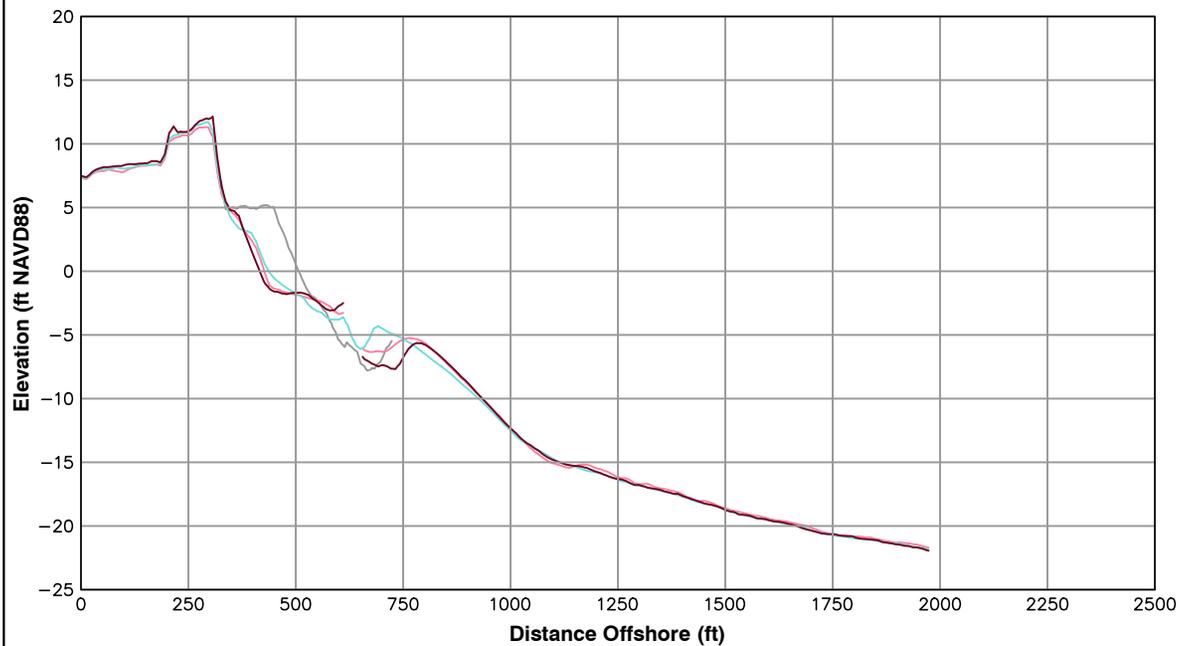
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.



**OCEAN VIEW PERIODIC  
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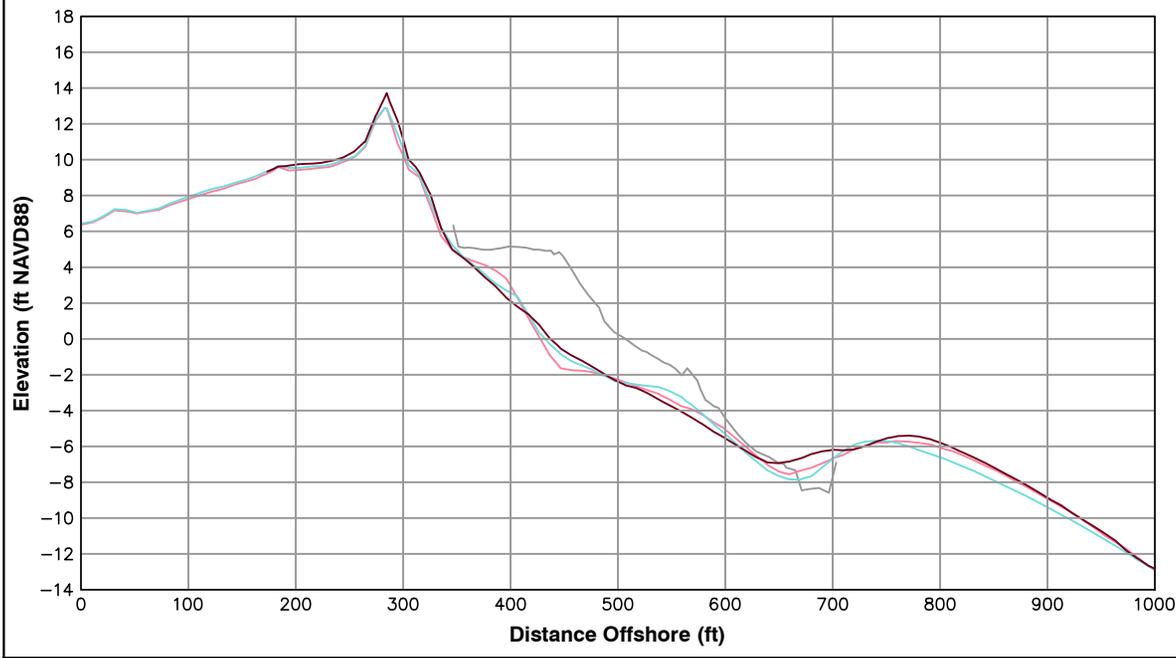
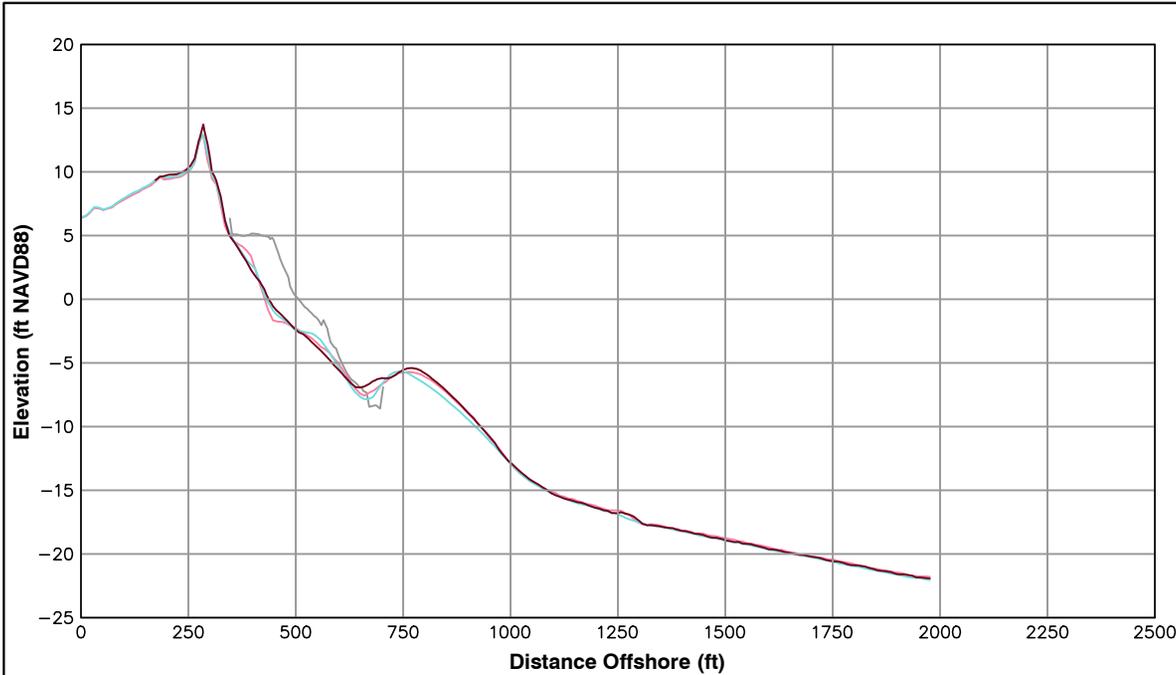
Survey Transect 344+05	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-13.09 ft/yr	-18.31 ft
Volume Change Above -15 ft NAVD88	-0.80 cy/ft/yr	-2.54 cy/ft
Volume Change Above 0 ft NAVD88	4.31 cy/ft/yr	1.85 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





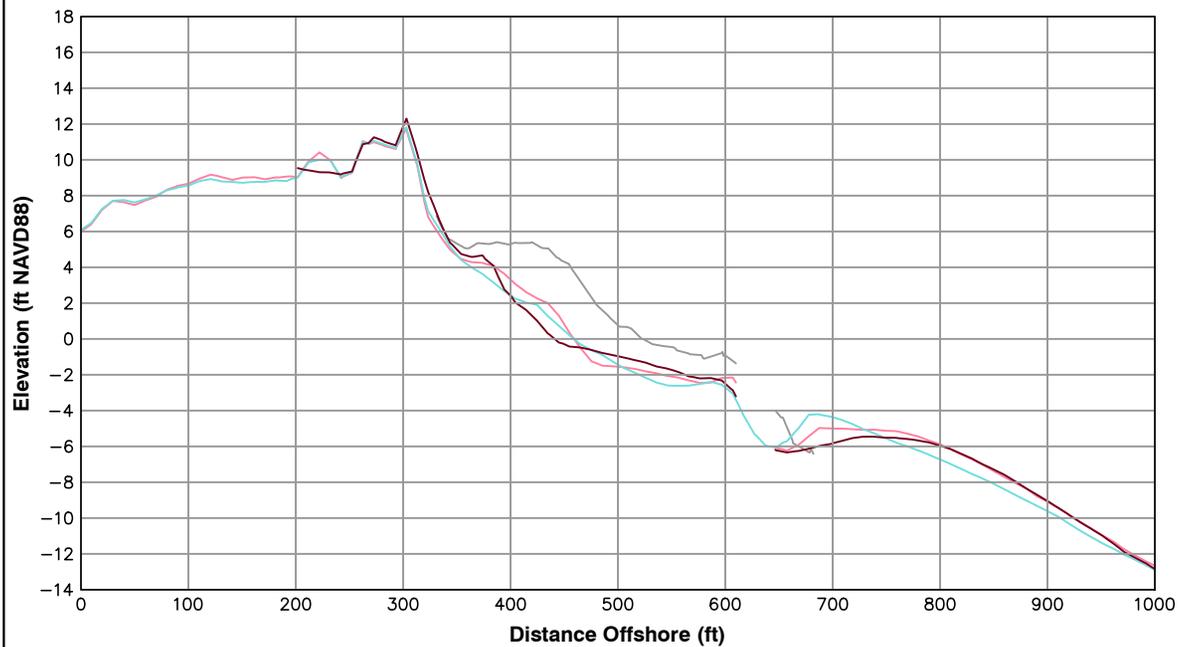
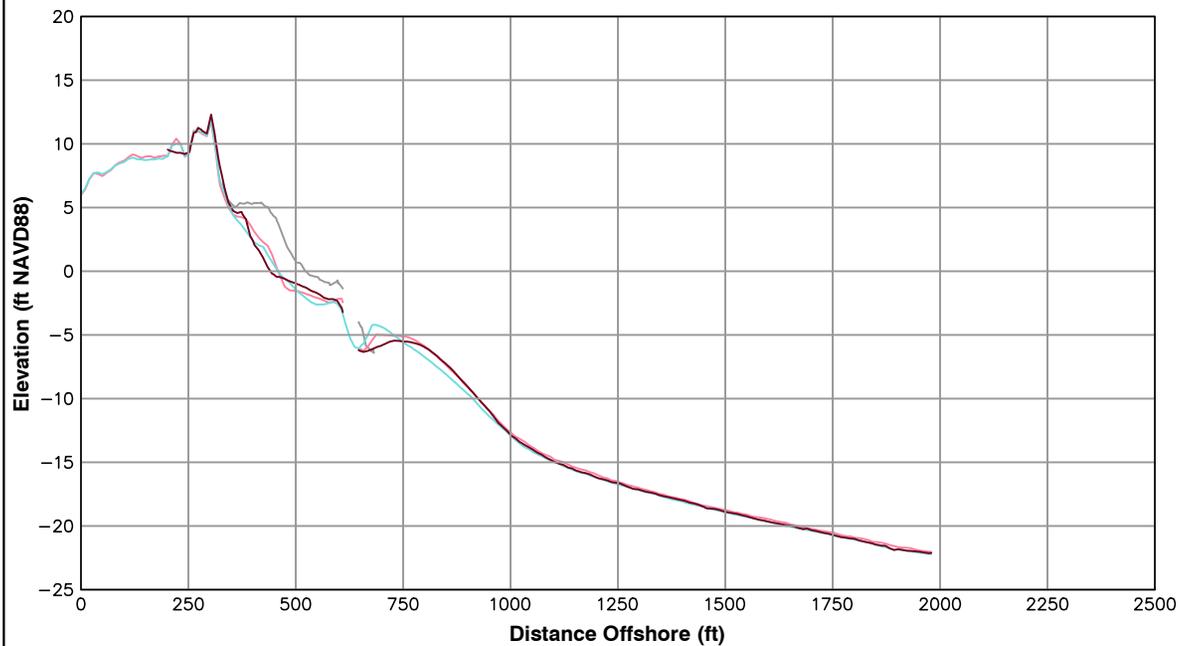
Survey Transect 345+85	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	5.17 ft/yr	2.84 ft
Volume Change Above -15 ft NAVD88	4.50 cy/ft/yr	7.09 cy/ft
Volume Change Above 0 ft NAVD88	1.61 cy/ft/yr	1.10 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
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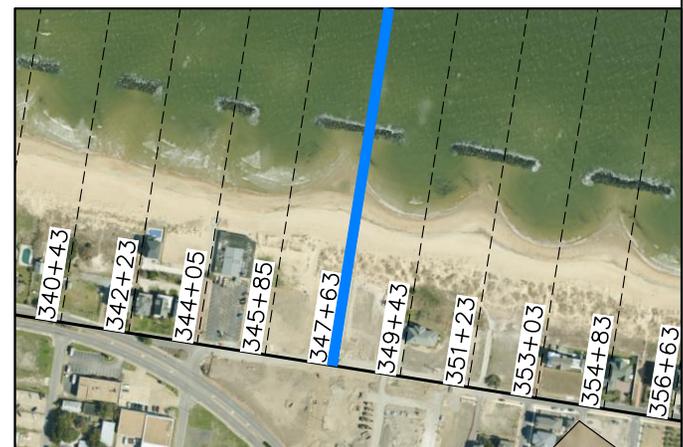


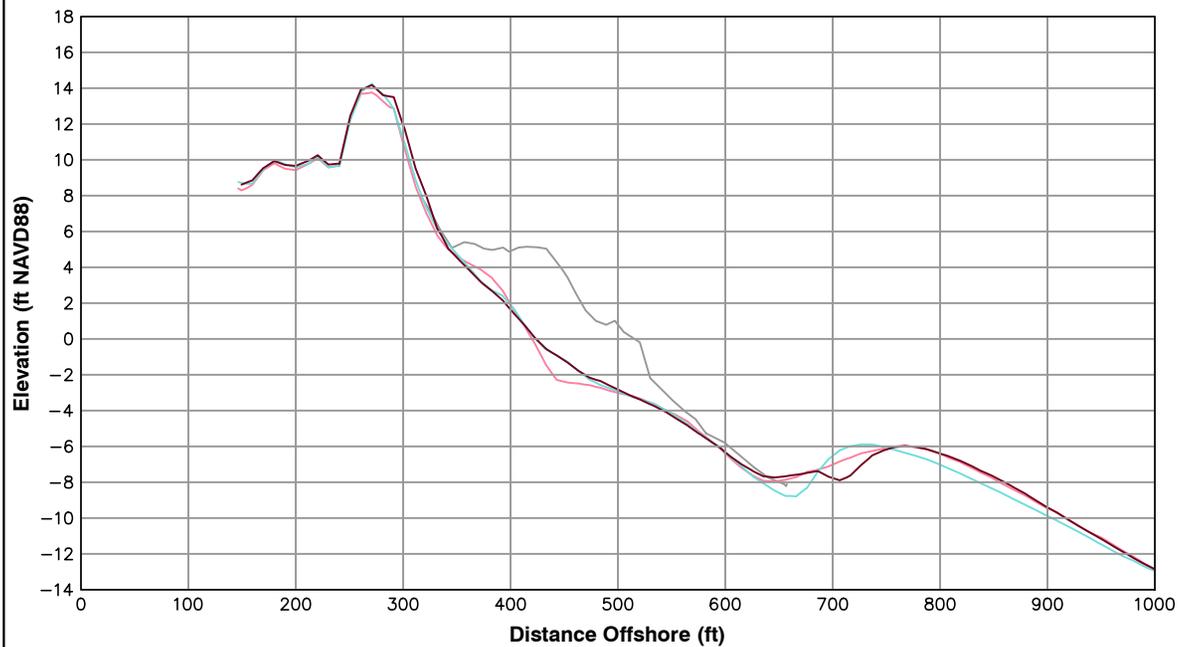
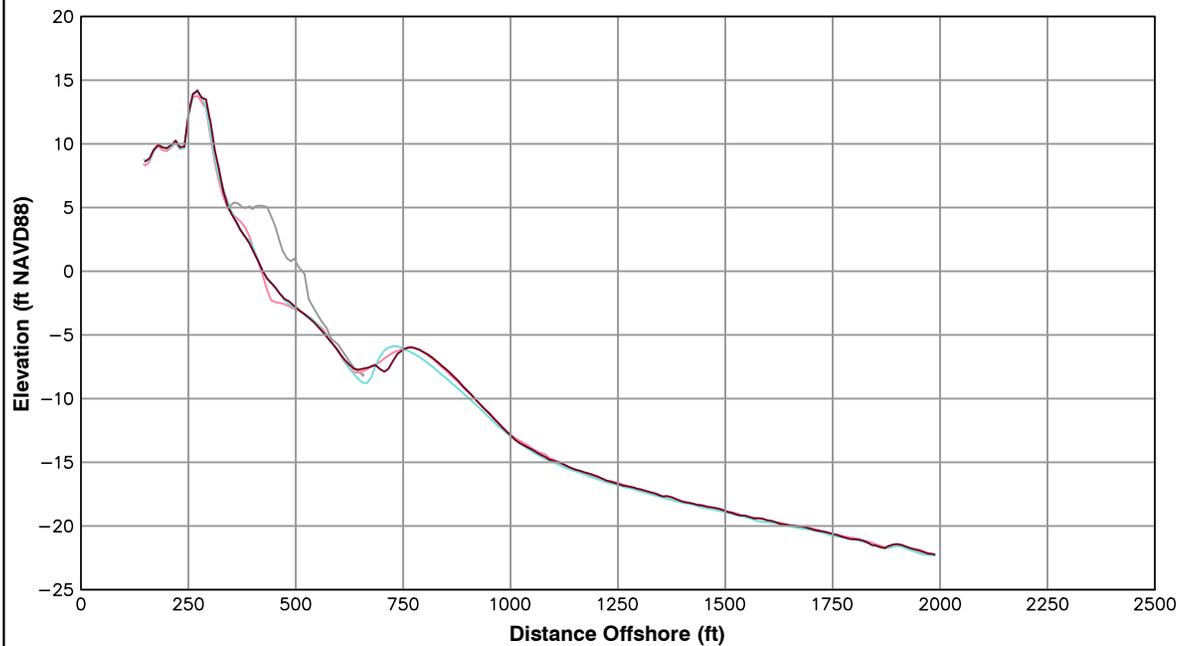
Survey Transect 347+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-24.05 ft/yr	-15.16 ft
Volume Change Above -15 ft NAVD88	-3.31 cy/ft/yr	4.51 cy/ft
Volume Change Above 0 ft NAVD88	-1.44 cy/ft/yr	0.57 cy/ft

**LEGEND:**

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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 349+43	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-0.23 ft/yr	-0.89 ft
Volume Change Above -15 ft NAVD88	2.35 cy/ft/yr	4.73 cy/ft
Volume Change Above 0 ft NAVD88	1.79 cy/ft/yr	1.02 cy/ft

**LEGEND:**

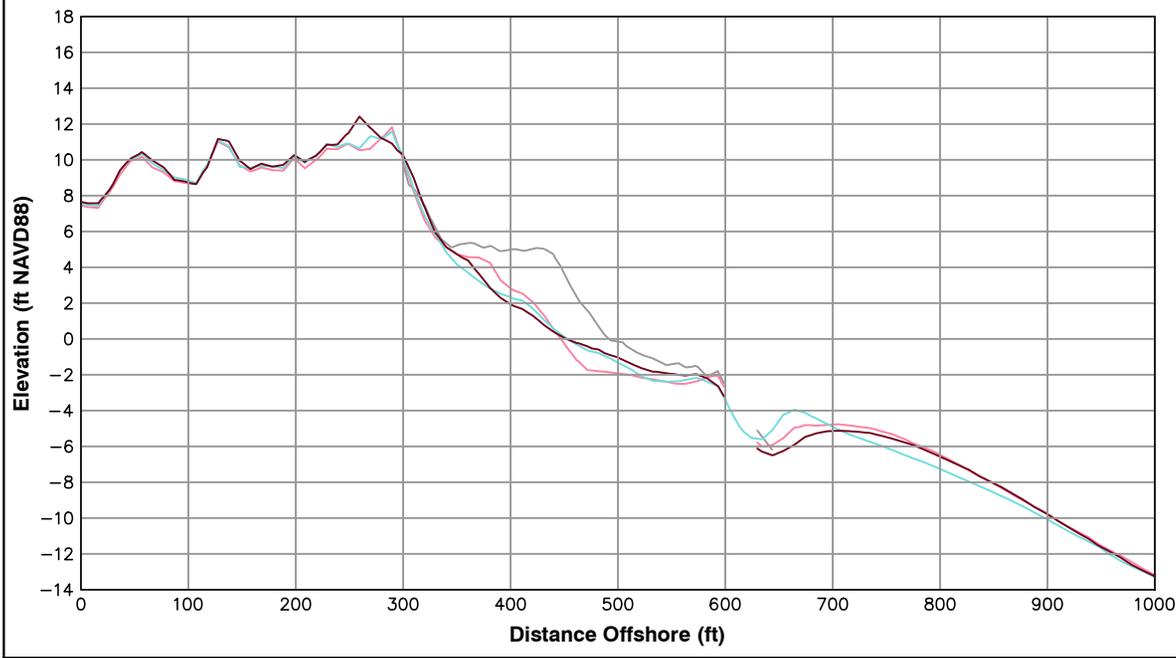
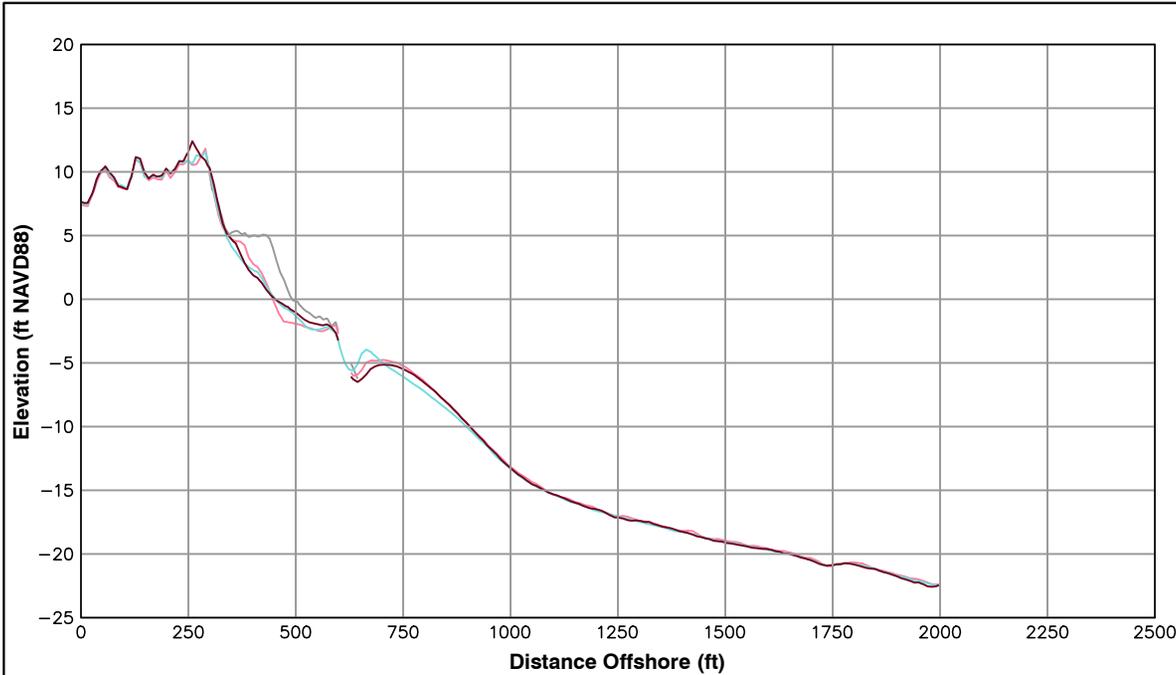
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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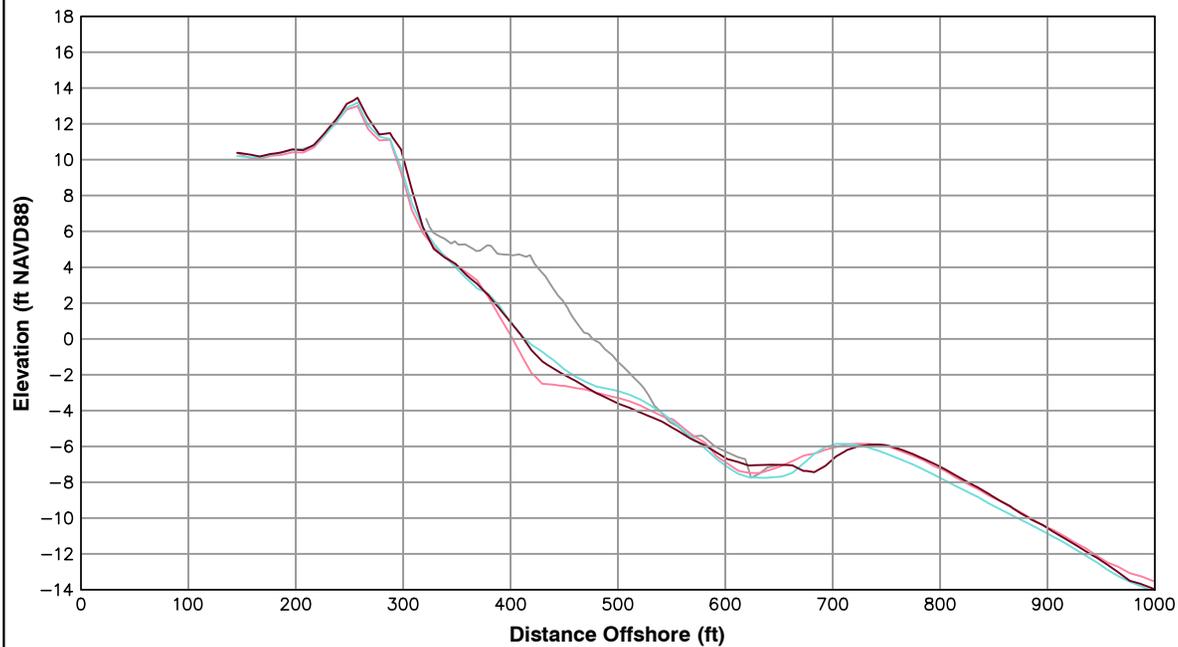
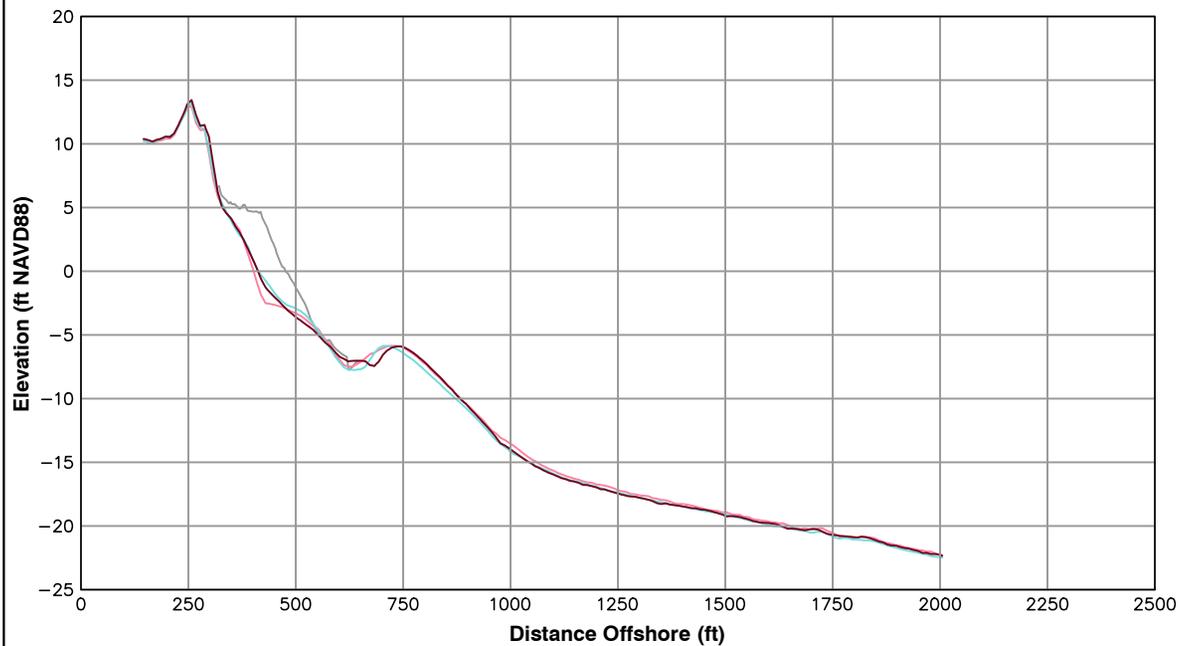
Survey Transect 351+23	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-8.26 ft/yr	-5.49 ft
Volume Change Above -15 ft NAVD88	1.33 cy/ft/yr	4.43 cy/ft
Volume Change Above 0 ft NAVD88	1.20 cy/ft/yr	1.83 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
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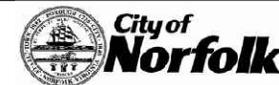
Survey Transect 353+03	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	7.31 ft/yr	0.07 ft
Volume Change Above -15 ft NAVD88	1.53 cy/ft/yr	3.21 cy/ft
Volume Change Above 0 ft NAVD88	2.75 cy/ft/yr	1.44 cy/ft

**LEGEND:**

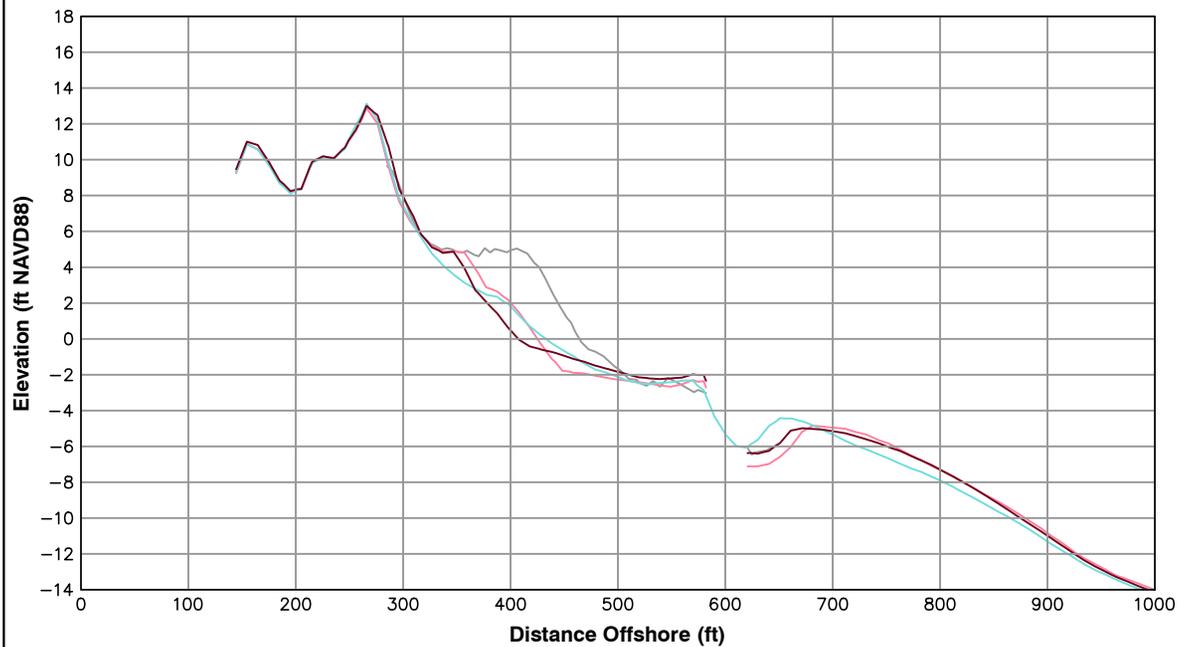
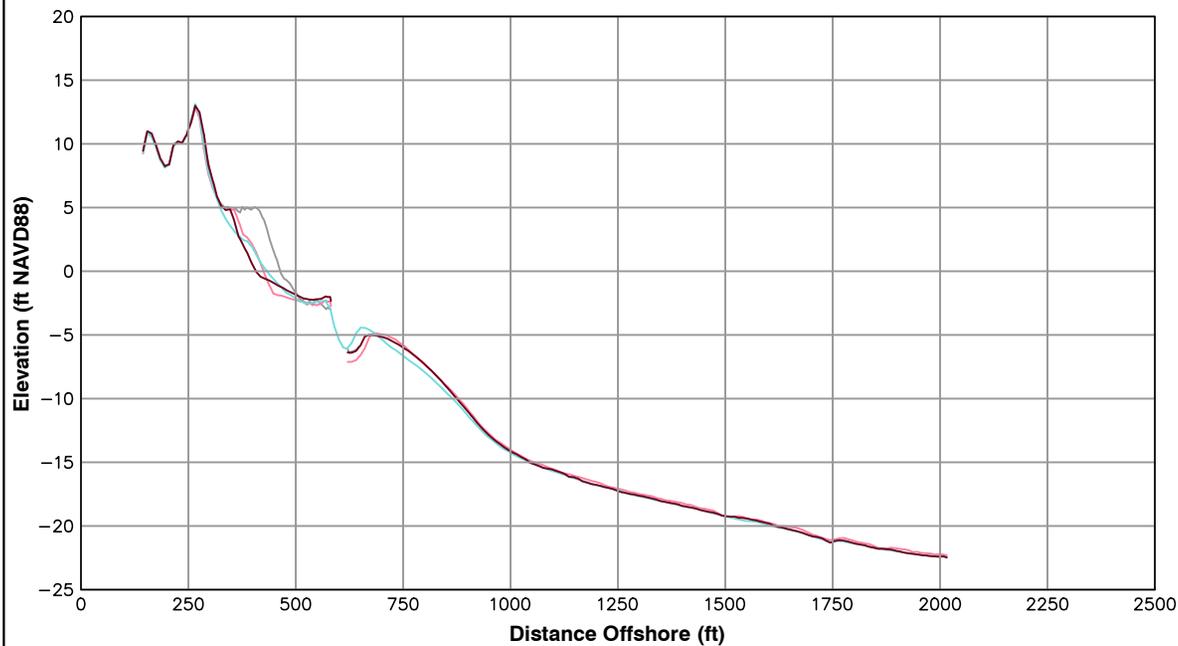
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

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**OCEAN VIEW PERIODIC  
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ANALYSIS**



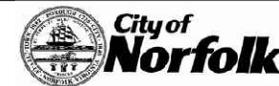
Survey Transect 354+83	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-21.44 ft/yr	-20.22 ft
Volume Change Above -15 ft NAVD88	0.62 cy/ft/yr	3.92 cy/ft
Volume Change Above 0 ft NAVD88	-1.54 cy/ft/yr	0.50 cy/ft

**LEGEND:**

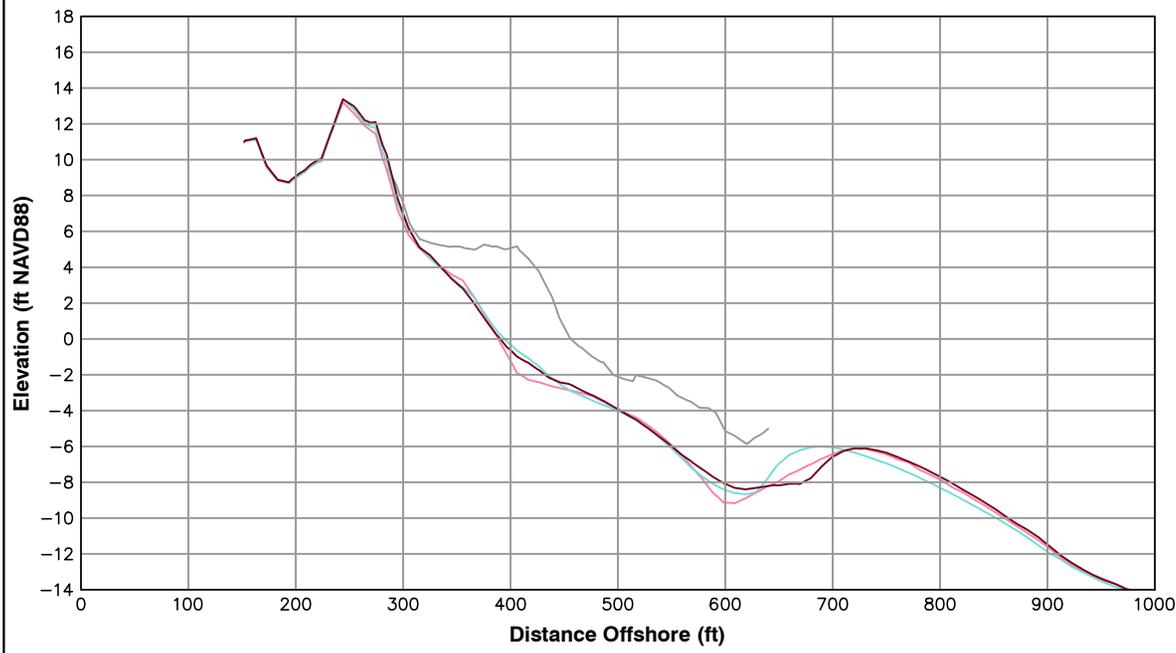
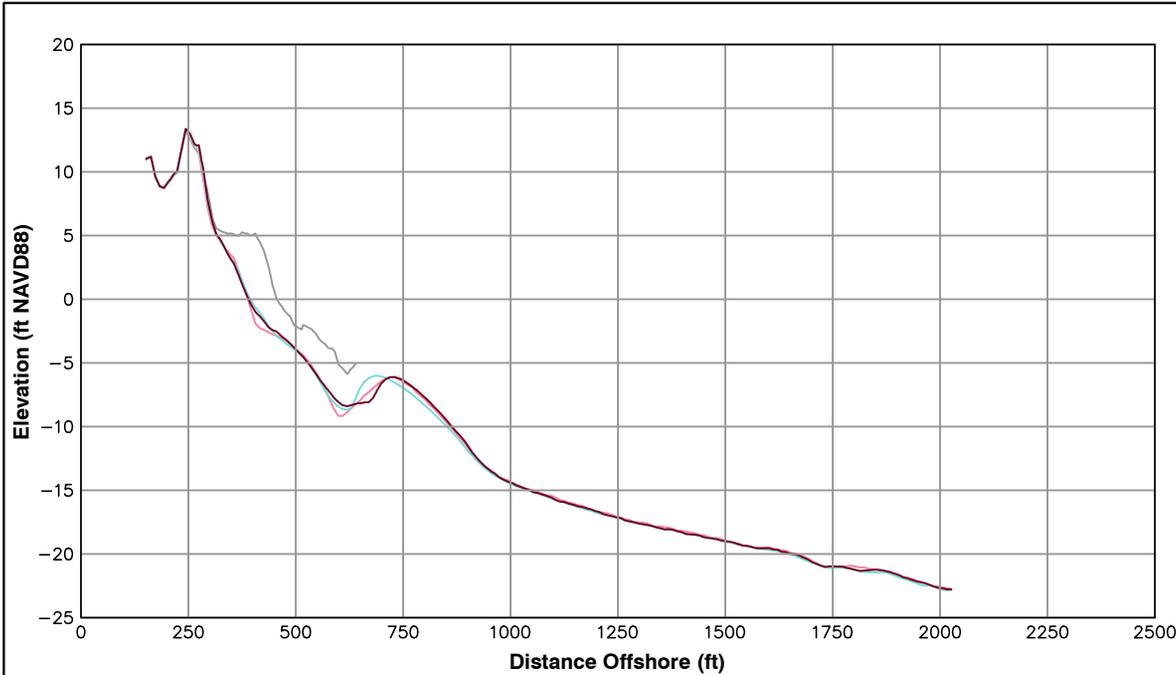
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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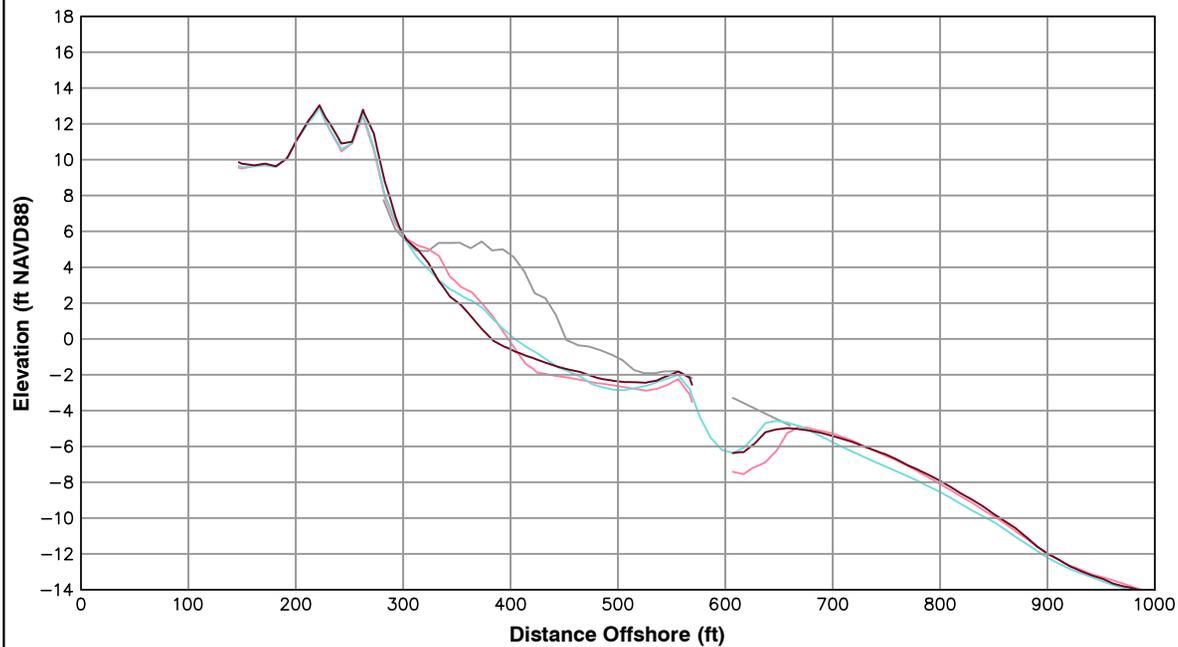
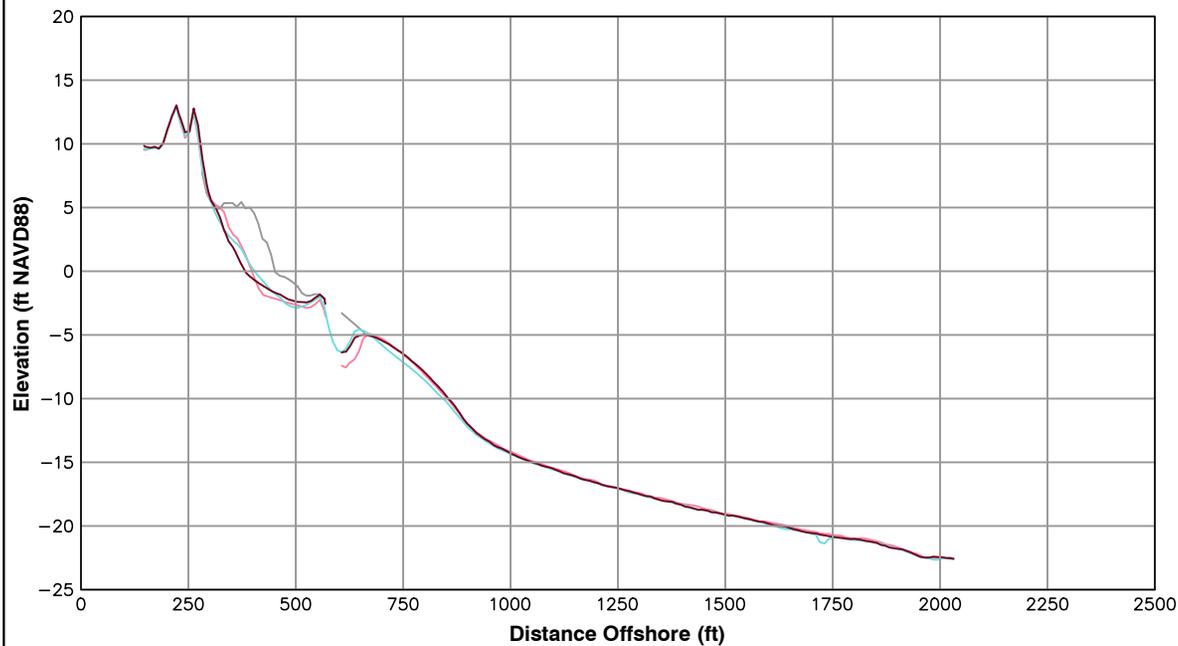
Survey Transect 356+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-1.74 ft/yr	-3.24 ft
Volume Change Above -15 ft NAVD88	4.07 cy/ft/yr	2.50 cy/ft
Volume Change Above 0 ft NAVD88	1.17 cy/ft/yr	0.39 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
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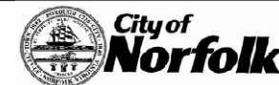
Survey Transect 358+43	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-20.18 ft/yr	-18.47 ft
Volume Change Above -15 ft NAVD88	2.88 cy/ft/yr	4.24 cy/ft
Volume Change Above 0 ft NAVD88	-1.96 cy/ft/yr	-0.17 cy/ft

**LEGEND:**

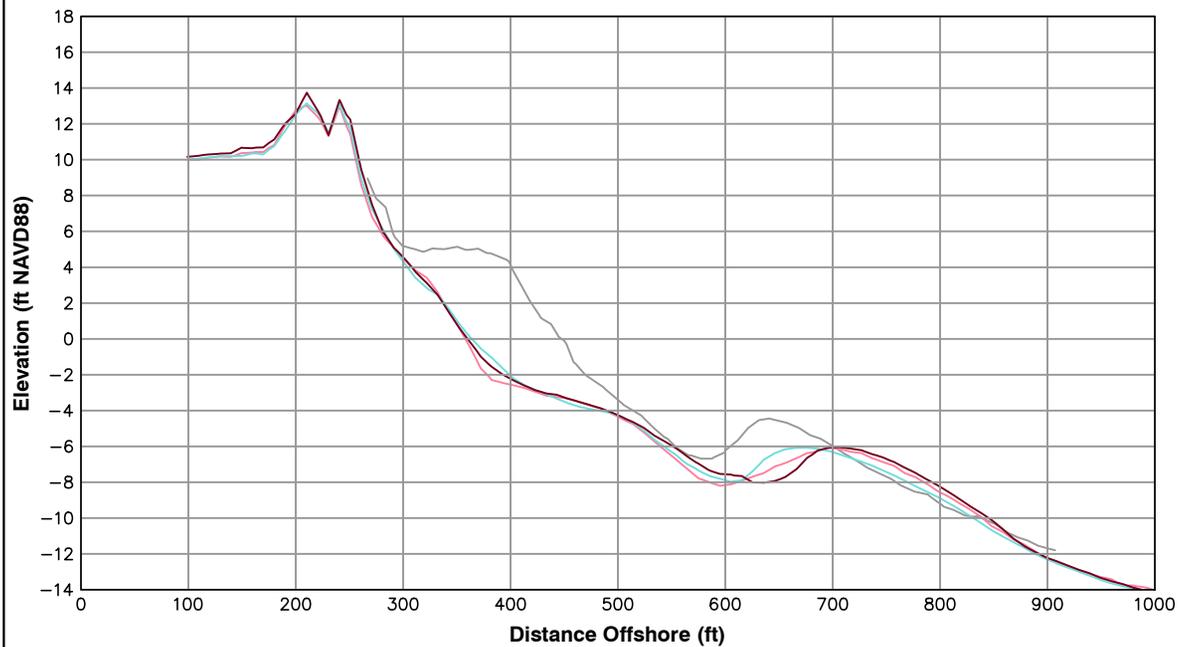
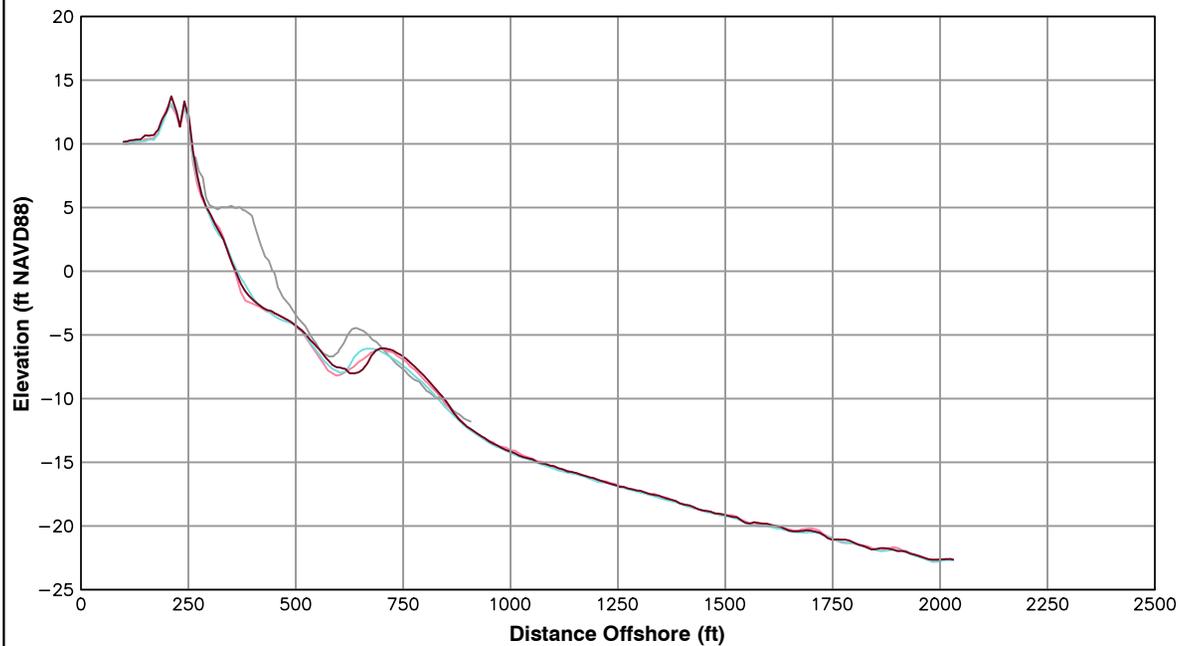
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
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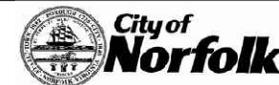
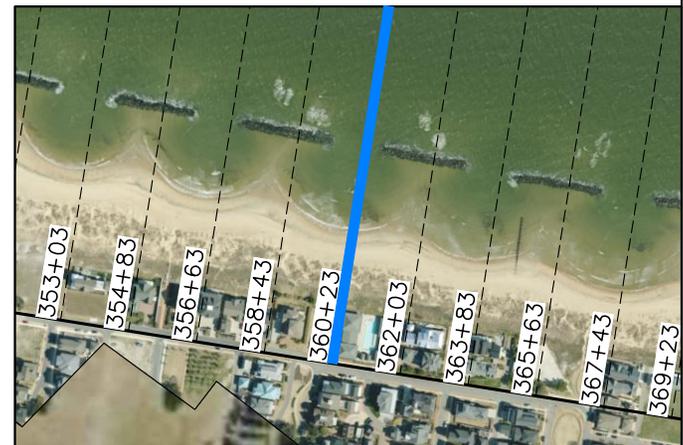
Survey Transect 360+23	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	0.09 ft/yr	-2.33 ft
Volume Change Above -15 ft NAVD88	5.16 cy/ft/yr	4.87 cy/ft
Volume Change Above 0 ft NAVD88	2.15 cy/ft/yr	1.91 cy/ft

**LEGEND:**

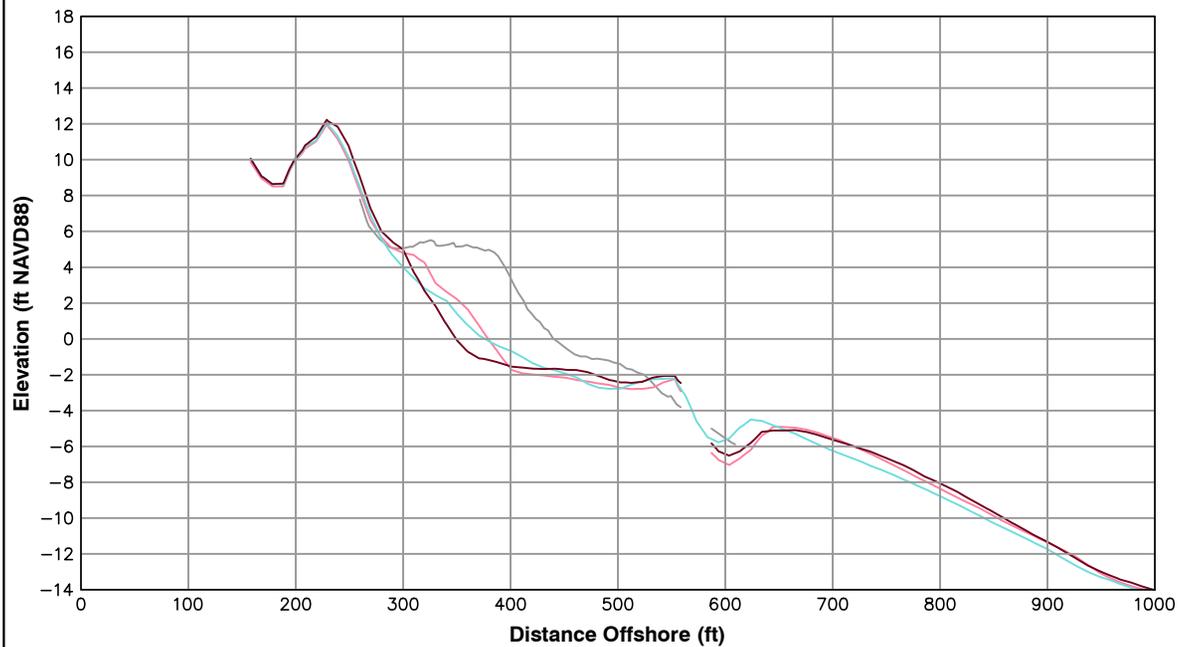
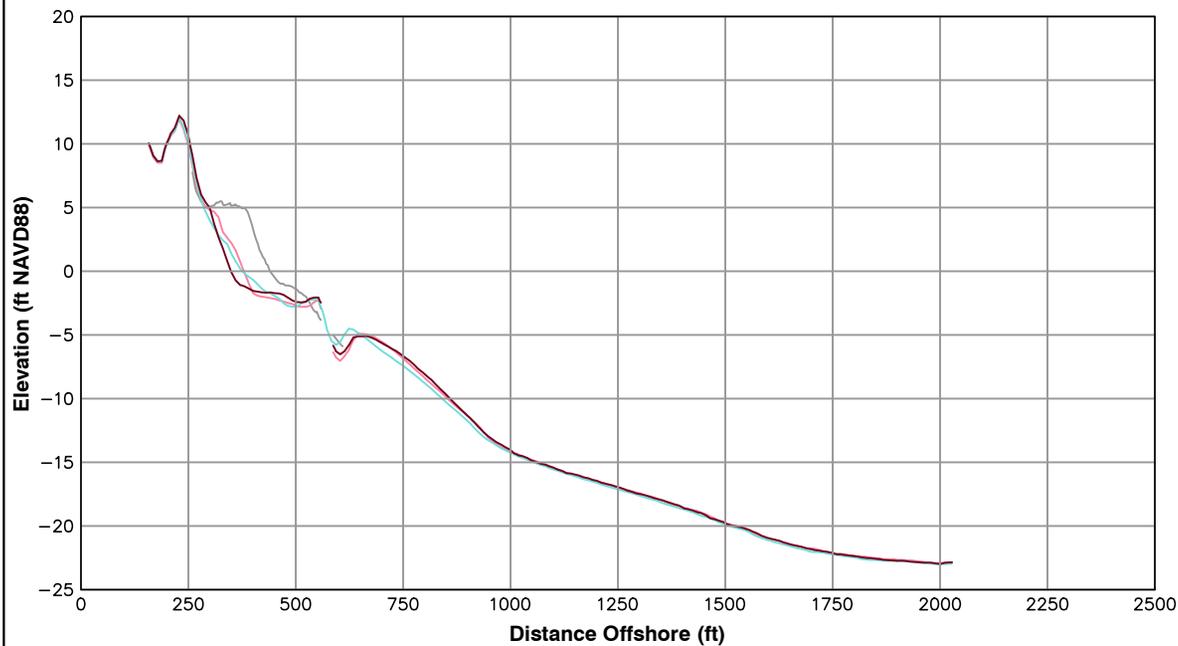
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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**OCEAN VIEW PERIODIC  
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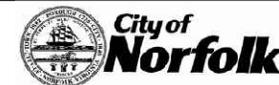
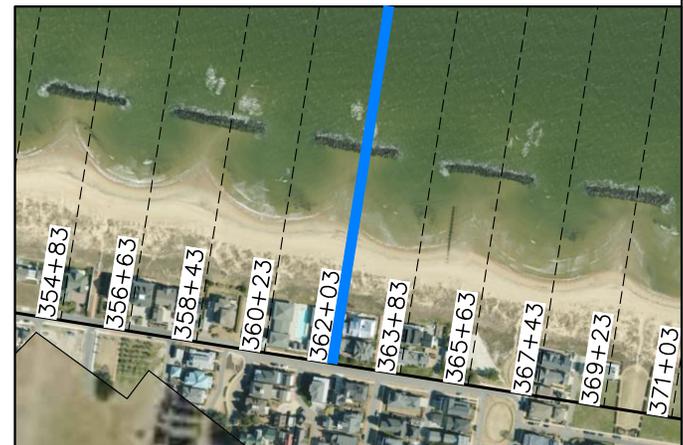
Survey Transect 362+03	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-30.50 ft/yr	-18.19 ft
Volume Change Above -15 ft NAVD88	1.07 cy/ft/yr	4.46 cy/ft
Volume Change Above 0 ft NAVD88	-1.95 cy/ft/yr	0.28 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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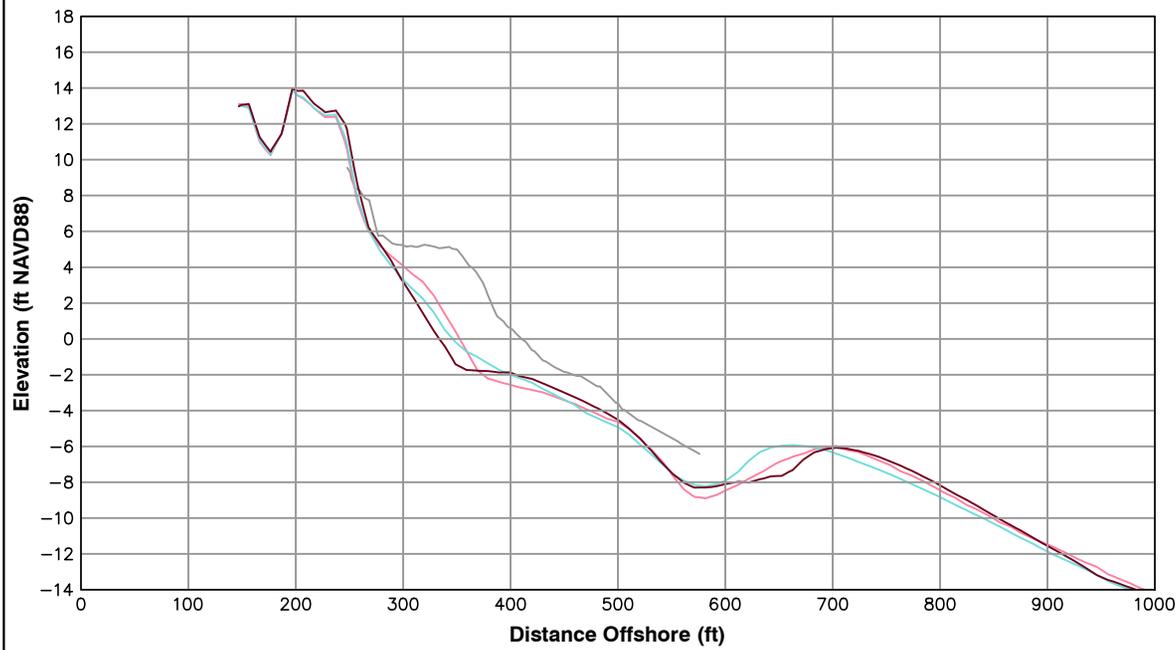
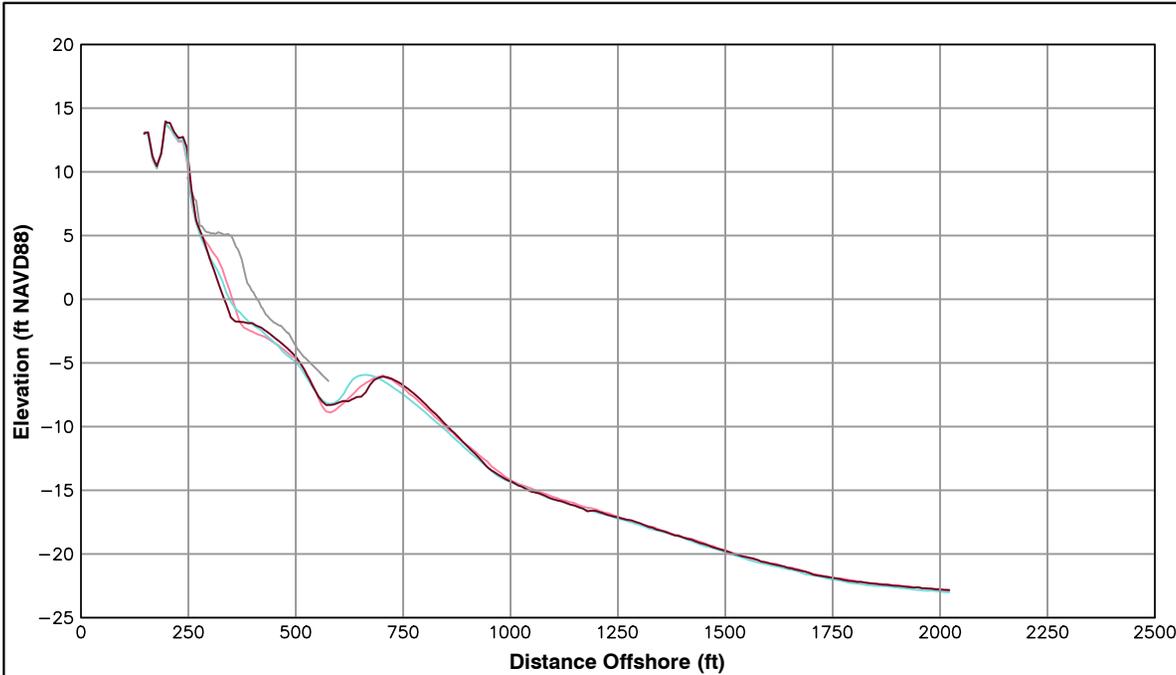


**OCEAN VIEW PERIODIC  
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ST 362+03

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Spring 2014



Survey Transect 363+83	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-20.67 ft/yr	-10.79 ft
Volume Change Above -15 ft NAVD88	-0.53 cy/ft/yr	1.76 cy/ft
Volume Change Above 0 ft NAVD88	-1.34 cy/ft/yr	0.43 cy/ft

**LEGEND:**

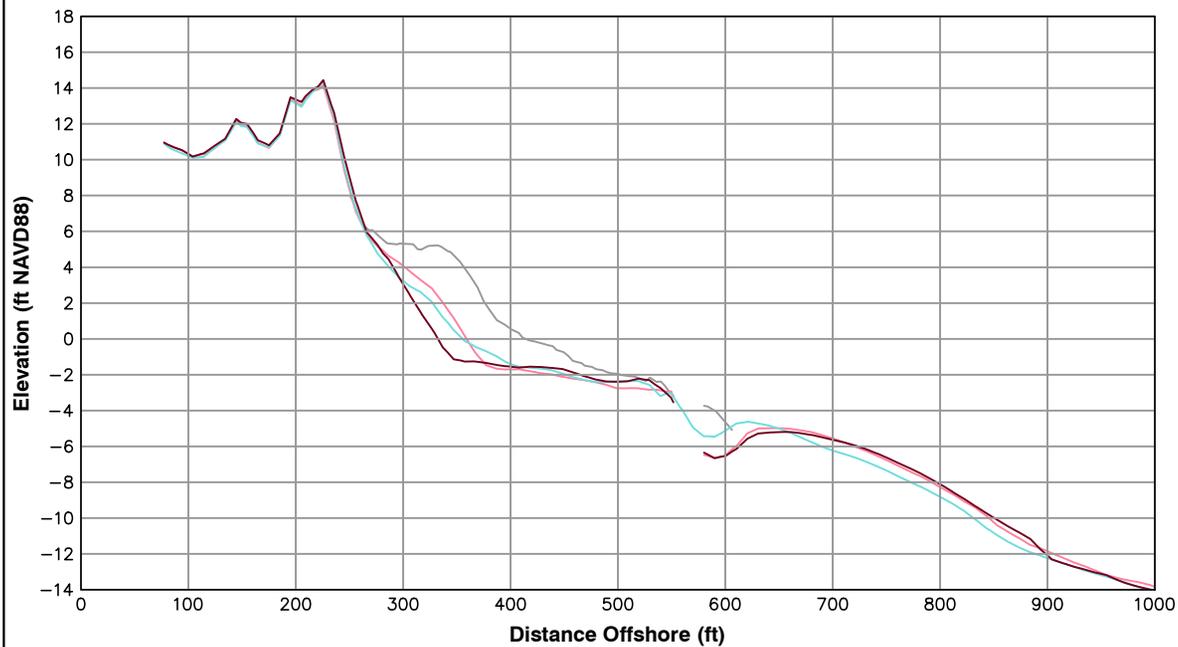
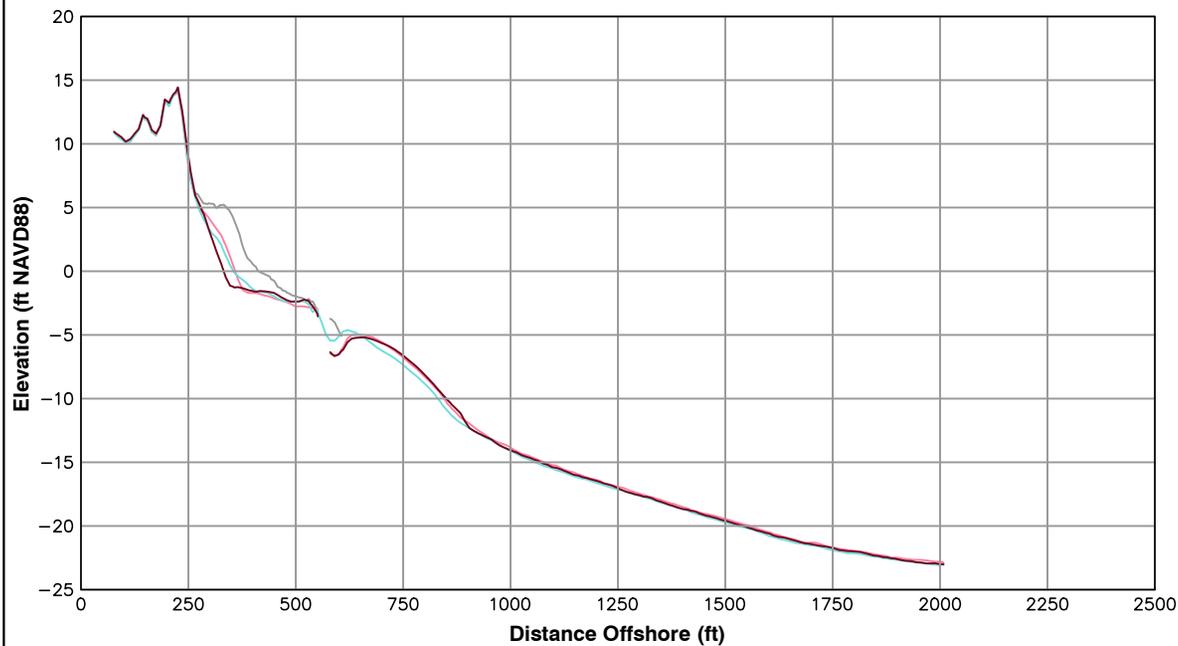
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2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

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**OCEAN VIEW PERIODIC  
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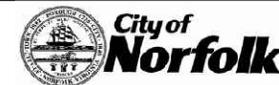
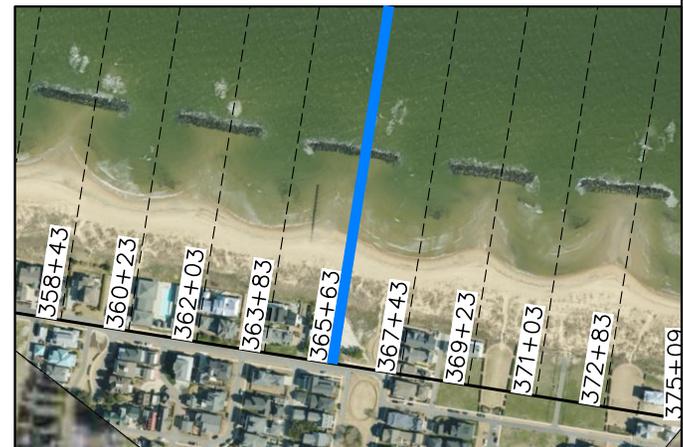
Survey Transect 365+63	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-28.00 ft/yr	-18.55 ft
Volume Change Above -15 ft NAVD88	-2.65 cy/ft/yr	2.46 cy/ft
Volume Change Above 0 ft NAVD88	-2.48 cy/ft/yr	-0.17 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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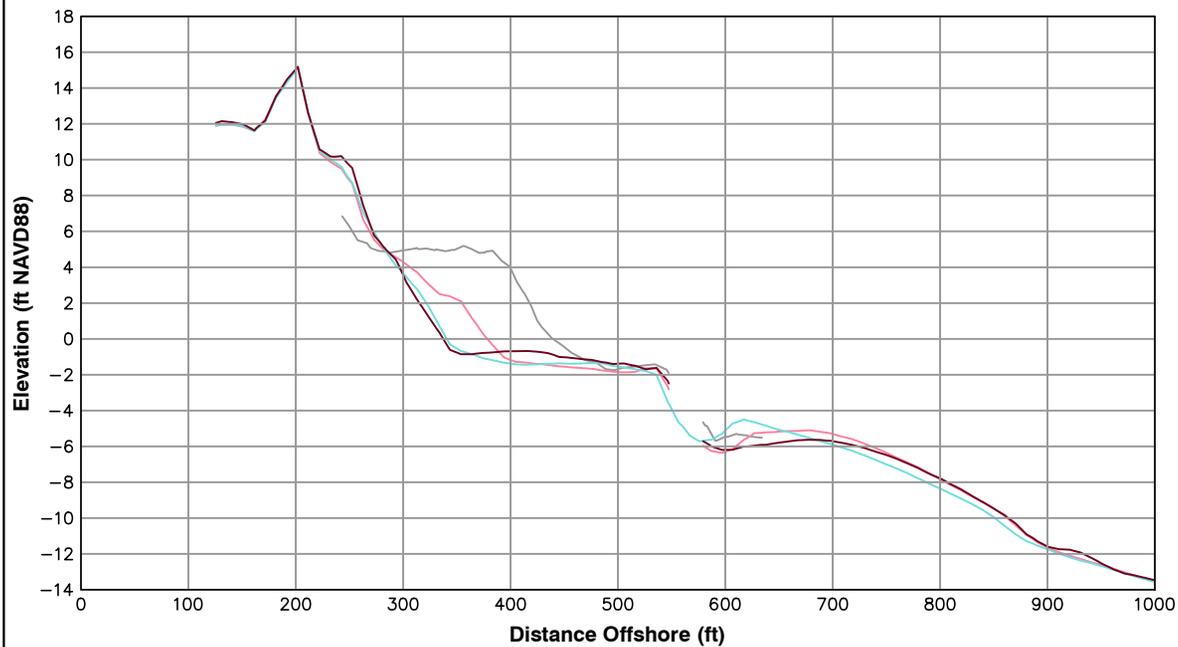
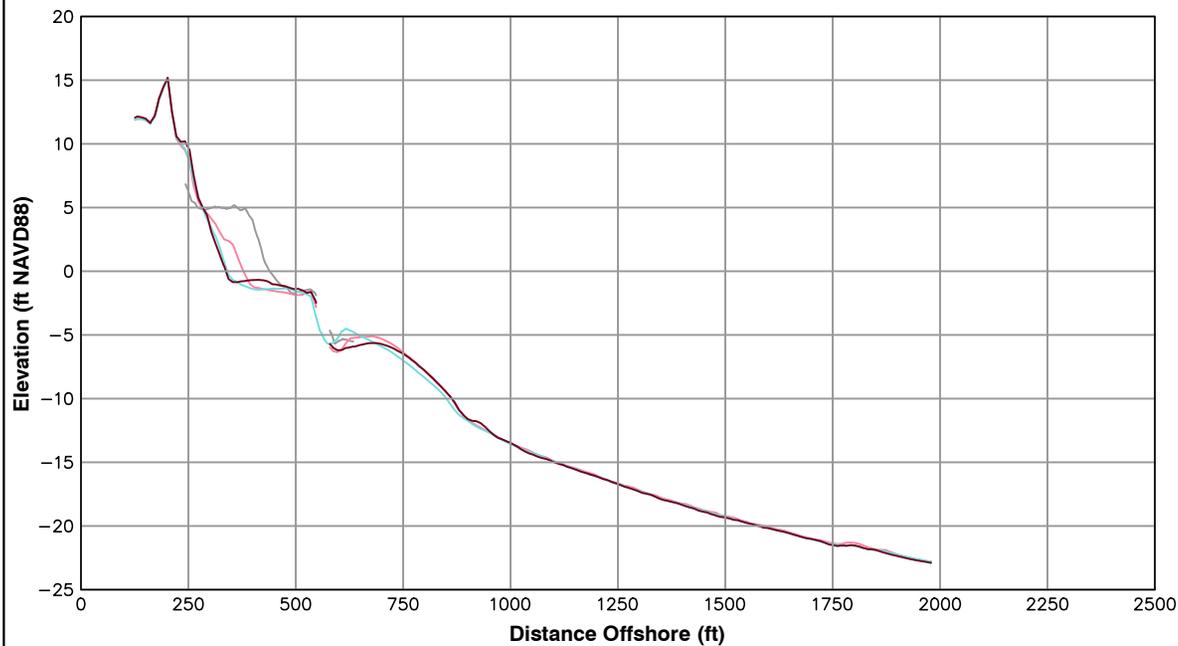


**OCEAN VIEW PERIODIC  
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ST 365+63

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Spring 2014



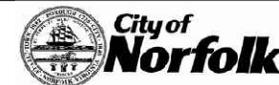
Survey Transect 369+23	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-41.06 ft/yr	-4.74 ft
Volume Change Above -15 ft NAVD88	-4.19 cy/ft/yr	3.79 cy/ft
Volume Change Above 0 ft NAVD88	-3.41 cy/ft/yr	0.50 cy/ft

**LEGEND:**

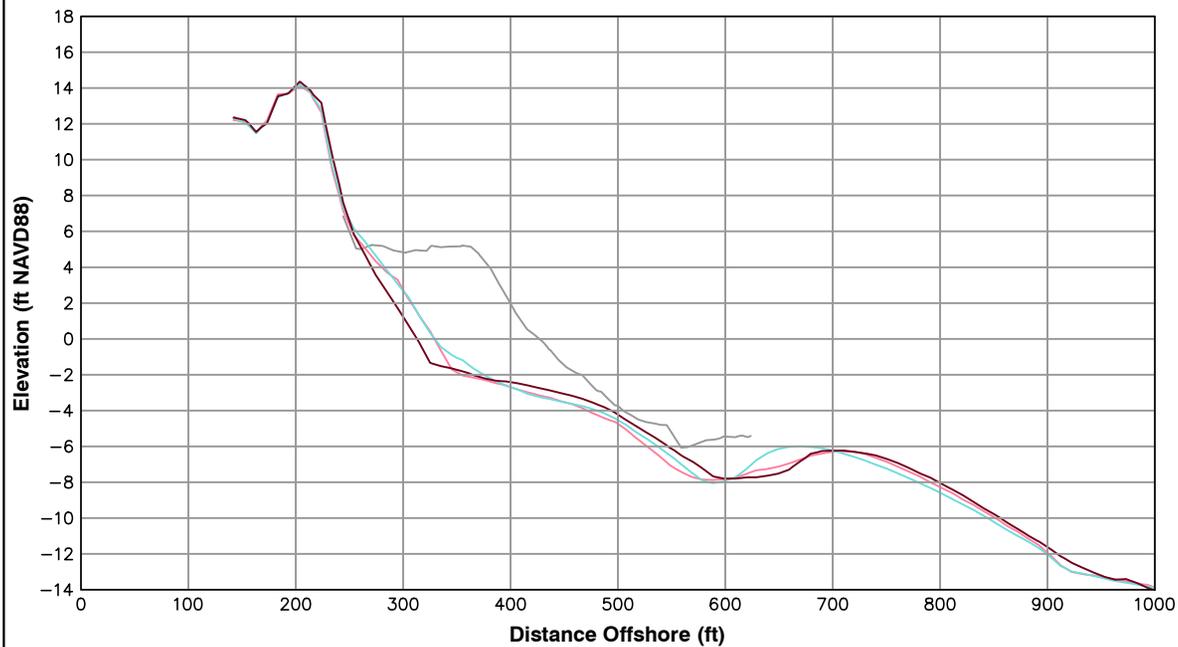
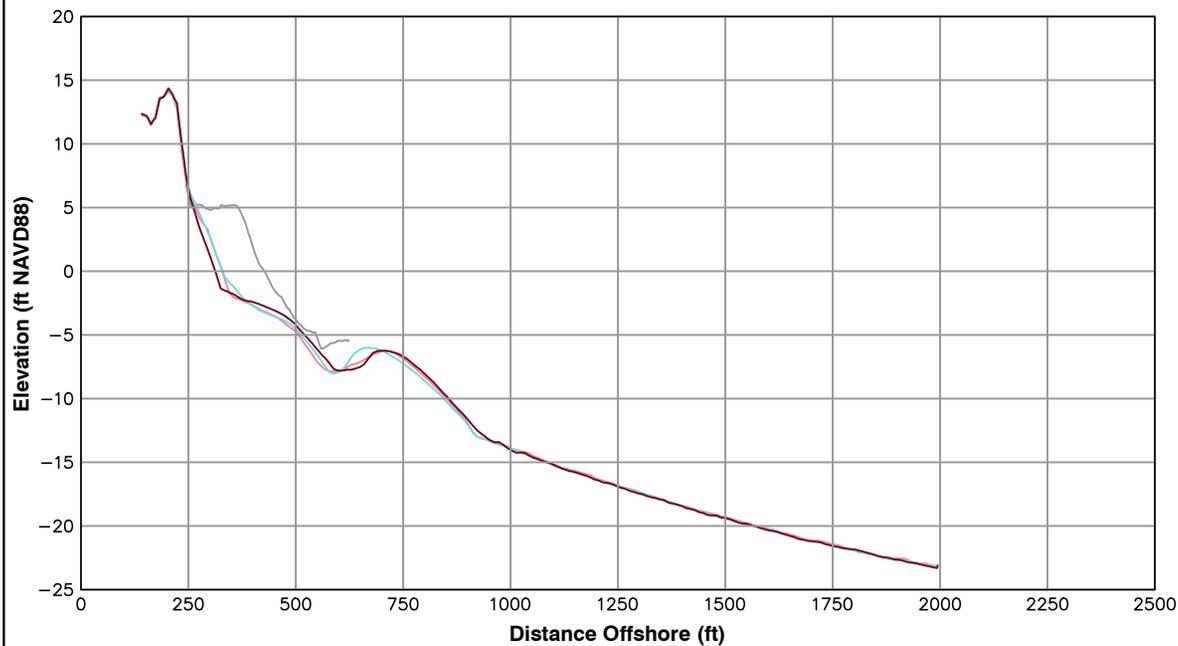
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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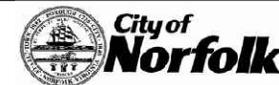
Survey Transect 367+43	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-16.53 ft/yr	-15.69 ft
Volume Change Above -15 ft NAVD88	2.84 cy/ft/yr	0.70 cy/ft
Volume Change Above 0 ft NAVD88	-1.84 cy/ft/yr	-2.32 cy/ft

**LEGEND:**

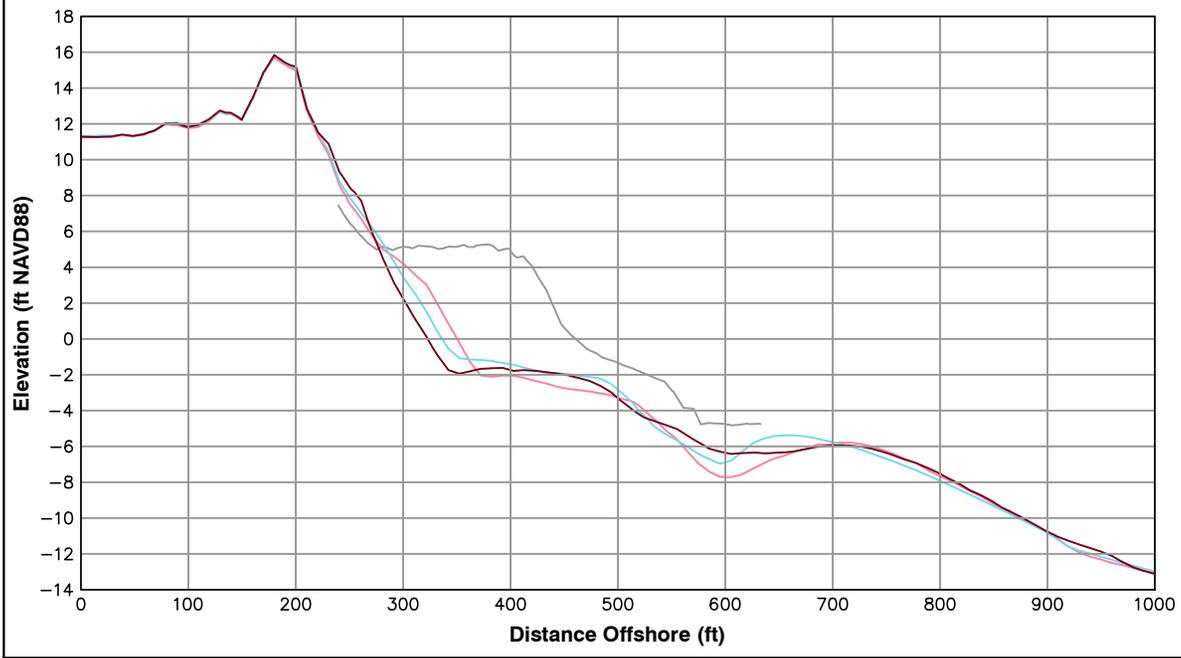
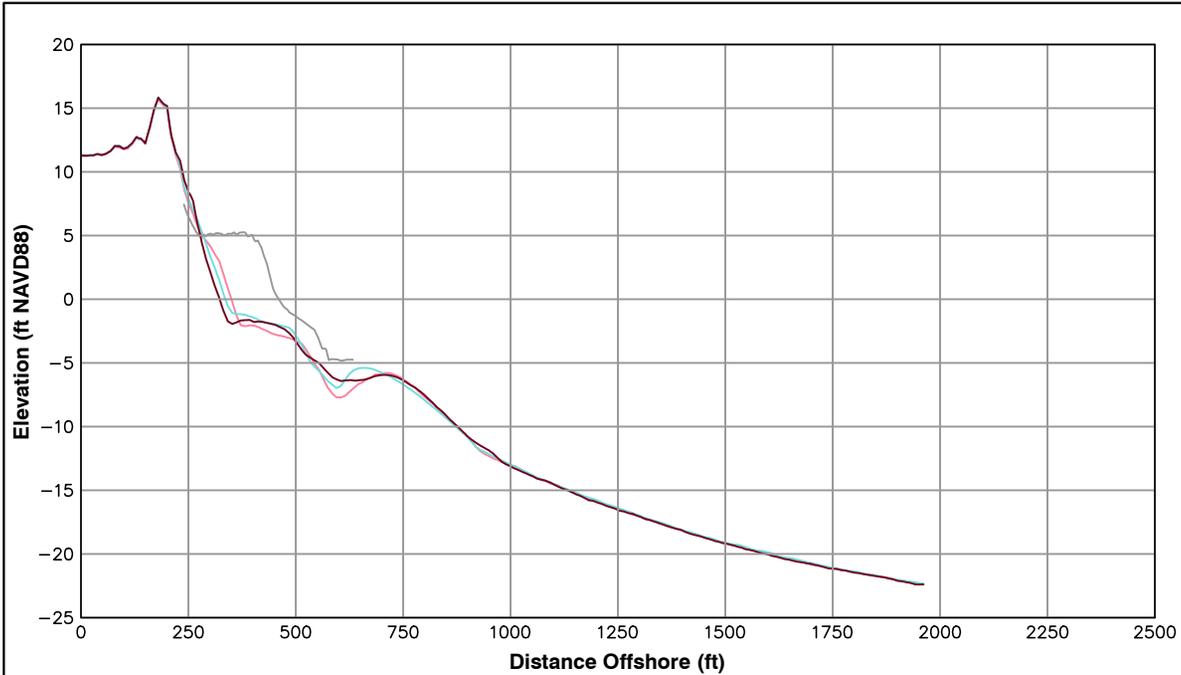
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2013 OCT	<span style="color: cyan;">—</span>
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ANALYSIS**



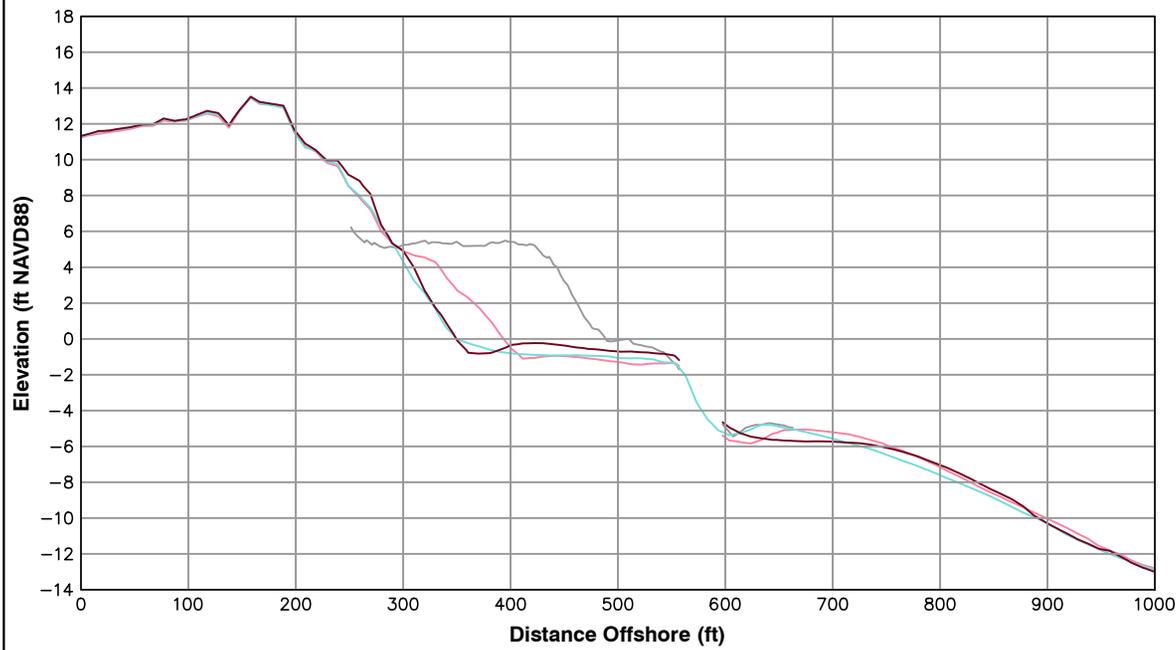
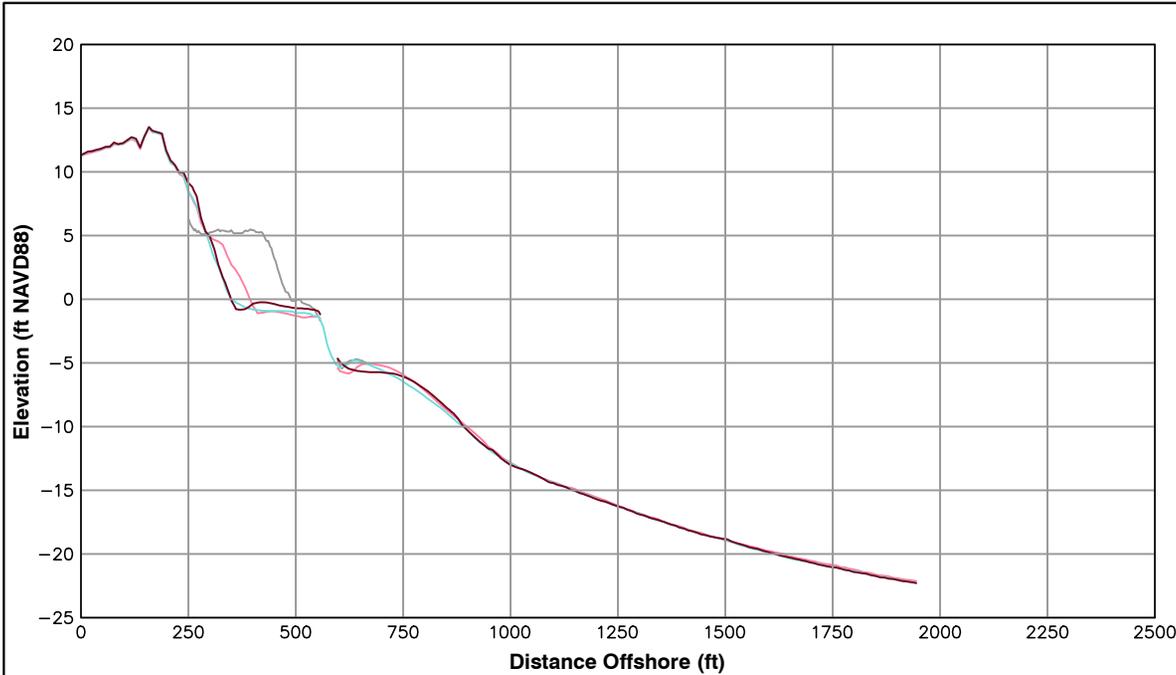
Survey Transect 371+03	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-29.50 ft/yr	-14.18 ft
Volume Change Above -15 ft NAVD88	1.95 cy/ft/yr	-3.08 cy/ft
Volume Change Above 0 ft NAVD88	-2.70 cy/ft/yr	-1.64 cy/ft

**LEGEND:**

- 2014 MAR ———
- 2013 OCT ———
- 2013 APR ———
- POST-FILL ———

- Notes:**
1. Stationing From West To East At Varying Intervals.
  2. Sections Are Viewed Toward Decreasing Stationing.
  3. All Survey Elevations In Feet Referenced to NAVD88.
  4. Survey Comparison Made To April 2013 and October 2013.
  5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.





Survey Transect 372+83	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-43.90 ft/yr	2.63 ft
Volume Change Above -15 ft NAVD88	-3.36 cy/ft/yr	5.65 cy/ft
Volume Change Above 0 ft NAVD88	-3.85 cy/ft/yr	2.12 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: pink;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.

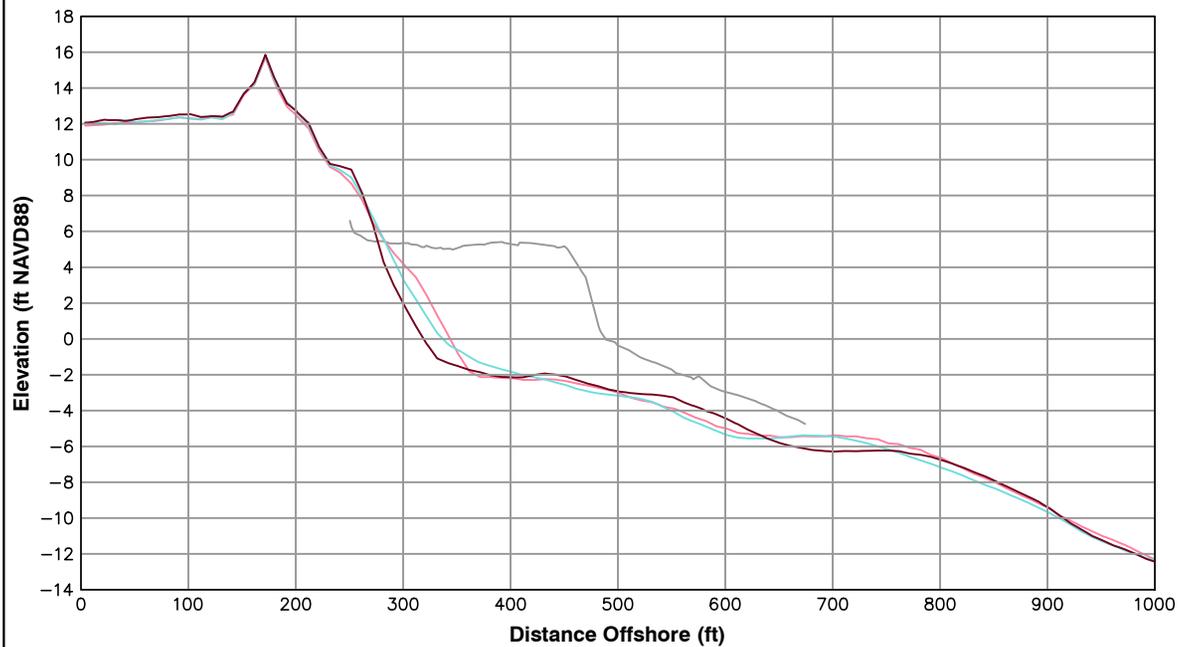
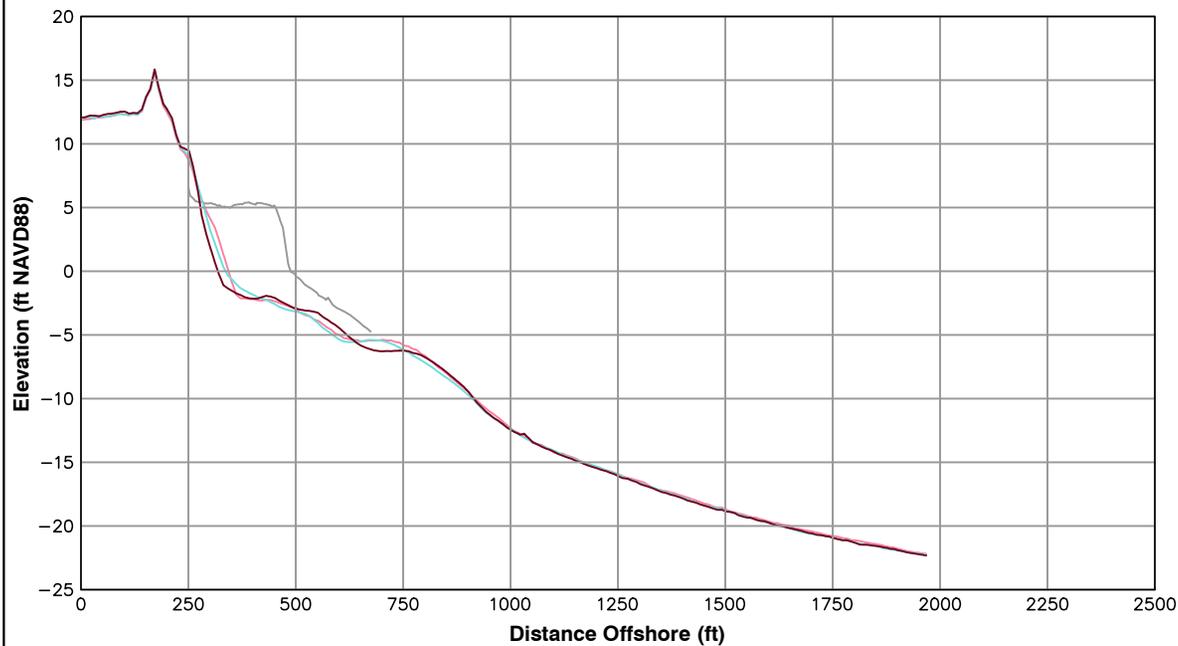


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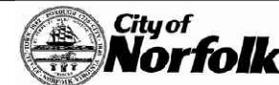
Survey Transect 375+08	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-26.43 ft/yr	-15.39 ft
Volume Change Above -15 ft NAVD88	-4.76 cy/ft/yr	0.23 cy/ft
Volume Change Above 0 ft NAVD88	-2.53 cy/ft/yr	-1.58 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.

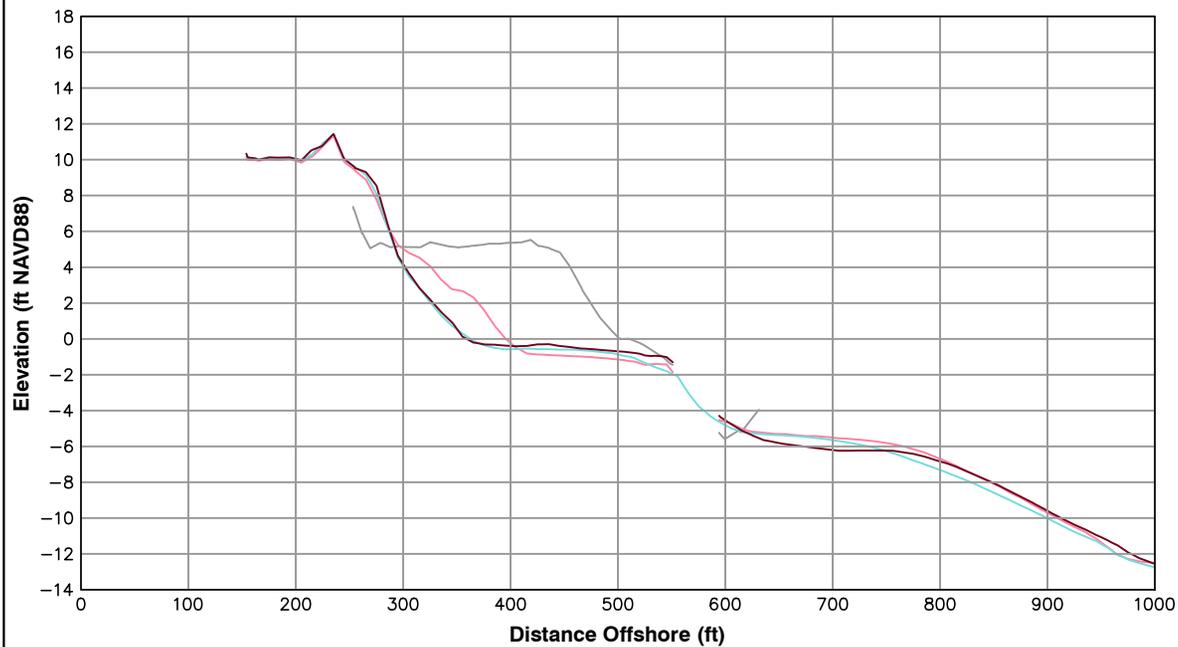
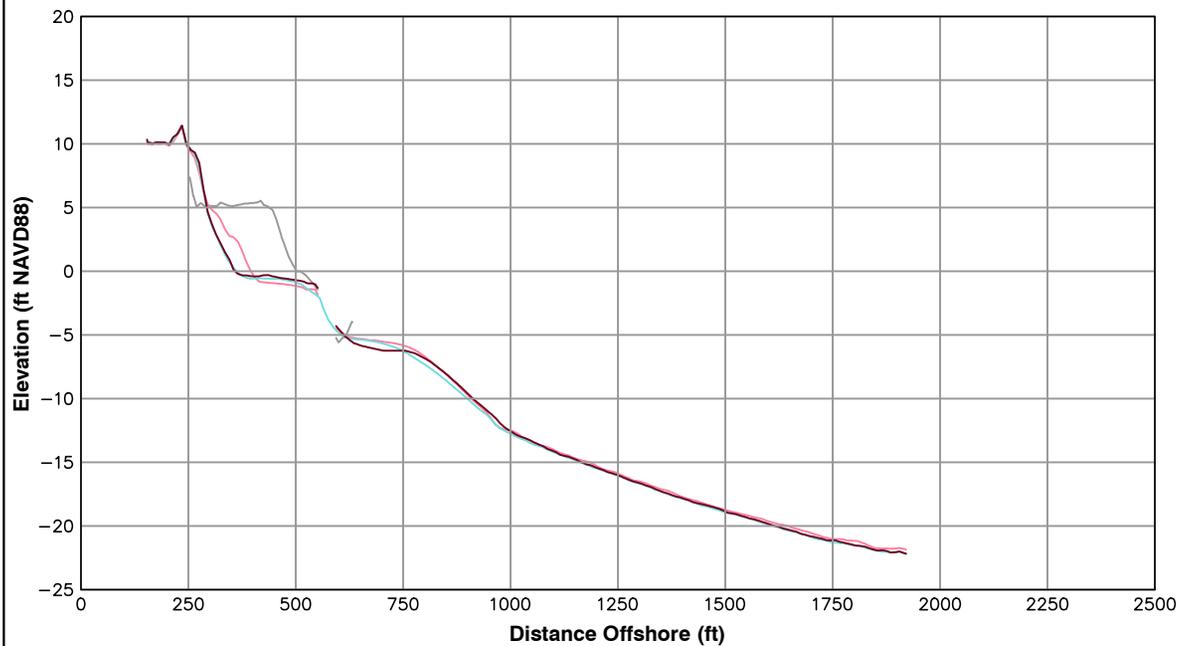


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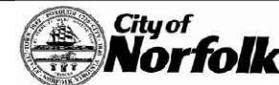
Survey Transect 376+78	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-39.33 ft/yr	3.44 ft
Volume Change Above -15 ft NAVD88	-5.78 cy/ft/yr	5.04 cy/ft
Volume Change Above 0 ft NAVD88	-5.12 cy/ft/yr	0.65 cy/ft

**LEGEND:**

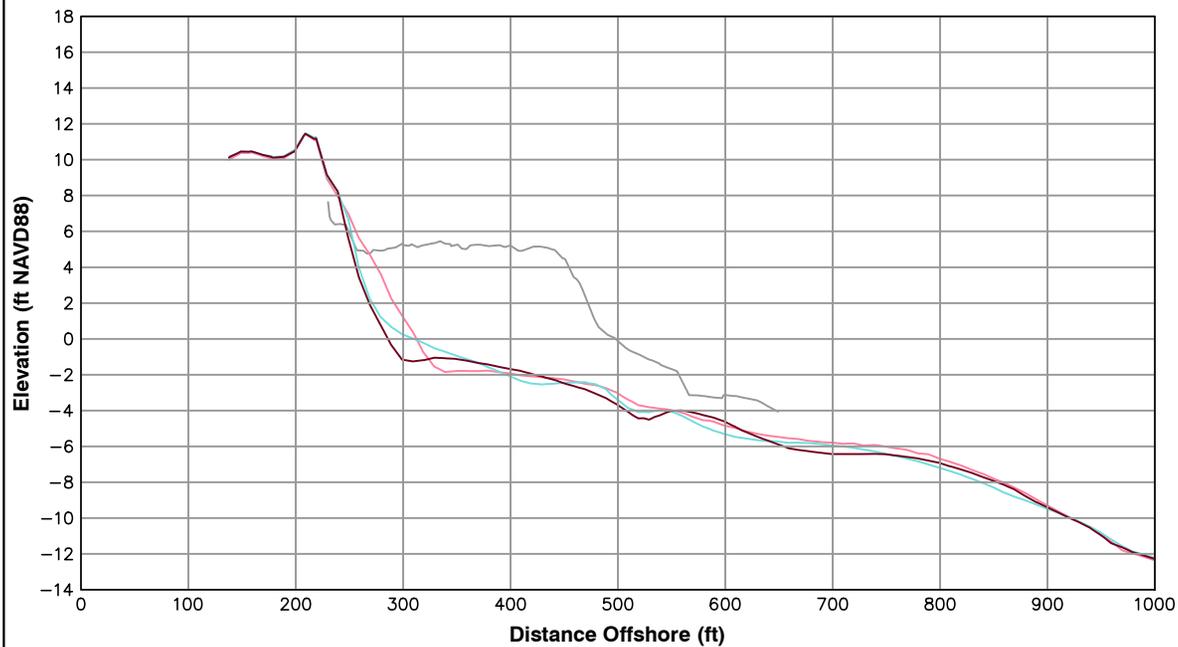
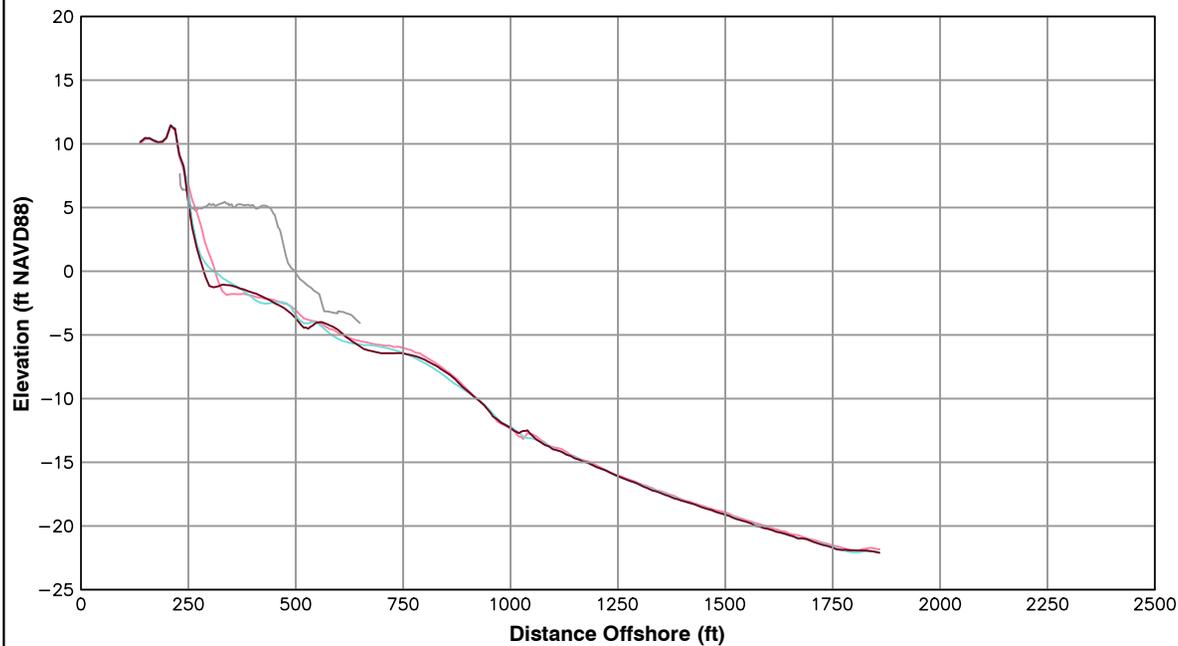
2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
3. All Survey Elevations In Feet Referenced to NAVD88.
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5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.



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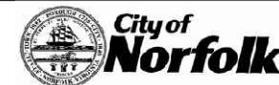
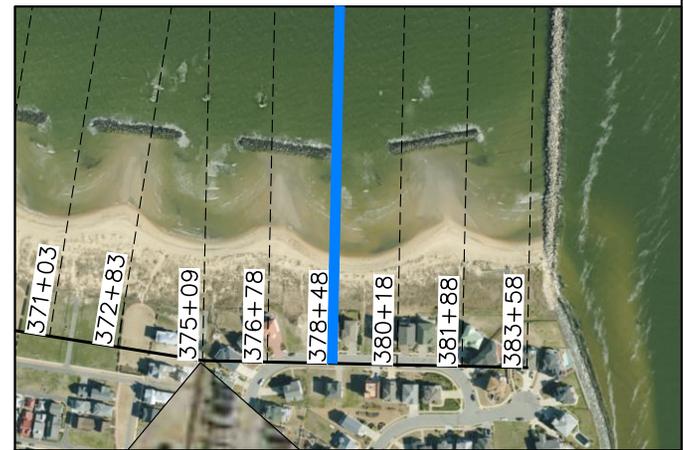
Survey Transect 378+48	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-26.30 ft/yr	-6.16 ft
Volume Change Above -15 ft NAVD88	-9.81 cy/ft/yr	-1.81 cy/ft
Volume Change Above 0 ft NAVD88	-4.66 cy/ft/yr	-1.33 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
2. Sections Are Viewed Toward Decreasing Stationing.
3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.

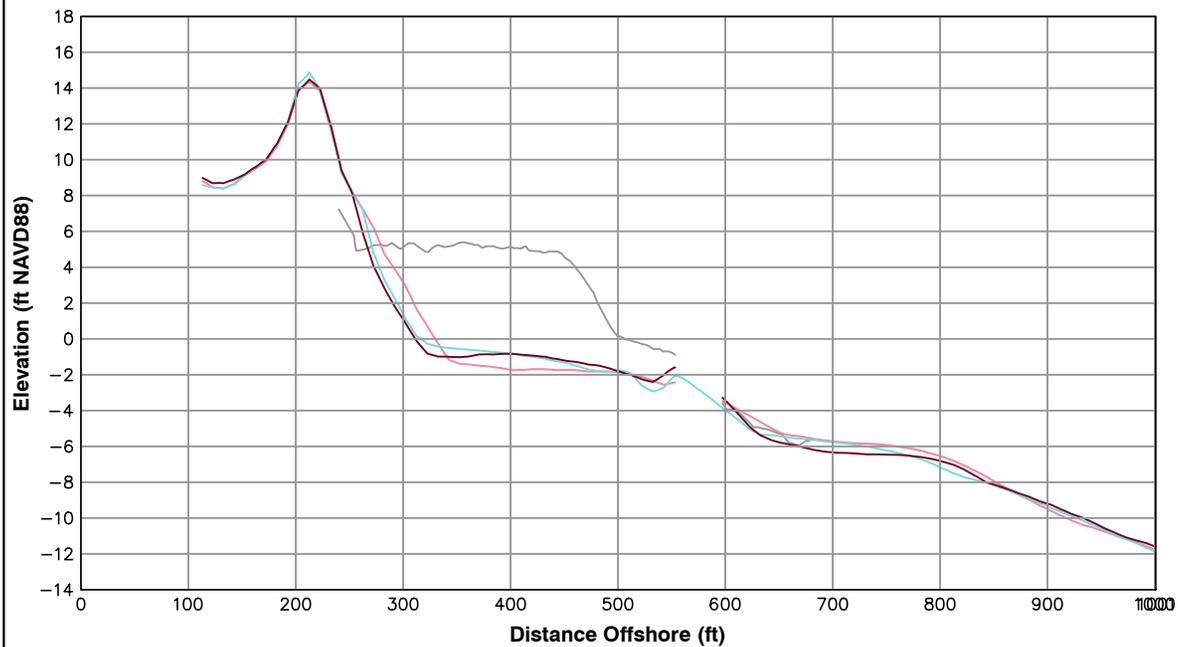
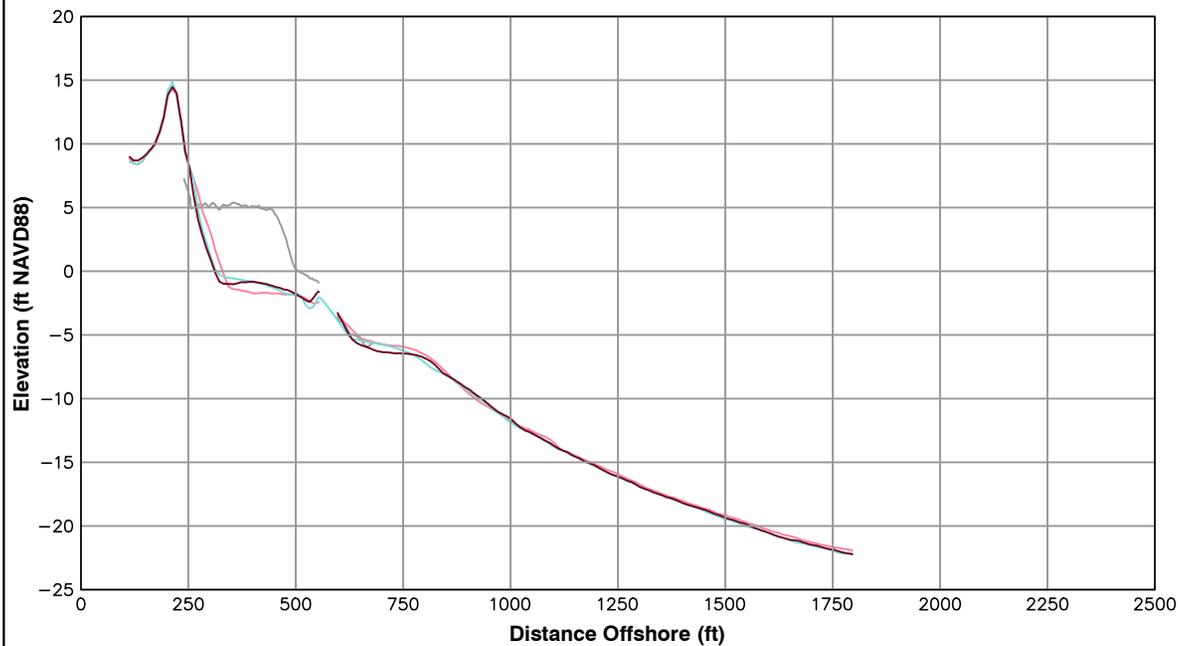


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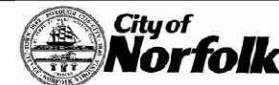
Survey Transect 380+18	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-19.20 ft/yr	-2.71 ft
Volume Change Above -15 ft NAVD88	-4.93 cy/ft/yr	-0.78 cy/ft
Volume Change Above 0 ft NAVD88	-3.83 cy/ft/yr	-0.96 cy/ft

**LEGEND:**

2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

1. Stationing From West To East At Varying Intervals.
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3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.

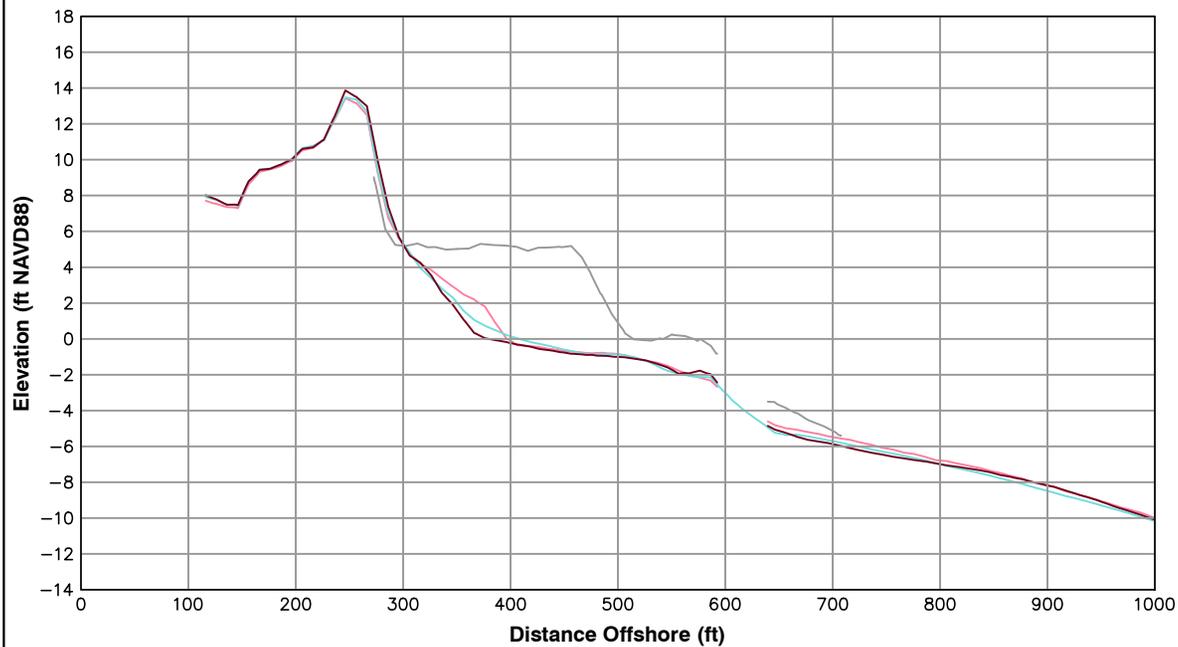
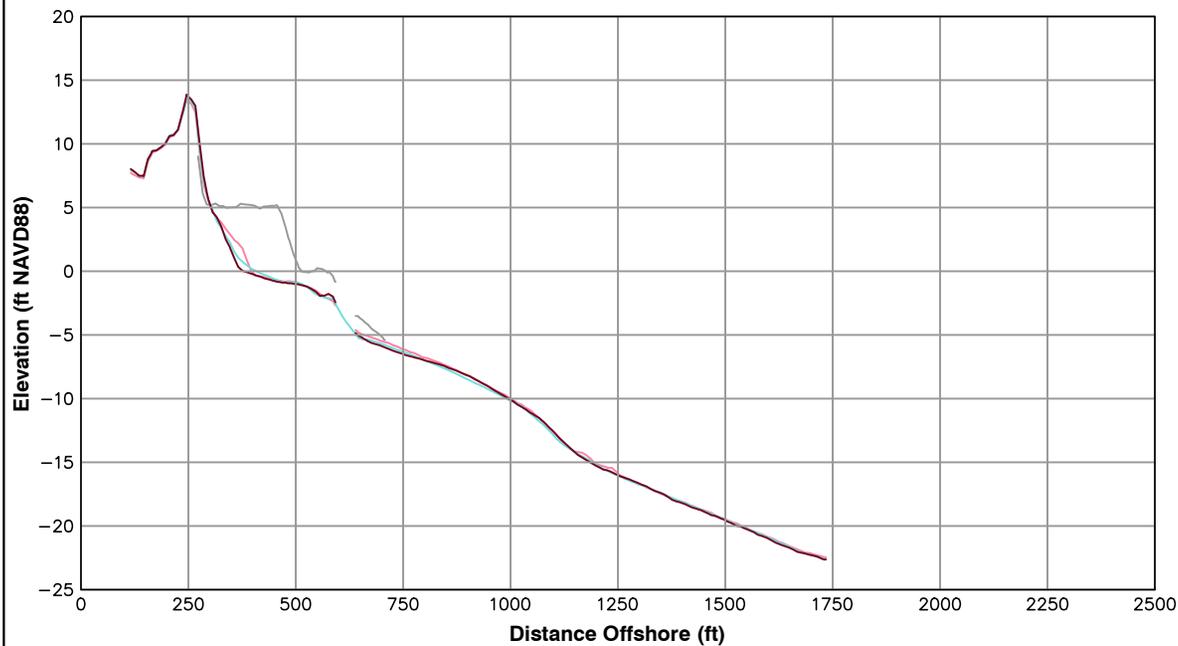


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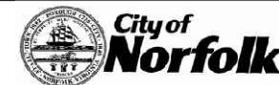
Survey Transect 381+88	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-28.25 ft/yr	-10.86 ft
Volume Change Above -15 ft NAVD88	-5.26 cy/ft/yr	0.56 cy/ft
Volume Change Above 0 ft NAVD88	-1.50 cy/ft/yr	-0.38 cy/ft

**LEGEND:**

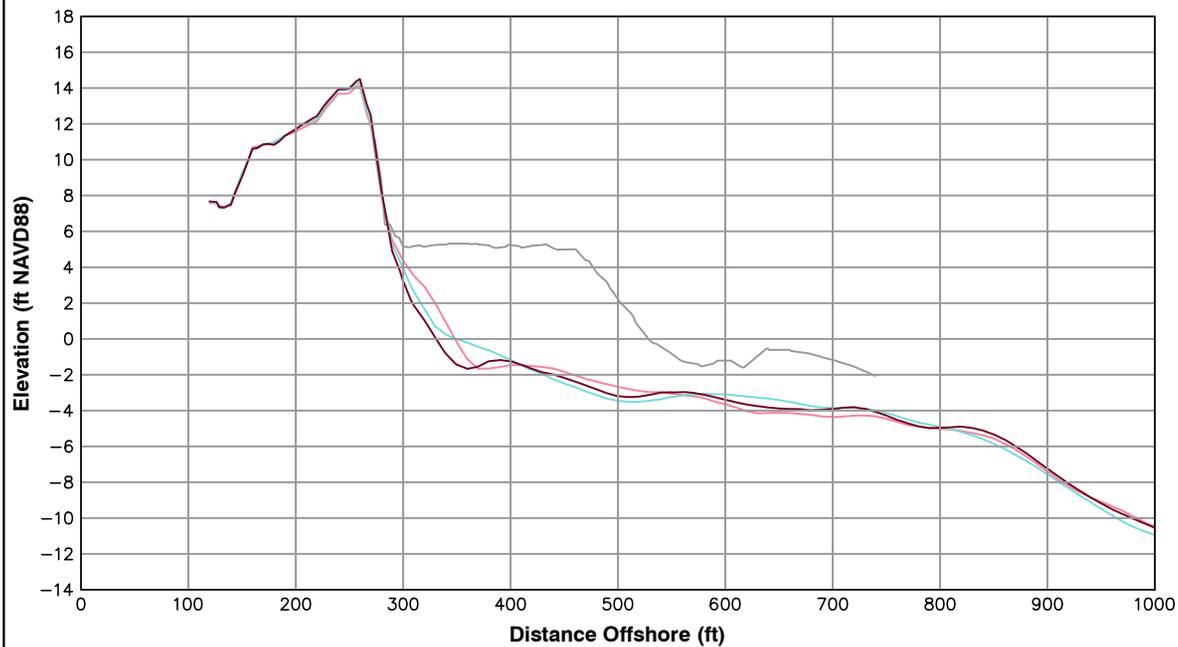
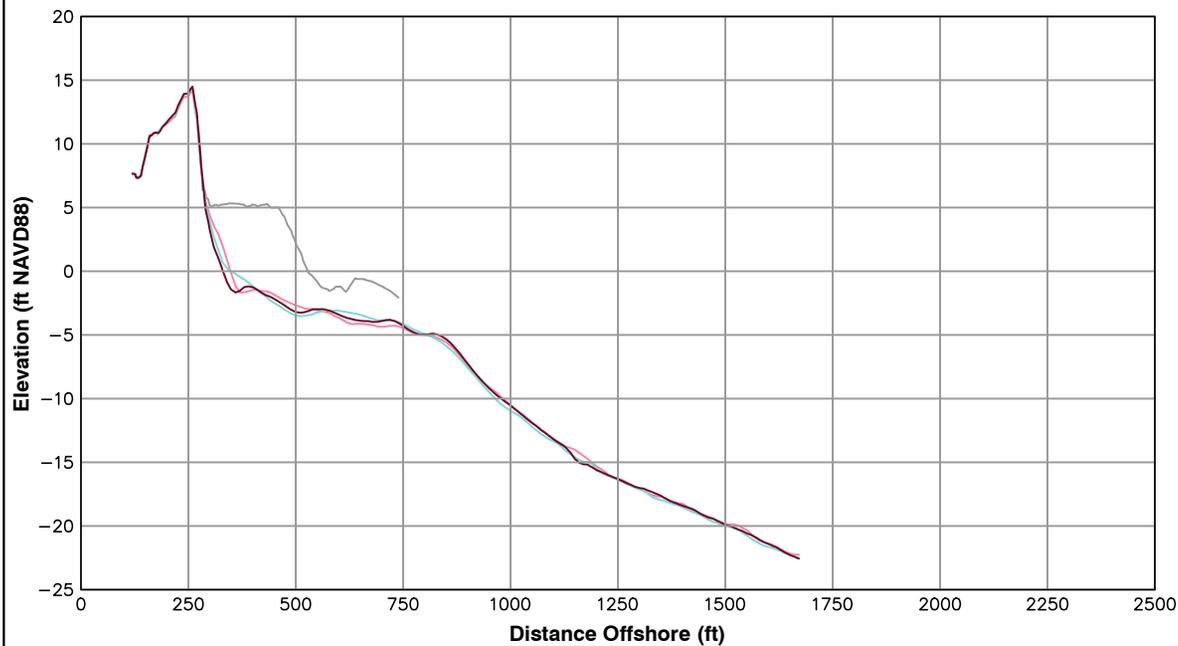
2014 MAR	<span style="color: darkred;">—</span>
2013 OCT	<span style="color: cyan;">—</span>
2013 APR	<span style="color: magenta;">—</span>
POST-FILL	<span style="color: grey;">—</span>

**Notes:**

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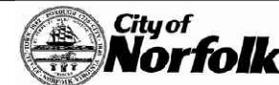
Survey Transect 383+58	March 2014 - April 2013	March 2014 - October 2013
Shoreline Change at MHW (0.98 ft NAVD88)	-19.07 ft/yr	-6.66 ft
Volume Change Above -15 ft NAVD88	-2.50 cy/ft/yr	0.45 cy/ft
Volume Change Above 0 ft NAVD88	-2.13 cy/ft/yr	-0.94 cy/ft

**LEGEND:**

2014 MAR	—
2013 OCT	—
2013 APR	—
POST-FILL	—

**Notes:**

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3. All Survey Elevations In Feet Referenced to NAVD88.
4. Survey Comparison Made To April 2013 and October 2013.
5. For Transects With Offshore Breakwaters, Volume Change Calculations Were Limited To The Portions Of The Profiles Both Landward And Seaward Of The Breakwater.



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