Memo to: Rhys Sterling

From:

Pat Lee

Subject: Survey at Centennial Mills in Spokane.



A waste characterization study was run on Centennial Mills in Spokane on January 30, 1974, from 0830 to 1600 hours. The mill's effluent was composited every half hour from a manhole on the sewer line that connects Centennial Mills to the City of Spokane's waste water treatment system. The total flow as measured by the City's water meter was 2,600,000 gallons in the 8 hour survey period. The field results were as follows:

16 Determinations

Effluent

	Max.	Min.	Mean	Median
Temp. °C	29.4	26.6		28.1
pH*				
Conductivity (µmhos/cm ²)	700	450	****	550
Settleable Solids	45.	40.	43.	45.

*No pH's due to faulty field meter.

The laboratory data was as follows:

Station:	Eff.	NH3-N (unfilt)	8.1			
рН	7.0	7.0 T.Kjeldahl-N (unfilt)				
Turbidity(JTU's)	280.	O-PO ₄ -P (filt)	.06			
Conductivity	380	T-PO ₄ -P (unfilt)	2.0			
(µmhos/cm ²)		T. Solids	2050			
COD	2330	T.N.V.S.	157			
BOD(5 day)	1120	T.S.S.	1773			
T.Coliform(Col/100ml)	>800,000	T.S.N.V.S.	17			
F.Coliform(Col/100ml)	>16,000	Phenols	.006			
NO ₃ -N (Filt)	.32	Total Oils & Greases	ND			
NO2-N (Filt)	ND					

ND=None Detected

Centennial was still working out the bugs on their treatment system so that could explain the large BOD and suspended solids.

PL: jmh

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

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ORIGINAL TO:

COPIES TO:

DATA SUMMARY

Source CENTENNIAL MILLS @ SPOKANE						Collected By J. ArmsTRONG						
Date Collected 1-30-75		Goal, Pro./Obj										
Log Number: 74.	0321	0326	<u> </u>			-		- ₁		STORET		
Station:	EFF	@1510		_	_	_						
рН	7.0	ļ				<u> </u>				00403		
Turbidity (JTU)	280.	ļ	ļ		_	_				00070		
Conductivity (umhos/cm)@250	380.	ļ	ļ	_		ļ				00095		
COD	2330.			· 		_	_	<u> </u>		00340		
BOD (5 day)	1,120.			·		_		<u> </u>		00310		
Total Coliform (Col./100ml)	ļ <u> </u>	281105		<u> </u>	_		_	_	- .	31504		
Fecal Coliform (Col./100ml))1.6x 104		ļ		-	_	-	.	31616		
NO3-N (Filtered)	52.	ļ			_	_		_		00620		
NO2-N (Filtered)	ND				_	_	-	_		00615		
NH3-N (Unfiltered)	8.1				_			ļ	ļļ.	00610		
T. Kjeldahl-N (Unfiltered)	20.1					ļ		_	ļ	00625		
O-PO4-P (Filtered)	.06					·	-		ļ <u> </u>	00671		
Total PhosP (Unfiltered)	2.0				.	ļ		ļ	ļ _	00665		
Total Solids	2050			ļ	ļ		_	<u> </u>	ļ	00500		
Total Non Vol. Solids	157		***************************************		<u> </u>	.	_		ļl_			
Total Suspended Solids	1773	-			ļ		_	ļ		00530		
Total Sus. Non Vol. Solids	17		-	ļ	.	.	- <u></u>					
PhenoLs	.006	**************************************	· 				_					
TOTAL OILS LGARAGES	ND			ļ								
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Note: All results are in P Convert those marked	PM unl	ess otl a * to	nerwis	e spec	ified.	ND :	is ''Noi to ent	ne Dete ry into	cted" STORET			

Summary By testa D. Poll Date 2-13-24