





LIMETREE BAY ENERGY



- PURCHASED FACILITY 2016
- MERCHANT TERMINAL
- MULTIPLE CUSTOMERS



- RE-START IN 2019
- CUSTOMER OF TERMINAL
- SHARED SERVICES W / TERMINAL







LIMETREE BAY TERMINALS







TERMINAL TANKAGE SUMMARY

Description	No. of Tanks	Capacity MBBLS
Crude	24	11,985
Products		
Propane	8	56
Butane	3	77
Gasoline	19	2,401
Jet	5	808
#2 Oil / ULSD	11	2,377
#6 Oil	<u>15</u>	<u>5,409</u>
Total Product	61	11,128
Water	3	609
RCO / Bottoms	6	1,058
Total Crude & Product	<u>94</u>	<u>24,780</u>





CRUDE STORAGE TANKS



Capacity: 11.9 Million Barrels





FINISHED PRODUCT STORAGE









PROPANE / BUTANE STORAGE SPHERES



Capacity: 133,000 Barrels





TERMINAL TRUCK LOADING RACK



Gasoline, Jet Fuel, Ultra Low Sulfur Diesel & Propane





TERMINAL DOCKS

DOCK SERVICE

No.	Service	Draft
2	Crude (VLCC)	55'
2	Product	45'
3	Product	43'
1	Product	35'
1	Pet Coke	42'
1	Product/Sulphur	38'
<u>1</u>	Dry Cargo (RoRo)	17'
11	TOTAL	











PORT OPERATIONS



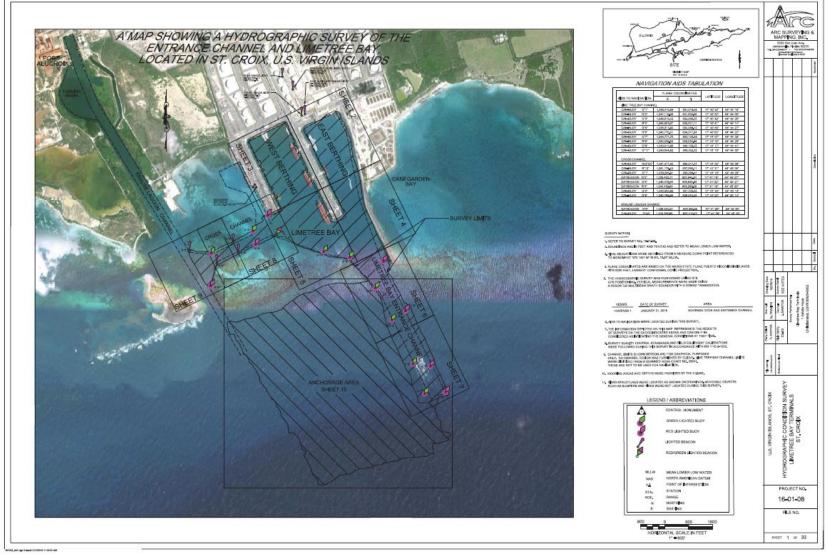








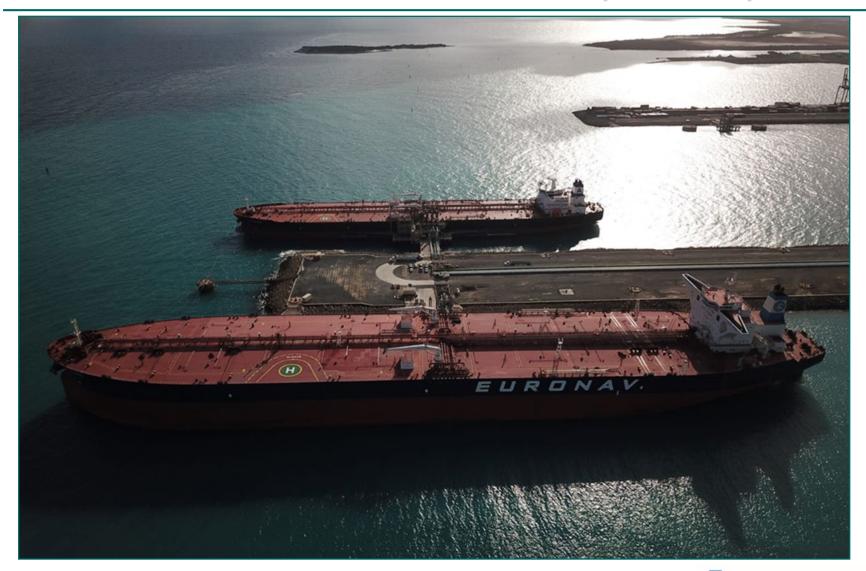
HYDROGRAPHIC SURVEY - 2019







CRUDE VESSELS AT BERTH DWT: 300,800 - 150,000







FINISHED PRODUCT VESSEL DWT: 9,990







MARINE VAPOR COMBUSTER UNIT

- JOHN ZINK MVCU
- DOCK SKID UNITS (3 DOCKS)
- COMBUSTOR UNIT
- GASOLINE VAPOR RECOVERY

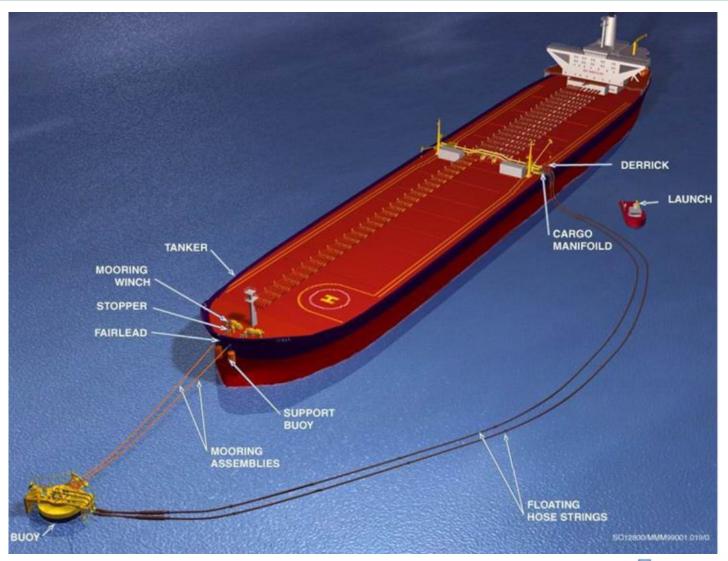








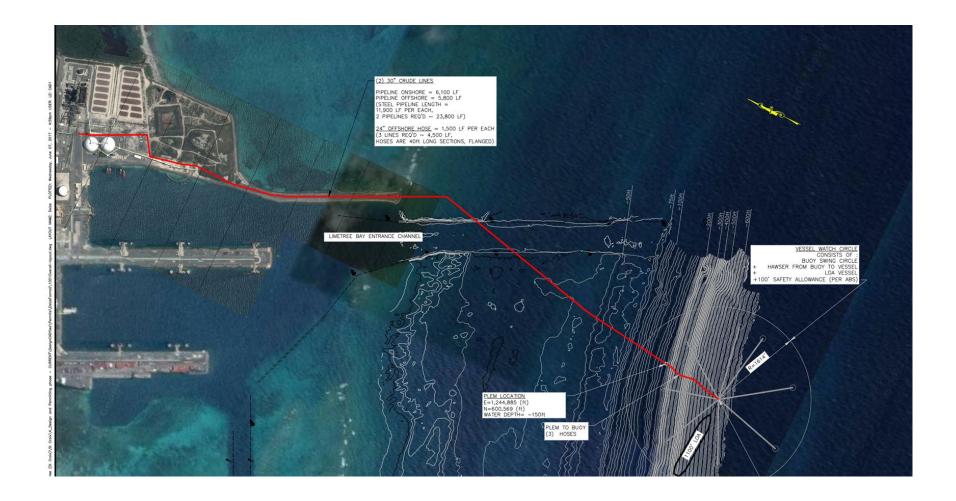
SINGLE POINT MOORING







SINGLE POINT MOORING



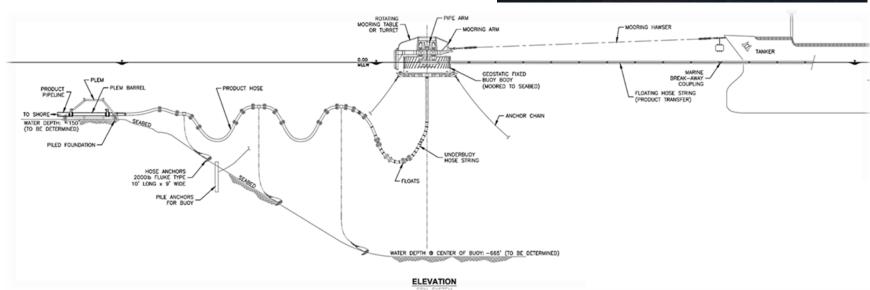




SINGLE POINT MOORING CONSTRUCTION

- PIPELINE COMPLETE JUNE
- BUOY AND PLEM COMPLETE JULY
- COMISSIONING JULY 2019









LIMETREE BAY REFINING

Partial Refinery Re-Start

- Turn-around and Revamp Completion 2019
- 180,000 bbl per day
- Tolling Agreement
- Village Housing Area



Units To Be Restarted

- Crude #5
- Vacuum Unit #3
- Par-Isom Unit
- Platformer Unit
- Sulfur Recovery Units
- Coker Unit
- Hydro-treating Units 6, 7, 9
- RO Water Plant
- Gas Turbines # 9, 10, 13







LIMETREE BAY VILLAGE







CRUDE UNIT







PARISOM UNIT







COKER UNIT







GAS TURBINE 13









REGULATORY COMPLIANCE

EPA / VI DPNR Requirements

- Clean Air Act: Air Emissions Control / Permitting / Title V Fees
- Clean Water Act: Wastewater Treatment / TPDES Program
- Safe Drinking Water Act
- Resource Conservation and Recovery Act: Solid Waste Management, Underground Storage Tanks
- Product Release Prevention Program : Equipment Inspections / Testing / Repair
- Fence Line Monitoring (Benzene)

Coast Guard Requirements

- Oil Spill Response Readiness / Integrated Contingency Plan / Drill Deployment & Table Top Exercises
- Vessel & Equipment Inspections / Testing / Repair
- Harbor Hydrographic Survey Completed in 2019

Department of Homeland Security Requirements

- Modified Facility Access Control
- Enhanced Perimeter Security System
- TWIC Procedures

OSHA Requirements

- Training / Procedures
- Incident Management & Emergency Response Teams / Training
- Equipment Inspections / Testing / Repair
- Hazard Communication
- Work Permits / Confined-Space Entry Permits / Lockout / Tagout
- Personal Protective Equipment (PPE)
- Process Safety Management (PSM) / Management of Change (MOC) Process







WASTE WATER TREATMENT





Treatment:

- Physical oil and water separation
- Biological in above ground tanks
- All wastewater (recovered ground water, roof drains, tank cleaning, line flushing, maintenance activities, and ship ballast) and stormwater are treated before reuse or discharge into the TPDES permitted outfall

Monitoring:

- Analyzed for 12 different parameters
- 6 stormwater Outfalls sampled monthly when sufficient flow
- Annual WET test for Limetree Bay Terminals completed in May 2019
- Applying for new TPDES Permit to align with Refinery influents and effluents

Currently operating under DPNR issued TPDES
Permit - transferred to Limetree Bay Terminals on
April 1, 2016







AIR COMPLIANCE



Leak Detection and Repair (LDAR) Program

 Monitoring, inspecting and repairing process piping equipment leaks (valves, flanges, pump seals) throughout Terminal

Benzene NESHAPs

- Monitoring, inspecting and repairing wastewater equipment throughout Terminal
- Reinstating benzene strip towers for refinery restart

PRI Consent Decree:

Enhanced LDAR and BWON

VRU CEM

 Truck Loading Rack Control and Continuous Emissions Monitor

MVCU - Marine Vapor Combustion Unit

Removed 99% of NOX emissions during gasoline loading







EMERGENCY SERVICES



Facility Incident Management Team

- Facility IMT members have certification, training and experience with incident management
- Terminal, QI, IC, Planning, and Operations Section Chiefs certified in position-specific training
- Primary ICP located at the Limetree Bay Terminals, Main Administration Building
- Hosted 2017 Regional PREP Exercise and training





2017 Regional PREP Exercise Host Facility













































OIL SPILL RESPONSE

The Limetree Bay Terminals has an integrated oil spill response prevention and recovery cleanup plan in compliance with the Oil Pollution Act of 1990 (OPA-90). As a part of that plan, Limetree Bay Terminals has trained Emergency Response and Incident Command personnel and maintains an inventory of oil spill containment boom, oil absorbent material, vacuum trucks, oil spill response vessels, oil spill skimmers, oil spill recovery pumps and oil spill containment barges. This equipment and personnel is available 24/7 and can be deployed as required by Limetree Bay Terminals and the National Response Corporation (NRC).





OIL SPILL RESPONSE ORGANIZATION (OSRO)

- Located at Limetree Bay Terminals Facility
- 24 / 7 Readiness
- Oil recovery equipment
- Oil containment booms
- Sea-going recovery vessels
- Sea-going oil recovery barges
- Trained and certified personnel on-watch
- Ability to deploy equipment throughout the area









OIL SPILL BOOM STORED AT LIMETREE BAY TERMINALS

Ocean Boom Stored on Limetree Property

Limetree Bay Terminals

Dock 3	2,000 24" Containment Boom
Trailer 1	2,000 24" Containment Boom
Trailer 2	2,000 24" Containment Boom
Trailer 3	2,000 24" Containment Boom
Trailer 4	2,000 24" Containment Boom
Trailer 5	2,000 24" Containment Boom
Trailer 6	2,000 24" Containment Boom
	14,000

NRC

2,000 42" Inflatable Ocean Boom on OSRV SENTRY 1,000 42" Inflatable Ocean Boom in compound box 2,000 42" Inflatable Ocean Boom on 2 boom reels near Dock 8 5,000

1,600 24" Containment Boom	Stored in container at Dock 4
4,000 24" Containment Boom	Stored in container at Dock 9
3,500 24" Containment Boom	Stored in blue trailer at Dock 9
2,000 24" Containment Boom	Stored in open Trailer on west side
2,000 24" Containment Boom	Stored in container on west side.
1,800 24" Containment Boom	Stored in mobile Response Trailer
800 24" Containment Boom	Stored on two Quick Response Trailers

15,700



5,000 42" Inflatable Ocean Boom

29,700 24" Containment Boom





Values shown in feet







OIL SPILL RESPONSE EQUIPMENT



NRC and MSRC





ON GOING WILDLIFE PROTECTION

- 40 Ft Wildlife Response Trailer
- Partner with Tri-State Bird Rescue and Research
- A Sponsor of the 13th International Effects of Oil on Wildlife Conference
- Participate and share bird counts at the facility with local and federal Fish and Wildlife
- Monitor and de-mark areas with Least Tern activity to minimize disturbance
- Members of STAR (Sea Turtle Assistance and Rescue network)









TERMINAL SECURITY DEPARTMENT

Administrative Services	Field Services	<u>Compliance</u>
Personnel CredentialingLock and KeysCommand Center: 1	Fixed Post: 3Roving Patrols: 2Investigations / Public Safety	 Facility Security Officer/Plan Marine Unit Training TWIC (Entire Facility)









TERMINAL SECURITY DEPARTMENT

Agency Partners & Key Stakeholders

- U.S. Coast Guard
- Department of Homeland Security
- Customs and Border Protection
- Immigration and Customs Enforcement
- Federal Bureau of Investigation
- Virgin Islands Police Department

- Transportation Security Administration
- Port Authority Police Department
- Department of Planning and Natural Resources
 Police
- U.S. Marshals Service
- VI Attorney Generals Office of Special Investigations
- Department of Defense







QUESTIONS?





