

<b>Shellfish Lease Investigation Report</b>	
<b>Investigation Date</b>	5/13/2021
<b>Applicants name</b>	Topsail Sound Shellfish, LLC - Ronald Sheffield
<b>Lease Number</b>	20-043BL/20-044WC
<b>County</b>	Pender
<b>Waterbody/location</b>	Seaside Areas (near Topsail Sound)/1402000000
<b>Proposed Lease Size (acres)</b>	1.29
<b>Lease Type</b>	Bottom/Water Column
<b>Investigation Team</b>	S. Tripp/A. Wells
<b>Gear Used</b>	766 - Patent Tong
<b>Sediment Type</b>	8 - sand (sand in hard and firm strata)
<b>Bottom Composition</b>	O - no grass
<b>Depth (m)</b>	1
<b>Tidal Stage</b>	High
<b>Water Temperature (°C)</b>	16
<b>Salinity (ppt)</b>	29.6
<b>Dissolved Oxygen (mg/L)</b>	6.98
<b>Comments on SAV in or around Proposed Lease location</b>	
<b>Other Species Collected</b>	
<b>In PNA?</b>	Yes
<b>In Polluted Area?</b>	No - Approved
<b>In Mechanical Clam Harvest Area?</b>	No
<b>In Mechanical Methods Prohibited Area</b>	Yes
<b>Other Comments</b>	

Application Coordinates		Modified Coordinates		Actual Coordinates	
34.37970000	-77.63026667	34.37934070	-77.63022692	34.37975083	-77.62940550
34.37930000	-77.63023333	34.37927108	-77.63102216	34.37936467	-77.63099667
34.38000000	-77.62815000	34.37982151	-77.63140639	34.37982483	-77.63131633
34.37956667	-77.62815000	34.37972570	-77.62966152	34.37948317	-77.63008400
34.37958333	-77.62920000				

### Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: **Topsail Sound Shellfish, LLC - Ronald Sheffield**      Proposed Lease #: **20-043BL/20-044WC**      Date: **5/13/2021**

Lease size: **1.29** acres      # of Samples: **43**

Sample #	Presence of SAV/ Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
1	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
2	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
3	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
4	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
5	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
6	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
7	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
8	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
9	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
10	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
11	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
12	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
13	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
14	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
15	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
16	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
17	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
18	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
19	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
20	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
21	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
22	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
23	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
24	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
25	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
26	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
27	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
28	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
29	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
30	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
31	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
32	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
33	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
34	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
35	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
36	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
37	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
38	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
39	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
40	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
41	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
42	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
43	0	0	0	0	5/13/2021	NA	O - no grass	8 - sand (sand in hard and firm strata)
	<b>SAV</b>	<b>Oysters (Eastern Oyster)</b>	<b>Clams (Quahogs)</b>	<b>Scallops</b>				
	<b>0</b>				<b>0%</b>	<b>OF SAMPLES CONTAINED SAV</b>		
	<b>TOTAL OF EACH SPECIES</b>	<b>0</b>	<b>0</b>	<b>0</b>				
	<b>TOTAL BUSHELS PER SPECIES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOTAL BUSHELS OF SHELLFISH PER ACRE</b>		

Proposed Lease ID/Number: 20-043BL/20-044WC  
 Topsail Sound Shellfish, LLC - Ronald Sheffield

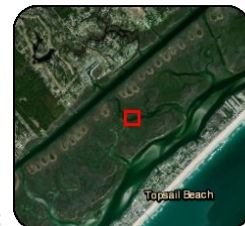
Date: 5/17/2021



- ▲ Proposed Corner Points
- Proposed Lease Area

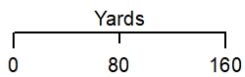
**Acreage: 1.29**


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 Proposed Lease Area

**Acreage: 1.29**



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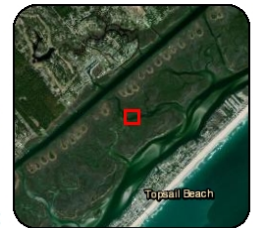


-  No Bivalve Shellfish Present
-  Proposed Lease Area

Acreage: 1.29

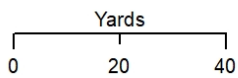
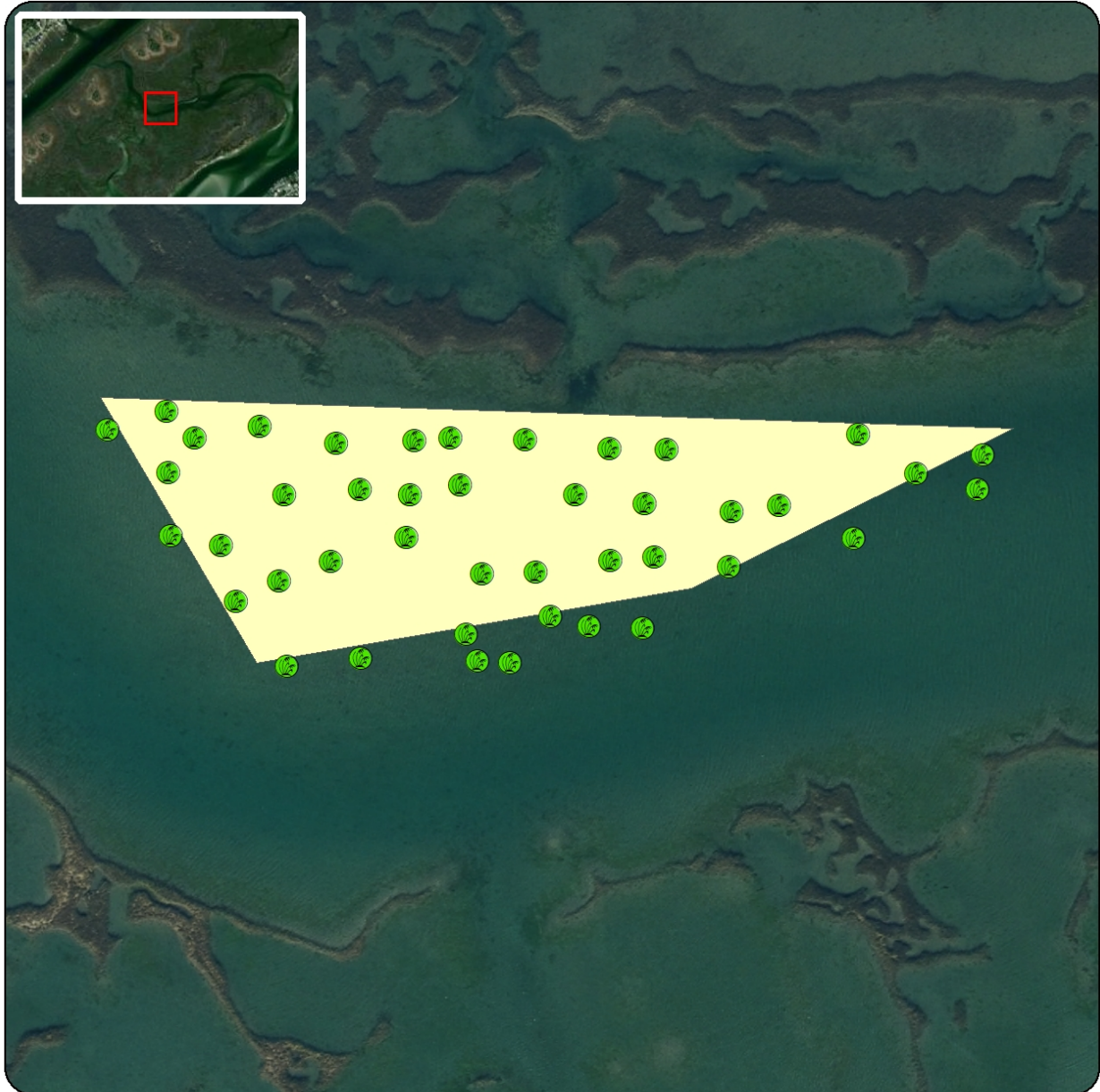




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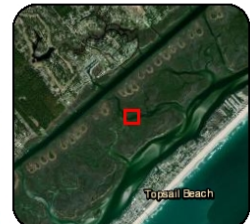
Date: 5/17/2021



-  No SAV Present
-  Proposed Lease Area

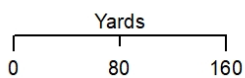
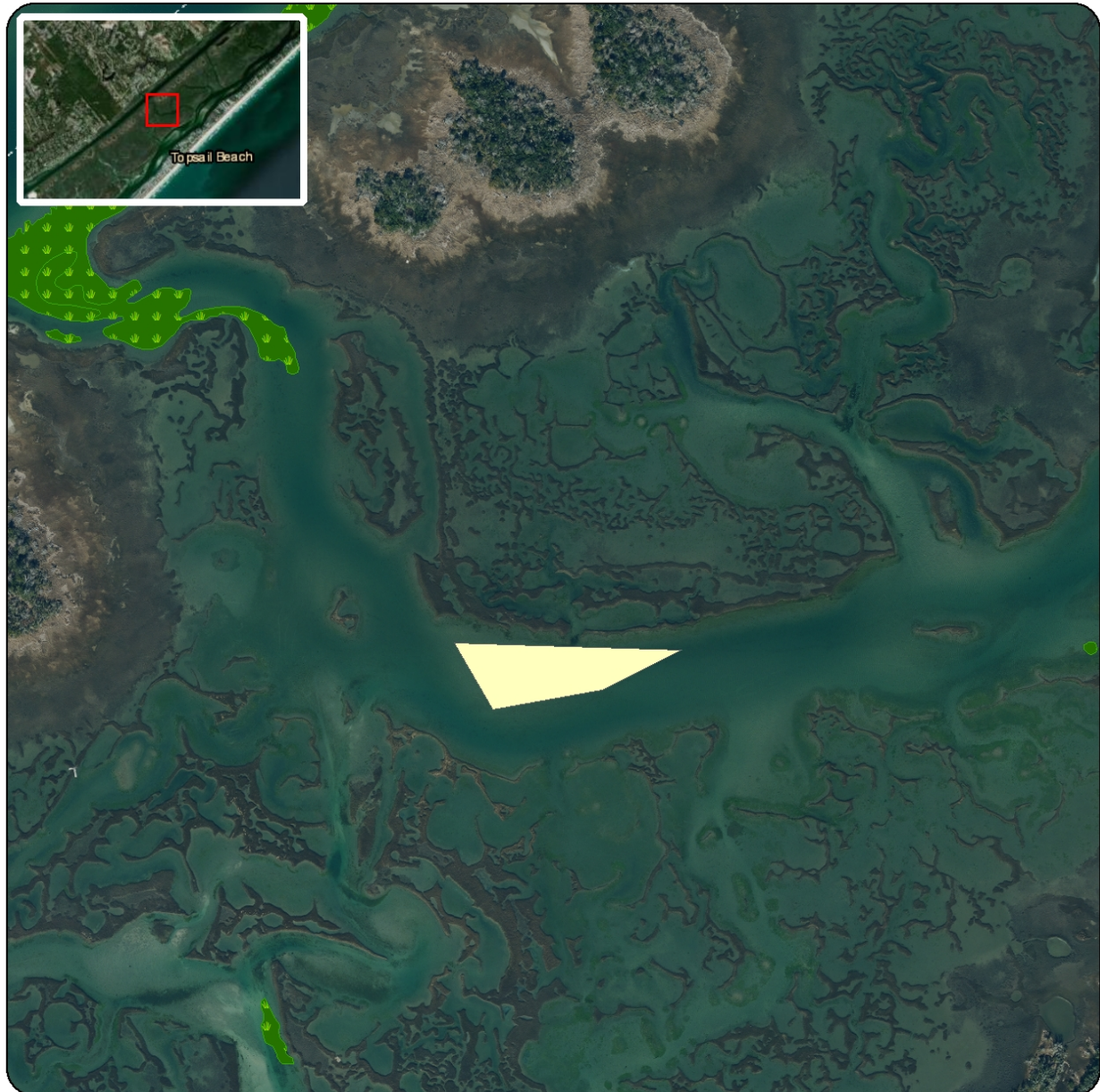
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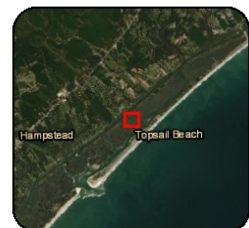
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- Submerged Aquatic Vegetation
- Proposed Lease Area

**Acreage: 1.29**

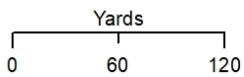
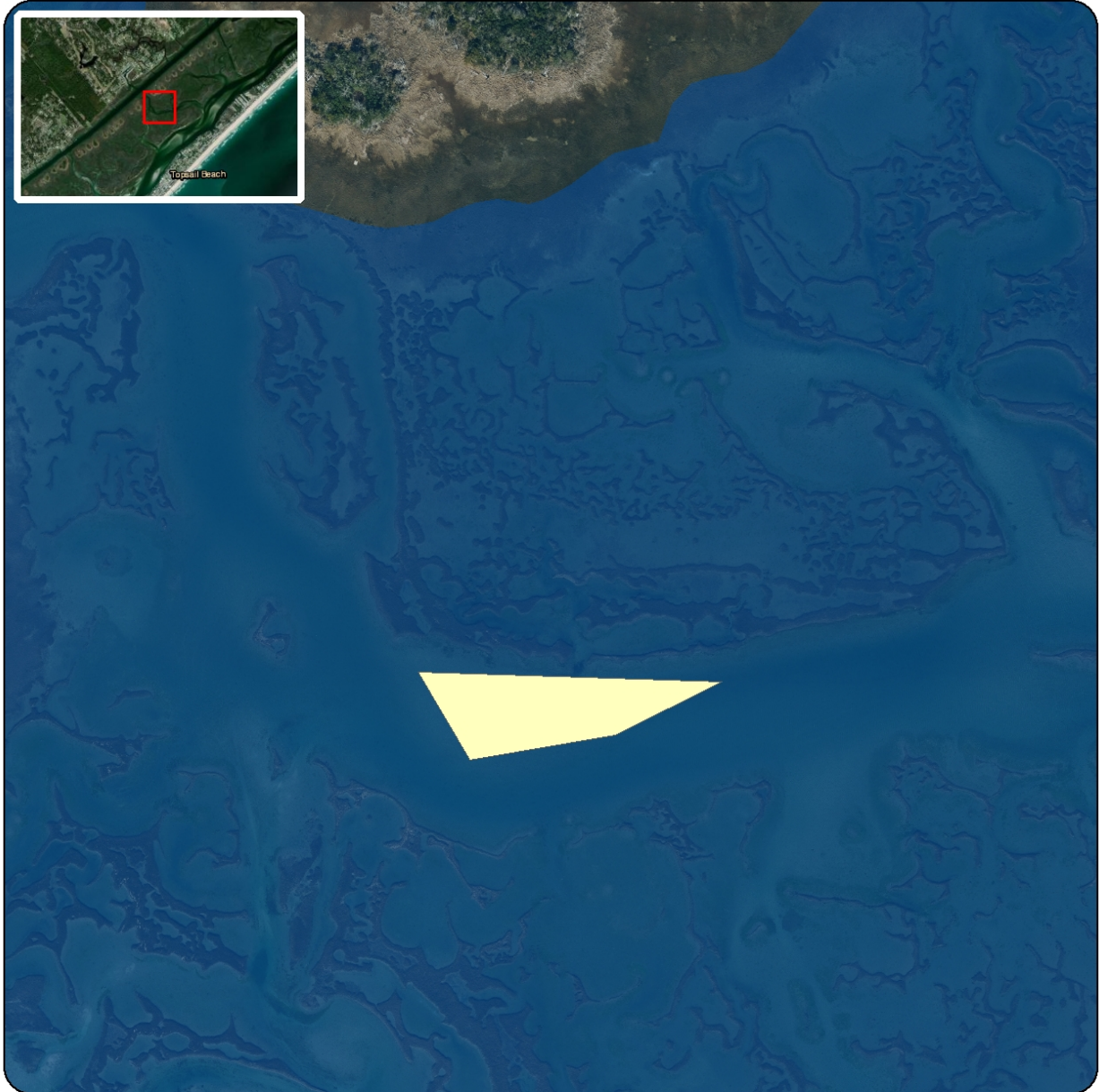
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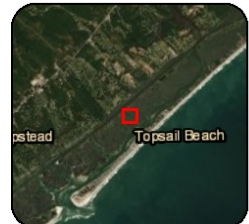
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- Proposed Lease Area
- Approved

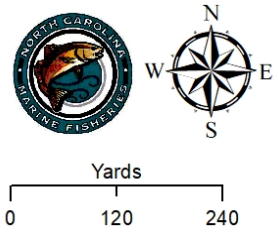
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- Proposed Lease Area
- Lease Type**
- Other Proposed Water Column
- Other Proposed Bottom

**Acreage: 1.29**

Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



