November 23, 1973

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WA-CR-1020

Memo to: John Hodgson and John Arnquist

From: Pat Lee

Subject: Sandvik Special Metals

A waste characteristic survey was conducted on Sandvik Special Metals in Finley on October 16, 1973. The effluent was composited every 45 minutes for 5 hours. Due to intermittent flow, no measurements of total flow were possible. The field and laboratory results are included below. The results showed remarkable consistency with their Corps of Engineers report from the summer of 1971. The only parameters exceeding the maximum concentrations reported in the Corps application were BOD, temperature and NH_3-N . The BOD and temperature values were slightly above the reported maximum, while NH_3-N was three times the reported maximum value. I inspected the effluent line to the Columbia River and found it to be corroded and part of the effluent was being discharged on the beach. This was reported to plant personnel.

FIELD RESULTS

Final Effluent

8 Determinations	Max.	Min.	Mean	Median
Temp °C	_28.0	24.5	25.8	25.0
pH	6.8	6.0		6.4
Conductivity (µmhos/cm)	2900	750	1270	1050
Settleable Solids	0.7	0.0	0.1	0.0



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Southwest Washington Regional Headquarters Olympia, Washington 98504 Telephone (206) 753-2353

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY WATER QUALITY LABORATORY DATA SUMMARY							-	ORIGINAL TO: P. ACC. COPIES TO: LAB FILES	
							LAB		
Source SANduik Spa	siar Me	TALS			Collec	ted By	Lce		
Date Collected 10-16-7									
Log Number: 73-	3769	r	t 1-	······································			······································	STORET	
Station:	EFF_		ļļ.						
рН	6.7		ļ					00403	
Turbidity (JTU)	16							00070	
Conductivity (umhos/cm)@250	1800.							00095	
COD	ļ							00340	
BOD (5 day)	23.							00310	
Total Coliform (Col./100m1)	>42104		<u> </u>					31504	
Fecal Coliform (Col./100m1)	40		 					31616	
NO3-N (Filtered)	3.18		 					00620	
NO2'-N (Filtered)	.22							00615	
NH3-N (Unfiltered)	1.5							00610	
T. Kjeldahl-N (Unfiltered)	1.5					_		00625	
O-PO4-P (Filtered)	.88							00671	
Total PhosP (Unfiltered)	3.80					_		00665	
Total Solids	1187.					_		00500	
Total Non Vol. Solids	705.		. <u></u>			_			
Total Suspended Solids	49.					_		00530	
Total Sus. Non Vol. Solids	38.					_			
FLUORIdes	18.2					-			
COLOR	<u> </u>			 		_			
TOTAL OILS	3.								
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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 10³) prior to entry into STORET Summary By Torker Date //- 2-73