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WA-32-1010

Memo To: Bill Burwell, Inspector

From: Allen Moore

Subject: STP Survey Study at Walla Walla County Farm Labor Camp

Date: December 23, 1974

On October 9, 1974, I took a grab sample at the Farm Labor Camp S.T.P.

The lab data shows very little coliforms in the effluent due to the high chlorination rate. The rest of the data except for the BOD is quite confusing, probably due to the extremely run down condition of the plant.

Mr. Marlow, the camp manager and person in charge of the S.T.P. told me that lack of money was the reason for the run down condition.

The data should reflect conditions much like that in the busy growing season. At the time of the survey approximately 75 people were living there and the camp can hold no more than 85 at peak capacity.

AM:eme
Attachment

STP Survey Report Form

Efficiency Study

Walla Walla County
City Farm labor camp Plant Type Secondary Pop. Served 65 Design Capacity

Receiving Water Walla Walla River Perennial X Intermittent

Date 9 Oct. 1974 Survey Period Grab at 1200 Survey Personnel Allen Moore

Comp. Sampling Frequency Sampling Alequot

Weather Conditions (24 hr) Cloudy, calm, and warm Are facilities provided for complete by-pass of raw sewage? Yes X No/Frequency of bypass

Reason for bypass Is bypass chlorinated? Yes No

Was DOE Notified? Discharge - Intermittent Continuous X

Plant Operation

Total flow How measured Parshall Flume - measuring stick

Maximum flow Time of Max.

Minimum flow* .01938 MGD Time of Min.

Pre Cl_2 #/day Post Cl_2 #/day

* Approximates average flow.

Field Results

Determinations	Influent Max.	Influent Min.	Influent Mean	Influent Median	Effluent Max.	Effluent Min.	Effluent Mean	Effluent Median
Temp °C					65°F			
pH (Units)					6.6			
Conductivity (µmhos/cm²)					250			
Settleable Solids (mls/l)					<.1		<.1	<.1

Laboratory Results on Composites

	Influent	Effluent	% Reduction
Laboratory No.	74-4025	74-4026	
5-Day BOD ppm	50	20	60%
COD ppm	114	162	-42%
T.S. ppm	312	330	- 6%
T.N.V.S. ppm	171	197	-15%
T.S.S. ppm	53	58	- 9%
N.V.S.S. ppm	ND	ND	---
pH (Units)	7.2	7.0	
Conductivity (µmhos/cm²)	350	440	
Turbidity (JTU's)	--	--	

Laboratory Bacteriological Results

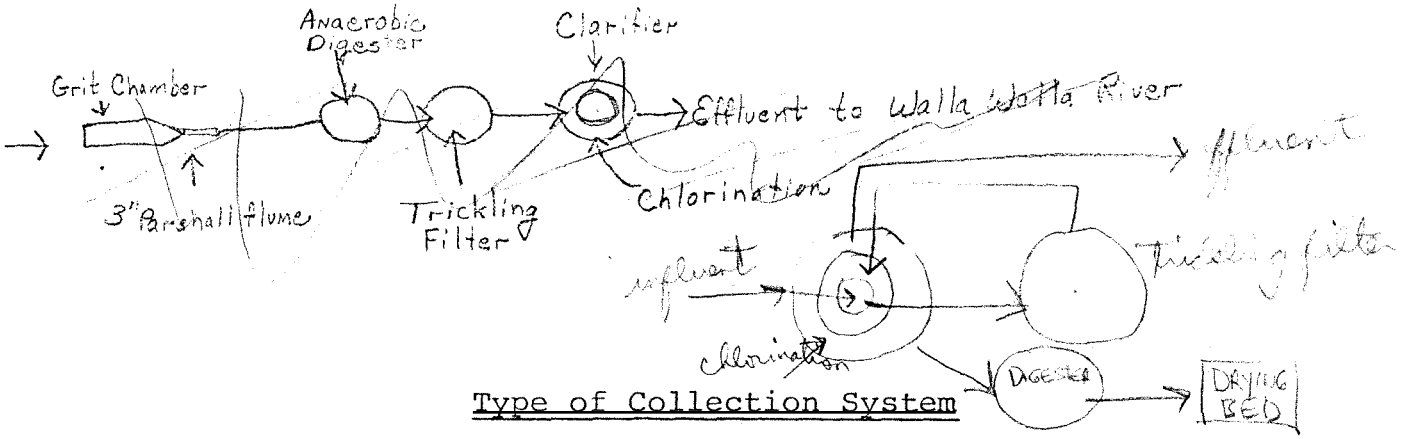
Lab No.	Sampling Time	Colonies/100 ml (MF) Total Coliform	Fecal Coliform	Fecal Strep	Cl_2 Residual
	1200	<20	<10		1.2

Additional Laboratory Results

NO_3-N ppm -	0.10
NO_2-N ppm -	ND
NH_3-N ppm -	13.0
T. Kjeldahl-N ppm -	17.2
O-PO_4-P ppm -	3.9
T-PO_4-P ppm -	4.5

Operator's Name Mr. Marlow Phone No. 525-6853

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)

None MGD

Plant Loading Information

Annual average daily flow rate(mgd)

Dry No data available

Wet

Peak flow rate(mgd)

Dry

Wet

COMMENTS: