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TSPAC DRAFT TERRITORIAL SEA PLAN AMENDMENT

12/4/12

Draft Recommendation for TSP Amendment

Renewable Energy Exclusion Area (REEA)	Proprietary Use and Management Area (PUMA)	Resources and Uses Conservation Area (RUCA)	Resources and Uses Management Area (RUMA)	Renewable Energy Facility Suitability Study Area (REFSSA)	Renewable Energy Permit Area (REPA)
Special Management Areas designated by statute and OAR	**Areas with authorized uses and special management designations under Goal 19**	**Areas with important, sensitive, or unique Goal 19 Resources and Uses**	**Areas with important or significant Goal 19 Resources and Uses**	**Areas of least conflict with Goal 19 Resources and Uses**	**Areas of existing MREC permits**
MRE applications will not be accepted within these areas	MRE applications will not be accepted unless legally permissible, comply with the authorized use and area standards, and agreed to by the authorized users.	MRE applications must demonstrate **no reasonably foreseeable adverse effects** on inventoried marine resources and uses.*	MRE applications must demonstrate **no significant adverse effects** on inventoried marine resources and uses.	MRE applications must comply with **TSP Part Five Sections B and C**, general standards, and the applicable regulatory and proprietary requirements of state and federal agencies.*	OPT and NNMREC Sites with existing authorization for the development of MRE testing, research or facilities.

Higher ⟵ Impact Standards ⟶ Lower

Visual Resource Area Overlay

Marine Recreation Area Overlay

Screening standards apply to all areas

Draft TSP Standards Summary

	General Fisheries Standards	Visual Resource Impact Standards	Recreational Resource Impact Standards	No Significant Adverse Effects	No Reasonably Foreseeable Adverse Effects	Presumptive Exclusion
REEA	n/a	n/a	n/a	n/a	n/a	n/a
PUMA						
RUCA						*ISU
RUMA						
REFSSA				*Ecological		
REPA	n/a	n/a	n/a	n/a	n/a	n/a

Renewable Energy Exclusion Area (REEA)

To protect permitted uses and special management areas under Goal 19 Ocean Resources.

- No development of marine renewable energy will be permitted in these areas.
- Currently, 96 mi^2 ~ 8%

Resource Inventory Layers Included:

- State Designated Marine Managed Areas including Marine Reserves and Protected Areas
- Dredge Material Disposal Sites

Proprietary Use and Management Area (PUMA)

Areas with authorized uses and special management designations under Goal 19 Ocean Resources.

- MRE applications will not be accepted unless the use is legally permissible, complies with the authorized use of the area, and has been agreed to by the authorized users.

- Currently, 96 mi^2 ~ 8%

Resource Inventory Layers Included:

- Commercial Shipping Lanes (Deep & Shallow draft)
- Coastal Discharge Outfalls
- Coastal National Wildlife Refuges
- OR Islands National Wildlife Refuges
- Research Cables and Infrastructure
- Undersea Telecommunication Cables
- Ocean Outfalls
- Pilotage Areas

Resource and Use Conservation Area (RUCA)

Areas of important, significant, or unique (ISU) ecological resources, significant economical importance to commercial fishing sectors, recreational fishing, or individual ports, and ocean recreation hotspots.

- MRE applications must demonstrate that the project will have no reasonably foreseeable adverse effects on inventoried marine resources and uses as determined by the standards for protecting those resources and uses.
- Currently, 923 mi^2 ~ 73%

Resource Inventory Layers Included:

- Areas of Greatest Importance to Fisheries
- Ocean Recreation Hotspots
- Kelp Beds
- Subtidal Rocky Reef
- Rock Shores Habitat
- Pinniped Haulout
- Steller Sea Lion Critical Habitat
- Nesting Seabird Colonies
- Snowy Plover Critical Habitat
- Level I Marxan (core hotspots)

Resource and Use Management Area (RUMA)

Areas with important or significant ecological resources, economically important to commercial fishing sectors, recreational fishing, or individual ports.

- MRE application must demonstrate no significant adverse effects on inventoried marine resources and uses as determined by the standards for protecting those resources and uses.
- Currently, 106 mi^2 ~ 8%

Resource Inventory Layers Included:

- Oceanographic Research Inventory
- Crabber Tugboat Agreement lanes
- Ocean Recreation
- Gray Whale Foraging Area
- Marbled Murrelet Foraging
- Level II Marxan (core hotspots)
- Areas of Great Importance to Fisheries

Renewable Energy Facility Study Suitability Area (REFSSA)

Area with lowest potential adverse effects with ecological resources and activities relating to commercial fishing sectors, recreational fishing, or individual ports.

- A proposal for MRE development must comply with TSP Part Five Sections B and C, and the applicable regulatory and proprietary requirements of state and federal agencies.
- Would not automatically exclude other uses
- Currently, 24 mi^2 ~ 2%

Resource Inventory Layers Included:

- All

Renewable Energy Permit Area (REPA)

Areas are delineated sites for which there is an existing authorization for the development of MRE testing, research or facilities.

- Applications for MRE development within a REPA must comply with the terms and conditions required by the regulating agency authorization for the site.
- Currently, 6 mi^2 ~ 1%

Resource Inventory Layers Included:

- OPT permitted site
- NNMREC permit site

Marine Recreation Area Overlay

Proposal: Standard applicable to the entire Territorial Sea

A. Ocean renewable energy may not have a significant adverse effect on significant known recreational uses.

B. A significant adverse effect occurs when:
   I. Access is denied or unreasonably impeded.
   II. The project creates reasonably foreseeable health or safety impacts.
   III. The project would have reasonably foreseeable significant impacts on the natural environment that the recreational community depends on.

C. Significant recreational use occurs where there is a:
   I. Community of historical users;
   II. High intensity of use, or
   III. Uniqueness or a special quality associated with the recreational use relative to the state or region.

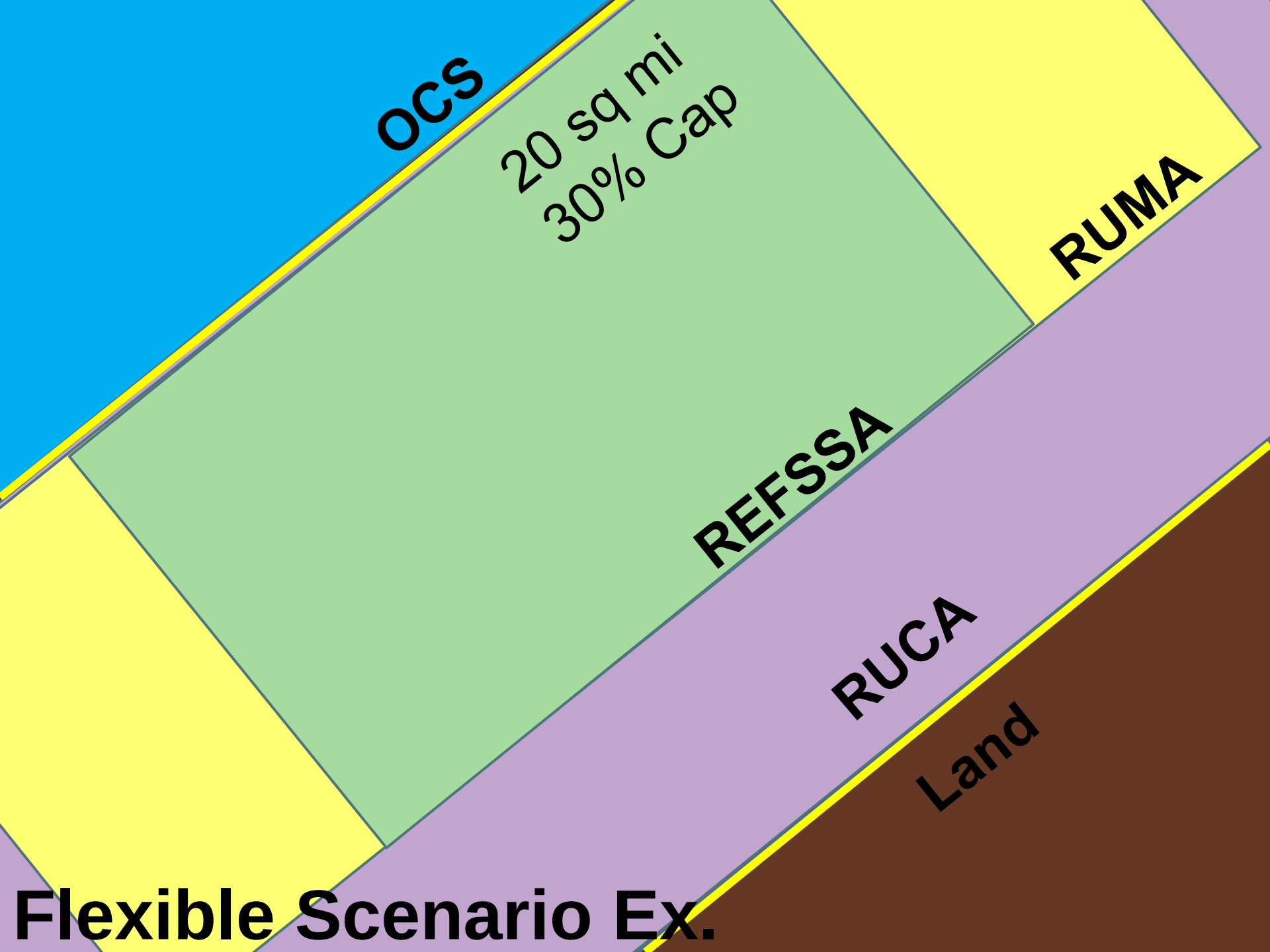
Visual Resource Overlay

Visual Resource Management has 2 distinct phases:

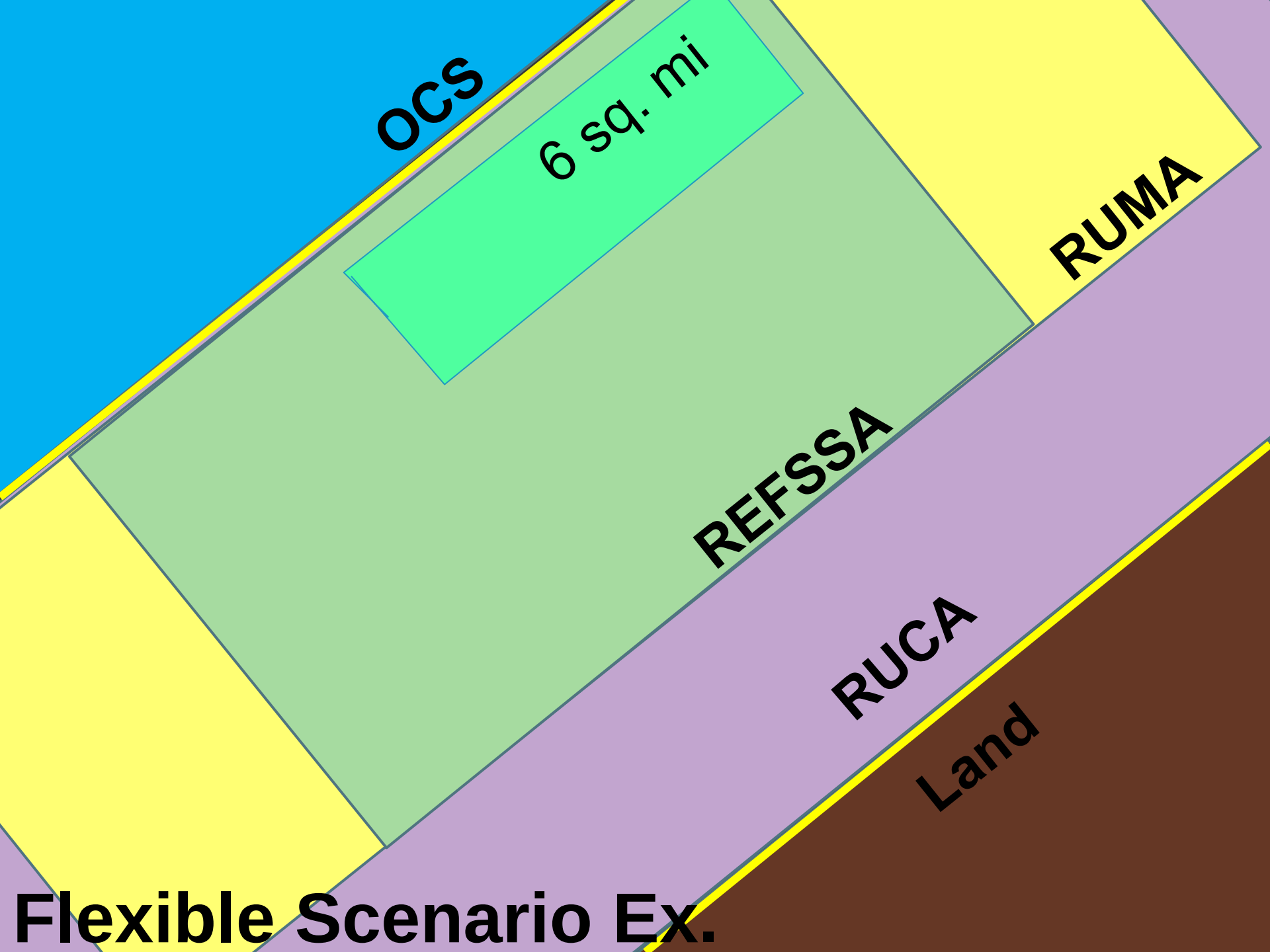
- ***Planning phase:*** **inventoried sites are given a visual resource rating. The visual resource inventory assessment (VRIA) will be incorporated into the plan to the full extent of the Territorial Sea.**

- ***Regulatory phase:*** **project applicant will be required to conduct an evaluation of potential impacts to visual resources, or a Visual Impact Analysis (VIA).**

Hypothetical scenarios for applying caps on areas



Flexible Scenario Ex.



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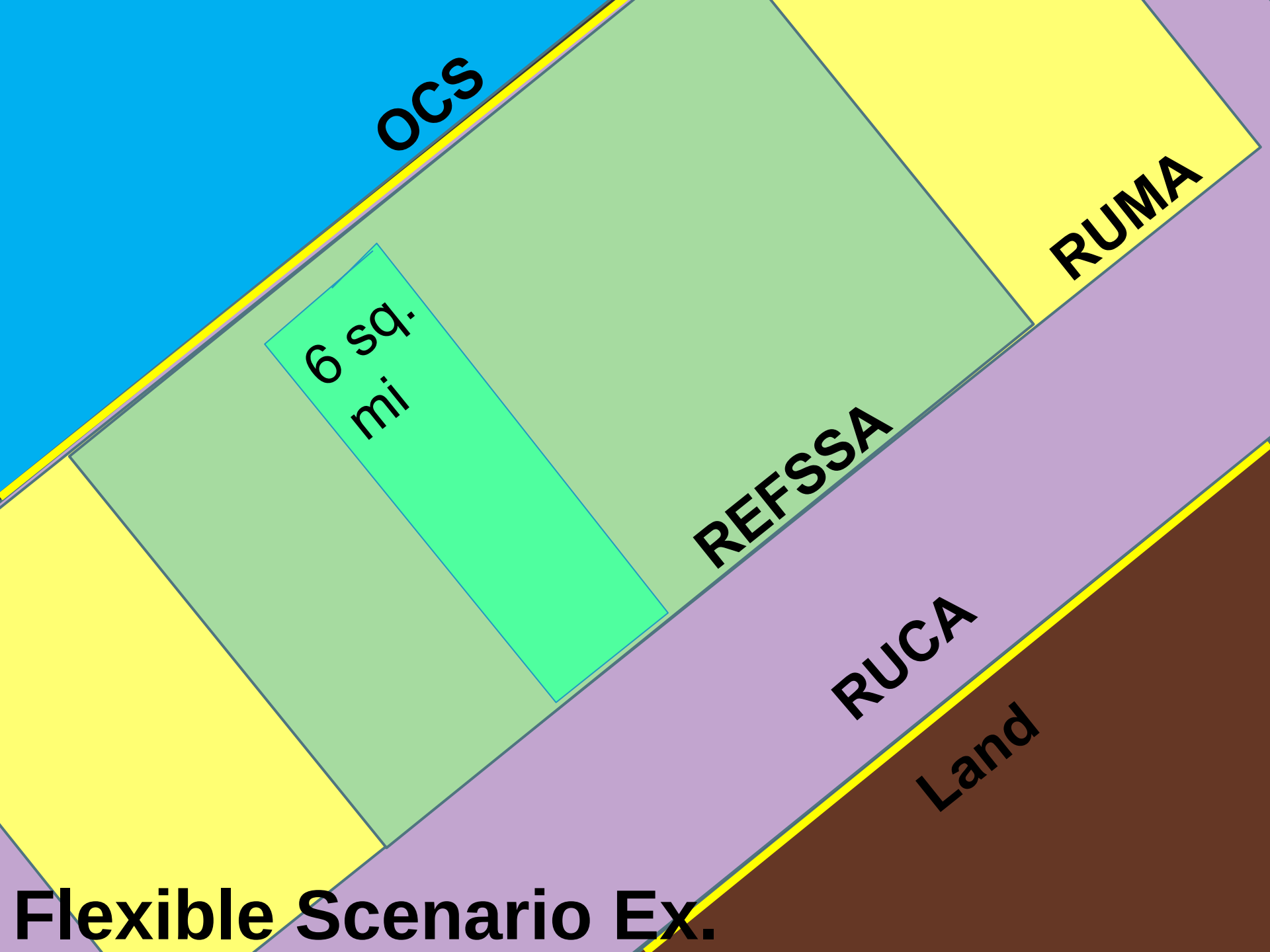

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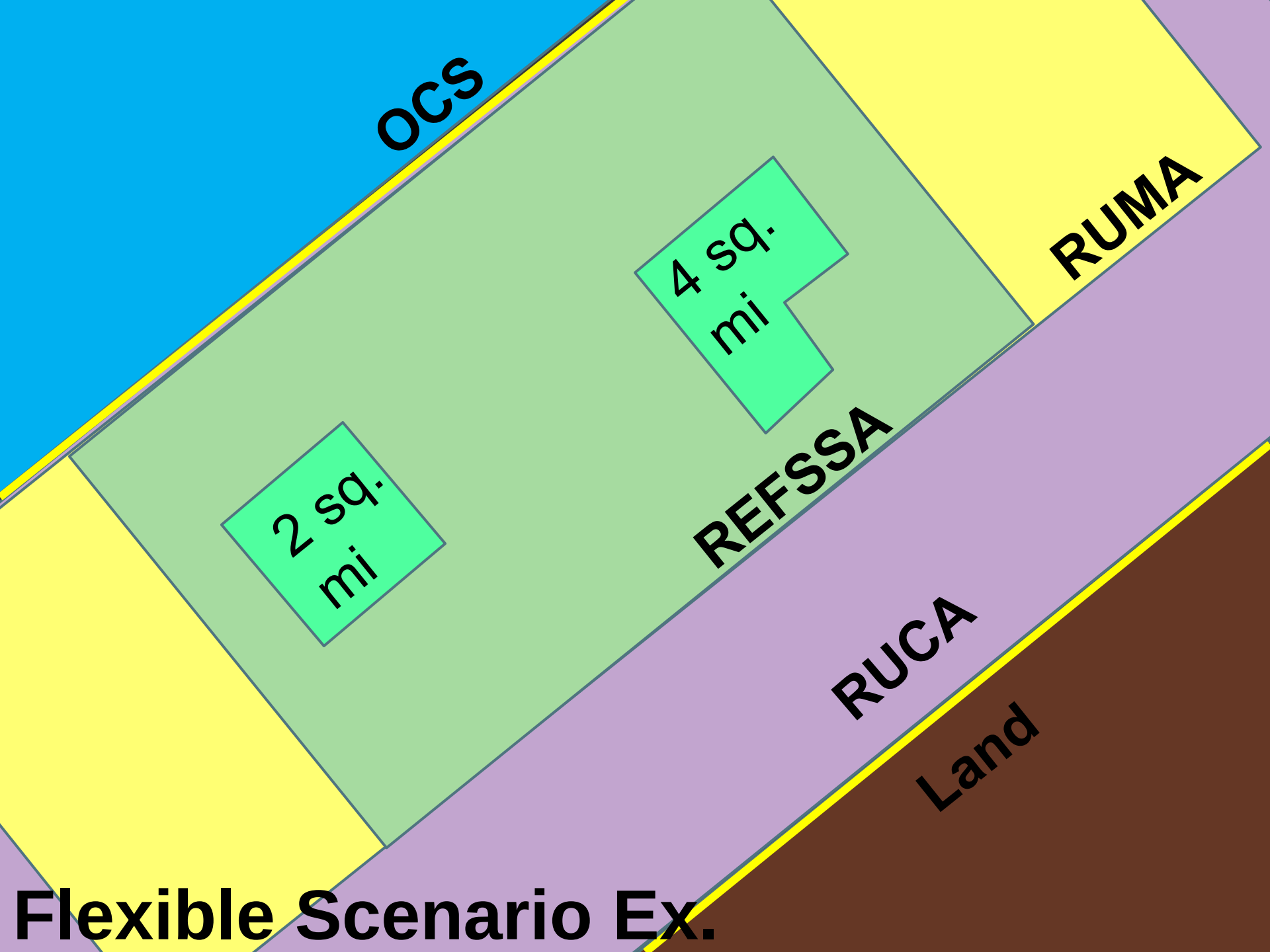

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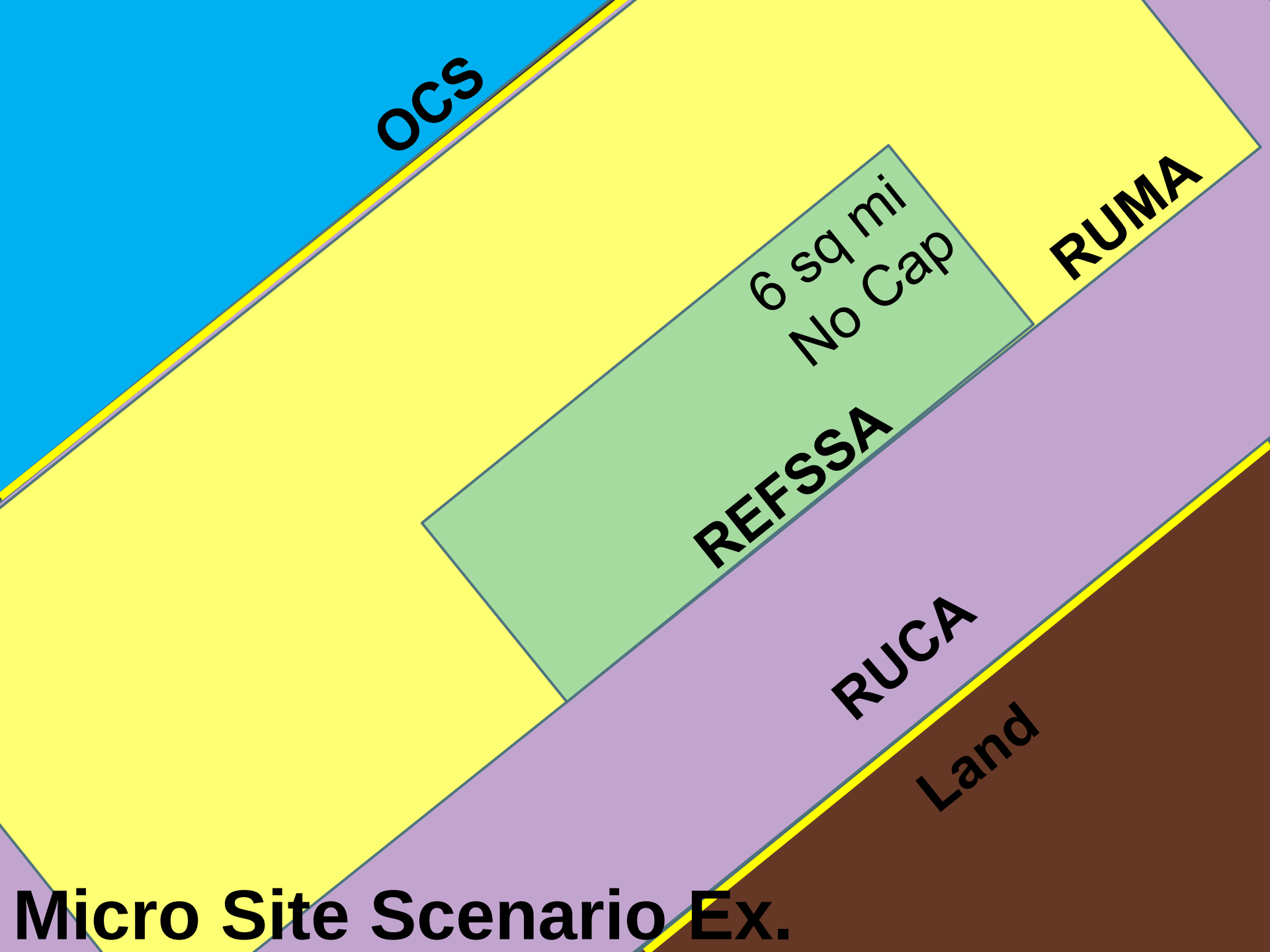
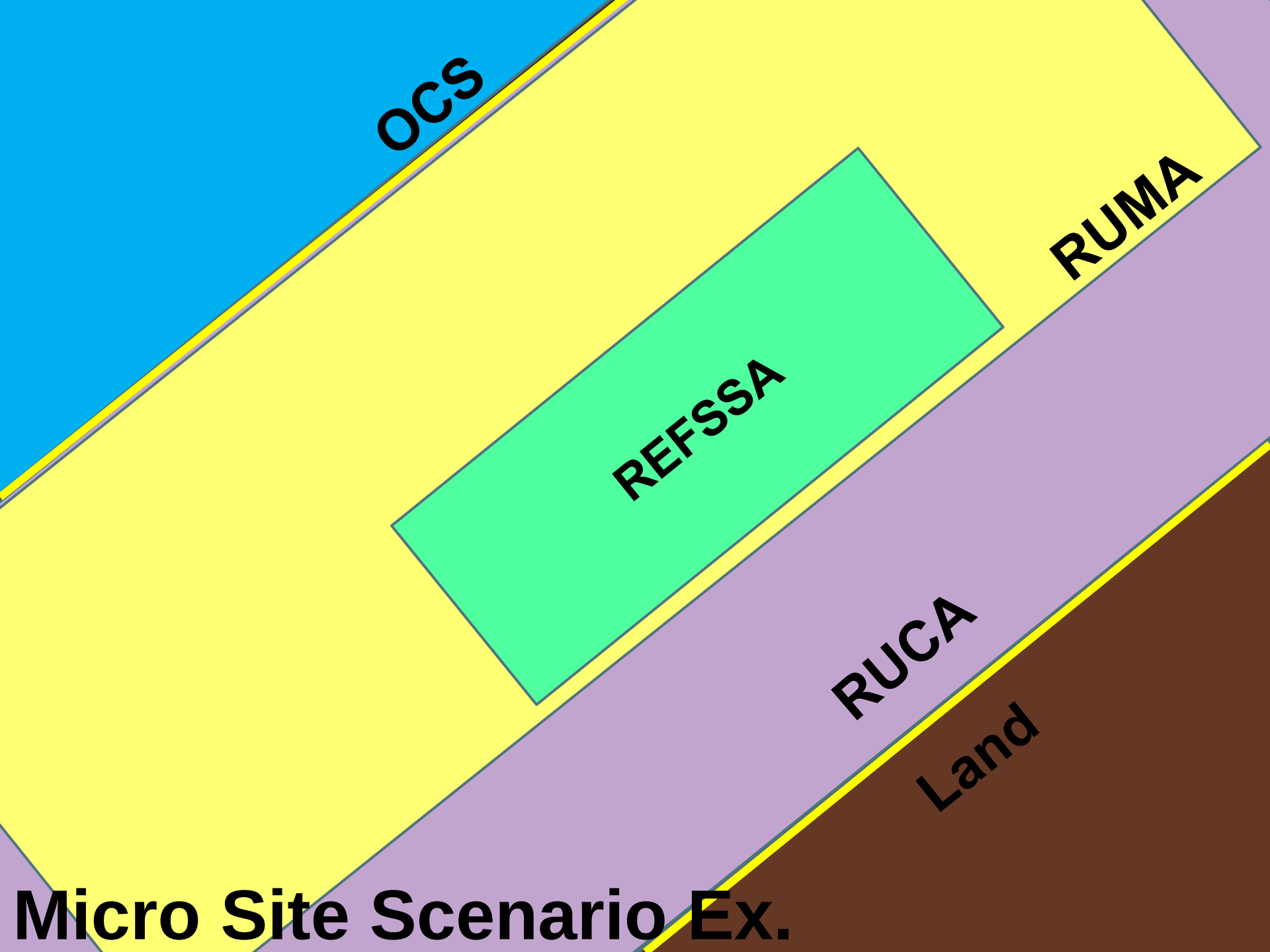


Micro Site Scenario Ex.



Micro Site Scenario Ex.

Proposal Site Discussion

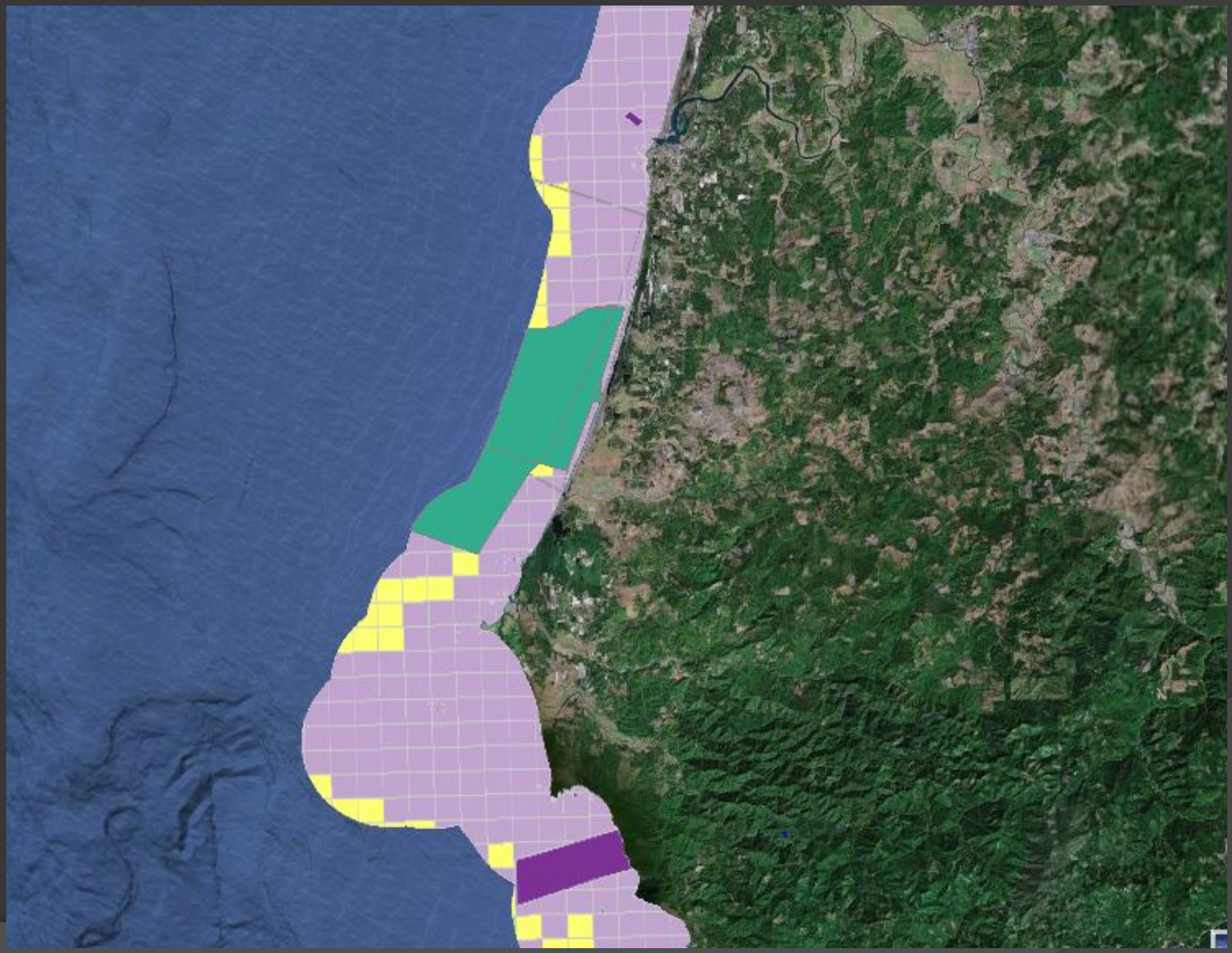
Proposal Sites

- Governors Office and OPAC asked TSPAC to consider Wave energy Industry needs
- Energy subcommittee evaluated 13 sites for suitability and conflict with fishery and ecological resources
- 8 proposal sites to be considered
  - Gold Beach
  - Langlois
  - Lakeside (revised)
  - Reedsport
  - North Newport
  - Nestucca Bay / Pacific City
  - Camp Rilea
  - OPT Reedsport

LANGLOIS	
Potential Benefits	**Concerns**
Top site for wave energy development	Increases pressure on Coos Bay port, site density
Best candidate for large site - ~25 sq mi	Not captured on maps, but described as prime crab habitat
3 substations	Proximity to Blacklock. Interest in increasing the ecological and aesthetic buffer. (Current distance is 1.5 miles.)
Private land and limited shore view impacts	Effect on smaller fleets
Covers RUDA from resource inventories	Marbled murrelet occurrence in in-shore sections from Marxan

- **Consensus not to eliminate the site, but area where sideboards will be essential**
- One proposal to shift the site back to the north, increasing buffer to Blacklock.
- POORT alternate proposal for ~4 sq miles near shore.

Size: 36.7 mi^2 (Original) -> 25.3 mi^2 (Energy Sub), 4 mi^2 (POORT)



LAKESIDE REVISED (SOORC)	
Potential Benefits	**Concerns**
Ecological concerns not as high	Large vessel navigation, may be difficult to site within 3 mi of Coos Bay, esp. with LNG
	Proposal was not discussed thoroughly by Energy Subcommittee
Size: 4.3 mi^2	

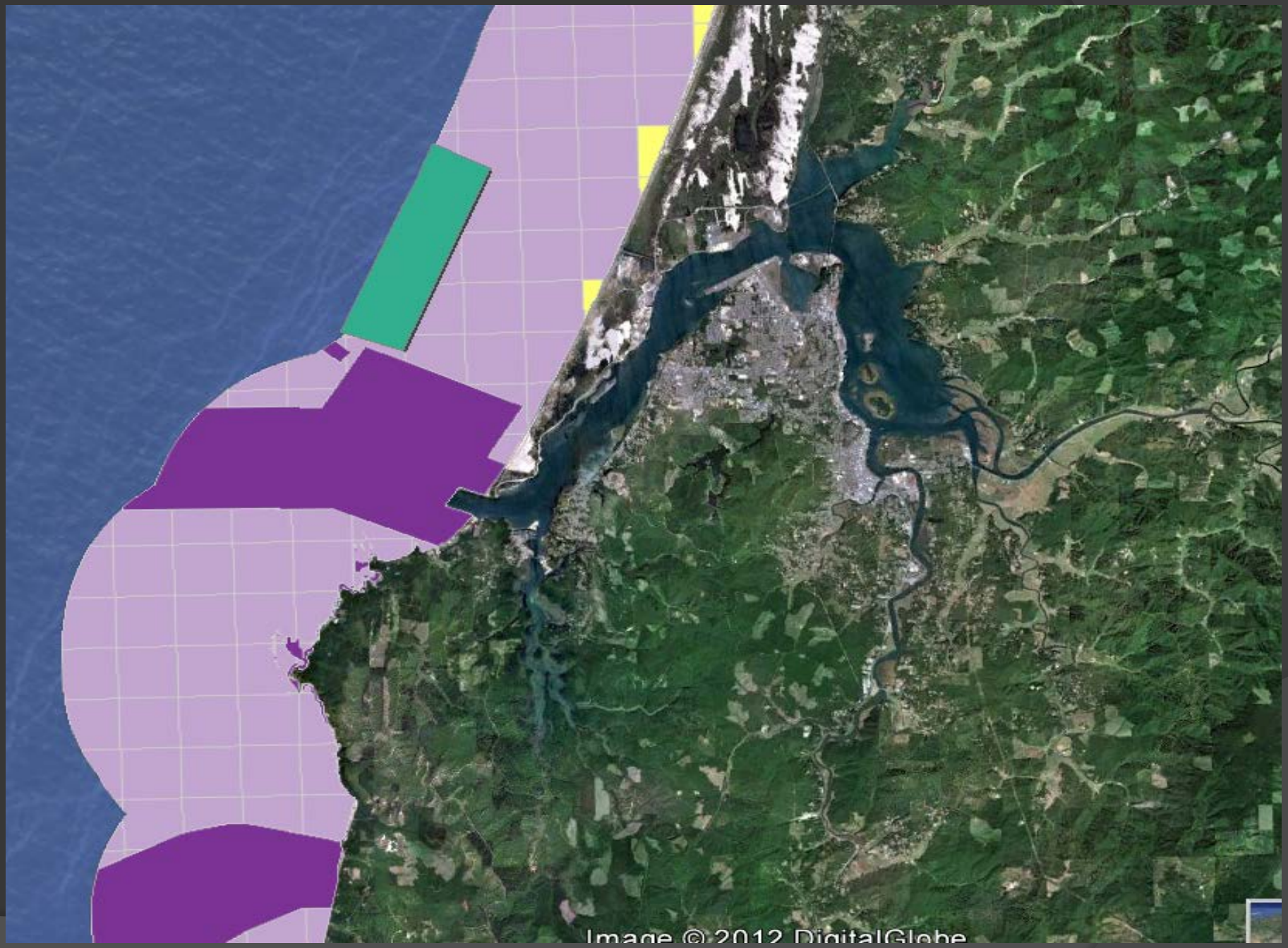
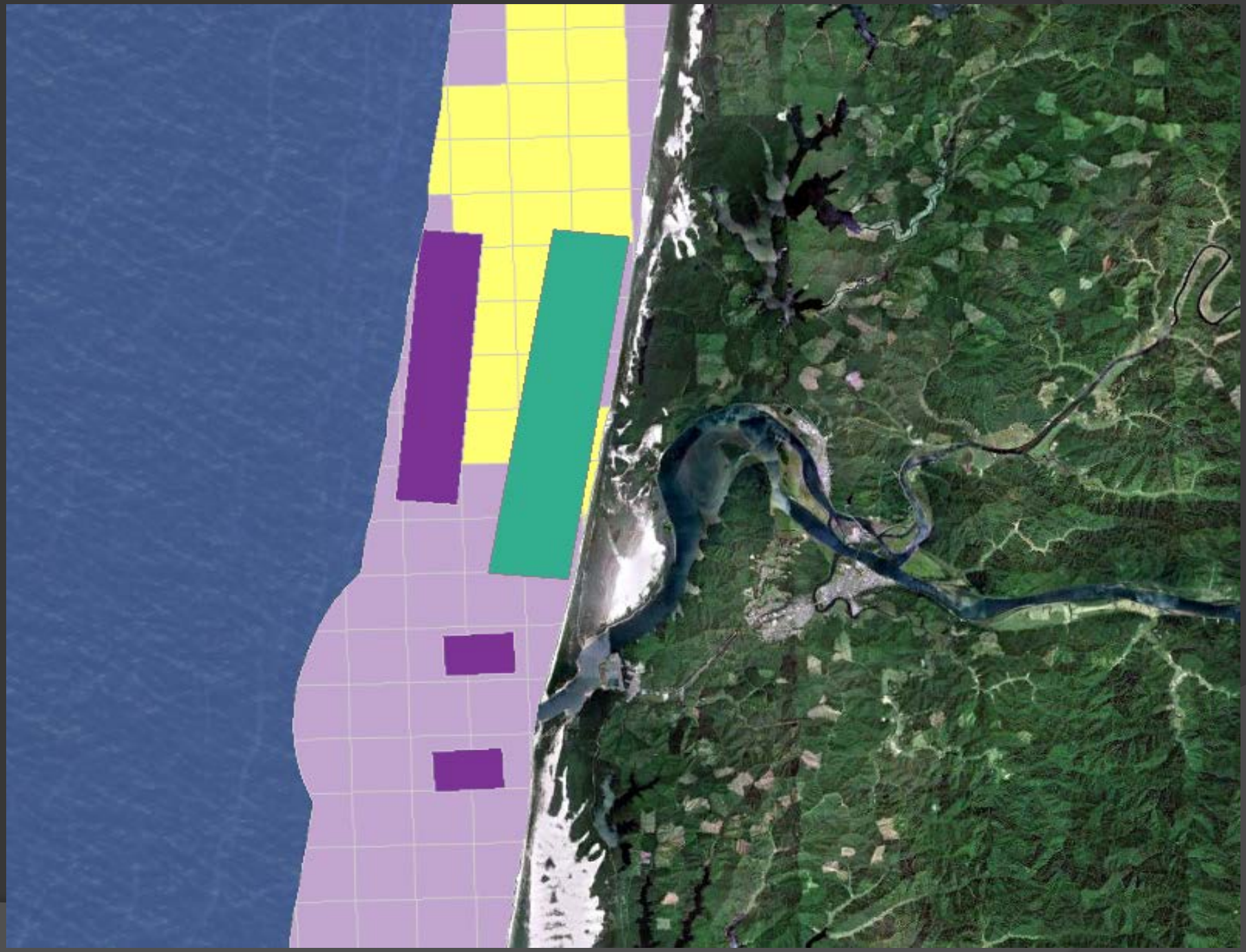


Image © 2012 DigitalGlobe

REEDSPORT	
Potential Benefits	**Concerns**
One of the top sites for wave energy development	Cumulative effects of OPT, potential PMEC, and site
Community that wants renewable energy, needs economic development	Nearshore environment very challenging for development; logs and sand production from Umpqua
Substations present, may be PMEC site in OCS	Winter and summer steelhead migration, snowy plover habitat, whale migration.
Supports nearshore technology	Takenitch north of site, valuable for coho production
Site moved to nearshore to avoid fishing impacts	Effect on smaller fleet out of the Umpqua
This site would be in addition to the OPT Reedsport permitted site	Seabird use, marbled murrelet foraging area hotspot, less so further offshore.

- **Consensus not to eliminate the site**
- Proposal to (1) shift site out to mid-depth, but will hit crab maps; or (2) expand the site into the mid- and near-shore space and use sideboards on total development.
- OPT to provide detail on spatial development plan within its site, for single buoy and 10-buoy phases.

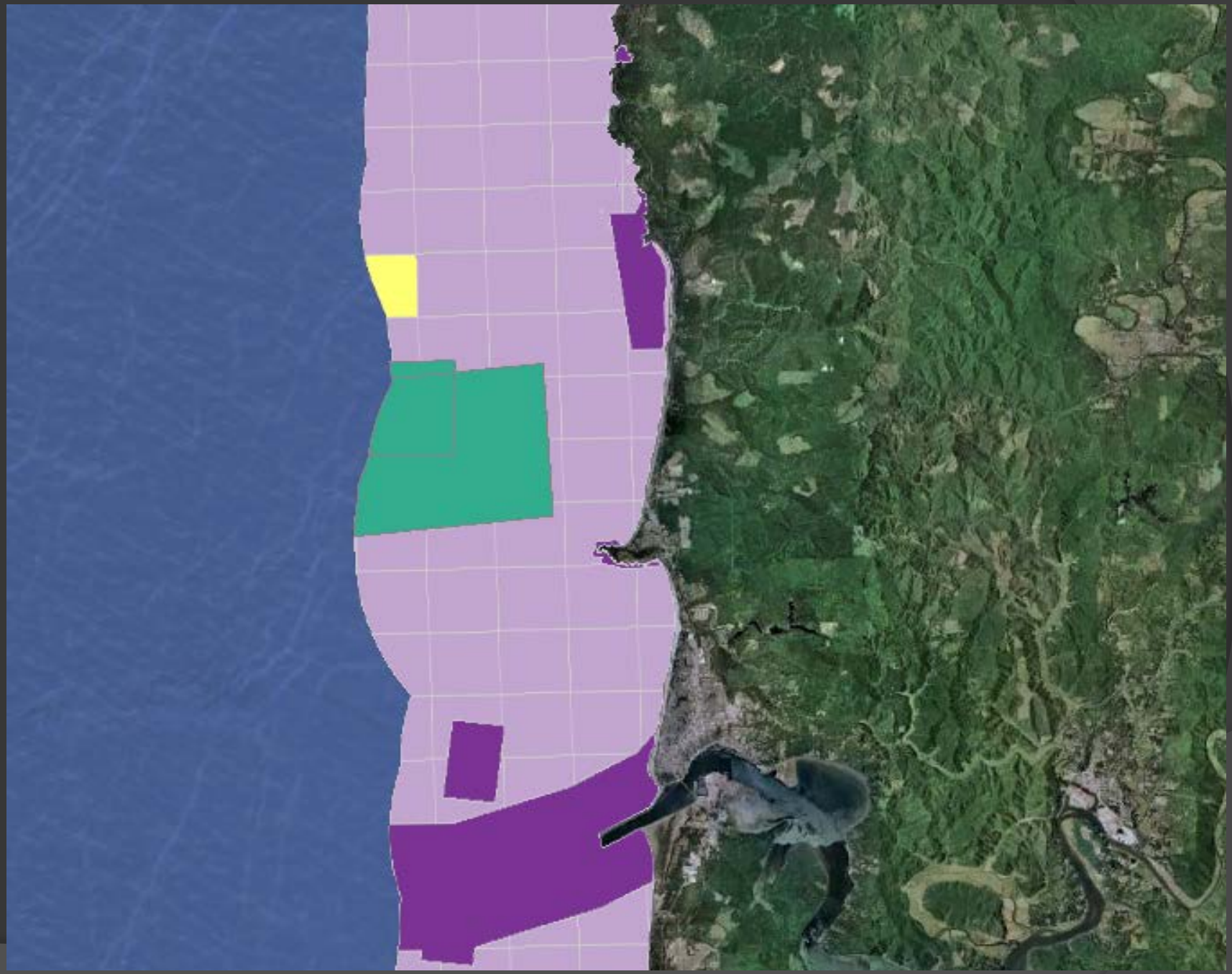
Size: 28.7 mi^2 (Original) -> 8.12 mi^2 (Energy sub)



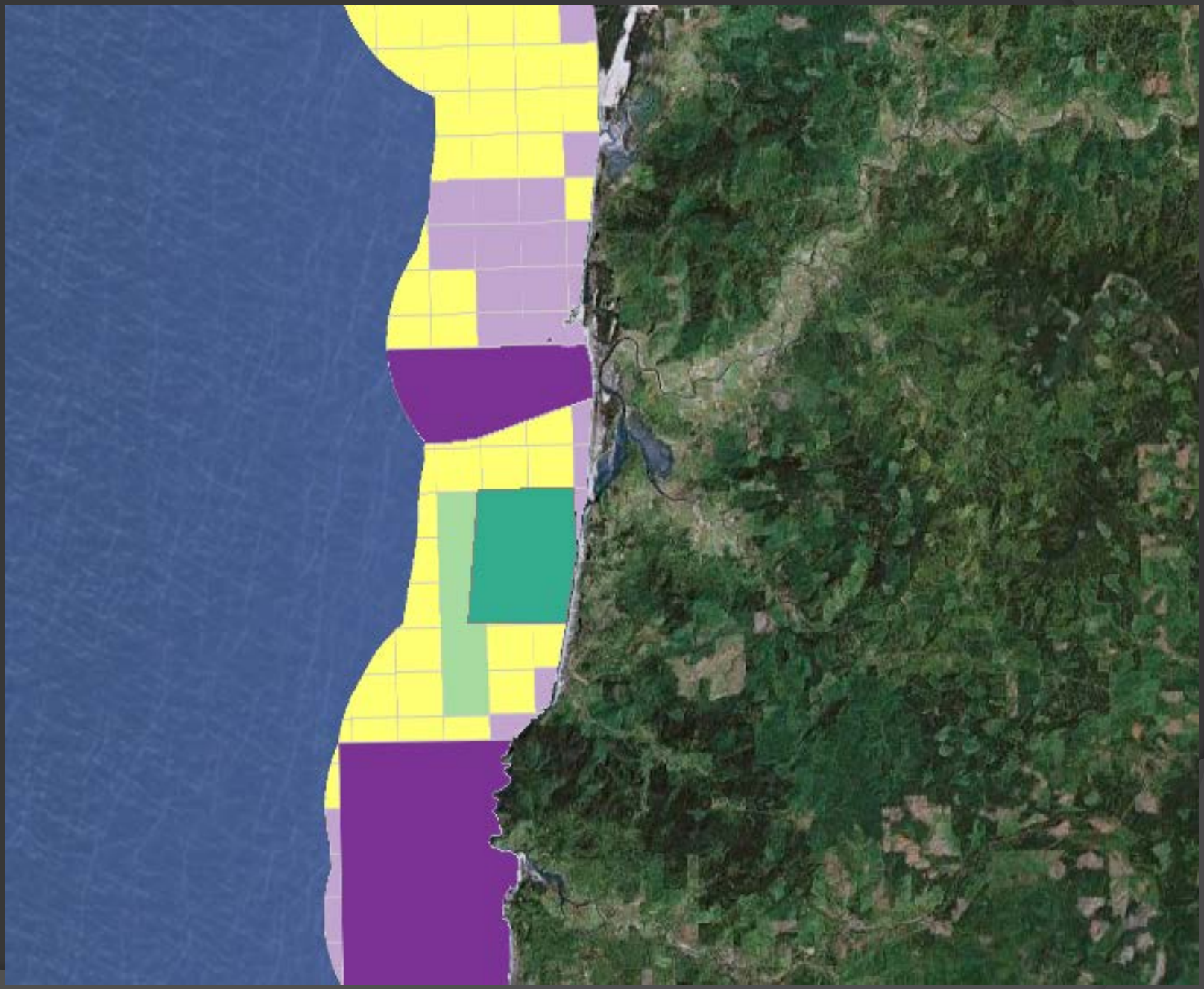
NORTH NEWPORT	
Potential Benefits	**Concerns**
One of the top wave energy sites	Cumulative impacts to the port and fleets with NOOTS, potentially PMEC, and additional site
Proximity to deepwater port and substations, good for multiple depth devices	Initial FINE consultation on amended site to 1.5 sw mi, sense that community is already actively supporting wave energy and should get fewer developments in the future.
	Cabling south of Yaquina Head because of unstable geology north of the head.
	Proximity to Yaquina Head, effect on seabirds especially in SE corner of proposed site. Nesting species and reef habitat also a concern.

- **Consensus not to eliminate the site.**
- Abuts existing NNMREC site (NOOTS).
- Proposal to amend the site to ~1.5 sq mi directly north of NOOTS.
- The sites off Yaquina Head should, therefore, be reserved for research purposes. At present, we have the potential to expand NMMREC and establish a separate grid connected research site for PMEC. Therefore, the proposed development site off Yaquina Head should be deleted from further consideration and a separate grid connected research site should similarly be reserved for research only.

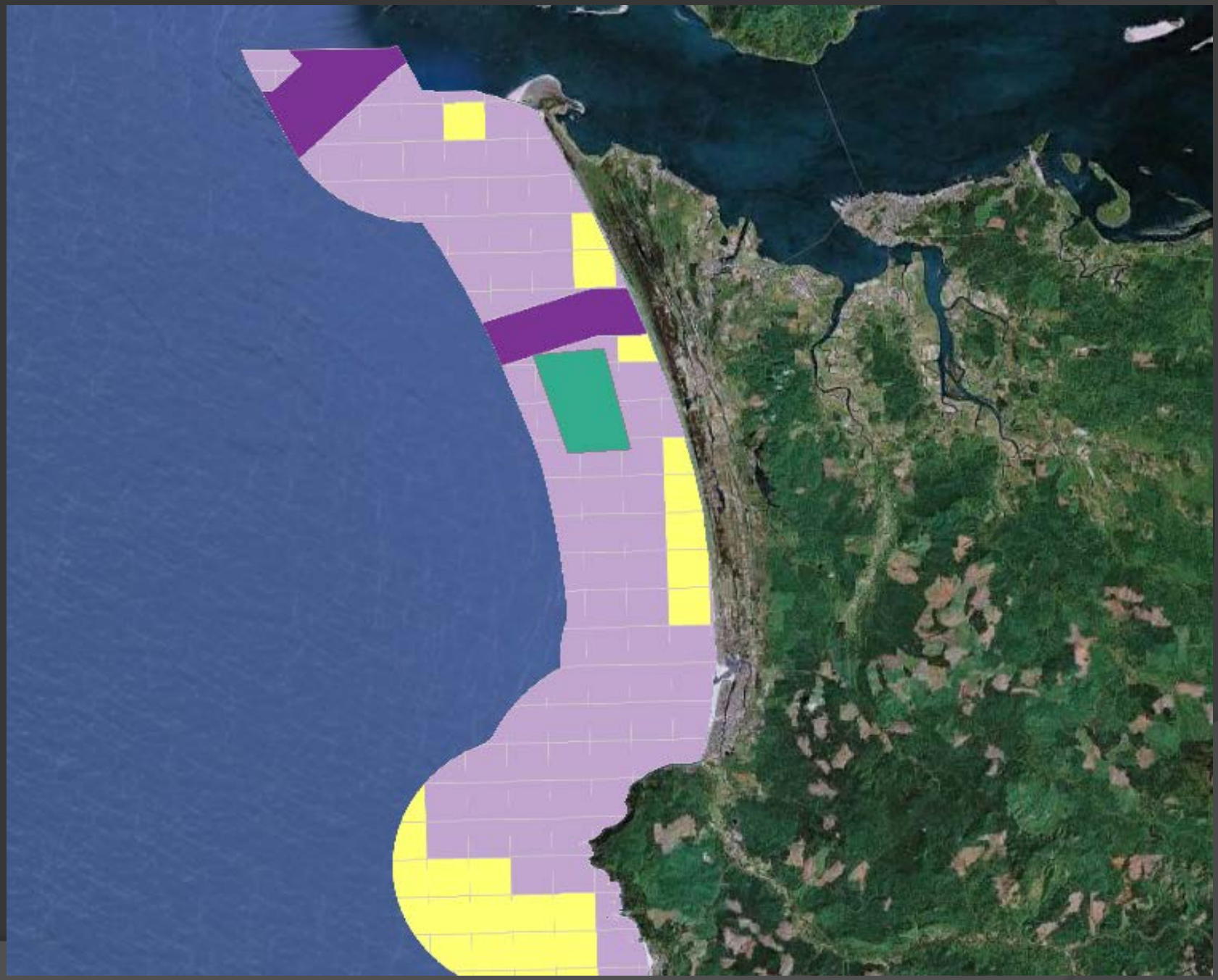
Size: 10.4 mi^2 (Original) -> 6 mi^2 (Energy sub)



NESTUCCA BAY / PACIFIC CITY	
Potential Benefits	**Concerns**
One of the top wave energy sites	Proximity to aesthetic views and community
Strong for shallow and mid-depth devices, close to electrical infrastructure	May conflict with Pacific Dorymens fleet. No actual data in Marine Map, extrapolated data anticipates no conflict.
Resource inventory RUDA	Potential impacts to seabirds in-shore.
	FACT and Doreymen have expressed concern about this proposal site for potential fishery and visual impacts
• **Consensus not to eliminate the site.**	
Size: 11.6 mi^2 (Original) -> 6.3 mi^2 (Energy sub)	



CAMP RILEA	
Potential Benefits	**Concerns**
High viability for nearshore wave energy devices, supported by feasibility study	Significant conflict with fishing / crabbing
Nexus with National Guard, need for renewable energy at Camp Rilea, Net Zero program, funding and demarcation of the live fire zone	OK with testing but concerned about buildout
Presence of live fire zone for 260 days/year	Lack of data about fish and crab nursery habitat in area
Interest in linemen training getting hands on experience with wave energy	

- **Consensus not to eliminate the site, but continue conversation between ORNG and Astoria fishing community.** By request of the TSPAC, Peter Huhtala hosted a meeting at Camp Rilea on 10/5 to vet concerns. Generally positive meeting, major topics are scale of development (testing to buildout), mooring system, minimizing effects, no economic displacement, communication channels and points of contact, and coordination around the live fire zone.
- May need to use goal exception process

Size: 4.2 mi^2 (Original)