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M E M O R A N D U M

May 4, 1976

To: Ron Robinson

From: Douglas Houck

Subject: Cherrywood Mobile Manor STP
Class II Inspection

On December 10, 1975 we arrived at the Cherrywood Mobile Manor and met with Mr. Sharp, the owner, and Bill Irey, the plant operator.

Composite samplers were set up at the influent before the primary clarifier and at the discharge pipe to the stream. From both samplers a 250 ml alequot was taken every 30 minutes.

As the facilities have no flow measuring device no flow calibration check could be made.

On the 11th I returned to pick up the composite samplers and took a grab sample for fecal coliform. As can be seen from the following table Bill Irey was operating the treatment plant in a very efficient manner. They easily met all permit limitations.

	DOE		NPDES
	Influent	Effluent	Monthly Average
BOD_5 (mg/l)	96	<4	15
T.S.S. (mg/l)	128	2	15
Fecal Coliform (colonies/100 ml)		Est. 8.3	200

DH:ee

STP Survey Report Form

Efficiency Study

City Cherrywood Mobile Manor Plant Type Secondary Pop. Served _____ Design Capacity _____

Receiving Water Wapato Creek Perennial X Intermittent _____

Date ? Survey Period 24 hrs. Survey Personnel Houck, Robinson

Comp. Sampling Frequency 30 min. Sampling Alequot 250 ml

Weather Conditions (24 hr) overcast 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

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

Laboratory Results on Composites

	Influent	Effluent	% Reduction
Laboratory No.	75-5625	-5626	
5-Day BOD ppm	96	< 4	> 96%
COD ppm			
T.S. ppm			
T.N.V.S. ppm			
T.S.S. ppm	128	2	98%
N.V.S.S. ppm			
pH (Units)			
Conductivity (µmhos/cm^2)			
Turbidity (JTU's)			

Laboratory Bacteriological Results

Lab No.	Sampling Time	Colonies/100 ml (MF) Total Coliform	Fecal Coliform	Fecal Strep	Cl_2 Residual
75-5627			Est. 8.3		

Additional Laboratory Results

NO_3-N ppm	-	8.9
NO_2-N ppm	-	ND
NH_3-N ppm	-	1.1
T. Kjeldahl-N ppm	-	
O-PO_4-P ppm	-	0.55
T-PO_4-P ppm	-	0.75

Operator's Name Bill Irey Phone No. _____

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

Type of Collection System

__ Combined X 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: It's a small package treatment plant for a large mobile home court.

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

ORIGINAL TO: ..D.H.....
COPIES TO:
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LAB.FILES.....

OLYMPIA LABORATORY

DATA SUMMARY

Source Cherry Creek Mine Mine SP Collected By D. Hoock

Date Collected 12-16/11-75

Log Number: 75-5625 26 27

Station:	INF	EFF	EFF							
pH										
Turbidity (NTU)										
Sp. Conductivity (umhos/cm)										
COD										
BOD (5 day)	96.	4.								
Total Coliform (Col./100ml)										
Fecal Coliform (Col./100ml)			EST 8.3							
NO3-N (Filtered)		8.9								
NO2-N (Filtered)		ND								
NH3-N (Unfiltered)		1.1								
T. Kjeldahl-N (Unfiltered)										
O-PO4-P (Filtered)		0.55								
Total Phos.-P (Unfiltered)		0.75								
Total Solids										
Total Non. Vol. Solids										
Total Suspended Solids	128	2								
Total Sus. Non Vol. Solids										

Note: All results are in PPM (mg/L) unless otherwise specified. ND is "None Detected"
"<" is "Less Than" and ">" is "Greater Than"