Publication No. 74-e96

WA-51-1010

April 11, 1974

State of Washington Department of Ecology



Memo to: John Arnquist

From: Darrel Anderson

Subject: Nespelem Lagoons.

On March 20, 1974, I attempted to make contact with Mr. Lambert, operator of the sewage lagoons for the City of Nespelem, Washington. Since Mr. Lambert was not in town, I went to the lagoons, scaled the security fence and took the following effluent grab samples: two bacteria samples, one 2 ml composite sample and one nutrient sample.

By conferring with a local citizen, I found that about 150 people use the lagoons and no chlorine is used for disinfection.

There was no visual deterioration of the dikes and no vegetation growing in them. The water level did seem quite low at the second pond.

Fecal coliform from one sample is 250/100 mls.

DA: jmh

STP Survey Report Form

Efficiency Study

City Nespelem	Plant Type <u>Lago</u>	on Pop. Serve	d 150 Desig	n <u>unknown</u>
Receiving Water Nes	spelem Creek	Perennial	_ Intermittent	ırcă
Date 3-20-74 Sur	vey Period <u>1100</u>	hrs. Survey	Personnel D. Ande	rson
Comp. Sampling Free	quency <u>Grab at E</u>	ff. Sampling Alec	quot	
Weather Conditions	(24 <u>hr)Clear-wa</u>	rm Are facilitie	es provided for co	mplete by-
pass of raw sewage?	?Yes _X_	_No/Frequency of	bypass	
Reason for bypass_		Is bypass chl	lorinated?Yes	MO MERITANIS COMPANIES COMP
Was DOE Notified?	Discharg	e - Intermittent	Continuou	s
			flow DEVICE AUDIE	
Total flow Unk	nown	How measured		
Maximum flow		Time of Max		
Minimum flow				
Pre Cl ₂ No Cl ₂ add				
		Results No f		
	Influ		Effluen	
Determinations	Max. Min.	Mean Median	Max. Min. M	ean Median
Temp °C pH (Units)				
Conductivity				
(µmhos/cm²) Settleable				
Solids (mls/1)				
	Laboratory Resi	ults on Composite	<u>s</u>	
	Influent	Effluent	% Reduction	
Laboratory No.		74-883		
5-Day BOD ppm COD ppm		35 94		
T.S. ppm		324		
T.N.V.S. ppm T.S.S. ppm		195 100		
N.V.S.S. ppm		None Det.		
pH (Units) Conductivity		8.5	Clib a referencement and a second color of the second of	
(µmhos/cm ²)	CONTRACTOR	51 0		
Turbidity(JTU's)	Contractive Contra			

Laboratory Bacteriological Results

Lab No.	Sampling Time	Total	olonies/100 Fecal	Fecal	Cl ₂ Residual
74-883	1130	Coliform 3200	Coliform 250	Strep	No Cl ₂
884	1130	2900	170*		
A CONTRACTOR WITH THE CONTRACTOR OF A CONTRACTOR WAS A CONTRACTOR OF A CONTRAC	. L L		*Estima		
		Additiona	l Laboratory	Results	
NO ₃ -N pp					
NH3-N pp	m -				
0-P04-P	ahl-N ppm ppm -				
T-PO4-P					
Operator's Name Mr. Lambert Phone No.					
Furnish a flow diagram with sequence and relative size and points of					
chlorination	on.	Massell	em creek		
1 St	KWATE ?	SWAMP			+ AFfuert
Type of Collection System					
Combined	∠ Sepai	cate Bo	th		flow contributed by sur- round water (infiltration)
				UNI	K MGD
Plant Loading Information - unk.					
Annual aver	age daily	flow rate	(mgd)	Peak flow	rate(mgd)
Dry			and the Proposition of the Contract of the Con	Dry	
Wet					
COMMENTS:					

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

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WATER QUALITY LABORATORY

DATA SUMMARY

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Source NESPELEM STP Collected By Date Collected 3/20/74 Goal, Pro./Obj Log Number: Station: рΗ Turbidity (JTU) Conductivity (umhos/cm)@28c 5/0 94 COD BOD (5 day) Total Coliform (Col./100ml) 3200 2900 Fecal Coliform (Col./100ml) 250 21.5 NO3-N (Filtered) .03 NO2-N (Filtered) 6.0 NH3-N (Unfiltered) 9.3 T. Kjeldahl-N (Unfiltered) 4-15 O-PO4-P (Filtered) 6.00 Total Phos.-P (Unfiltered) 324 Total Solids 195 Total Non Vol. Solids 100 Total Suspended Solids ND Total Sus. Non Vol. Solids Note: All results are in PPM unless otherwise specified. ND is 'None Detected' Convert those marked with a \star to PPB (PPM \mathbf{X} 10 3) prior to entry into STORET

* ESTIMATED