

*Water Management Technologies*

*Presents the*  
**SCAVENGER2000**

*Environmental Restoration  
& Management Vessel*



[www.scavenger2000.com](http://www.scavenger2000.com)

# WATER MANAGEMENT TECHNOLOGIES

- A Water Management Company
- Patented the Scavenger2000
- Manufactures the Scavenger2000
- Sells, or Provides a Service Contract
- Can Provide Analysis of Water Bodies
- Designs and/or Implements Water Management Plan
- Uses Automated Equipment to Monitor Progress of Water Management Plan from Florida
- Can Provide Design, Monitoring, Management, Maintenance, and Training Support

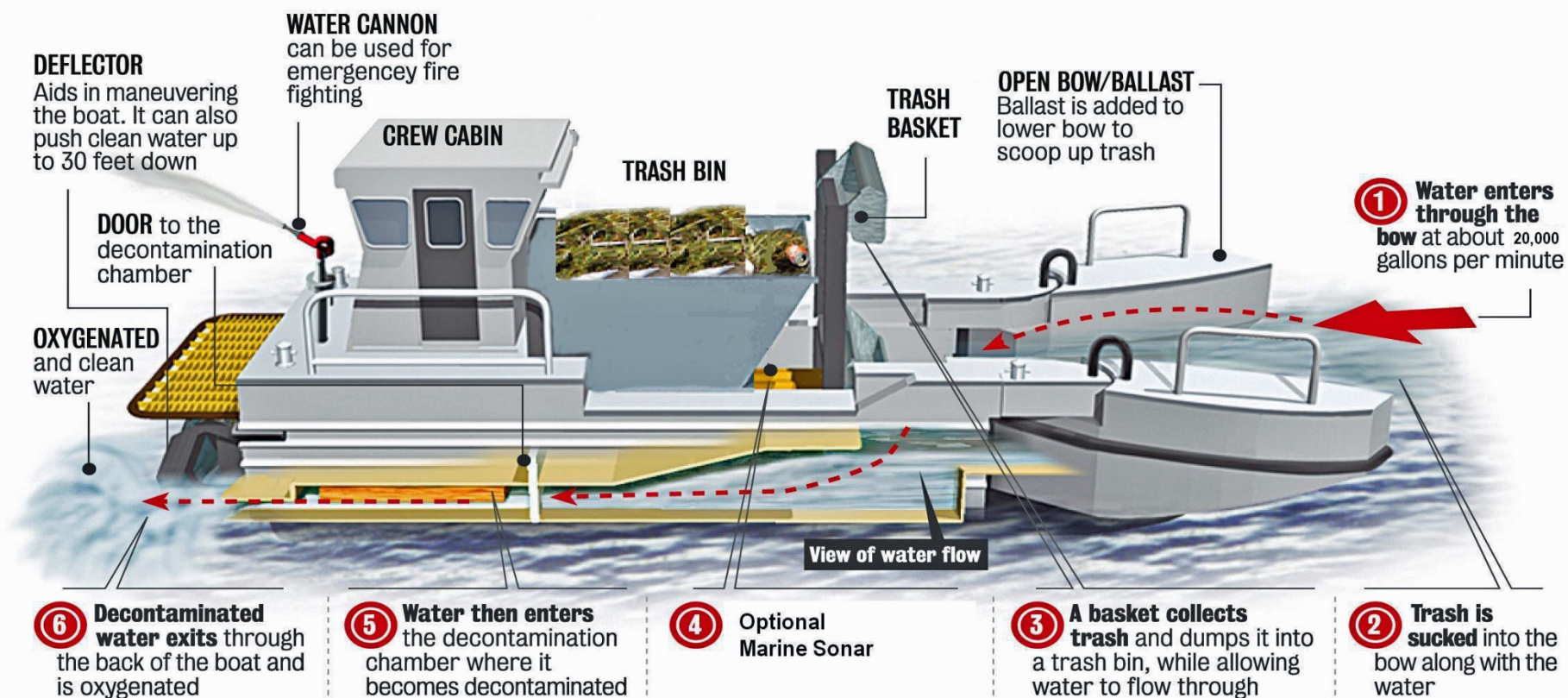
# GENERAL SPECIFICATIONS

- Length 11.58 m or 38 ft
- Beam 2.44 m or 8 ft
- Height (from water line) 3.05 m or 10.5 ft
- Draft 1.22 m or 4.5 ft
- Freeboard 0.91 m or 3 ft
- Gross Weight 11.36 tonnes
- Cruise Speed 6.0 – 8.0 knots
- Work Speed 1.5 – 3.0 knots
- Hours per Tank of Fuel 40
- Water Treatment At least 20,000 gallons per minute
- Oxygenation At least 150,000 liters per hour

# HOW SCAVENGER2000 WORKS

## CLEANING THE WATER

How the 'Scavenger's' onboard water treatment system works:



SOURCE: Water Management Technologies;

GRAPHIC/LYNN OCCHIUZZO



# DESIGNED FOR EASY TRANSPORT



# GENERAL CAPABILITIES

- Disinfection of Water
- Increase Dissolved Oxygen Level in Water
- Surface Debris Collection
- Select Removal of Debris from Sediments
- Reduction of Volatile Organic Compounds
- Reduction of Nuisance Algae Levels
- Eliminate Anoxic/Anaerobic Conditions
- Improve Water Clarity
- Reduces Odors
- Reduce Biological Oxygen Demand
- Reduce Chemical Oxygen Demand
- Fire Fighting



# THE SCAVENGER2000 AT WORK





# A SOLVABLE PROBLEM

**The Scavenger2000 can resolve a multitude of issues simultaneously: Debris Removal, High Level Disinfection, Resolution of the Extreme Algae Bloom**





## MATERIAL BEING PULLED TO COLLECTION BIN





# RIVER OF RAW SEWAGE

The  
Scavenger2000  
can disinfect the  
heavily  
contaminated  
water and destroy  
bacteria such as e-  
coli, Cholera, and  
enterococcus as  
well as viruses





The Scavenger2000 disinfecting  
the sewage water



WATER JAR ON THE RIGHT HAS BEEN  
TREATED BY THE SCAVENGER2000





# HARVESTING NUISANCE PLANTS

**The Scavenger2000**  
can resolve this issue  
of nuisance plants  
blocking a harbor or  
other navigable  
waterways...



# ALGAL BLOOM RESULTING FROM NUTRIENT CONTAMINATION

The Scavenger2000 can remediate this situation by eliminating the algae blooms





The Scavenger2000 injects Oxygen to  
improve the health of the water body



05/27/2009



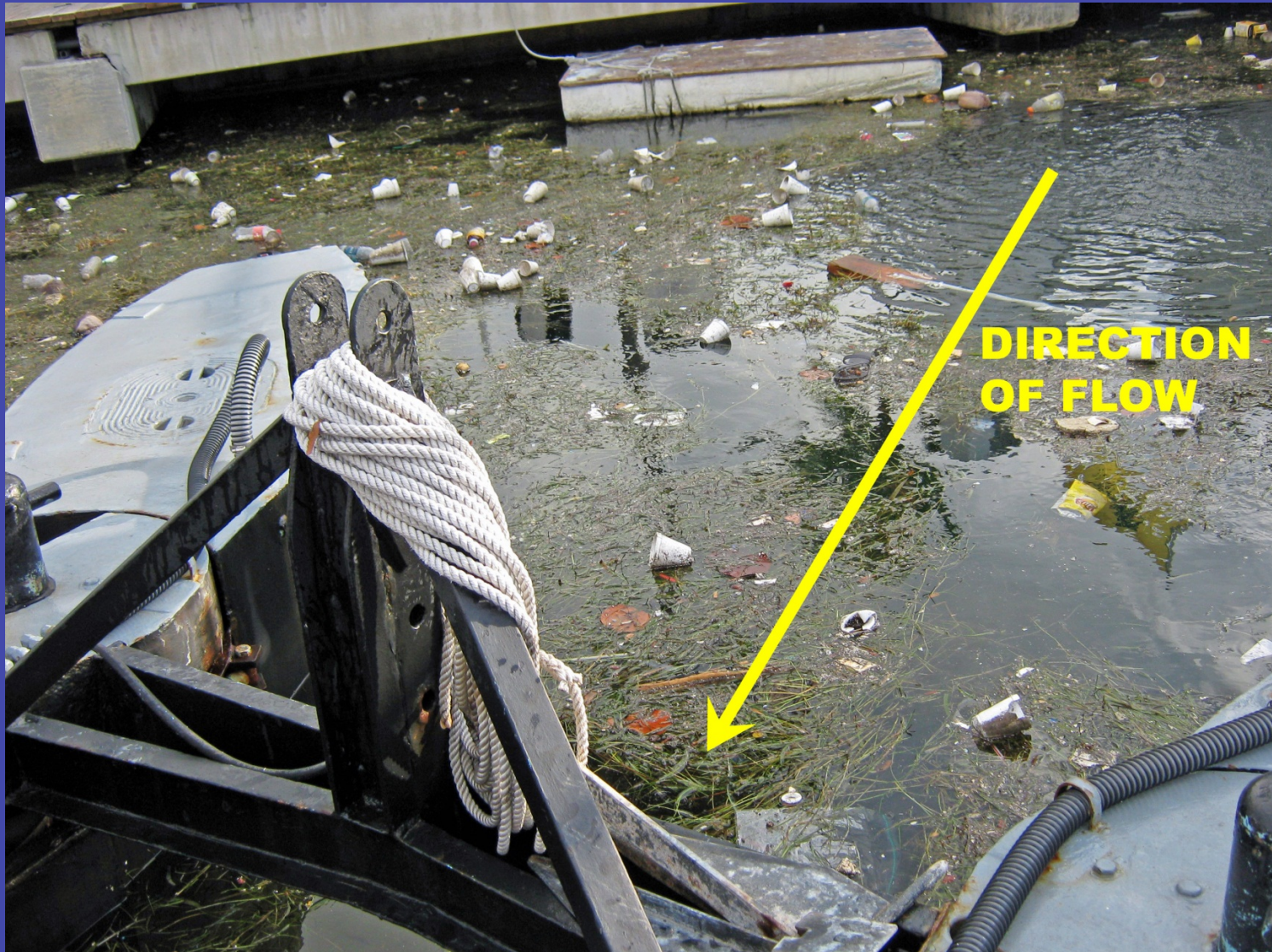
# SWIMMING IN A SEA OF TRASH

The Scavenger2000 can remove surface debris and disinfect the water to save lives





## MATERIAL BEING PULLED TO COLLECTION BIN





# EXAMPLE OF COLLECTED DEBRIS





THE SCAVENGER2000 CAN INJECT 150,000 LITERS OF  
OXYGEN PER HOUR TO PREVENT FISH KILLS





## THE SCAVENGER2000 DISINFECTING THE WATER





# THE SCAVENGER2000 WAS DESIGNED TO TREAT CANALS SUCH AS THIS





# EXAMPLE OF COLLECTED DEBRIS





# THE SCAVENGER2000 CAN MINIMIZE THE TIME NEEDED FOR REDUCTION OF SURFACE DEBRIS





# EXAMPLE OF COLLECTED DEBRIS





# SCAVENGER2000 CAN CLEAR SURFACE WATERS UPSTREAM OF DAMS AND POWER STATION COOLING WATER INTAKES





# EXAMPLE OF COLLECTED DEBRIS





# EXAMPLE OF COLLECTED DEBRIS





# EXAMPLE OF COLLECTED DEBRIS



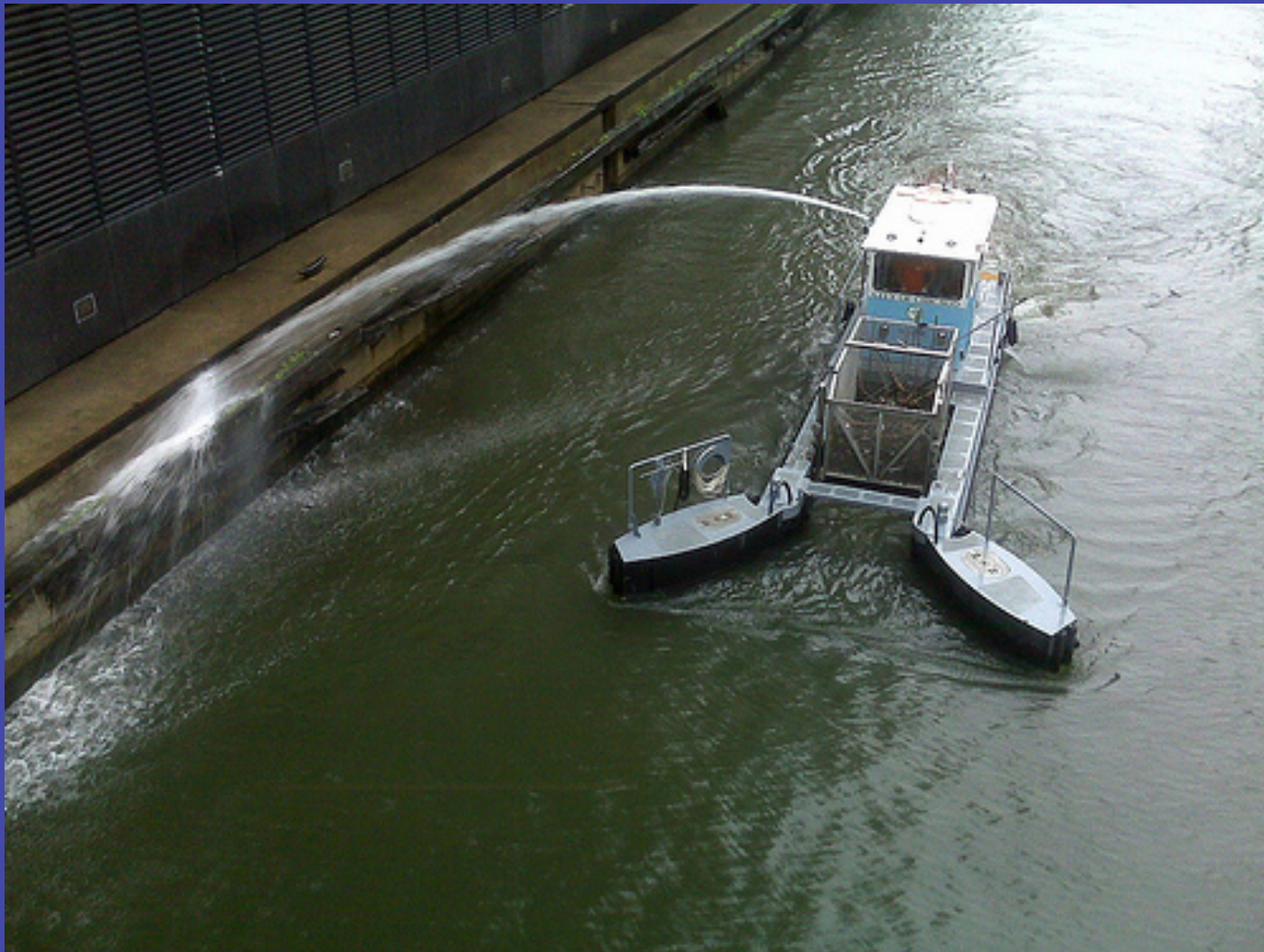


# EXAMPLE OF COLLECTED DEBRIS





USING REMOTE CONTROL FIRE CANON TO CLEAN SEA WALL  
WHILE SIMULTANEOUSLY CLEANING WATER OF FLOATABLE  
DEBRIS AND DECONTAMINATING THE WATER AND INJECTING  
OXYGEN INTO WATER





# EXPANDED FUNCTIONS

- The Scavenger2000 Can Be Modified for Other Uses Such As:
  - Management of Nuisance Vegetation
  - Fertilizer Production
  - Phosphorus Reduction
  - Biological Nitrogen Removal
  - Neutralize Methane Release from Sediments



# INTEGRATED DESIGN

- Can Pre-Treat Upstream of Conventional and Natural Water Treatment Systems to Enhance the Performance of These Processes
- Can Provide Downstream Treatment for the Same Processes
- Can Provide Off-Line Treatment for Shallow Water Bodies or Lakes
- Can Form the Main Treatment Process When Used With Natural Treatment Systems



# MARKETING SECTORS

- Ports, Harbors, Rivers and Lakes
- Urban Waterways
- Agricultural Canals
- Irrigation point protection
- Minimization of Evapotranspiration in Semi-Arid and Arid Regions
- Waterways Impeded by Floating Plants
- Recycling of Nutrients Stored in Waterways
- Can Form Primary Treatment System in Developing Nations or Areas with No Water Treatment
- Fish farming



# WHY SCAVENGER2000

- Implemented Directly in Water Body Thereby Reducing Land Requirements
- Can Treat Pollutants Discharged Directly into a Water Body AND Those Already Stored in the Water Body
- Most Effective Debris Removal System – Can Stay On-Station
- Continuously Without Returning to Shore
- Minimal Land Requirement for Debris Handling
- Easily Integrated into Other Conventional and Natural Water Treatment Systems