# Publication No. 72-e35

WA-37-1020

DATE: October 26, 1972

TC: John Hodgson

FROM: Scott Jeane

# SUBJECT. Efficiency Study of Waste Treatment Facilities at Stokely Van Camp, Zillah, Washington.

OBJECTIVE: To determine the efficiency of the company's primary pretreatment system and if the non-overflow lagoon system has an effect on the water quality of adjacent water courses.

> The efficiency survey took place on September 13, 1972. Composite samples represent 6 hours of sampling at 1/2 hour intervals. The grab samples were taken in the early afternoon (see Figure 1). In addition to the plant samples, the adjacent slough was sampled above and below the non-overflow lagoons. See also the Yakima River Survey completed the preceding day. (proceder Memory)

## Parameter Analysis

The upstream and downstream slough grab samples were analyzed for COD, BOD, total suspended solids, and total suspended nonvolatile solids (see Table 1). The analysis showed no effect of the ragoons upon the slough. The clarifier influent and effluent were sampled by grab and composite methods. Both methods of sampling agree and show no major differences. Total coliform increased from 16,000 to 780,000 colonies/100 ml while in the clarifier. The COD demonstrated 81% reduction while BOD was 57%. The solids profile revealed 93% reduction in total suspended solids while settleable solids decreased 97.6%.

The clarifier influent sampling location was compared to a sample point taken immediately below the screens. These two grab samples show no differences except for the COD. The unusually low COD on the below screen sample may have been caused by partial blockage of the sample pipe preventing larger particles from being sampled.

# General Observations

While the sampling was in progress a tour of the lagoons was taken. The two lagoons marked empty on Figure 2 had a fair amount of effluent being discharged to them. Becuase of the high rate of percention either or both evaporation and infiltration both lagoons were for the most part empty. At one place some seepage was noted (see Figure 2 and slide 1). The three stagnant sloughs located next to the back lagoons were black in color and unusually high in organic material. The septic condition of these sloughs is related to infiltration of process waste into them. Memo to Mr. Hodgson October 26, 1972 Page 2

Slides of the lagoons and treatment facilities are included.

## Conclusions

The pretreatment plant is operating at an efficiency level greater than reported by designing firm. As long as the effluent is confined to the non-overflow lagoons, the Yakima River water quality will not be effected. An odor problem should not develop as long as the pretreatment plant is operating correctly. If the company wished to discharge to the river they would have to increase the BOD reduction from the observed 57% to the required 85%, while the total suspended solids would have to be reduced only 2% more. The high total coliform (780,000 colonies/ml) would make chlorination necessity.

The observed lagoon design did not match the design put forth in Item F by Stokely Van Camp. The seepage (see Figure 2 and Photograph 1) I observed was small but had turned the several small stagnant sloughs into blackish cdiferous sink holes. The stagnant sloughs should probably be filled and the weeping dike strengthened by the addition of more fill.

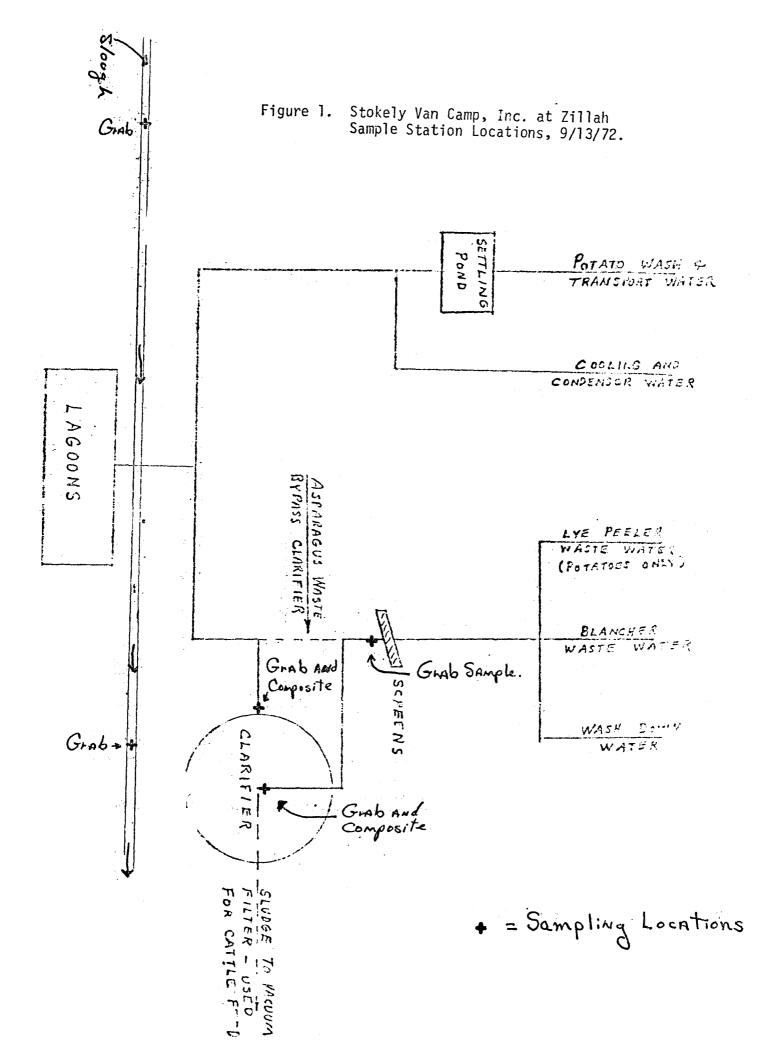
Personnel from the company were supposed to split samples with us but the person responsible for testing the samples was gone and no one else requested samples.

GSJ:bj

Attachments

Table 1.	Stokely Van	Camp at	Zillah,	Sample	date 9/13/72.	
	· · · · ·					

Station	рН	COD	BOD	T. Coliform (Col./100m1)	Total Solids	TSS	TSNVS	Chlorides
<b>Clarif</b> ier Effluent <b>(</b> Composite)	9.3	3500	1960	80000	3.0	555	117	160
<b>Clarif</b> ier Effluent <b>(</b> Grab)		3350	2040			635	127	
Influent (Composite)	10.8	18300	4570	16000	125	7660	410	
Influent (Grab)		14900	2600			2915	385	
<pre>Influent below    screen (Grab)</pre>		5500	<b>27</b> 30			<b>37</b> 95	315	
<b>Slough -</b> above <b>Tagoons</b> (Grab)		11	2			26	21	
<b>Slou</b> gh - below Tagoons (Grab)		15	2			20	15	



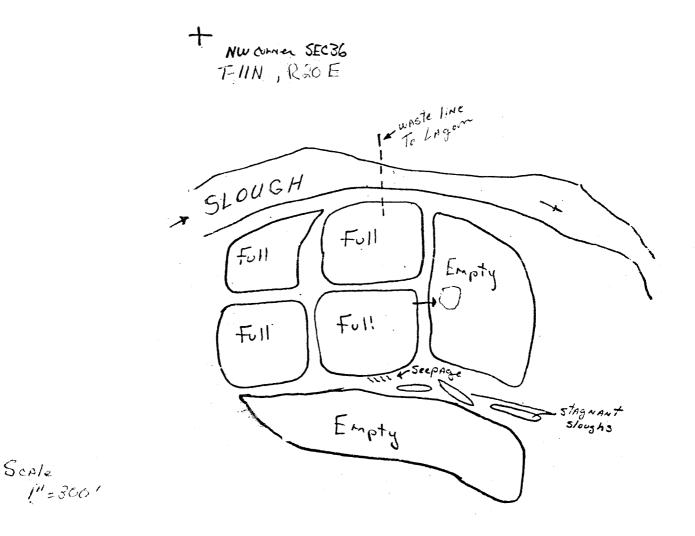


Figure 2. Lagoon condition at Stokely Van Camp, Zillah, on September 13, 1972.

ITEM - F STOKELY . VAL CAMP, INC., LOCATION OF WASTE WATER DISCHARE FOR ZILLAH, WASH. N.E. CORNER GOV LOT ! C SEC. 36, T-IIN, R-ZOEWM . A second second NW CORNER SEC 36 1327.74' 1327.73' T-IIN, R-20EWM N & COR SEC36 T-IIN R-ZOEWM WASTE WATER N TOP OF BLUFF SLOUGH 1 \* Т HOLDING LASCONS 1" = 300 SCALE 0.80 YAKIMA RIVER

Stokely Hile Killah

# DEPARTMENT OF ECOLOGY

WATER COALITY LABORATORY

## DATA SUMMARY

Date Collected 9/13/72

Collected By G.S. JEANE

Goal, Pro./Obj. 3.2-23

Log Number: 72	3452	-3453	-3454	-3455	-3456	-3457	-3458	-3459	-3460	i	STORET_
Station:	Ирътг <u>Slough</u>	DNSTR. SLOUGH	GRAB BELOW SCREEN	GRAB INF	GRAB CLAR-	COMP. CLAR-	COMP. INF	COMP CLAR	COMP		
рН	_		· · · · · · · · · · · · · · · · · · ·	ļ		9.3					00403
Turbidity (JTU)	-						<b> </b>				00070
Conductivity (umhos/cm)	-		 	<b> </b>	 						00095
COD		15	5500	14900	3350	3500	18300				00340
BOD (5 day)	12	<u> 12</u>	2730	2600	2040	1960	4570				00310
Total Coliform (Col./100ml)	>							780000	16000		31504
Fecal Coliform (Col./100ml)	>										31616
NO3-N (Filtered)						ļ	·				00620
N∩2-N (Filtered)	<b>.</b>					ļ					00615
NH3-N (Unfiltered)						l	·			•	00610
T. Kjeldahl-N (Unfiltered)	+										00625
0-PO4-P (Filtered)								·, ·	·		00671
Total PhosP (Unfiltered)											00665
Total Solids						3.0	125			-	00500
Total Non Vol. Solids											
Total Suspended Solids	26	20	3795	2915	635	555	7660				00530
Total Sus. Non Vol. Solids	21	15	315	385	127	<u>117</u>	410				
CHLORIDES -						160					00940
<u> </u>											
	. 										
Note: All results are in a					164						
Note: All results are in a						ND 1	s Nou	e perec	cced"	_	

Convert those marked with a \* to PPB (PPM  $\mathbf{X} \cdot 10^{-3}$ ) prior to entry into STORET

72-3452, 3453 - INSUFFICIENT SAMPLE LEFT FOR CHLORIDES.

Summary By Mary & Walcom In Date 91

72

TO: ANE

## **MEMORANDUM**

**Department** of Ecology Yakima District Office 504 N. Naches Avenue - Suite 10 Yakima, WA 98901 Phone No. - CH 8-0981 Soan Phone No. - 372-1213

Information For Action Permit Other

DATE: June 26, 1972

icn.

TO: Bon Pine, Dan Neal and Stokely Van-Camp - Zillah Viles

FROM: John W. Hodgson

SUBJECT: Treatment System Efficiency Survey and Mater Quality Survey - Yakima River

Objective: To determine the efficiency of the company's primery pre-treatment system and the effect, if any, of the non-overflow lagoon system on the quality of adjacent surface water courses.

Description: Stokely Van-Camp discharges asparague and potate processing waters through a primary treatment system to a non-overflow lagoon system which is located within the flood plain of the Yakina River. The primary treatment system consists of a circular clarifter, sludge drew off system and vacuum filter. This system was designed by Gary & Osborne in 1967 and was to provide 90% reduction in suspended solids and 30% reduction in C.O.D. . The non-overflow lagoon system consists of 6 cells and has a total surface ares of approximately 14 acres. (See attached skatches of lagoon system and waste flow sebenatic.)

#### Expected Results:

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1. Efficiency of primary treatment facility by testing for:

- (a) Flow including cooling water.
- (b) Pil. primary influent, primary effluent
- (c) Temperature including cooling water if dischared separate during survey
- -(d) Settleable solids primery influent and effluent
- -(c) Suspended solids primary in influent and effluent
- \_(f) C.O.D. primery influent and effluent
- 12(g) B.O.D. primery influent and effluent
- 2. Determine reliability of company's testing program by splitting samples b,d,e,f, and g with Mr. Dalton of Stokely Van-Camp. & 2 Grabs Sampus
- 3. Determine the effects, if any, of seepage from the non-overflow lagoon by sampling the adjacent surface water source above, along side of and below the lagoon for:
  - (a) B.O.D. (b) C.O.D.

  - (c) Nitrates

  - (d) Phosphates (e) Diselved Oxygen
  - (f) 7H.

2

- (g) Conductivity
- (h) Visual observations of water quality and bottom organisms.
- (i) Hydrogen sulfide each lagoon cell.

## Recommended Sampling Stations:

DALLAS ANDERSON

1. Establishing sampling stations should be co-ordinatied with Mr. Tom Dalton (telephone #829-5121 Zillah) of Stokely Van-Camp. The tests specified in number 2 above are the same as those required of the industry and are performed on a routine basis.

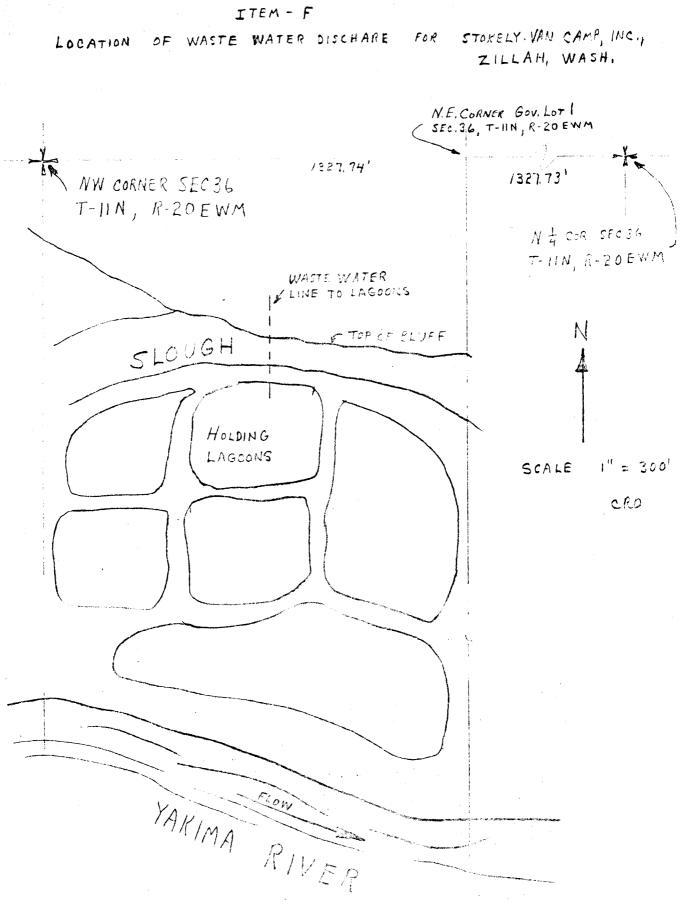
2. With regard to sampling the slough, a minimum of three (3) sampling stations should be used. One upstream or above the lagoons, one along side of and adjacent to the lagoons in the area of the influent line and one downstream or below the lagoons.

### Time Schedule:

As the company processes potatoes from July 13 to November 28, the survey should be conducted during that period. I would assume the best time would be between August 1 and September 30, 1972, during the period of low stream flow and high waste water discharge volumes.

JWH:d1 6-26-72

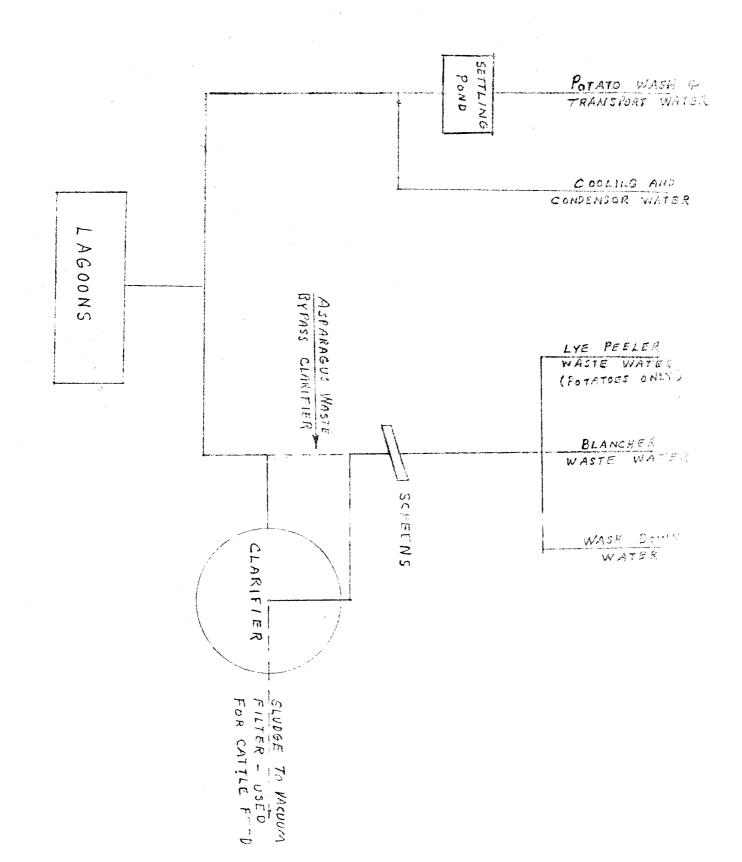
cc: D of E - Olympia - Ron Pine Spokane - Dan Neal Yakima



STOKELY VAN CAMP, INC. ZILLAH, WA.

EXHIBIT 1

SCHEMATIC OF WASTE FLOW



HECK INFORMATON FOR ACT (N PERMIT OTHER

John Arnquist, John Hodgson, Ron Devitt Ron Pine and Files.

FROM Darrel Anderson

SUBJECT Zillah STP



DATE \_\_\_\_October 10, 1973 \_\_\_\_\_

On September 13, 1973, I conducted an efficiency survey at the City of Zillah STP. Security at the plant is very good-general housekeeping is fair.

The new operator, Bob Cory, is a part time operator of the plant. He has had no schooling and does not understand the operation of a STP plant. The laboratory equipment at the plant is outdated and looks as if it had never been used.

The plant discharges into a slough from the Yakima River and the slough is quite turbid, but no odor or floating material is present.

The 5-day BOD reduction is 69%, COD is 60%. Total solids is 30% and T.S.V.S. is 16%. Fecal Coliform was no greater than 16,000/100ml.

DA:jmh

# STP SURVEY REPORT FORM

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Activated         City_Zillah       Plant Type_Sludge       Population_1300         Served       Served         Receiving Water_Yakima_River_via_Pond       EngineerDee         DateSept. 13, 1973_Survey       Period_0830       Survey Person         Comp. Sampling Frequency_1/2 hr.       Weather Conditions Clear (last 48 hours)         Sampling Alequot_600 ml.       PLANT OPERATION         Total Flow	Capacity Tufts nel D.L. Anderson hot.
Receiving Water Yakima River via Pond       Engineer       Dee         Date Sept. 13, 1973 Survey Period 0830       Survey Person         Comp. Sampling Frequency 1/2 hr.       Weather Conditions Clear (last 48 hours)         Sampling Alequot 600 ml.       PLANT OPERATION         Total Flow          Max. (Flow) 153,000       Time of Max. 0900       Min. 106,000         Pre Cl_2       10       #/day         FIELD RESULTS	Capacity Tufts
Date       Sept. 13, 1973 Survey Period 0830       Survey Person         Comp. Sampling Frequency       1/2 hr.       Weather Conditions Clear (last 48 hours)         Sampling Alequot_600 ml.       PLANT OPERATION         Total Flow         How Measured 3" pars         Max. (Flow)       153,000         Time of Max.       0900         Min.       106,000         Pre Cl2       10         FIELD RESULTS	nel D.L. Anderson
Comp. Sampling Frequency 1/2 hr.       Weather Conditions Clear (last 48 hours)         Sampling Alequot 600 ml.       PLANT OPERATION         Total Flow	<del>k hot.</del>
Comp. Sampling Frequency 1/2 hr. Weather Conditions Clear (last 48 hours) Sampling Alequot 600 ml. PLANT OPERATION Total Flow How Measured 3" pars Max. (Flow) 153,000 Time of Max. 0900 Min. 106,000 Pre Cl2 #/day Post Cl2 10#/day FIELD RESULTS	<del>k hot.</del>
(last 48 hours) Sampling <u>Alequot_600 ml.</u> PLANT OPERATION Total FlowHow Measured_3" pars Max. (Flow) <u>153,000 Time</u> of Max. <u>0900 Min. 106,000</u> Pre Cl <sub>2</sub> #/day Post Cl <sub>2</sub> 10#/day FIELD RESULTS	
PLANT OPERATION         Total Flow          Max. (Flow)       153,000       Time of Max.         0900       Min.       106,000         Pre Cl2       10       #/day         Post Cl2       10       #/day         FIELD RESULTS       FIELD RESULTS	
PLANT OPERATION         Total Flow          Max. (Flow)       153,000         Time of Max.       0900         Min.       106,000         Pre Cl2       10         #/day       Post Cl2         FIELD RESULTS	
Total Flow        How Measured 3" pars         Max. (Flow)       153,000       Time of Max.       0900       Min.       106,000         Pre Cl#/day       Post Cl_2       10       #/day         FIELD RESULTS       FIELD RESULTS	
Max. (Flow) <u>153,000 Time of Max. 0900 Min. 106,000</u> Pre Cl <sub>2</sub> #/day Post Cl <sub>2</sub> <u>10</u> #/day FIELD RESULTS	
Max. (Flow) <u>153,000 Time of Max. 0900 Min. 106,000</u> Pre Cl <sub>2</sub> #/day Post Cl <sub>2</sub> <u>10</u> #/day FIELD RESULTS	hall flume
Pre Cl <sub>2</sub> #/day Post Cl <sub>2</sub> 10 #/day FIELD RESULTS	
The Et al and the second	
Eff	luent
Determinations Max. Min. Mean Median Max. Min.	Mean Median
Temp. °C     22.2     21.1     22.0     22.1     22.0     21.0     2       pH     8.5     7.6     7.4     7.7     7.6     7.2	1.5 21.6
pH 8.5 7.6 7.4 7.7 7.6 7.2 Conductivity	7.5 7.4
(umhos/cm) Undetermined Undeter	
Settleable	nined
Solids [10.0 5.0 7.8 9.2 ] Trace	mined
	mined

# LABORATORY RESULTS ON COMPOSITE IN PPM

	Influent	Effluent	% Reduction
Laboratory Number			
	73-3358	, 59	
5-Day BOD	219	69	69
COD	404	164	60
T.S. [	891	629	30
T.N.V.S. [	491	413	16
T.S.S.	230	73 .	69
N.V.S.S.	45	11	76
рН	8.0	7.9	
Conductivity	1150	1100	8 M
Turbidity	72	33	

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Zïllah STP

BACTERIOLOGICAL RESULTS

Na25203 added to sample Before sample . .

LAB #	SAMPLING TIME	COLONIES/100 MLS (MF)	C1 R	esidual
			ppm	
73-60	1000	▶16,000	1.0	1.5
61	1300	>14,000	. 8	2.0
62	1530	▶16,000	. 8	1.0

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erator's	Name_	Bob Cory			Phone I	829-5151
mments:						
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# STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

# DATA SUMMARY

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LAB 1	FII	ES		• •	•		

STORET

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00070

00095

00340

00310

31504

31616

00620

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00610

00625

00671

00665

00500

00530

D.A.

Source ZILLAL STP		-				Co	llecte	ed By	D.A.	
Date Collected 9-13-7	3	-				Go	oal, Pr	o./Obj	•	
Log Number: 23-7	3358	59	60	6(	62	1	1	· r	· [	1
Station:	INF	EFF	1000	1300	(530				ļ	
рН	8.0	7.9			 					
Turbidity (JTU)	72.	33.						L	L	
Conductivity (umhos/cm)@25C	<u>1150</u>	1100						ļ		
COD	404	164						l		
BOD (5 day)	219	69						ļ		
Total Coliform (Col./100ml)		~	80,000	>89000	780,000				 	
Fecal Coliform (Col./100m1)	s	-	716,000	14,000	>16,000					
NO3-N (Filtered)							 			
NO2-N (Filtered)										
NH3-N (Unfiltered)						. <u></u>				
T. Kjeldahl-N (Unfiltered)										
O-PO4-P (Filtered)										
Total PhosP (Unfiltered)							L			
Total Solids	891	629								
Total Non Vol. Solids	491	413								
Total Suspended Solids	230	73								
Total Sus. Non Vol. Solids	45			-						
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Note: All results are in PPM unless otherwise specified. ND is "None Detected" Convert those marked with a \* to PPB (PPM X 10<sup>3</sup>) prior to entry into STORET

Summary By

Stephen & Koll

Date 10-3-73

				Exhibit		
FOURPAL WATER FOI SEWAGE TREATMENT PL	ETMENT OF THE INTERN CUTION CONTROL ADM ANT OPERATION AT ES GUESTIONNAIRE	ND MAINTENANCE		PORM APPROVICO BUDGET BUREAU NO. 42-8152		
CHECK ONE	OATE OF AUDIT	, 		CRIFITION CODE (For Official Use		
/		· . • • • •	PEANT DES	Only)		
IST AUDIT PRE-AUDIT	9-13-					
	A. GEHERAL	INFORMATION				
1. PHOJECT (State, Number)		SCOPE OF PROJECT	(new plant, add	itions, etc.)		
2. PLANT LOCATION (City, county)		IDENTIFICATION OF	AREAS SERVE	D		
Zilidet - YAKima		City of	212211			
haif fuait ("Ayuntaha ar an	3. POP	ULATION	<i></i>			
34. FRACTION OF AREA POPULATION	30. PLANT DESIGN (PO		JC. SERVED	BY PLANT (domestic)		
SCRVEU (7.) 100 9/2	1150		130	10		
		LECTION SYSTEM				
14,		48. ESTIMATES FLO	W CONTRIBUTE	ED BY SUNFACE OR GROUND		
COMBINED SEPARATE	[] вотн	WATER (infiltratio	in, mid) unk			
YEAR CONHUNITY BEGAN SEWAGE TREATMENT	6.	YEAR PRESENT SYST	EM PLACED H	I OPERATION		
	6A. SEWER	6D.	PLANT	6C. ANCILLARY WORKS		
1937 - Removied - 1955	1937	19	137			
TA. SIZE OF FLANT SITE (Acres)		78. APPROXIMATE A	REA LEFT FOR	REXPANSION (acres)		
1 acre		None				
STABILIZATION FONSSARD NUMBER OF	Pon D Jouri Finiti Clari Fier Clari Fier SLUDGE	AB clorime commer SLUDG Removal				
	Incluant throws	grit channel				
B. NOTE ANY SIGNIFICANT OR UNIQUE PRO		······································				

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DA. NAME OF STREAM . JAKing Ri	VER		
DE. STREAM FLOW IS	NATURAL	REGULATED	COASTAL
B. CURRENT PE	REFORMANCE AND PL	ANT LOADING INFORMAT	TION
14. ANNUAL AVERAGE DAILY FLOW RATE (mgd)	19. PE4K F	LOW RATE (mgd)	IC. MINIMUM FLOW BATE (M. (J)
unk, .	DRY WEATHER UMB.	WET REATHER UNA	ump
2. AVEHAGE BOD OF PAHSENAGE S DAY ST	(חקק' (C)	3. AVERAGE SETTLES	ABLE SOLIDS OF HAN SENA SCHOOL THE COMP
A. AVERAGE SUSPENDED SELIDS OF RANSES MUSIC	A 3 E (ni./1)	S. AVERASE COLIFOR	DA DENSITY OF HAN SEAR SE TOPP OF WIT
	5. ANNUAL AVERAG	E PUANT REDUCTION -	
		162. 3U3PENDED SOLIC	DE COLLOPPEZENSE
FWFCA-12 (Rev. 4-63)			

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7A. DOUS PLANT HAVE STANDBY POWER GENERATOR FOR MAJOR FUMPHIG FACILITIES?	78. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES? YES THO
	IF YES, IS CHLORINATION CONTINUOUSI [ 1 YES [ ] NO IF NO, EXPLAIN REASON FOR INTERMITTENT CHLORINATION

A PURPOSE OF CHLORINATION	
Desincetion	
3. TYPE OF CHLORINATOR	
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. POINT OF APPLICATION OF CHLORINE	8D. CAN BYPASSED SEWAGE DE CHLORINATED?
AFTER SECUSION Clarifor E AVERASE FEED RATE OF CHLOHINE (110/day)	[]YES ENO
· · ·	OF. CHLORINE RESIDUAL IN EFFLUENT
MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (16)	1.0 PPM AT END OF 3 MINUTES
234 ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAY	N 644AC 54
	THRU G BELOW, ANSWER H IN EITHER CASE.
FREQUENCY (times monthly) JB. AVERAGE DU	
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WITHIN HYDRAULIC CAPACITY OF PLANTUND	
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unes	
4. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLA	NNT UNITS? (II no; has this caused any operational problems?)
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	ANT UNITS? (If no; has this caused any operational problems?)
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YES NO WAS	INS TO CITY WATER SUPPLY? (II no, explain)
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YES NO WITHIN 10 MILES OF OUTFALL	NS TO CITY WATER SUPPLY? (Il no, explrin) D PHYSICAL DISCONNECT OTHER(specily)
YES       NO         A. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIO         YES         NO         B. CHECK TYPE OF BACK FLOW PREVENTION DEVICE         DOUBLE CHECK VALVE         PRESSURE OPERATED         . USES OF TREATMENT PLANT EFFLUENT         More	NS TO CITY WATER SUPPLY? (Il no, explain) D PHYSICAL DISCONNECT OTHER(specily)
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YES NO WITHIN TO MILES OF OUTFALL DA. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIO YES NO B. CHECK TYPE OF BACK FLOW PREVENTION DEVICE DOUBLE CHECK VALVE PRESSURE OPERATED . USES OF TREATMENT PLANT EFFLUENT MORE . USES OF RECEIVING STREAM WITHIN TO MILES OF OUTFALL Fiching . HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE P	D PHYSICAL DISCONNECT OTHER(specily)
DA. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIO YES NO B. CHECK TYPE OF BACK FLOW PREVENTION DEVICE DOUBLE CHECK VALVE PRESSURE OPERATED . USES OF TREATMENT PLANT EFFLUENT MORE . USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL Fiching . HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE P	NS TO CITY WATER SUPPLY? (II no, explain) D PHYSICAL DISCONNECT OTHER(specily) PLANT PROPERTY? (II yes, explain)

5. STAULIZATION FONDS N. MILLOS CUT AND VEGLIATIVE GROWTH IN PONDS LUMINATED?	0. BANKS AND DIKES MAINTAINED (COUSION CIC.)?
	YES NO
LET 113 LET 10 . FUNCING AND "MAADING - POLLUTED WATER" SIGNS PRESENT	U. FREQUENCY OF INSPECTION BY OPERATOR
AND IN GOOD REPAIRS	
WATER DEPTH (Irel)	
HIGH LOW	- MEDIUM
	G. SEEPAGE REPORTED'
ADEQUATE CONTROL OF DEPTH	YES NO
YES NO	
	and the second sec
	and the second sec
and summary and a second	· ·
and the second	· • • •
and the second se	
	J. CAN SURFACE RUN-OFF ENTER POND?
MOSOUITO, FREEDING IF YES, NAME OF SPECIES IF	
YES I NO	
C. SUPERVISORY S	
. IS A CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CON	SULTATION ON OPERATING AND MAINTENANCE PROBLEMS,
YES NO IF YES IS IT ON: CONTINUING BA	SIS OR UPON REQUEST BASIS
	$\mathcal{P}_{r}$ :
IF CONTINUING DASIS, WHAT IS THE FREQUENCY OF VISITS:	
DO OPERATORS AND OTHER PERSONNEL ROUTINELY ATTEND SH	ORT COURSES, SCHOOLS OF OTHER TRAINING ACTIVITIES
YES NO	TTENDED
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A	THIS AREA?
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A Col tropped and Colored IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STIL	THIS AREA?
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IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A Cert of the processing units operating at design efficiency; A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STIL B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY; . HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREAT	THIS AREA? LL IN OPERATION? PYES NO (II no, explain) PYES NO (II no, explain)
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IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A Cert of the processing of the present plant still A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STILL B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREAT . STRUCTURAL YES MO (II yes explain)	THIS AREA? LL IN OPERATION? PYES NO (II no, explain) PYES NO (II no, explain)
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A COTTON IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STIL B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY? . HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREAT A. STRUCTURAL YES NO (II yes, explain) . MECHANICAL YES NO (II yes, explain)	THIS AREA?
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A COTTON IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STIL B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY? . HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREAT A. STRUCTURAL YES NO (II yes, explain) . MECHANICAL YES NO (II yes, explain)	THIS AREA?
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IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A COLLECTION COURSES AVAILABLE TO SERVE IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STIL B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY? A. HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREAT A. STRUCTURAL YES NO (II yes, explain) HECHANICAL YES NO (II yes, explain)	THIS AREA?
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•	ned, check ge	onus MAII netal items	included)	YES [	NО	REPORTED	•	YES	j_NO		
» م الم			SLUDGE	CHEMICALS		GRIT -	ELEC.	COST	AIR	MAIN-	OTHER
FREQUENCY		FLOW	HANULED	USED	DIGESTER	HANDLED	USED	DATA	USED	TENANCE	
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IF MAINTA	NINED CHECH		RECORD	ELOW:	WEEKLY NCT SEPA	MONTH		CONT		ts 🗌 gra	PHS
WHAT PLA						ERSARE CA				e	
7. IS LABOR	ATORY TEST	ING ADEQ	UATE FOR	THE CONTRO	OL REQUIR	ED FOR THE	SIZE AN	TYPE OF	PLANT	•	
r											
	YES	NO (II no,	explain)			•					
			•								
8. INDUSTRI		USCHARCO	D TO MUNI	CIPAL CVCT	F.M.	A. NUMBER	AND TYPI	S OF INDUS	TRIES DISC	CHARGING TO	SYSTEM
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B. POPULAT	ION EQUIVA	LENT(DUL	OF INDU	THIAL WAS	ES (pc)	C. POPULA	IION EQUI	VALENI (55	) OF INDUS	STRIAL WASTI	.s (pe)
D. VOLUME (	OF INDUSTRI	AVAILSTE	S(med)			E. COMPOSI	TION AND	CHARACTE	RISTICS OF	INDUSTRIAL	WASTES
		10-	5. mg/200								
F. MAIN DIFE	FICULTY EX	PERIENCE	D WITH IND	USTRIAL WA	STE (expla	in)					
					•						
•		ELLENT D				TYES [		yes, how?)			÷
C HAVE NO	USIRIAL EF	FLUENTP	ROBLEMS	SEEN SULVE	.07			yes, now?j			
G. HAVE IND											
G. HAVE IND		•									
G. HAVE IND 94. METHOD		S-USED TO	ASSESS IN	DUSTRIAL W	ASTE TREA	ATMENT COS	T (check a	propriate bo	x)		
9A. METHOD	OR METHOD				ASTE TRE				-		
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B. IS INCUST COMMENT 0. WHO PROV 1. IS A MANU	OR METHOD NO CHARGE CHARGED B T ON HOW CH FRIAL WASTE VIDED INITIA	BY CITY ASED ON E IARGE IS C CORDINAN L INSTRUC TICE OR I NO 70 IURS PER 1	PROD BOD COLLECTED CE IN EFFI CTION IN TH NSTRUCTION NSTRUCTION MEEK DEVO	PERTY TAX D (fixed charg ECT AND EN TE OPERATI ONS AVAILAGE TED TO LAS Annual Aven	ASTE TREA	TER USE ASS ARGE BASED cale, etc.) YES PLANT? IF YES, WHO WORK AND P MOST Recent JPS TOTAL CERT	ESSMENT ON SS NO WROTE AP	CHAF	RGE BASED	D REPORTS	1 × 5 A B J N S A S H C A T M I N T
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. ADDITIONAL REMAR	G. NOTATIONS BY EVALUATOR
	RKS (II remarks refer to a particular item, identify by number)
GENERAL COMMEN	TS ON HOUSEKEEPING AND MAINTENANCE
	HIGHER AUTHORITY
3A. DOES THE PL	ANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE? (II no, explain)
YES	ΝΟ
3D. ARE THERE A	ANY PENDING ACTIONS (enforcement conferences, change in water quality standards, etc.) THAT WOULD REQUIRE OF TREATMENT BY THIS PLANT?
3B. ARE THERE UPGRADING YES	ANY PENDING ACTIONS (enforcement conferences, change in water quality standards, etc.) THAT WOULD REQUIRE OF TREATMENT BY THIS PLANT? NO (II yes, explain)
UPGRADING	OF TREATMENT BY THIS PLANT?
UPGRADING	OF TREATMENT BY THIS PLANT?
UPGRADING	OF TREATMENT BY THIS PLANT?
UPGRADING	OF TREATMENT BY THIS PLANT?
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