TOMMY TRENT'S

ABC'S OF THE SEAWAY



PRESENTED BY

The St. Lawrence Seaway Management Corporation

SEAWAY TERMS

- **BACKHAUL** THE RETURN TRIP OF A VESSEL WITH A DIFFERENT CARGO.
- BULK CARGO GOODS LIKE WHEAT, COAL OR OIL, THAT MUST BE SHOVELLED, SCOOPED, PUMPED OR BLOWN INTO THE SHIP.
- CHANNEL THE COURSE, MARKED BY BUOYS, A SHIP FOLLOWS TO OPEN WATERS.
- **DEAD TIME** THE TIME PERIOD BETWEEN THE EXIT OF ONE VESSEL FROM A LOCK AND THE ENTRY OF ANOTHER.
- **DOWNBOUND** TOWARD THE ATLANTIC OCEAN **DUMP** LOWER THE LEVEL OF WATER IN THE LOCK.
- LOCK AN ENCLOSURE WITH GATES AT EITHER END FOR LIFTING OR LOWERING VESSELS FROM ONE LEVEL TO ANOTHER.
- SHIP ARRESTERS STEEL ROPES TO PROTECT SHIPS FROM HITTING THE LOCK GATES.
- ST. LAWRENCE SEAWAY THE WATERWAY FROM MONTREAL TO LAKE ERIE INCLUDING THE WELLAND CANAL.
- **TRANSIT** MOVEMENT OF A VESSEL THROUGH THE SEAWAY.
- TURNING BACK EMPTYING OR FILLING A LOCK FOR A WAITING VESSEL GOING IN THE SAME DIRECTION.
- UPBOUND FROM THE ATLANTIC OCEAN.
 UPPER LAKES THE FOUR GREAT LAKES
 ABOVE LAKE ONTARIO.



INTRODUCTION

AHOY!

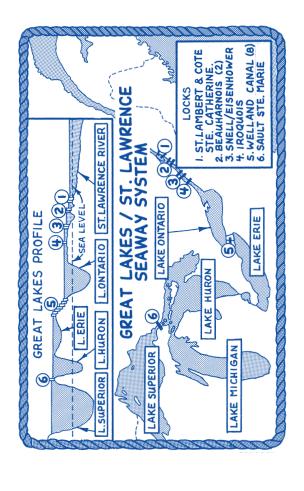
THIS LITTLE BOOK IS ABOUT THE **TALLEST WATER STAIRCASE**

WEST OF CHINA! ITS 15 STEPS, THE LOCKS, RAISE SHIPS FROM THE ST. LAWRENCE RIVER, AT MONTREAL, UP TO LAKE ERIE, A TOTAL OF 168 M (552 FT).

BECOME A SEAWAY EXPERT!
LEARN ABOUT THE WATERWAY,
ITS LOCKS AND BRIDGES, HOW
THEY WORK, SEE THE VARIOUS
TYPES OF VESSELS THAT SAIL
THE SEAWAY AND THE CARGO
THEY CARRY. MY DOGS TEDDY
AND CRUZER LOVE THE
SEAWAY AND SO WILL YOU.
I'M SURE!

YOUR NAME HERE

O NORM TUFFORD



THE ST. LAWRENCE SEAWAY

THE SEAWAY EXTENDS FROM MONTREAL TO LAKE ERIE AND IT INCLUDES THE WELLAND CANAL. ITS SERIES OF LOCKS, CANALS AND CHANNELS LINKS THE ATLANTIC OCEAN AND ST. LAWRENCE RIVER TO LAKE ONTARIO AND THE FOUR UPPER GREAT LAKES.

THIS MOST IMPORTANT WATER ROUTE OPENED TO NAVIGATION IN 1959. MORE THAN TWO BILLION TONNES OF CARGO HAVE PASSED THROUGH THE SEAWAY SO FAR. OUR COLD WINTERS FORCE THE SEAWAY TO CLOSE BETWEEN LATE DECEMBER AND LATE MARCH. THIS IS THE TIME SEAWAY WORKERS DEVOTE TO MAINTENANCE AND NECESSARY REPAIRS TO ENSURE SMOOTH SAILING DURING THE BUSY SEASON. NEW TECHNOLOGY IS HELPING TO KEEP THE SEAWAY OPEN LONGER EACH YEAR.

Locks Of The Seaway

ALL OF THE 15 LOCKS HAVE THE FOLLOWING DIMENSIONS:

USABLE LENGTH- 233.5 METRES (766 FEET)
USABLE WIDTH- 24.4 METRES (80 FEET)
WATER DEPTH- 9.1 METRES (30 FEET)
THEY ALLOW SHIPS OF 225.5 M (740 FT)
IN LENGTH AND 23.8 M (78 FT) IN WIDTH
(OR "BEAM") TO USE THE SEAWAY.

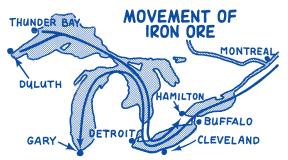
SEAWAY CARGOES

OVER 90% OF SEAWAY TRAFFIC IS MADE UP OF BULK CARGOES SUCH AS WHEAT AND OTHER GRAINS, IRON ORE, COAL, CHEMICALS AND OIL. MANUFACTURED GOODS OF ALL KINDS, SOME OF WHICH ARE SHIPPED IN CONTAINERS, MAKE UP THE REST OF THE SEAWAY CARGOES. SHIPS FROM ALL THE GREAT TRADING NATIONS OF THE WORLD CALL AT SEAWAY PORTS IN CANADA AND IN THE UNITED STATES.



MOVEMENT OF GRAIN

THE PROVINCES OF MANITOBA AND SASKATCHEWAN SUPPLY MOST OF THE CANADIAN **GRAIN EXPORTS** THROUGH THE SEAWAY. THEY INCLLIDE WHEAT, BARLEY CORN, FLAXSEED, OATS AND RYE. THIS GRAIN IS SHIPPED THROUGH THE PORT OF **THUNDER BAY.**



LAKERS TAKING GRAIN TO LOWER ST. LAWRENCE PORTS OFTEN CAN LOAD A BACKHAUL SHIPMENT OF QUEBEC IRON ORE FOR THE STEEL MILLS OF THE GREAT LAKES REGION IN CANADA AND THE UNITED STATES. THE SAILORS ON THESE SHIPS ARE EXPERTS AT CLEANING THE CARGO HOLDS BEFORE GRAIN IS AGAIN LOADED ABOARD.

SMALLER QUANTITIES OF IRON ORE ARE ALSO SHIPPED TO **HAMILTON** FROM THE UNITED STATES THROUGH THE PORT OF **PULUTH**, ON LAKE SUPERIOR.



SHIPS THAT CARRY THE BULK CARGOES

TRADITIONALLY, MOST OF THE SHIPS SAILING THE SEAWAY HAVE BEEN **BULK CARGO CARRIERS** AND OVER THE YEARS THEY HAVE DEVELOPED THEIR OWN **UNIQUE DESIGNS**.



BY THE 1860'S, **BARKENTINES** AND **SCHOONERS** CARRIED MOST OF THE BULK CARGO SUCH AS LUMBER AND COAL.



NEXT, CAME THE WHALEBACK STEAMER, COMMONLY CALLED A "PIG BOAT" BECAUSE OF ITS SNOUT-LIKE BOW. THIS UNIQUE DESIGN WAS SUPPOSED TO OFFER MINIMAL RESISTANCE TO WIND AND WAVES.





BY 1918, 182 M (600 FT) FREIGHTERS WERE THE LARGEST SHIPS ON THE GREAT LAKES AND BECAME THE STANDARD FOR ALL THE GREAT LAKES FLEETS FOR THE NEXT 35 YEARS.





TODAY **FREIGHTER** SIZE HAS REACHED A MAXIMUM OF 225.5 M (740 FT), AND MANY OF THEM CARRY **LARGE SELF-UNLOADING** EQUIPMENT ON THEIR DECKS.

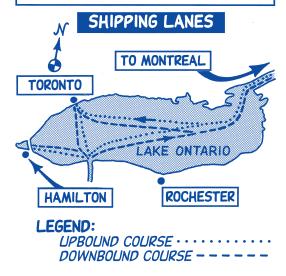


ALTHOUGH THE SEAWAY LOCKS ARE HUGE, THERE ARE SOME **SPECIALIZED** SHIPS ON THE UPPER GREAT LAKES THAT ARE JUST **TOO BIG** TO TRAVEL THROUGH THE SEAWAY. THESE **SUPERLAKERS** ARE OVER 304 M (1000 FT) IN LENGTH.

SOMETIMES WHEN A LARGE CARGO HAS TO BE SHIPPED ACROSS THE OCEAN, LAKE CARRIERS WILL UNLOAD THEIR CARGOES INTO THE HOLDS OF GIANT OCEAN BULK CARRIERS WHILE THEY ANCHOR IN THE MOUTH OF THE ST. LAWRENCE RIVER.

SEAWAY NAVIGATION

TO KEEP THE SEAWAY AS **SAFE AND EFFICIENT** AS POSSIBLE, THE SEAWAY AUTHORITIES HAVE DEVELOPED A SOPHISTICATED **TRAFFIC CONTROL SYSTEM**.



TO AVOID COLLISIONS, ALL SHIPS TRAVEL IN **UPBOUND** OR **DOWNBOUND** SHIPPING LANES.

SEAWAY PILOTS



JUST AS AIRPLANES NEED PILOTS TO NAVIGATE THEM THROUGH THE SKIES, SHIP PILOTS ARE NEEDED TO GUIDE THE LARGE OCEAN FREIGHTERS THROUGH THE SEAWAY.





OFTEN THE PILOT IS BROUGHT TO THE SHIP BY A PILOT BOAT. ONCE ON BOARD, THE PILOT BECOMES THE SHIP'S NAVIGATOR.







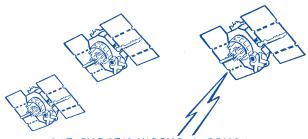


AN EASY WAY TO TELL IF A SHIP HAS A PILOT ON BOARD, IS TO LOOK FOR THE WHITE AND RED PILOT FLAG.

AUTOMATIC IDENTIFICATION SYSTEM (AIS)

IN 2003, NAVIGATION ON THE SEAWAY ENTERED A NEW AGE. EVERY COMMERCIAL SHIP NOW CARRIES A SPECIAL TRANSPONDER THAT SENDS ITS NAME, SPEED AND LOCATION TO THE SEAWAY TRAFFIC CONTROL CENTRES AND TO ALL OTHER SHIPS NEAR IT. COMPUTERS ABOARD SHIP AND AT TRAFFIC CONTROL CENTRES SHOW THIS INFORMATION ON A VIRTUAL SEAWAY MAP, SO THAT EVERYONE CAN SEE WHERE ALL THE SHIPS ARE LOCATED.





THE SYSTEM WORKS THROUGH RADIO SIGNALS AND COMPUTERS AND IS LINKED TO THE **DIFFERENTIAL GLOBAL POSITIONING SYSTEM** (DGPS) SATELLITE TECHNOLOGY.

AIS HELPS AVOID COLLISIONS IN BAD WEATHER, AND HELPS MANAGE TRAFFIC SO THERE IS LESS WAITING TIME AT THE LOCKS.

TRAFFIC CONTROLLERS CAN ALSO USE IT TO SEND SAFETY ALERTS AND INFORMA-TION ABOUT WINDS, CURRENTS AND ICE IN THE CHANNEL OUT TO SHIPS.



LOCK SIGNAL LIGHT PANELS



TO MAKE SURE SHIPS MOVE THROUGH THE SEAWAY AS EFFICIENTLY AS POSSIBLE, SIGNAL LIGHT PANELS AT THE END OF EACH LOCK DESCRIBE WHAT STAGE OF READINESS THE LOCK IS IN. BY CAREFULLY WATCHING THESE LIGHTS, THE SHIP'S MASTER CAN TIME THE ARRIVAL OF HIS VESSEL AT THE LOCK WITH A MINIMUM AMOUNT OF DELAY.

MONTREAL- LAKE ONTARIO SECTION RED LIGHTS:

FIXED RED - LOCK IS OCCUPIED.
FLASHING TOGETHER - LOCK IS EITHER
OCCUPIED BY ONE VESSEL OR LOCK
IS "TURNING BACK" * FOR YOU.
FLASHING ALTERNATELY - LOCK IS
OCCUPIED BY MORE THAN ONE VESSEL.

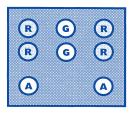
N**FIXED GREEN** - LOCK IS READY. NAMBER LIGHTS - THESE LIGHTS INDICATE THE AMOUNT OF TIME LEFT BEFORE THE

LOCK IS READY FOR THE SHIP TO ENTER. THEY GO OUT IN SEQUENCE STARTING FROM THE TOP WITH EACH LIGHT REPRESENTING A 2 MINUTE INTERVAL WHILE A FLASHING LIGHT INDICATES ONE MINUTE.

* SEE "SEAWAY TERMS".

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WELLAND CANAL LOCKS 1 TO 7

ON THE WELLAND CANAL, THE LIGHT PANELS ARE DIFFERENT. **ONLY 2 AMBER LIGHTS** ARE USED, AND THE SEQUENCE CHANGES EVERY 2 MINUTES.

AT 10 MIN. - BEFORE THE LOCK OPENS

- 2 STEADY AMBER LIGHTS.

AT 7 MIN. - 1 STEADY, 1 FLASHING AMBER LIGHT.

AT 5 MIN. - 1 STEADY AMBER LIGHT.

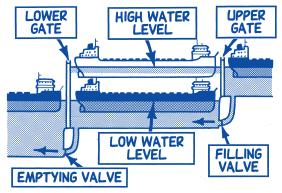
AT 2 MIN. - 1 FLASHING AMBER LIGHT.

WHEN **BOTH AMBER** LIGHTS GO OUT, THE GREEN LIGHTS COME ON AND THE SHIP MAY ENTER THE LOCK.

MOORING HAND SIGNALS STOP EMERGENCY STOP HEAVE

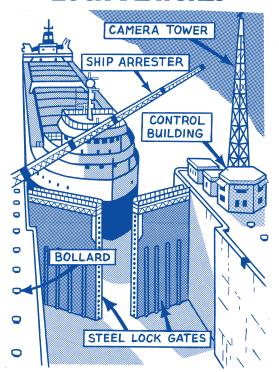
LOCK OPERATION

A SEAWAY LOCK IS A WATERTIGHT CHAMBER WITH GATES AT EITHER END THAT ALLOWS A VESSEL TO BE LIFTED OR LOWERED FROM ONE LEVEL TO ANOTHER.

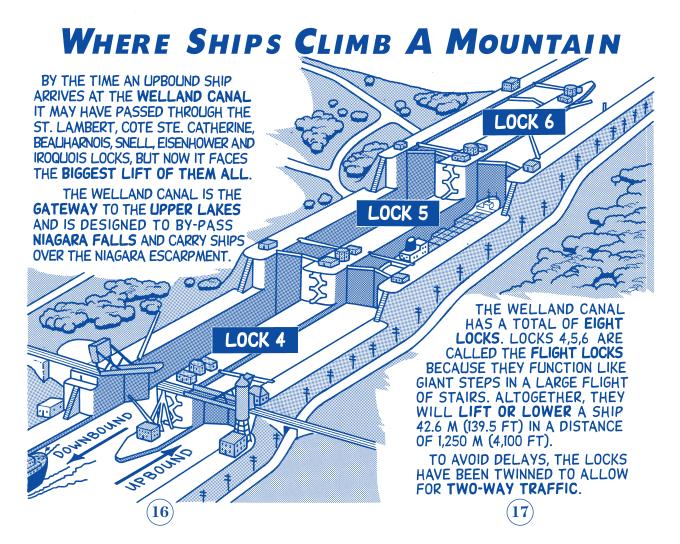


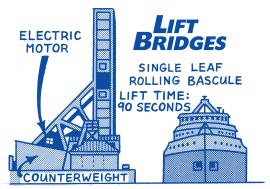
SEAWAY ENGINEERS DESIGNED THE LOCKS TO TAKE ADVANTAGE OF THE LAW OF GRAVITY TO FILL AND EMPTY EACH LOCK. TO RAISE A SHIP, THE UPSTREAM LOCK VALVES ARE OPENED AND WATER FLOWS IN. TO LOWER A VESSEL, THE DOWNSTREAM VALVES ARE OPENED AND THE WATER FLOWS OUT.

LOCK FEATURES



EACH LOCK HOLDS AROUND 91 MILLION LITRES (21 MILLION GALLONS) OF WATER AND TAKES APPROXIMATELY TEN MINUTES TO EMPTY OR FILL.



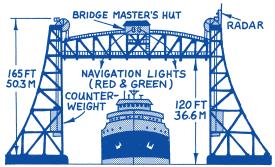


THE MODERN BASCULE BRIDGE IS A DIRECT DESCENDANT OF THE MEDIEVAL DRAW-BRIDGE.

BUILT TO HANDLE SHORT CANAL CROSSINGS, THE SECRET OF THE BASCULE IS IN THE COUNTERWEIGHT WHICH BALANCES THE DRAW SPAN SO EFFECTIVELY THAT ONLY A MODEST AMOUNT OF POWER IS NEEDED TO RAISE IT. ONE SPECIAL PROBLEM ASSOCIATED WITH THE ROLLING LIFT BASCULE IS THE EXTRA STRESS CREATED ON THE BRIDGE WHEN IT IS RAISED VERTICALLY. TO OVERCOME THIS PROBLEM, SPECIAL BRACING IS GIVEN TO THE BRIDGE AND THE ROADWAY TO PROVIDE EXTRA STRENGTH.

BRIDGE SIGNAL LIGHT SYSTEM

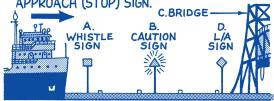
EACH CANAL BRIDGE IS EQUIPPED WITH NAVIGATION SIGNAL LIGHTS WHILE ALONG THE CANAL BANK ARE SIGNS INFORMING THE SHIP'S MASTER OF THE READINESS OF THE BRIDGE.



BRIDGE RAISING PROCEDURE

AS THE SHIP'S STEM APPROACHES THE WHISTLE SIGN (A) THE CAUTION SIGN (B) SHOULD START FLASHING INDICATING THE BRIDGEMASTER HAS SEEN THE SHIP AND HAS STARTED RAISING THE BRIDGE (C). AS THE BRIDGE RISES, ITS RED NAVIGATION LIGHTS START TO FLASH. WHEN THE SHIP STARTS TO PASS THE CAUTION SIGN, THE BRIDGE SHOULD BE FULLY UP AND ITS GREEN NAVIGATION LIGHTS ON.

IF THE GREEN LIGHT IS NOT DISPLAYED, THE SHIP'S MASTER MUST NOT PASS THE LIMIT OF APPROACH (STOP) SIGN.



SEAWAY COMMUNICATIONS

IT IS **ESSENTIAL** FOR SHIPS TRAVELLING THROUGH THE SEAWAY SYSTEM TO MAINTAIN **RADIO COMMUNICATIONS** WITH THE VARIOUS SEAWAY STATIONS AT ALL TIMES. THIS CONSTANT COMMUNICATION ENABLES THE **SEAWAY PERSONNEL** TO MAINTAIN A SAFE AND EFFICIENT TRAFFIC CONTROL SYSTEM.

RADIO

ASSIGNED FREQUENCIES:

- 156.7 MHZ (CHANNEL 14) WORKING (CANADIAN EXCLUDING LAKES ONTARIO AND ERIE).
- 156.65 MHZ (CHANNEL 13) WORKING U.S.A. STATIONS.
- 156.55 MHZ (CHANNEL II) WORKING CANADIAN SECTOR 3 LAKES ONTARIO AND ERIE.

WHISTLE BLASTS

·0000T!

1 SHORT - CAST OFF ALL LINES.

2 SHORT - SHIP READY TO SECURE.

1 LONG & 2 SHORT - MASTER SALUTE

5 SHORT QUICK BLASTS - DANGER.

LONG EVERY 2 MINUTES - VESSEL MOVING IN FOG.

FLAG SIGNALS

- DANGER/CARRYING EXPLOSIVES.
 - COLOR: RED
- MAN OVERBOARD
 - COLORS: RED/YELLOW
- VESSEL READY FOR DEPARTURE
 - COLORS: BLUE/WHITE
- SHIP UNDERGOING SPEED
 - TRIALS
 - COLORS: WHITE/BLUE

SHIP SPOTTING



SOMETIMES A SHIP IS TOO FAR AWAY FOR YOU TO SEE IT CLEARLY AND ALL YOU CAN SEE IS ITS **SILHOUETTE**.

HOWEVER, IF YOU KNOW WHAT TO LOOK FOR, A SILHOUETTE CAN BE **VERY REVEALING.**

LAKER



- ★ SIZE: 600 740 FT (183 225.5 M)
- * SPOTTING CHARACTERISTICS
 - STRAIGHT BOW, FLAT DECK
 - WHEELHOUSE FORWARD.

SELF-UNLOADING LAKER







- ★ SIZE: 600 740 FT (183 225.5 M)
- * SPOTTING CHARACTERISTICS
 - STRAIGHT BOW, LARGE UNLOADING BOOM ON DECK.

DEEP SEA FREIGHTER



- * SIZE AND CARGO VARY.
- * SPOTTING CHARACTERISTICS
 - RAKED BOW, NUMEROUS CARGO DERRICKS.

OCEAN BULK FREIGHTER

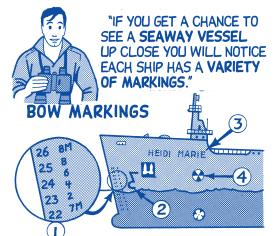


- ★ SIZE: 740 FT (225.5 M)
- * SPOTTING CHARACTERISTICS
 - BULBOUS BOW, FLAT DECK,
 - WHEELHOUSE AFT.

TANKER

- ★ **SIZE**: 400 500 FT (122 153 M)
- * SPOTTING CHARACTERISTICS
 - RAKED BOW, WALKWAY ALONG ROUNDED DECK.

SHIP MARKINGS



- 1. DRAUGHT MARKS INDICATES SHIP'S DEPTH IN WATER. MEASURED IN FEET OR METRES.
- 2. BULBOUS BOW INDICATES SHIP HAS A LARGE TEARDROP SHAPE EXTENDING FORWARD OF THE STEM.
- 3. SHIP'S NAME LAW REQUIRES A SHIP'S NAME BE DISPLAYED AT THE BOW AND AT THE STERN.
- 4. BOW THRUSTER INDICATES A REVERSIBLE PROPELLER NEAR THE BOW THAT FORCES WATER TO ONE SIDE OR THE OTHER.



NAMED AFTER SAMUEL PLIMSOLL THIS MARK, DRAWN ON BOTH PORT AND STARBOARD SIDES INDICATES THE MAXIMUM DEPTH A VESSEL CAN BE SAFELY LOADED IN ALL WEATHER CONDITIONS.

EXAMPLE



LEGEND

• LR - LLOYD'S REGISTRY

• TF - TROPICAL FRESH WATER

• F - FRESH WATER

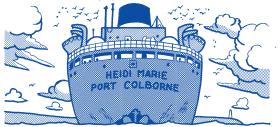
• T - TROPICAL

• S - SUMMER

• W - WINTER

• WNA - WINTER NORTH ATLANIC

STERN MARKINGS



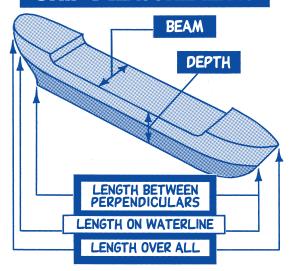
THE SHIP'S NAME MUST BE PAINTED ON THE STERN AND BELOW THE NAME, IS THE SHIP'S PORT OF REGISTRY.

MASTHEAD MARKINGS & LIGHT

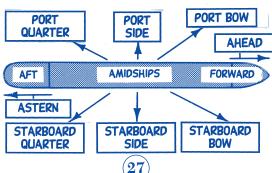


OFTEN YOU WILL SEE A GREAT LAKES VESSEL WITH A LARGE LETTER AND A LIGHT AT THE TOP OF THE FOREMAST. THIS IS A WHISTLE LIGHT WHICH COMES ON EVERY TIME THE WHISTLE BLOWS. IT SERVES AS AN EXTRA SAFETY DEVICE AND THE CAPITAL LETTER REPRESENTS THE SHIP OWNER'S INITIAL.

SHIP MEASUREMENTS



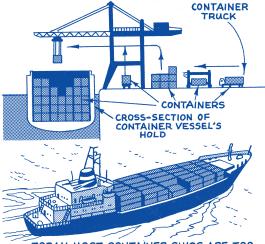
SHIP'S BEARINGS



CONTAINERIZATION

"THE MODERN CARGO CONTAINER IS RESPONSIBLE FOR A **TOTAL REVOLUTION** IN THE WORLD'S CARGO HANDLING METHODS.

THE OLD BREAK BULK HANDLING METHOD WITH CARGO NETS AND SLINGS WAS SLOW AND INEFFICIENT- BUT CARGO SHIPPED IN STANDARDIZED CONTAINERS MEANS QUICKER TURNAROUND TIMES AND REDUCED DAMAGE AND PILFERAGE."



TODAY MOST CONTAINER SHIPS ARE TOO LARGE TO USE THE SEAWAY, BUT NEW SEAWAY-SIZE CONTAINER SHIPS ARE BEING BUILT IN EUROPE.

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PLEASURE CRAFT

DURING THE SHIPPING SEASON, MORE THAN 2,000 PLEASURE CRAFT OF ALL KINDS PASS THROUGH THE SEAWAY. PLEASURE CRAFT ARE WELCOME, BUT THEY MUST BE AT LEAST 6 M (20 FT) IN LENGTH AND WEIGH OVER 900 KG (ONE TON). THERE ARE SPECIAL DOCKS AND TIE-UP AREAS ALONG THE SEAWAY FOR PLEASURE BOATERS, EQUIPPED WITH TELEPHONES, AND SEAWAY STAFF WILL HELP WITH TIE-UP IN THE LOCK CHAMBERS.

BECAUSE THE SEAWAY WAS MADE FOR LARGE CARGO SHIPS, SMALL PLEASURE CRAFT WILL OFTEN BE ASKED TO WAIT WHILE THE COMMERCIAL VESSELS PASS THROUGH THE LOCKS.



THE MAGIC OF TALL SHIPS

ONCE EVERY TWO OR THREE YEARS,
TALL SHIPS FROM ALL OVER THE
WORLD VISIT THE SEAWAY AND
GREAT LAKES. SOME ARE REPLICAS
OF HISTORICAL SAILING SHIPS,
AND SOME ARE TRAINING SHIPS

THAT OFFER TEENS AGED 13 AND UP AN EXCITING ADVENTURE AS THEY LEARN TO SAIL. THEY TAKE PART IN A SERIES OF RACES, RALLIES, CRUISES, AND FESTIVALS AT VARIOUS PORTS ALONG THE SEAWAY AND GREAT LAKES. YOU CAN SEE THE SHIPS UP CLOSE WHEN THEY ARE DOCKED, AND MANY OFFER ON BOARD TOURS.

SEAWAY CRUISES

PASSENGER CRUISE LINERS FROM EUROPE ARE COMING THROUGH THE SEAWAY AND EXPLORING THE GREAT LAKES IN GREATER NUMBERS EACH YEAR. MANY SMALLER LOCAL SHIPS OFFER CRUISES RANGING FROM AN HOUR OR TWO ON A PADDLE BOAT TO SEVERAL DAYS IN LUXURY STATEROOMS FOR TOURISTS WHO WANT TO SEE THE THOUSAND ISLANDS, OR ENJOY A FEW LEISURELY DAYS ON THE WATER AS THEY WATCH THE SPECTACULAR SCENERY DRIFT BY.

VISITING THE SEAWAY

THE ST. LAWRENCE SEAWAY IS ONE OF THE 20TH CENTURY'S TOP 10 GREATEST PUBLIC WORKS PROJECTS. IT IS A FINE EXAMPLE OF SUCCESSFUL CO- OPERATION BETWEEN CANADA AND THE UNITED STATES, AND IS JOINTLY MANAGED BY THE CANADIAN ST. LAWRENCE SEAWAY MANAGEMENT CORPORATION AND THE AMERICAN SAINT LAWRENCE SEAWAY DEVELOPMENT CORPORATION.

IF YOU GET A CHANCE, COME AND VISIT THE SEAWAY. BOTH COUNTRIES HAVE VIEWING AREAS AT ALL THEIR LOCKS. THERE ARE PICNIC GROUNDS AT IROQUOIS, AND SPECIAL HIGH VIEWING PLATFORMS NEXT TO THE EISENHOWER LOCK AND AT LOCK 3 IN THE WELLAND CANAL. AT LOCK 3 ON THE WELLAND CANAL, THERE IS AN INTERESTING MUSEUM TOO.



HAVE FUN & STAY SAFE

WHEN YOU'RE ON OR NEAR THE SEAWAY, KEEP IN MIND THAT THIS IS REALLY A HIGHWAY FOR LARGE SHIPS. PAY ATTENTION TO THE WARNING SIGNS. ON LAND, PLEASE STAY WHERE PUBLIC ACCESS IS ALLOWED, AND REMEMBER THAT YOU CAN'T SWIM OR GO FISHING IN SEAWAY WATERS.

LARGE SHIPS PASS THROUGH EVERY DAY, AND HUGE AMOUNTS OF WATER ARE SUCKED IN AND PUSHED OUT WHEN LOCKS OPEN AND CLOSE. THERE ARE MANY UNSEEN DANGERS IN AND AROUND SEAWAY CHANNELS. WATER LEVELS AND CONDITIONS CAN CHANGE WITHOUT WARNING EVERYWHERE, CREATING SUDDEN SWIFT CURRENTS, UNDERTOWS AND STRONG TURBULENCE.

IF YOU, YOUR FAMILY OR FRIENDS WOULD LIKE TO SEE OUR SPECIAL VIDEO, "DANGEROUS WATERS OF THE WELLAND CANAL," CALL YOUR LOCAL SCHOOL BOARD, THE ST. CATHARINES MUSEUM WELLAND CANAL CENTRE OR THE ST. LAWRENCE SEAWAY MANAGEMENT CORPORATION.

THE CANADIAN SEAWAY LOGO IS A STYLIZED DRAWING OF A SHIP IN A LOCK CHAMBER



For more information, write to:

The St. Lawrence Seaway Management Corp. 202 Pitt Street Cornwall, Ontario K6J 3P7 Phone (613) 932-5170

Or come visit our Web site at www.greatlakes-seaway.com

ISBN 0-921890-00-1 PRINTED IN CANADA