ГО:	Stew Messman and Larry Lewis	State of
FROM:	Jim Armstrong	Washington Department of
SUBJECT:	McRae Meat Packing Effluent Evaluation	Ecology
DATE:	<u>September 13, 1973</u>	

On Friday, August 17, 1973, an effluent evaluation was made at McRae Meat Packers. The survey started at 0930 hours and lasted until 1430 hours with samples taken every one half hour.

McRae started killing at approximately 0700 hours and finished at 1230 hours. The effluent to the river did not start flowing until 0930 hours.

At 1400 hours blood appeared in the sea gate outfall.

Late in the afternoon the cattle pens were washed out. The drainage from these pens goes to the river.

The total flow from 0752 hours to 1537 hours was 680 cubic feet, or 4,086.4 gallons. There were eight people working at the slaughter house for a total of 80 gallons of domestic sewage at 10 gallons per day per person.

Usually cattle are slaughtered twice a week at this plant, but due to the beef situation, cattle were only slaughtered one day that week (August 13-17, 1973).

Forty-five cattle were killed. Of these, one was deemed unfit for human consumption by the U.S.D.A. inspector. Approximately 52% of the live weight is dressed beef.

The total live weight for these cattle was 49,310 pounds. Of this, 25,641.2 pounds were dressed weight and 23,668.8 pounds were sent to a pet food company.

Most of the blood is drained into a portable tank and dumped in a field near the slaughter house.

JA:jmh

STATE OF WASHINGTON ORIGINAL TO:

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

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Collected By

Source Mc Rae Packsing

Date Collected Goal, Pro./Obj. 25 3089 STORET 1100 1135 13/0 EFF EFF GASE 7.3 G8563 80. 00070 1110 00095 4.900 00340 00310 Total Coliform (Col./100ml) 42105 72105 (20,000) 8106 31504 Fecal Coliform (Col./100ml) 14000 14000 (10,000) 16000 31616 NO3-N (Filtered) ,43 -59 00620 NO2-N (Filtered) .01 .01 00615 NH3-N (Unfiltered) 126 32 00610 7.3 T. Kjeldahl-N (Unfiltered) 00625 G-PO4-P (Filtered) 00671 Total Phos. - P (Unfiltered) 3.80 112 00665 Total Solids 3545 00500 Total Non Vol. Solids 401 Total Suspended Solids 52X 00530 Total Sus. Non Vol. Solids 40 Cocon 28,000 FECAL STREET (COLLIADORS) 2.1805 15000 (10000) MARCON Terms (Rensus (Hesmal Ex.) 250. 285.

Note: All results are in PPM unless etherwise specified. ND is "Nens Detected" Convert those marked with a * to PPB (PPM X 10) prior to entry into STORET

Summery By Stylen for Mall Date 9-4-13

STP SURVEY REPORT FORM

(EFFICIENCY STUDY) McRae Meat

City Edison	P	lant Ty	pe <u>Packe</u>	ers Pop	ulation		Desi	.gn	
Receiving Water N.									
Date August 17, 19									
Comp. Sampling Freq								-	777
				(last 48 h	ours)				
Sampling Alequot (JOU MIS								
			PLA	NT OPERATI	ON				
Total Flow 680 cu.	ft.					d City	water	meter	
Max. (Flow)									
Pre Cl ₂									
2			rost	2		P/day		33	
E 8			FI	ELD RESULT	S				
		In	fluent			E	ffluent		
Determinations	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median	
Temp. °C					27.9			24.5	
pH Conductivity					8.0	7.4		7.8	-
(umhos/cm) Settleable		-			900	650		850	
Solids					1.5	<.1	.6	. 4	
		TARARA	TADY DEC	ULTS ON CO	VMOCTE:	TV DDV			
		100000000000000000000000000000000000000	TONE ALLS			011100000000000000000000000000000000000			
Laboratory Number	Int	luent		Effluer	it	7,	Reductio	on	-
S. Dan ROD				2,900		1			
5-Day BOD COD	-			4,900	-			-	
T.S.				3,545	-				
T.N.V.S.	100000			401		1			
T.S.S.	-			528	2107				
N.V.S.S.	-			40	2	+			-
Conductivity .	-			1,110	3	-			
Tuebidieu	-			7 /1 10					-

BACTERIOLOGICAL RESULTS

Added

	Dugasiana			
NagSgOg added to sampl	e Previous	After_to	Sampling	<u>#1</u> n

Fecal Strep

LAB #	SAMPLING TIME	COLOUIES/100 MLS (MF)	C1	Residual (after secs)
3022 Main Eff.	1100	2.1 X 10 ⁵	1	
3023 Sea Gate	1135	15,000	1	<u> </u>
3024 Brainage/Pen	s 1310	10,000		· · · · · · · · · · · · · · · · · · ·
3025 Main Eff.	No Time	1 >160,000		
		<u> </u>		
			T	

rator's Name	·	 Phone #	, , , , , , , , , , , , , , , , , , ,
ments:		 	
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