CUSTOM REPORT SELECTION ON SALT WATER PROJECTS

* LASCELLES WHARF

No: 09081

GEELONG AUSTRALIA

Owner PORT OF GEELONG AUTHORITY

Designer DIMAC CONSTRUCTORS
Contractor PIONEER CONCRETE PTY LTD

Applicator BATCHING & POUR SUPERVISED BY XYPEX AUSTRALIA

Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

Total 40 SLABS

Comments XYPEX C-2000 WAS ADDED TO THE CONCRETE SLABS. EACH SLAB USED

11 CUBIC METERS OF CONCRETE. THIS WHARF IS USED MAINLY FOR UNLOADING BULK FERTILIZERS. THE AREAS OF CONCERN ARE; 1) DEGRADATION OF THE CONCRETE DUE TO CHEMICAL ACTION OF FERTILIZERS, AND 2) BEING IN THE SALT WATER SPLASH ZONE.

* VISITORS MARINA - DARLING HARBOUR

SYDNEY

AUSTRALIA

Contractor SEA SLIP PTY LTD.

Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

Comments XYPEX ADMIX C-2000 WAS USED TO WATERPROOF AND PREVENT THE

INGRESS OF CHLORIDES TO THE PRESTRESSED, PRECAST UNITS, WHICH

ENSURE A LONGER LIFE FOR THE STRUCTURE.

* CHISWICK WHARF

No: 09104

No: 11688

SYDNEY, NEW SOUTH WALES

AUSTRALIA

Owner NEW SOUTH WALES DEPT OF TRANSPORT
Designer TAYLOR LAUDER CONSULTANTS (ENGINEERS)

Contractor AUSMAR PTY LTD Applicator KLADIS BROS.

Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

Completed 02/00/95

Comments ADMIX C-2000 WAS USED TO REDUCE THE COVER OVER THE STEEL

FROM 65 MM TO 30 MM. THIS REDUCED THE WEIGHT ON PONTOON AND ACHIEVED AN IMPERMEABLE SURFACE TO PROTECT THE STEEL FROM CHLORIDES. CONCENTRATE USED IN CONST. JOINTS WALKWAYS TO PONTOON TREATED WITH ADMIX C-2000 AND IT IS NOTED THAT CONCRETE IN TREATED AREAS IS STAIN FREE AND WHITE.

No: 11683

No: 08315

No: 10444

* DOMAIN TUNNEL/YARRA CROSSING - STAGE 1 AND 2

MELBOURNE AUSTRALIA

Proj. Type TUNNELS & SUBWAY SYSTEMS

Comments ADMIX C-1000NF WAS USED TO WATERPROOF THE CONCRETE PAVEMENT

AND LINING OF THE DOMAIN TUNNEL IN THYE SECTION OF YARRA CROSSING STAGE 1. STAGE 2 OF THE SAME TUNNEL (CUT & COVER CONSTRUCTION) USED CONCENTRATE/MODIFIED COATINGS ON WALL SEGMENTS. XYPEX DS1 CONCENTRATE WAS USED ON THE HORIZONTAL

SURFACES OF THE CONCRETE PAVEMENT AND ROOF SEGMENTS.

* SYDNEY HARBOUR TUNNEL

SYDNEY AUSTRALIA

Owner SYDNEY HARBOUR TUNNEL COMPANY LIMITED
Contractor TRANSFIELD-KUMAGAI GUMI JOINT VENTURE
Applicator SEAL-MAX CONCRETE WATERPROOFING

Proj. Type TUNNELS AND SUBWAY SYSTEM

Completed 1992

Comments EXTENSIVE HAIRLINE CRACK REPAIR UNDERTAKEN WHEN OTHER

PRODUCTS FAILED TO SEAL WATER SEEPAGE. TWO WORK CREWS SPENT APPROXIMATELY THREE MONTHS IN THE TUNNEL USING BOTH PATCH'N PLUG AND XYPEX CONCENTRATE TO STOP LEAKS. 52 PRODUCTS WERE

TESTED AND XYPEX WAS THE ONLY ONE THAT PASSED.

* AOMORI BAY BRIDGE - PRECAST CONCRETE MAIN BEAMS

AOMORI JAPAN

Proj. Type BRIDGE STRUCTURES
Total 6,200 SQ METRES

Completed 1992

Comments THE AOMORI BAY BRIDGE, MEASURING 25 METERS IN WIDTH AND

1,219 METERS IN LENGTH, IS EXPOSED TO SALT FROM THE OCEAN CAUSING DAMAGE TO THE PRECAST CONCRETE GIRDER BOX MAIN BEAMS. XYPEX WAS APPLIED TO THE FLOOR OF THE MAIN BEAM FROM THE INSIDE OF THE GIRDER BOX TO RENDER THE STRUCTURE

IMPERVIOUS TO THE ELEMENTS.

Designer Contra

Contractor

No: 11975

No: 01021

No: 10444

* FISHING JETTY - CONSTRUCTION/MODIFICATION

CONSETT BAY, ST. JOHN BARBADOS, WEST INDIES **GOVERNMENT OF BARBADOS** DAVID LASHLEY & PARTNERS **EDGHILL CONSTRUCTION** MARKHAM CONSTRUCTION

Applicator Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

THIS JETTY, CONSTRUCTED OUT OF PRE-CAST SLABS, WAS TREATED Comments

> WITH A TWO COAT APPLICATION OF XYPEX CONCENTRATE (42 PAILS) TO PREVENT DETERIORATION DUE TO EXTREME EXPOSURE TO SALT

AIR AND SEA WATER.

* VANCOUVER SEABUS FLOATING DOCKS

VANCOUVER, BRITISH COLUMBIA

CANADA

Owner GREATER VANCOUVER REGIONAL DISTRICT Designer CASE EXISTOLOGICAL LABORATORIES LTD

DILLINGHAM CORPORATION Contractor Applicator DILLINGHAM CORPORATION

Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

Completed 1976

Comments XYPEX PRODUCTS WERE APPLIED TO UNDERSIDE OF TWO LARGE

> FLOATING DOCKS AFTER THE POST TENSIONED CABLES WERE FOUND TO BE, IN SOME PLACES, NO MORE THAN 1/2" FROM BOTTOM SURFACE. THE

XYPEX SYSTEM WAS USED AS A PROTECTION AGAINST FURTHER CHLORIDE (SALT) ATTACK ON STEEL AND POST-TENSIONED CABLES.

AOMORI BAY BRIDGE - PRECAST CONCRETE MAIN BEAMS

AOMORI **JAPAN**

Proj. Type **BRIDGE STRUCTURES** Total 6,200 SQ METRES

Completed 1992

Comments THE AOMORI BAY BRIDGE, MEASURING 25 METERS IN WIDTH AND

> 1,219 METERS IN LENGTH, IS EXPOSED TO SALT FROM THE OCEAN CAUSING DAMAGE TO THE PRECAST CONCRETE GIRDER BOX MAIN BEAMS. XYPEX WAS APPLIED TO THE FLOOR OF THE MAIN BEAM FROM THE INSIDE OF THE GIRDER BOX TO RENDER THE STRUCTURE

IMPERVIOUS TO THE ELEMENTS.

No: 02628

No: 09781

* U.S. NAVAL FACILITIES DRY DOCK (2)

LONG BEACH, CALIFORNIA

U.S.A.

Owner
U.S. DEPARTMENT OF THE NAVY
Designer
MOFFATT & NICHOL ENGINEERS
Contractor
Applicator
DELTA PACIFIC BUILDERS INC.
DELTA PACIFIC BUILDERS INC.

Proj. Type FLOATING CONCRETE STRUCTURES

CHEMICAL & CHLORIDE PROTECTION

Total 15,000 SQ FT

Completed 1985

Comments TWO COATS OF XYPEX CONCENTRATE WERE APPLIED TO THE

EXTERIOR (TWO SIDES) OF THE DRY DOCK.

* PANAMA CANAL GATUN LOCKS CULVERTS

PANAMA CITY

PANAMA

Owner PANAMA CANAL COMMISSION

Designer PANAMA CANAL ENGINEERING DIVISION
Contractor PANAMA CANAL MAINTENANCE DIVISION
Applicator PANAMA CANAL MAINTENANCE DIVISION

Proj. Type TUNNELS & SUBWAY SYSTEMS

ADMIX PROJECTS

Comments XYPEX ADMIX WAS ADDED TO THE SHOTCRETE MIX AND APPLIED TO

ALL CULVERT (TUNNELS) SURFACES. THE ORIGINAL SPEC CALLED FOR APPLICATION OF XYPEX CONCENTRATE FOLLOWED BY SHOTCRETE, HOWEVER USE OF XYPEX ADMIX SIMPLIFIED THE PROCESS AND

REDUCED COSTS.

* PANAMA CANAL - PEDRO MIGUEL LOCKS TRANSFORMER ROOM

No: 09949

PANAMA CITY

PANAMA

Owner PANAMA CANAL COMMISSION

Designer PANAMA CANAL ENGINEERING DIVISION
Applicator PANAMA CANAL - MAINTENANCE DIVISION

Proj. Type VAULTS & ELEVATOR PITS

TUNNELS & SUBWAY SYSTEMS

Completed 1995

Comments XYPEX CONCENTRATE AND MODIFIED WERE USED TO REPAIR AND

TREAT THE WALLS OF THE TRANSFORMER ROOM OF THE PEDRO

MIGUEL FLOODGATE ACCESS TUNNELS.

No: 02755

No: 01399

* TREASURE ISLAND NAVAL BERTHING PIER 503

SAN DIEGO, CALIFORNIA

U.S.A.

Owner U.S. NAVY Designer WESTERN I WESTERN NAVAL COMMAND Contractor MORRISON-KNUDSEN CO. INC. Applicator MORRISON-KNUDSON CO. INC.

Proj. Type CHEMICAL & CHLORIDE PROTECTION

VAULTS & ELEVATOR PITS

Total 8,400 SO FT

Completed 1985

Comments XYPEX WAS APPLIED TO LARGE ELECTRICAL VAULT SO AS TO PROTECT

CONCRETE AND REBAR FROM SALT WATER ATTACK. THE DRY BROAD-

CAST METHOD WAS USED FOR THE SLAB AREA (3,000 SQF) WHILE

EXTERIOR WALLS (5,400 SQF) RECEIVED A TWO COAT APPLICATION. THIS

BERTHING PIER IS THE OCEAN-SIDE PIER FOR THE U.S.S. MISSOURI.

FLOATING OFFSHORE CONCRETE BARGES

No: 01037

GULF OF MEXICO, LOUISIANA

Contractor MARINE CONCRETE STRUCTURES, INC. Applicator MARINE CONCRETE STRUCTURES, INC. Proj. Type FLOATING CONCRETE STRUCTURES

Total 7,500 LBS

INTERIOR OF THE WATER STORAGE AND HEAVY OIL STORAGE CELLS Comments

WERE TREATED WITH XYPEX. THIS FLOATING OIL FIELD PRODUCTION

FACILITY HAS A TOP AREA OF 5,000 SQ FT AND IS 12 FEET DEEP.

* HOOD CANAL FLOATING BRIDGE

OLYMPIC PENINSULA, WASHINGTON

U.S.A.

Owner WASHINGTON STATE DEPT OF TRANSPORTATION Designer PARSONS BRINKERHOFF QUADE & DOUGLAS

J.A. JONES CONSTRUCTION COMPANY Contractor

BRIDGE STRUCTURES Proj. Type

CHEMICAL & CHLORIDE PROTECTION

Completed 1983

Comments XYPEX WAS USED TO LINE WET CELLS THAT HOLD SALT WATER. THESE

CELLS ARE USED AS VARIABLE STABILIZERS FOR THE FLOATING

PONTOONS WHICH SUPPORT THE BRIDGE STRUCTURE. TOTAL COST OF

PROJECT WAS \$212 MILLION.