



Waterside Security of Especially Hazardous Cargoes (EHC)



Homeland
Security



1
U.S. COAST GUARD



Office of Port & Facility Compliance

- Oversees for port, facility and cargo safety, security and environmental protection compliance activity
 - MTSA
 - SAFE Port Act
 - TWIC
 - Port and Waterway Safety Act
 - Clean Water Act
- Port recovery/resiliency
- Prevention outreach to interagency and industry
- COTP, OCMi and FMSC



Homeland
Security



U.S. COAST GUARD



Domestic Ports Division (CG-FAC-1)

- Domestic port anti-terrorism prevention program
- Maritime Cyber security governance program
- Area Maritime Security Committees (AMSC)
- Port safety, security, recovery and resiliency activities
- National Maritime Security Advisory Committee (NMSAC)
- Sponsor for HOMEPORT
- Maintain security strategy and policy for EHCs
- Program manager for PSS and SS (P/R) personnel



Homeland
Security



U.S. COAST GUARD



Especially Hazardous Cargo (EHC)

- 5 cargoes in bulk: Chlorine, Anhydrous Ammonia, Ammonium Nitrate, LPG and LNG
- Congressional mandate in the 2010 Coast Guard Authorization Act (section 812)



Homeland
Security



U.S. COAST GUARD



EHC Security Timeline



Homeland
Security



U.S. COAST GUARD



EHC Risk Mitigation Products

- 3 Commodity Flow Studies
- Cargo Security Symposium (Results of the Plenary and Breakout Session Discussions)
- Consequence Ranking of Potential Certain Dangerous Cargo Releases (ABSG)
- Cargo Security Risk Reduction Workgroup
- Public Listening Sessions
- CTAC Security Subcommittee
- AWO EHC security survey
- Plans to socialize through DHS's Chemical SCC



Homeland
Security



U.S. COAST GUARD



Advisory Committee and Coordinating Council Championed Implementation

- NMSAC (EHC work group will be established and engaged when needed)
- Chemical transportation SMEs (Chemical Transportation Advisory Committee (CTAC))
- Chemical Sector GCC and SCC



Homeland
Security



U.S. COAST GUARD



EHC National Security Study

- Per Auth. Act, National Study shall include:
 - Waterside security risk assessment analysis (MSRAM)
 - Maritime stakeholder roles & responsibilities
 - Recommended measures to improve waterside security
 - Alternative sources of funding for security measures
- National Study Report provided to Congress May 2012



Homeland
Security



U.S. COAST GUARD



EHC National Security Strategy

- Purpose
 - Ensure commercially viable transport, transfer, and storage of EHCs, within the nation's MTS, managed at an acceptable level of risk from intentional attack
 - Roadmap to achieve and maintain an acceptable EHC security risk level in an executable manner



Homeland
Security



U.S. COAST GUARD



EHC National Security Strategy

- Developed using results of National Study
- Mitigate risk of terrorist attack against the bulk transport, transfer or storage of EHCs
- National Strategy provided to Congress Sep 2015



Homeland
Security



U.S. COAST GUARD



EHC National Security Strategy

- Strategic Goals:
 - Awareness/MDA
 - Preparedness/Prevention
 - Response
 - Resiliency/Recovery



Homeland
Security



U.S. COAST GUARD



EHC National Security Strategy

- Multi-agency and Industry Effort
- Many Coast Guard, OGA and industry partners will be involved in implementing the strategy. It blends:
 - Technology
 - Intelligence/Information
 - Dynamic risk management to drive resource allocation
 - Prevention capability assessments
 - Potential Consequences and Recovery capability assessments
 - Operations
 - Prevention/protection
 - Response/recovery
 - Training
 - Multi-stakeholder management (public/private)



Homeland
Security



U.S. COAST GUARD



Enhancing Maritime Security for EHCs

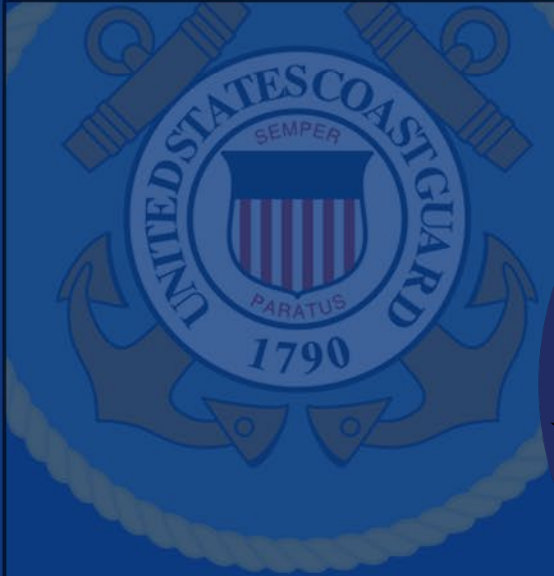
- Industry engagement
- Federal, State and Local Government engagement
- Implementation Plan
- Charter or other executing document describing planning process and core and adjunct participants charged with drafting an implementation plan



Homeland
Security



U.S. COAST GUARD



Questions?



Homeland
Security



U.S. COAST GUARD



John Burke
ABS Consulting

EHC Commodity Flow Model 2012-2016



Homeland
Security



U.S. COAST GUARD



Commodity Flow Model (CFM)

- First step in implementation process
- ABSG and CG-FAC engaged
- USACE information 2012 through 2016
- Information also gleaned from MISLE, SANS, MSRAM, and industry trade organizations (KPA analysis performed by CG-MSR) (patrols and escorts)
- AWO EHC survey information to be incorporated in CFM



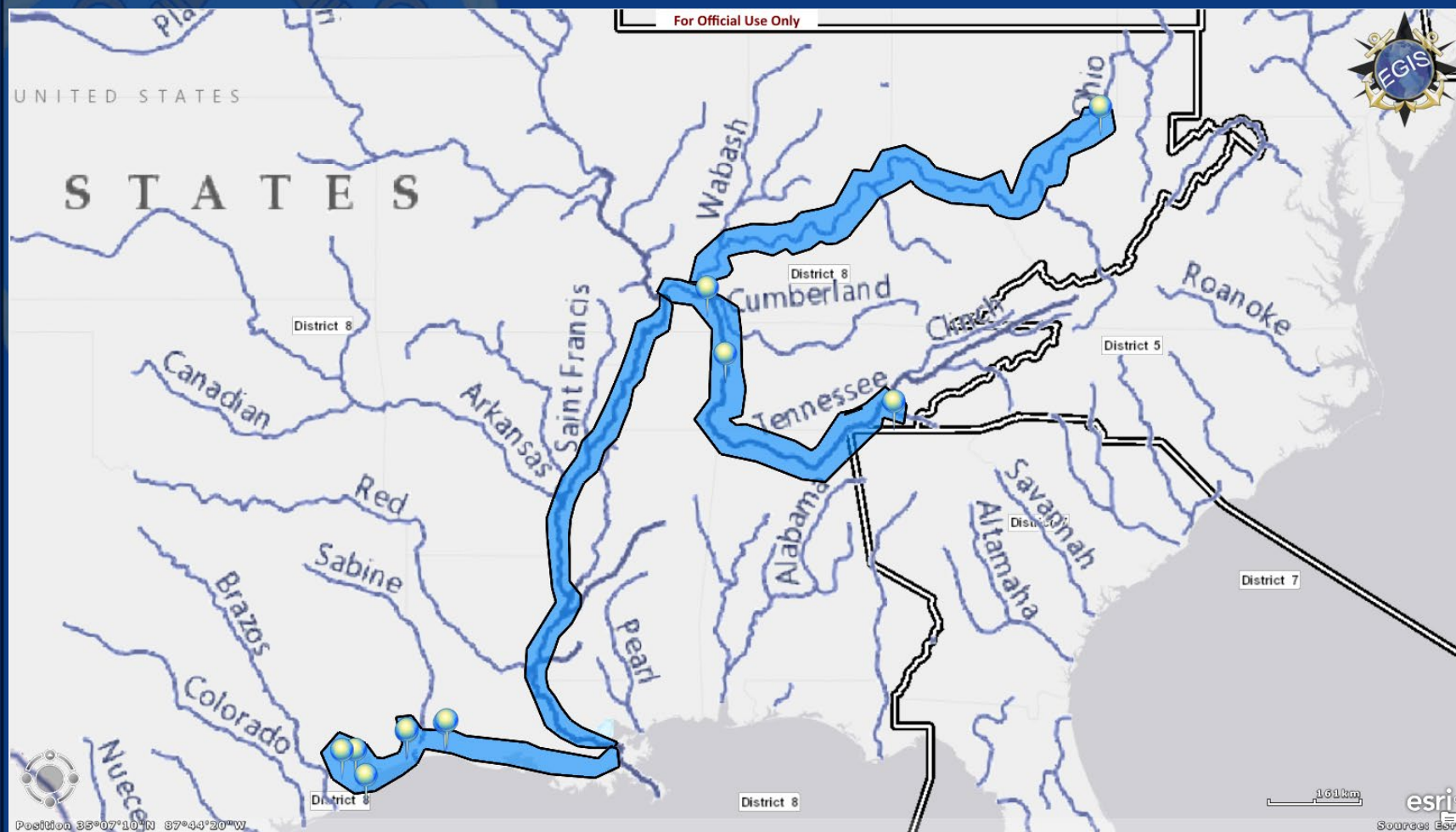
Homeland
Security



U.S. COAST GUARD



Chlorine 2012



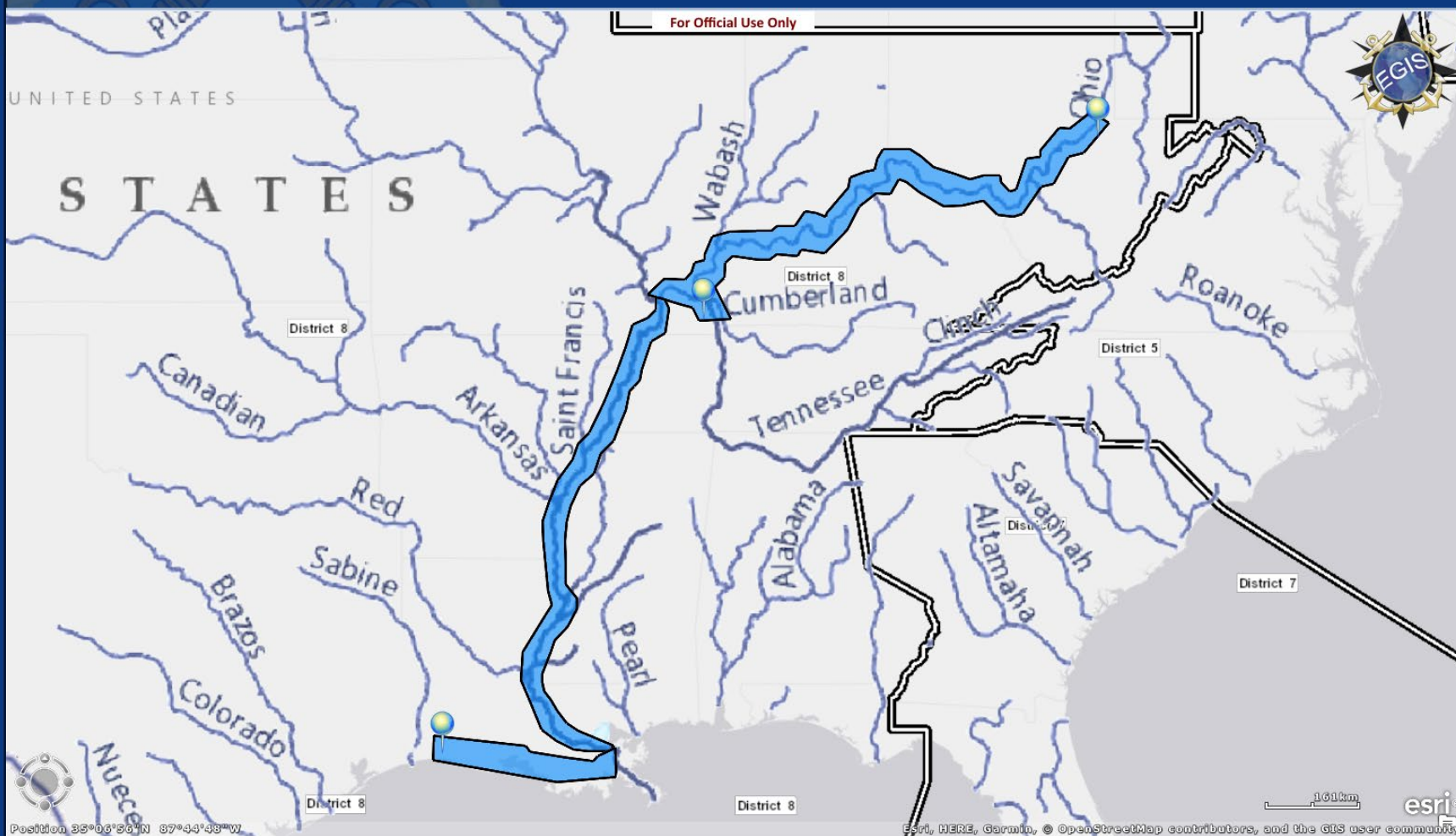
Homeland
Security



U.S. COAST GUARD



Chlorine 2016



Homeland
Security

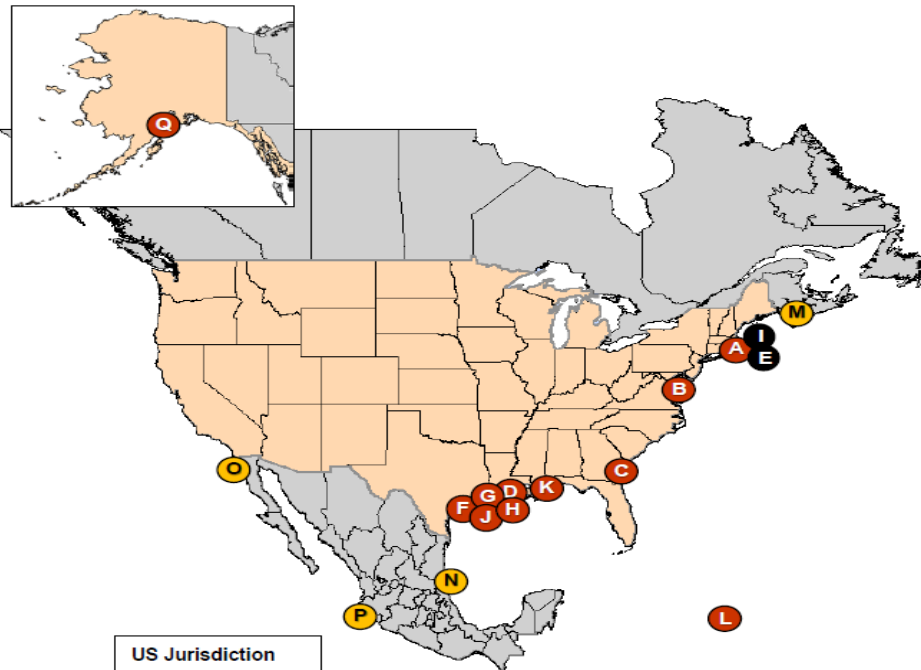


U.S. COAST GUARD



FERC

North American LNG Import/Export Terminals *Existing*



US Jurisdiction
● FERC
● MARAD/USCG

As of July 2, 2018

★ Authorized to re-export delivered LNG

Import Terminals

U.S.

- A. Everett, MA: 1.035 Bcfd (GDF SUEZ - DOMAC)
- B. Cove Point, MD: 1.8 Bcfd (Dominion - Cove Point LNG)
- C. Elba Island, GA: 1.6 Bcfd (El Paso - Southern LNG)
- D. Lake Charles, LA: 2.1 Bcfd (Southern Union - Trunkline LNG)
- E. Offshore Boston: 0.8 Bcfd (Excelerate Energy - Northeast Gateway) ★
- F. Freeport, TX: 1.5 Bcfd (Cheniere/Freeport LNG Dev.) ★
- G. Sabine, LA: 4.0 Bcfd (Cheniere/Sabine Pass LNG) ★
- H. Hackberry, LA: 1.8 Bcfd (Sempra - Cameron LNG)
- I. Offshore Boston, MA: 0.4 Bcfd (GDF SUEZ - Neptune LNG)
- J. Sabine Pass, TX: 2.0 Bcfd (ExxonMobil - Golden Pass) (Phase I & II)
- K. Pascagoula, MS: 1.5 Bcfd (El Paso/Crest/Sonangol - Gulf LNG Energy LLC)
- L. Peñuelas, PR: 0.3 Bcfd (EcoElectrica)

Canada

- M. Saint John, NB: 1.0 Bcfd (Repsol/Fort Reliance - Canaport LNG)

Mexico

- N. Altamira, Tamulipas: 0.7 Bcfd (Shell/Total/Mitsui - Altamira LNG)
- O. Baja California, MX: 1.0 Bcfd (Sempra - Energia Costa Azul)
- P. Manzanillo, MX: 0.5 Bcfd (KMS GNL de Manzanillo)

Export Terminals

U.S.

- B. Cove Point, MD: 0.82 Bcfd (Dominion-Cove Point LNG) (CP13-113)
- G. Sabine, LA: 2.8 Bcfd (Cheniere/Sabine Pass LNG - Trains 1, 2, 3 & 4)
- Q. Kenai, AK: 0.2 Bcfd (ConocoPhillips)



Homeland
Security

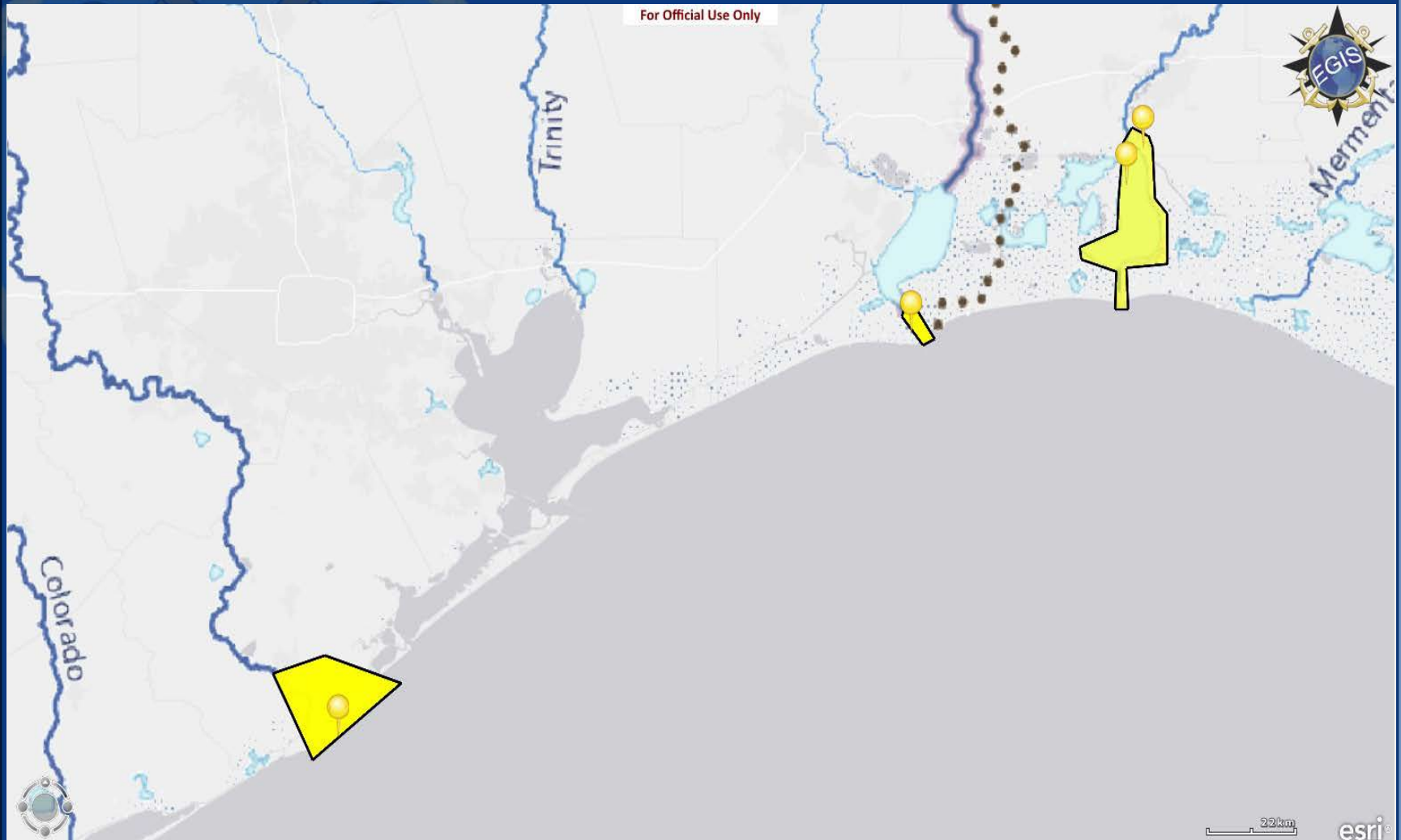


U.S. COAST GUARD



LNG Gulf

For Official Use Only



Homeland
Security



U.S. COAST GUARD



Homeland Security



U.S. COAST GUARD

Thank You



Homeland
Security



U.S. COAST GUARD