STORM WATER POLLUTION PREVENTION PLAN

FOR

OBEXER'S MARINA
5355 WEST LAKE BLVD. (STATE HIGHWAY 89)
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Lahontan Regional Water Quality Control Board
Facility WDID No. 6A31S000089

PREPARED BY

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CONTENTS

OBEXER'S MARINA BMP RETROFIT PLAN

1. Location

Obexer's Marina is located in Homewood, California on the West Shore of Lake Tahoe between the shoreline and West Lake Blvd. (State Highway 89). Sheet C1 of the BMP Retrofit Plan Set shows location and vicinity maps and the property plan.

2. BMP Retrofit Plan

a. General Description of the Marina and Retrofit Plan

The marina has a breakwater-protected harbor with boat slips and a launching ramp available to the public as well as offshore boat anchor buoys. Marina fuel is available to the public at a single pump facility supplied by an above-ground concrete storage tank located on the upland marina area.

The upland marina is shown on Sheet C2 of the BMP Retrofit Plan Set. There are four buildings and a concrete pad for storage of boats, a mechanic's shop fronting West Lake Blvd., two buildings where boats and marine supplies are sold, a public market, harbor office building, and a separate marina manager's residence. Sailboats are stored on racks on the concrete pad, and in open areas at the south and north ends of the property.

Sheet C2 shows the grading and drainage plan, the infiltration ponds and details, and the paving of principal vehicular circulation areas. In addition to the ponds, upland infiltration areas have been created at a number of locations by the installation of rock-lined interception-infiltration swales and low berms. Runoff from the paved areas tributary to the two infiltration ponds is collected at drain inlets and conveyed to oil-sand interceptors prior to discharging to the detention-infiltration ponds. Gate valves have been placed between the oil-sand interceptors and the ponds so that discharge to the ponds can be shut off in the event of a spill in the tributary paved area. The only areas where runoff is not intercepted prior to discharge to lake waters are two concrete slabs and small adjacent paved areas where boats are launched by marina-operated hoists, and the upper portion of the public launching ramp. Grass swales have been created between the harbor bulkhead and a the adjacent paved travel way between the hoist slabs and the launching ramp.

b. Regulatory Agency Approvals

Placer County Public Works approved the Retrofit Plan Set in 1999 as Project Number 7397 following approvals by the Tahoe Regional Planning Agency and the Lahontan Regional Water Quality Control Board.

c. Area Tributary to On-site Detention and Infiltration Facilities

The marina property and South Street, a Placer County road that runs from West Lake Blvd. to the public launching ramp operated by Obexer's, total 116,122 Square Feet. Surface runoff from this area is controlled by the constructed BMPs with the exception of about 2,670 Square Feet in the two hoist locations and the upper launching ramp.

The Retrofit BMPs and the rock-lined ditch that conveys State Highway runoff to a sediment-debris basin on the shoreline at the southeast corner of the property represent discharge controls of 97.7 percent of the marina property and the South Street right-of-way.

d. Status and Pending Revision to Plan

The BMP retrofit improvements are complete except for planting of the grass swales along the harbor bulkhead.

The Type A A.C. dikes shown on the plan were constructed but have proved vulnerable to damage from marina equipment and Placer County snow removal operations. The marina management proposes to replace these dikes at a number of locations with Placer County Type A1-6 concrete barrier curbs. This curb will replace the A.C. dikes that border the grass swales, and will have openings through which drainage from the adjacent paving can flow onto the swale areas.

The foregoing revision will be submitted to the regulatory agencies for approval prior to performing the work.

MARINA OPERATIONS AND REPAIR FACILITIES

1. Boat Maintenance and Repair

Mechanical repairs are performed in the Mechanic's Shop, and maintenance of sailboats is performed at the outdoor rack-storage areas.

2. Marine Fuel Sales

a. On-Site Fuel Storage

MTBE-free unleaded fuel is stored on-site in an above-ground 6,000 gallon concrete vault installed per California regulations and approved by the Placer County Health Department.

b. Fuel Pump Area

Fuel is dispensed through a single pump at the marine fuel sales area.

MAINTENANCE OF SURFACE DRAINAGE FACILITIES

The Schedule for Annual Maintenance of Surface Drainage Areas dated April 18, 1997 was approved by the Tahoe Regional Planning Agency and the Lahontan Regional Water Quality Control Board. This Schedule has been revised and updated to reflect current conditions and suggestions by the Lahontan staff, and the revised Schedule is set forth in Appendix A.

SPILL CONTINGENCY PLAN

The Spill Contingency Plan set forth in Appendix B has been modeled after the North Lahontan Basin Guidelines for Spill Contingency Plans prepared by the Lahontan staff, and it incorporates requirements and suggestions for routine fueling operations as well as spill control provisions for upland tributary drainage areas.

MONITORING AND REPORTING PROGRAM

The Monitoring and Sampling Program set forth in Appendix C is based on the WDID objectives and suggestions made by Lahontan staff.

APPENDIX A

SCHEDULE FOR MAINTENANCE OF SURFACE DRAINAGE FACILITIES

General

This schedule sets forth guidelines for the maintenance of drainage facilities installed as specified in the BMP Retrofit Plan approved April 17, 1997 by the Tahoe Regional Planning Agency and the Lahontan Regional Water Quality Control Board, and by the County of Placer on July 16, 1999.

The objective of the guidelines is to insure that the drainage collection, treatment, and disposal facilities are maintained in good condition, and that any needed repairs or restoration measures are carried out in a timely manner.

Periodic inspections, maintenance, repair, and restoration measures shall be as required to achieve the objectivess, and shall not be limited to the specifically scheduled items set forth below.

Each Spring

1. Remove accumulated sediments from open sediment basins, drain inlets, and from sand-oil separators as needed.

2. Flush accumulated sand and sediments from the slot drain and flushing box located above the launching ramp.

3. Inspect drip line trenches and restore and/or replace gravel as needed.

4. Inspect terminal disposal ponds and remove accumulated debris and prune of replace vegetation as needed.

Each Fall

1. Inspect drain inlets and sand-oil separators, and remove accumulated sediments as needed.

2. Inspect slot drain and flushing box, and remove accumulated sand and sediments as needed.

3. Inspect graded berms for any damage or excessive compaction during the summer season, and restore as necessary.

Ongoing and As Required

Remove site debris and unauthorized material stored in planned infiltration areas.

Scarify terminal disposal pond bottoms if and as needed to maintain and restore infiltration capacity. Restore pond outflow points as necessary.

APPENDIX B

SPILL CONTINGENCY PLAN

I. Prevention and Containment

A. The following are possible spill areas and should be inspected on a regular basis for damage and leaks or spills.

(1) Mechanic's Shop and waste oil drum containment storage attached to the rear of the building.
(2) The above-ground fuel storage vault and exposed piping
(3) Outdoor boat storage areas where maintenance is performed such as the sailboat storage area in front of the Manager's residence.
(4) The marine fuel pump area.
(5) The boat pump-out facility.

B. Spills that flow into the drainage inlets can be blocked from the detention-infiltration ponds by gate valves on the discharge line from the oil-sand separators and these gate valves must be kept visible. Spills that have not reached drainage inlets can be blocked by the placement of inlet blocks such as "The Beaver Dam" manufactured by Dandy Products Inc., 800-591-2284.

C. Minor spills during boat fueling can be minimized by having the operator hold an absorbent cloth around the nozzle while pumping.

II. Cleanup and Disposal

A. Absorbent cloths are to be kept in a covered pail by the marine fuel pump area and used to clean up any spills; and absorbent "pigs" should be available on site for larger spills.

B. Contaminated cloths and materials should be placed in a drum in the waste oil containment area until disposed of by licensed service.

C. At the beginning of the summer season, provide employees with a training session on prevention and cleanup procedures.

III. Notification and Information

A. Develop and post in the Mechanic's Shop, the main office, and the harbor office, a list of people and agencies to contact should a spill occur. This list should include the Marina Owner and Manager, the Placer County Health Department, and the Lahontan Regional Water Quality Control Board. This list should also include the Marina chain of command to handle spill events beginning with the Marina Manager and designated alternate.

B. Develop and post a list of cleanup material and equipment suppliers.

APPENDIX C

MONITORING AND REPORTING PROGRAM

I. HARBOR WATER

A. Two samples of water from the harbor shall be obtained twice each summer, one on or about July 4th, and the other on or about Labor Day. The samples shall be taken by a qualified person and laboratory tests for Petroleum Hydrocarbons and for BTEX shall be performed by an accredited laboratory with report copies sent to the Lahontan Regional Water Quality Control Board.

B. Should there be "No Detects" for two consecutive years, then the Marina may apply to the Lahontan staff for termination of this sampling and reporting.

II. STORM EVENTS

A. Runoff from at least two storm events shall be monitored during each twelve-month reporting period.

B. Detention-Infiltration Ponds

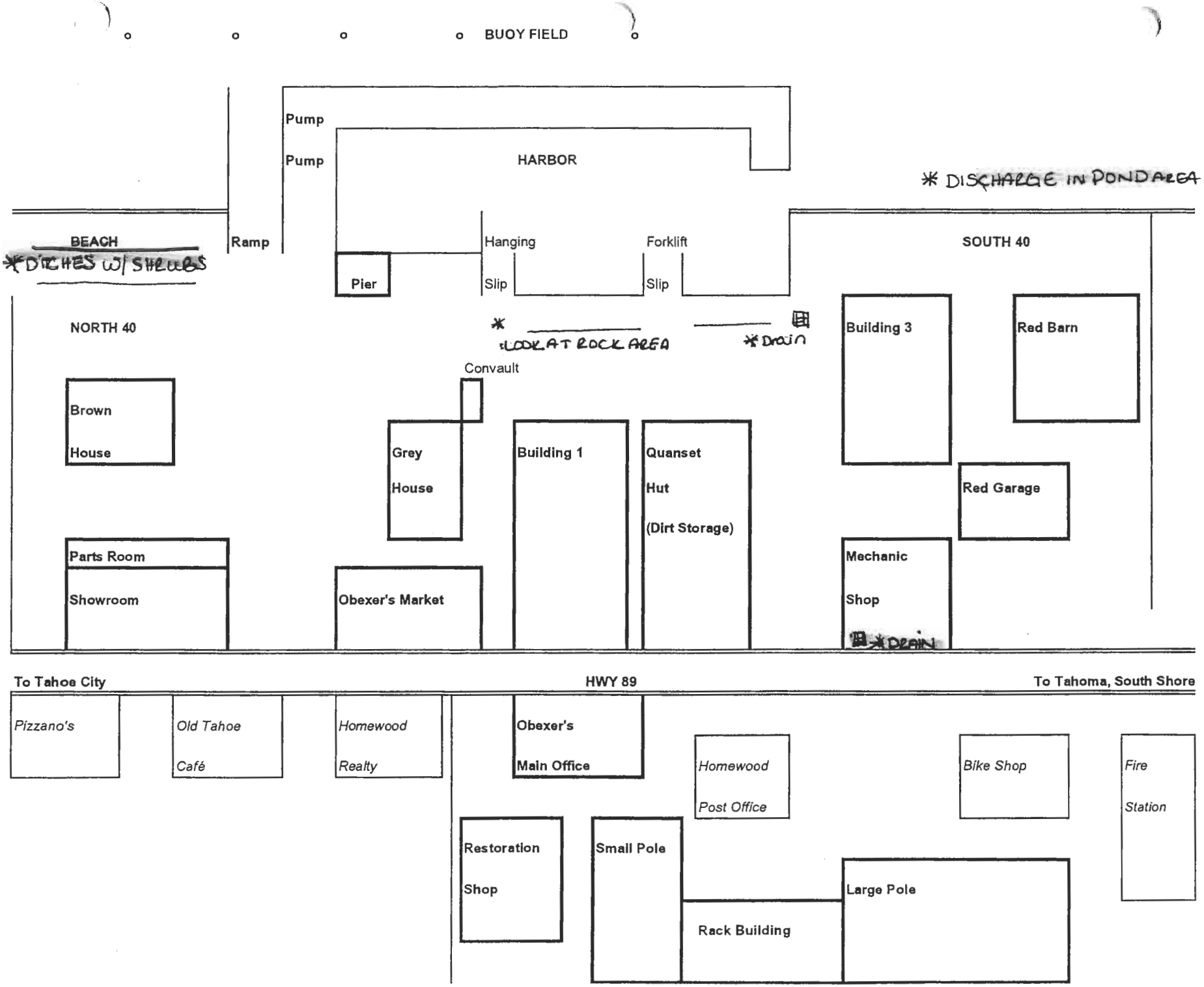
(1) At the beginning of the storm note water levels (if any) in the ponds.

(2) Two samples of any discharge from the ponds during or after the storm shall be taken and tested for turbidity and petroleum hydrocarbons by an accredited laboratory with report copies sent to the Lahontan Regional Water Quality Control Board.

C. Concrete Hoist Pads

(1) Two samples of runoff from the two hoist pad areas into the harbor during or after the storm shall be taken and tested for turbidity and petroleum hydrocarbons by an accredited laboratory with report copies sent to the Lahontan Regional Water Quality Control Board.

(2) Should turbidity levels and a "no detect" of petroleum hydrocarbons warrant, the Marina may apply to the Lahontan staff for termination of sampling for these small tributary areas.


BUOY FIELD
Pump
Pump
HARBOR
* DISCHARGE IN POND AREA
BEACH
*DITCHES W/ SHRUBS
Ramp
Hanging
Slip
Forklift
Slip
Pier
SOUTH 40
NORTH 40
* LOOK AT ROCK AREA
* Drain
Building 3
Red Barn
Convault
Brown
House
Grey
House
Building 1
Quanset
Hut
(Dirt Storage)
Red Garage
Parts Room
Showroom
Obexer's Market
Mechanic
Shop
* DRAIN
To Tahoe City
HWY 89
To Tahoma, South Shore
Pizzano's
Old Tahoe
Café
Homewood
Realty
Obexer's
Main Office
Homewood
Post Office
Bike Shop
Fire
Station
Restoration
Shop
Small Pole
Large Pole
Rack Building