TO:	Ron Robinson, Mike Price, Ron Devitt, Ron Pine & Files
FROM:	Darrel Anderson
SUBJECT:	Cherrybrook Mobile Home STP
DATE:	October 10, 1973





On September 5, 1973, I conducted an efficiency study on Cherrybrook Mobile Home STP near Puyallup, Washington.

The small tertiary plant seemed to be operating very well. The sludge tank needs to be pumped. The operator from Sumner STP stated that it was to be pumped on the following day. In general, the area needs to be cleaned up.

The 5-day BOD reduction is 95 percent, COD reduction is 92 percent and total solids was 40 percent. Fecal coliform did not exceed <40/100 mls.

DA:jmh

			STP ST	URVEY REPORT	FORM			
•			(EF	FICIENCY ST	IDV)			
Cherrybrook Cit <u>Mobile Home S</u> (near Puyallu Receiving Water_Wa	p)		pe <u>Ter</u>	tiarv Po	oulation	App. 4	Cap	lgn_Unknown
Date_ Sept. 5, 19	73 Su	rvey Pe	riod 0	930-1300 H	20.08			L. Anderson
Comp. Sampling Freq Sampling Alequot	uency	1/2 ho			ondition			-
Sampling Alequot	000 111				-			
Total Flow <u>1080 ga</u> Max. (Flow) <u>N/A</u> Pre Cl ₂ None	Time	of Max	300 hr	N/A	Measure	d inte: N/A		t pump.
		In	F fluent	IELD RESULT	S	E	ffluent	
Determinations	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp. °C	20	19	19.5	19.5	18	16 1	17	17
pH San Anna Anna	8.6	8.2	8.4	8.4	7.4	7.2	7.4	7.4
Conductivity (umhos/cm)						210 23		
Settleable		ndeter	mined			Unde	termine	d
Solids	15	13	13.3	1.2.2	1 1			
				13.3	L]	Tra	ce	
Laboratory Number 5-Day BOD	73-32	uent 37 80	FORY RE	SULTS ON CO Effluen 73-3238 4	1000001001000000	IN PPM	Reductio	n
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, Cherrybrook STP

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BACTERIOLOGICAL RESULTS

Before sample taken. le ______After_____ Na25203 added to sample

LAB #	SAMPLING TIME COLONIES/100 MLS (NF)		C1 Residual			
		ppra	(after sec			
73-3238	1120	<40	.2	.4		
				-		

min.

Phone Ø prator's Name Operator's from Summer STP

ments: Expansion slated for mobile home area which also includes

expansion and improvement of STP, sludge tank was to be pumped

on September 6, 1973.

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source <u>Cherrybroor</u> M	taline	Harre	· · · · ·	JOINT	<u></u>		Collect	ed Ru		B F1125
Date Collected 9-5-23			017							
Log Number: >3 -		12 29					0001, 1	10.,00j.		
	INF		ļ			•		T T		STORET
23	· · · · ·	27				+		1 1		00403
Turbidity (JTU)	80					+		+		00070
Conductivity (unhos/cm)@250		550				1	<u> </u>		╌╌┩╸	
COD	390				1	\top				00095
вст (5 day)	80	4			<u>† </u>	1		1		00310
Total Coliform (Col./100m1)		<100						<u>-</u>		31504
Facal Coliform (Col./100ml)		440			1			·· -		31616
NO3-N (Viltered)										00620
NO2-N (Filtered)					 		-	1 1		00615
NH3-N (Onfiltered)				1				- 1		00513
T. Kjeldahl-N (Unfiltered)						<u>-</u> ···				00625
C-PO4-P (Filtered)						1				00671
Total PhosP (Unfiltered)										00665
	604	360		· <u> </u>	1					00500
Total Non Vol. Solida	307	•				1				
Total Suspended Solids	of 5				1			1		00530
Total Sus. Non Vol, Selids	26	б								
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J						1	1	·		
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94. METHOD OR METHODS (NO CHARGE B CHARGED BAS COMMENT ON NOW CHA	USED TO ASSESS I V CITY PR SED ON BOD PGE IS COLLECT DEDINANCE IN EP INSTRUCTION IN ICE OR INSTRUCT 0	NDUSI BIAL WASTE THE OPERTY TAX wa ED (lixed charge, sliding FECT AND ENFORCED THE OPERATION OF TH	ATMENT CO TER USE AS ARGE DASE ACHIR, «IC.) E FLANTY IF YES, WH	ST (check aj SESSMENT D ON SS	CHAI OTHE	IQE BASED	is (dexeribe)	
94. METHOD OF METHODS (NO CHARGE B CHARGED BAS COMMENT ON NOW CHA 10. IS INCUSTRIAL WASTED 10. NHO PHOVIDED INITIAL 11. IS A MANUAL OF PEACT 1455 NO 12. ESTIMATE OF MAN-HOU	USED TO ASSESS I IV CITY PR SED ON BOD PGE IS COLLECT DRDINANCE IN EP INSTRUCTION IN TICE OR INSTRUCT O HS PER WEEK DE	NDUSI BIAL WASTE THE OPERTY TAX wa ED (lixed charge, sliding FECT AND ENFORCED THE OPERATION OF TH TONS AVAILABLET VOTED TO LADDHATOR	ATMENT CO TER USE AS ARGE DASE acein, etc.) VES E FLANT? IF YES, WH Y RGRK AND	ST (Check aj SESSMENT D ON SS D ON SS O NROTE AI	D PROVIDE	ID IT	is (dexeribe)	
94. METHOD OF METHODS (NO CHARGE B CHARGED BAS COMMENT ON NOW CHA 10. IS INCUSTRIAL WASTED 10. NHO PHOVIDED INITIAL 11. IS A MANUAL OF PHACT 1455 NO 12. ESTIMATE OF MAN-HOU	USED TO ASSESS I IV CITY PR SED ON BOD PGE IS COLLECT DRDINANCE IN EP INSTRUCTION IN TICE OR INSTRUCT O HS PER WEEK DE	NDUSI DIAL WASTE THE OPERTY TAX WA ED (lixed charge, sliding FECT AND ENFORCED THE OPERATION OF TH TOPERATION OF TH TOTED TO LADDHATOR CAPREN Average Stall In PER	ATMENT CO TER USE AS ARGE DASE Reals, etc.) USE PLANT? IF YES, WH Y BORK AND Y BORK AND Y BORK AND Y BORK AND	ST (check m SESSMENT D ON SS	NO PROVIDI NO PROVIDI NOE OF RE	CORD S AN	S (describe) S HEPORTS RAMOE RAMOE	
SA. METHOD OR METHODS (NO CHARGE B COMMENT ON NOW CHA SB. IS INCUSTRIAL WASTED NO PROVIDED INITIAL IN. IS A MANUAL OF PRACT IN TS A MANUAL OF PRACT	USED TO ASSESS I V CITY PR SED ON BOD HOE IS COLLECT DADINANCE IN EP INSTRUCTION IN ICE OR INSTRUCT O HS PER WEEK DE LANT PERSONNEL	NDUSI BIAL WASTE THE OPERTY TAX was be che che che che che che che che che ch	ATMENT CO TER USE AS ARGE DASE Reals, etc.) USE PLANT? IF YES, WH Y BORK AND Y BORK AND Y BORK AND Y BORK AND	ST (Check aj SESSMENT D ON SS NO O REDTE AL O MAINTENA O MAINTENA	NO PROVIDI NO PROVIDI NOE OF RE	10 E BASED	S (describe) S HEPORTS RAMOE RAMOE	
PA. METHOD OF METHODS (NO CHARGE B CHARGED BAS COMMENT ON NOW CHA B. IS INCUSTRIAL WASTE C NO. WHO PHOVIDED INITIAL II. IS A MANUAL OF PHACT FILVES IZ. ESTIMATE OF MAN_HOU D. FI	USED TO ASSESS I IV CITY PR SED ON BOD INGE IS COLLECT DRDINANCE IN EP INSTRUCTION IN TICE OR INSTRUCT O INS PER WEEK DE LANT PERSONNEL	NDUSI DIAL WASTE THE OPERTY TAX WA ED (lixed charge, sliding FECT AND ENFORCED THE OPERATION OF TH TOPERATION OF TH TOTED TO LADDHATOR CAPREN Average Stall In PER	ATMENT CO TER USE AS ARGE DASE Reals, etc.) USE PLANT? IF YES, WH Y BORK AND Y BORK AND Y BORK AND Y BORK AND	ST (check m SESSMENT D ON SS	ND PROVIDI NCE OF RE Heid In Service Press	CORD S AN	S (describe) S HEPORTS RAMOE RAMOE	
PA. METHOD OR METHODS (NO CHARGE B CHARGED BAS COMMENT ON NOW CHA PB. 15 INCUSTRIAL WASTE O NO. NHO PROVIDED INITIAL N. 15 A MANUAL OF PRACT PARS NO PASS NO D. P JOB CATECORY 1. SUPERINTENDENT 2. OPENHTONS	USED TO ASSESS I V CITY PR SED ON BOD RGE IS COLLECT DRDINANCE IN EP INSTRUCTION IN ICE OR INSTRUCT O RS PER WEEK DE LANT PERSONNEL NUMBER	NDUSI DIAL WASTE THE OPERTY TAX WA ED (lixed charge, sliding FECT AND ENFORCED THE OPERATION OF TH TOPERATION OF TH TOTED TO LADDHATOR CAPREN Average Stall In PER	ATMENT CO TER USE AS ARGE DASE Reals, etc.) USE PLANT? IF YES, WH Y BORK AND Y BORK AND Y BORK AND Y BORK AND	ST (check m SESSMENT D ON SS	ND PROVIDI NCE OF RE Heid In Service Press	CORD S AN	S (describe) S HEPORTS RAMOE RAMOE	

E, LABORATORY CONTROL

1 + 1 Enter jest codes opposite appropriate items. If any of the below tests are used to monitor industrial wastes place an "X" in addition to dre test code. .

2 - 4, 5 or 6 per week			-				51.	UDGE			16-05-00/42
ITEM.	RAW	PRIM EFFLI		MIXED LIQUON	Fib	AL	RAW	NAT	ANT	DIGESTOR	RECEIVIN STREAM
. 800											
SUSPENDED SOLIDS		30									
SETTLEAULE SOLIDS											
SUSPENDED VOLATILE	~										
. DISSOLVED OXYGEN	-						1	_			
5. TOTAL SOLIDS						1	8				
VOLATILE SOLIDS						-					
s, p ³ f					X						
S. TEMPERATURE				1	5						
10. COLIFORM DENSITY				7.							
11. RESIDUAL CHLORINE			1			1					
12. VOLATILE ACIDS		17					S				1
13. M. D. STAEILITY											
14. ALKALINITY	1										
15.	1		_								
16.											
17.											
10.										1	
19.											_
		F. OPE	RATIO	AND MAD	TENANCE	COST	FOR PLANT				
YEAR OF OPERATION	SALARIES!	WAGES	ELEC	TRICITY	CHEMIC	ALS	MAINTEN	ANCE	OTHER	A ITEM5	TOTAL
MOST CURRENT YEAR 19								_			
PRIOR YEAR 19						-					
PRIOR YEAR 19						_					
PRIOR YEAR 19							1		-		
EVALUATION REA	FORMED BY				7171	E				ORGANIZA	TION
DARREL AND	GRSON		En	10120	TEC	4 3	Z		D.	0. E.	
INFORMATION FUR	V5 C3+21/F			ĩ	TLE			0 11	GANIZAT	1011	DATE
							Sul	nner	- 5	TP	9-5-7
			1		1.d.s.						1

والمرواب والمراجع والمراجع والمحمد والمراجع والمحمد والمراجع والمحمد والمراجع والمراجع والمراجع والمراجع والمراجع G. NOTATIONS BY EVALUATOR 1. ADDITIONAL HEMATICS (If remarks refer to a particular frem, identify by manber) Experiences operator not on hand at all times, Employee From Remaine Summer STP does tosts one a day, 2. GENERAL COMMENTS ON HOUSEKEEPING AND MAINTENANCE POOR HOUSE KEEPing & SEcurity is Fair 3. REQUIREMENTS OF HIGHER AUTHORITY 34. DOES THE PLANT PHOVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE? (If no, explain) VES NO 30. ARE THERE ANY PENDING ACTIONS renforcement conferences, change in water quality standards, etc.) THAT WOULD REQUIRE UPGRADING OF TREATMENT BY THIS PLANT! VES NO (Il yes, explain) 3C. NUMBER OF STATE INSPECTIONS OF PRESENT PLANT TO DATE. . 4. IS ANY FOLLOW-THRU ACTION REQUIRED TO III CORRECT DEFICIENCIES IN THE PLANT OR ITS OPERATION OR (2) RESOLVE INDUSTRIAL WASTE PROBLEMST (II yes, describe required corrective action) YES NO