Publication No. 74-e93

WA-21-0010

August 26, 1974

Memo to: Ron Robinson

From: Mike Tomlinson

Subject: Pacific Beach Lagoon (Grab)

We took a grab sample on July 16, 1974, from the lagoon. The lagoon was well kept and appeared in good shape. We were unable to locate Larry Molett for further inquiry.

MT:jmh

STP Survey Report Form

Efficiency Study

City Pacific Beach Plant Type Lagoon Pop. Served _____ Design Capacity _____

Receiving Water Joe Creek Perennial X Intermittent _____

Date 7/16/74 Survey Period _____ Survey Personnel Tomlinson, Lindskog

Comp. Sampling Frequency GRAB Sampling Alequot NA

Weather Conditions (24 hr) Rain Are facilities provided for complete by-pass of raw sewage? _____Yes _____No/Frequency of bypass _____

Reason for bypass _____ _____ Is bypass chlorinated? ____Yes ____No

Was DOE Notified? _____ Discharge - Intermittent _____ Continuous _____

Plant Operation

Total flow _____ How measured _____

Maximum flow _____ Time of Max. _____

Minimum flow _____ Time of Min. _____

Pre Cl_2 _____ #/day Post Cl_2 _____ #/day

Field Results

___Determinations	~~Influent~~ LAGOON Max.	Min.	Mean	Median	~~Effluent~~ Max.	Min.	Mean	Median
Temp °C		17						
pH (Units)		7						
Conductivity (μmhos/cm^2)		400						
Settleable Solids (mls/l)								

Laboratory Results on Composites

	Influent	~~Effluent~~ LAGOON 74-2926	% Reduction
Laboratory No.			
5-Day BOD ppm		46	
COD ppm		309	
T.S. ppm		411	
T.N.V.S. ppm		182	
T.S.S. ppm		156	
N.V.S.S. ppm		ND	
pH (Units)		7.2	
Conductivity (μmhos/cm^2)		350	
Turbidity (JTU's)		25	
Chlorides		23	

Laboratory Bacteriological Results

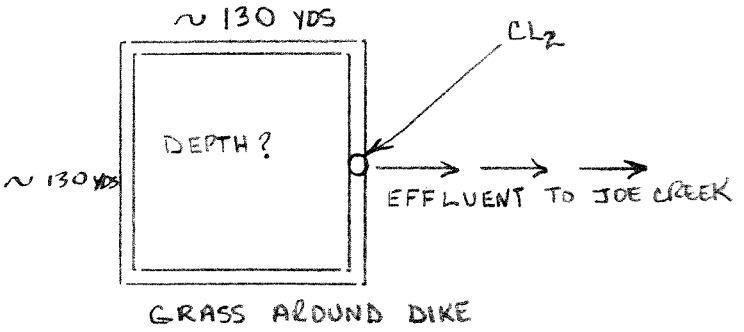
Lab No.	Sampling Time	Colonies/100 ml (MF) Total Coliform	Fecal Coliform	Fecal Strep	Cl_2 Residual
		>40,000	>4,000	-----	----------

Additional Laboratory Results

NO_3-N ppm -	0.06
NO_2-N ppm -	ND
NH_3-N ppm -	10.0
T. Kjeldahl-N ppm -	18.3
O-PO_4-P ppm -	4.2
T-PO_4-P ppm -	7.0

Operator's Name Larry Molett Phone No. 289-3404

Furnish a flow diagram with sequence and relative size and points of chlorination.



Type of Collection System

__ Combined __ Separate __ Both

Estimate flow contributed by surface or ground water (infiltration)

_____ MGD

Plant Loading Information

Annual average daily flow rate(mgd)

Dry _____

Wet _____

Peak flow rate(mgd)

Dry _____

Wet _____

COMMENTS: Water in some areas within about 1 foot of overflowing.

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

ORIGINAL TO: M. TOMLINSON
COPIES TO:

DATA SUMMARY

Source Pacific Beach Lagoon Collected By M.T.

Date Collected 7-16-74 Goal No./Obj.

Log Number: 74- 2926

Station	GEAL LAGOON	STORET
pH	7.2	
Turbidity (JTU)	25.	00070
Conductivity (umhos/cm)@25°C	350	0095
COD	309	00340
BOD (5 day)	46	00310
Total Coliform (Col./100ml)	>4x10⁴	31504
Fecal Coliform (Col./100ml)	>4,000	31616
NO3-N (Filtered)	.06	00620
NO2-N (Filtered)	N.D.	00615
NH3 N (Unfiltered)	10.0	00610
T. Kjeldahl-N (Unfiltered)	18.3	00625
O-PO4-P (Filtered)	4.2	00671
Total Phos.-P (Unfiltered)	7.0	00665
Total Solids	411.	00500
Total Non Vol. Solids	182	
Total Suspended Solids	156	00530
Total Sus. Non Vol. Solids	N.D.	
Chlorides	23	

Note: All results are in PPM unless otherwise specified. ND is "None Detected"
Convert those marked with a * to PPB (PPM X 10^3) prior to entry into STORET

Summary By Stephen P. Roll Date 8-19-74