WA-56-1010

September 6, 1974

Memo to: Howard Bunten

From: Dan Glantz

Subject: Rockford Lagoon Survey

The survey was conducted on May 22, 1974, by Mike Harris. The weather was warm and clear. Mike contacted Mr. Carl Schmidt, the operator of the lagoon, and obtained access through the gate into the area of the ponds. Both ponds have large amounts of duck weed growing around the banks. There was hardly any flow coming out the effluent. During the summer, the receiving stream, Rock Creek, dries up completely.

Conductivity figures obtained from the lab report do not appear reliable and are in contrast to the field report. Total Kjeldahl was not run as the holding time for the sample had expired. Coliform is higher than it should be and it could be reduced with chlorination which is not being used at this time.

The field and laboratory reports are attached for your reference.

DG:jmh

STP Survey Report Form

Efficiency Study

City Rockford F	lant Type <u>Lagoor</u>	n Pop	. Served_	<u>130</u>	Design	-
Receiving Water Rock	k Creek	_ Perenni	al	Intermitten	<u>apacity</u>	
Date <u>5/22/74</u> Surv	vey Period <u>1000-</u>	1300	Survey Po	ersonnel <u>M.</u>	Harris	
Comp. Sampling Freq	uency <u>1/2 hour</u>	Sampl	ing Alequ	ot <u>500 m1</u>		Mild geging damamakan sharan gegin damamakan
Weather Conditions	(24 hr) <u>Hot - Sur</u>	<u>nny</u> Are f	acilities	provided for	or comple	te by-
pass of raw sewage?	X Yes	_No/Frequ	ency of b	ypass	0	
Reason for bypass		Is by	pass chlor	rinated?	Yes	<u>x</u> No
Was DOE Notified?	Discharg	e - Inter	mittent	Conti	.nuous	
	Plant	Operation				
Total flow		How mea	sured			
Maximum flow		Time of	Max			
Minimum flow		Time of	Min.			
Pre Cl ₂ 0	#/day	Post Cl	2	0	#,	/day
	Fiold	Results				
	Influ	······································		DEE		
7 Delesso inclusione				Eff		
7 Determinations		Mean			•	
Temp °C pH (Units)	12.5 12.0 8.8 8.0		<u>12.5</u> 8.3	15.5 15.0 8.0 7.4		<u>15.5</u> 7.5
Conductivity (µmhos/cm ²)	975 625		800	500 475		500
Settleable Solids (mls/1)	5 3	4	3	Tr 0	0	0
	Laboratory Res	ults on C	omposites			
	Influent	Efflu	ent	% Reduct	ion	
Laboratory No.	74-1891	74-18	92			
5-Day BOD ppm	125	<	16			
COD ppm T.S. ppm	<u> </u>	3	<u>70</u> 36	<u>57%</u> 35%		
T.N.V.S. ppm	<u> </u>		01	32%		
T.S.S. ppm N.V.S.S. ppm	24		23	79% 71%		
pH (Units) Conductivity	7.5	7	,7			
(µmhos/cm ²) Turbidity(JTU's)	<u>*7300</u> <u>48</u>	*47	00			

* QUESTIONABLE, CONFLICTS WITH FIELD DATA.

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

DATA SUMMARY

ORIGINAL . D. 644* COPIES TO	7.Z

LAB FILE	
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Source	Koc	k far	1 9	ST	р	

Date Collected 5.22.74

Goal,	Pro.	/0bj.	

Summary By Aright D. Roll Date 2-17-74

Log Number: 74-	1891	92	43	94	95	7 <u>96</u>	[T T	1	STORET
Station:	INF	Eff	1000	1100	1201	1300		_		-
DH	7.5	7.7								00403
Curbidity (JTU)	48	14								00070
Conductivity (umhos/cm)@250	7300	4700								00095
COD	163	70			•	ļ				00340
30D (5 day)	125	<u> <16</u>				I				00310
Cotal Coliform (Col./100ml)		-	6500			8,500				31504
Secal Coliform (Col./100ml)			EST	E ST 100	EST 20	250				31616
103-N (Filtered)	l	.24								00620
NO2-N (Filtered)		ND								00615
NH3-N (Unfiltered)		_*								00610
[. Kjeldahl-N (Unfiltered)		*				 				00625
)-PO4-P (Filtered)		3.20								00671
Total PhosP (Unfiltered)		5.0								00665
Total Solids	517	336				 				00500
Total Non Vol. Solids	295	201								×
Total Suspended Solids	108	23	 							00530
Total Sus. Non Vol. Solids	24	2								
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Note: All results are in H Convert those marked F Not Analyses Sue to heavy	d with	a * to	PPB (PPM X	10^{3}) r	rior to	o entrv ir	to STORE	r	

Laboratory Bacteriological Results

				1 >	Cla Re	esidual	
Lab No.			lonies/100 ml		-2 -2	- J & U U U U U	
	Time	Total	Fecal	Fecal			
	· ·	Coliform	Coliform	Strep			
74-1893	1000	6500	<u>Est. 90</u>				
1894	1100	6000	Est. 100				
1895	1200	7000	<u>Est. 70</u>				
1896	1300	8500	250				
			-				
		Additional	Laboratory R	esults			
NO3-N pp		. 24]
NO2-N pp		N.D.					
NH3-N pp		(1)			····]
T. Kjeld		in a hann a bara a shara a 1966 - Mala and Alin Andrian a shara a shara a shara a shara a shara a shara a shar				and the second	
O-PO4-P		3.20					
T-PO4-P		5.0		·····			
(1) Normation (1)	ot analyze	d - holding ti	me expired.	Phone No			
Operator's	(VO10)			FUODE NO	•		
Furnish a chlorinatio	flow diag	gram with see	quence and re	lative siz	e and po	POINT POINT INFLU	ент Ш
Furnish a chlorinatio	flow diag	to the test of	FENCE	lative siz	e and po	POINT	
Furnish a chlorinatio	flow diag	fram with sec	FENCE	lative siz	SAMPLING	POINT	
Furnish a : chlorinatio	flow diag	fram with sec	FENCE	lative siz	SAMPLING	POINT	
Furnish a chlorinatic	flow diag on Fer M ^D LAGOON	fram with sec	FENCE FENCE FENCE I E LAGO ROUK CREEK) IMPLING POINT Collection System th Estimates and the second system Estimates and the second system The second system is a second system The second system is a second system	lative siz	CREEK	POINT TINFLU TINFLU TINFLU TINFLU	<u>س</u> } \$
Eurnish a schlorination	flow diag on Fer M ^D LAGOON	Type of C	FENCE FENCE FENCE IS LAGO ROLK CREEK) MPUNE POINT Collection System th Est for the formation of the	lative siz	CREEK	POINT TINFLU TINFLU TINFLU TINFLU TINFLU TINFLU	uj ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Eurnish a schlorination	flow diag on Fer M ^D LAGOON	Type of C	FENCE FENCE FENCE IS LAGO ROCK CREEK) IMPLING POINT Collection System th Election System for the system th Election System th Sys	lative siz	CREEK	POINT TNFLU TNFLU Tibuted by r (infilt	w ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
EPFI Combined	flow diag	Type of C	FENCE	lative siz	CREEK Ow contr und wate drains di	POINT TNFLU TNFLU Tibuted by r (infilt	w ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Furnish a chlorinatio	flow diag on Fer ND LAGOON LWENT REEK < X Sepa	ram with sec (0) (0) (0) rine To (0) rine To SA Type of (arate Bot Plant Lo	FENCE FENCE FENCE FOR CREEK) INPLINE POINT Collection Sys th Est Collection Sys th Est formation (mgd) Pe	lative siz	CREEK Ow contr und wate drains di ate (mgd)	POINT INFLU NFLU NFLU Point ributed by r (infilt rectly into	w sur- ration) MGD Rock Cr.
Furnish a : chlorinatio	flow diag on. Fer M ^D LAGOON LWENT <u>X</u> Sepa	ram with sec	FENCE	lative siz	CREEK Ow contr und wate drains di ate (mgd)	POINT INFLU NFLU NFLU Point ributed by r (infilt rectly into	w sur- ration) MGD Rock Cr.

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