



OHMSETT FACILITY | PO BOX 150 | LEONARDO, NJ 07737 | PHONE: (732) 866-7183

Basic Specifications

Facility Name	Ohmsett
Overseeing Organization	U.S. Department of Interior's Bureau of Safety and Environmental Enforcement
Hydrodynamic Testing	Tow Tank, Wave Basin
Facility Type	
Length(m)	203.3
Beam(m)	19.8
Depth(m)	2.44
Water Type	Saltwater
Cost(per day)	Contact: 732.866.7183
Special Physical Features	Accommodates full and meso-scale equipment under a realistic sea environment, multiple traveling bridges, underwater video, computer controlled bridge and wave generator settings, onsite fabrication, viewing windows, scuba diver support, test equipment integration support.

Towing Capabilities

Towing Capabilities	Yes (± 0.005 m/s)
Maximum Velocity(m/s)	3.1
Length of Effective Tow(m)	160

Wavemaking Capabilities

Wavemaking Capabilities	Yes
Maximum Wave Height(m)	0.9 ($H_{1/3}$)
Maximum Wave Height(m) at Wave Period(s)	2.2
Maximum Wave Length(m)	25
Wave Period Range(s)	1.3 - 6.0
Current Velocity Range(m/s)	0
Programmable Wavemaking	Yes: Menu driven/user defined
Wavemaking Description	Programmable amplitude, frequency & wave length; 59 cm height ($H_{1/3}$ at 7 meter wave length); 83 cm height ($H_{1/3}$ Harbor Chop); Wave length up to 30 meters
Wave Direction	Uni-Directional
Simulated Beach	Yes
Description of Beach	Wave damping at downstream end

Channel/Tunnel/Flume

Channel/Tunnel/Flume	None
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Wind Capabilities

Wind Capabilities	None
Other Characteristics	Outdoor tank

Control and Data Acquisition

Description	National Instruments LabView
Number of channels	32
Bandwidth(kHz)	DC level
Cameras	Yes
Number of Color Cameras	3
Description of Camera Types	Underwater full-pan, tilt, zoom with data overlay
Available Sensors	Acceleration, Flow, Turbulence, Velocity, force, temperature, other by request

Data Generation Capability

Real-Time	No
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Test Services

Test Services	Yes
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**Utility Services Available
On-Site fabrication
capability/equipment**

480 VAC, 3Ph; municipal water; steam; ice and chilling capability

On-site machine shop; contracted local machine and fabrication

Special Characteristics

**Special Characteristics
Specializations,
Capabilities, and Key
Facility Attributes Not
Covered Elsewhere**

None

Available Sensors: Wave height; In-situ Fluorometry; In-situ laser particle size distribution.

Specialized Characteristics: Hazardous materials operations.