

# ACCABONAC HARBOR SUGAR KELP PILOT PROJECT

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EAST HAMPTON SHELLFISH HATCHERY

JANUARY 2022

#### WHAT IS SUGAR KELP?

- Saccharina latissima
- Large brown marine macroalgae
- Native to our area, found growing wild off Montauk



#### WHY CULTIVATE SUGAR KELP?

- Combats against excess nutrients
   entering waterways that impair water
   quality
  - Atmospheric deposition
  - Surface runoff (fertilizer, etc.)
  - Groundwater (septic)
- Provides high nutrient extraction
  - 100' kelp line could remove 1# N/yr.
  - I/A OWTS system removes 12#N/yr.



#### Myriad uses

- Pharmaceuticals
- Aromatherapy
- Beauty industry (alginates)
- Food
  - High in fiber, vitamins, minerals
- Fertilizer
- Historical
- Growing season is Nov. to May/June, one season
  - Fast grower, several inches/day











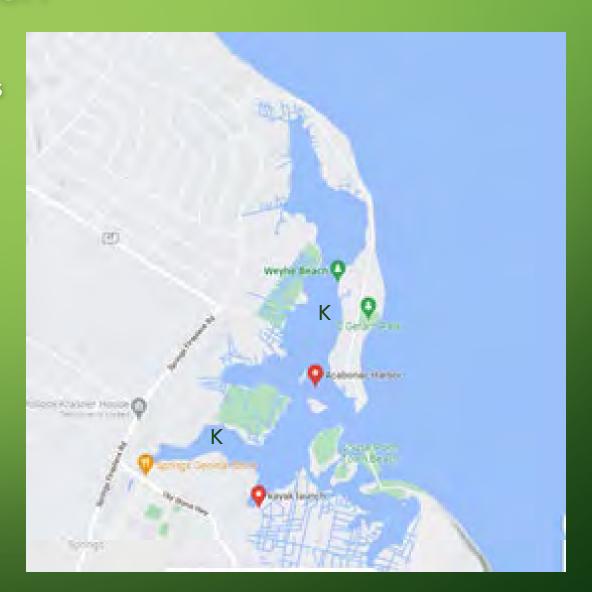
KELP JERKY



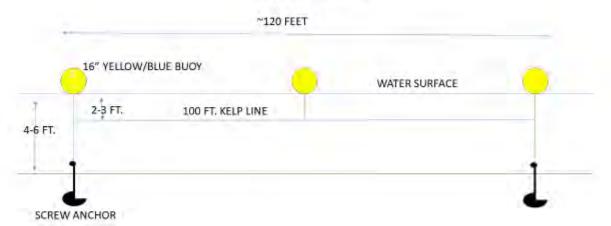


#### OUR PROJECT APPROACH

- Two sites each with 3-100' kelp lines
- "seeded" in December, monitored continuously for dissolved oxygen, temperature and light penetration
- Monitored monthly for Nitrogen & Phosphorus concentration, growth & salinity
- Harvest May for fertilizer at Town compost facility



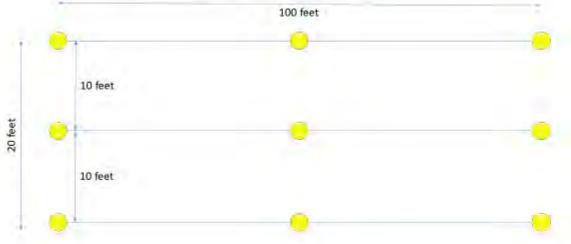
#### SIDE VIEW OF KELP LINE







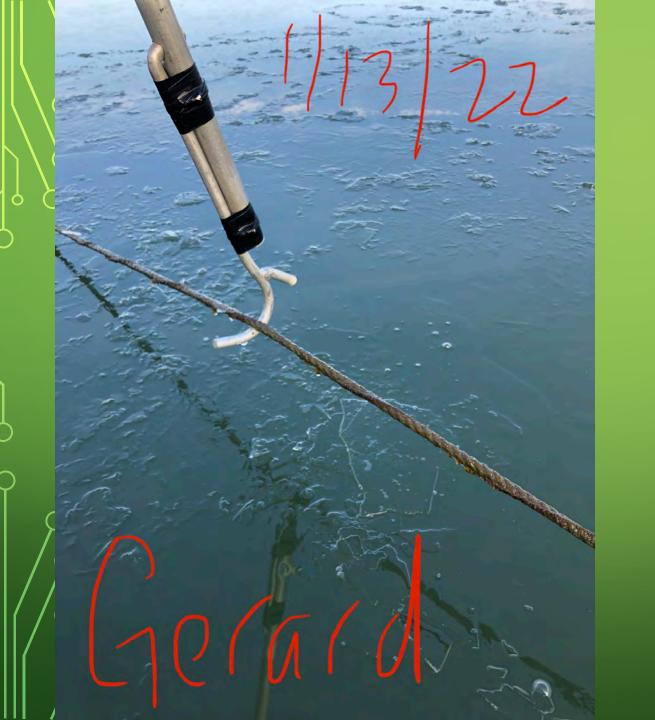




### Out-planting day 12-10-21









## WISHFUL THINKING...



Thanks to APC and EH CPF for funding!
And thanks for having me tonight.

Stay Tuned!