## Job Report

Project No	MP-1-R2	Date	9 January 1961	,
Project Name: _	Industrial Waste Control	in Region	MP-1.	
Period Covered:	30 June 1959 through 3	0 June 1960	. Jo	b No. $F-3-13$
Chemical Ar	nalysis of Sinclair Refin	ery's Waste	Waters, Pasaden	a, Texas.
	Determine toxic chemical ne and aquatic life.	compounds	present that wou	ld be detri-
	Collect water samples fr ling to procedures in Stanstrial Waste.			
mately $2\frac{1}{2}$ miles	Sinclair Refinery is loc s above Washburn Tunnel i l and processes over 150,	n Pasadena,	Texas. Sinclai	r employs
Five thousand gallons per minute of waste waters from the refinery enters the Houston Ship Channel after being run through old, outdated oil skimmers. However, since our visit on June 29, 1959, a large U-shaped concrete retention basin was completed and is now in operation. The retention basin has a retention time of approximately 20 hours. At each end of the U-shaped basin there are oil skimmers to remove any floating oils. In addition to the retention basin there is an adjacent acid holding pond with automatic pH control.				
Due to work loads in other areas a comparison of before and after effects of the retention basin has not been completed. The following is the analysis on water samples collected June 29, 1959, before the new retention basin was completed:				
	Sulfides		40 pp	<b>n</b>
	Phenols (4 Aminoantipyri	ne Method)	14 pp	a
	Chlorides		2,062 ppm	n
	Chemical Oxygen Demand (	Dichromate	Reflux Method)	1,067 ppm
	рН		8.4	
	Golor	4 July 4044, 6044, and spins and ann. com (any ann. c	Black	
It is believed that with the completion of the new retention basin and acid pond with pH control a substantial improvement in water quality should be achieved.				
Prepared by	R. Marek, Jr.	Accepted 1	y Koward T.	Lee
	Marine Chemist.	Date	O Jamear	1961

## References

- American Public Health Associaton, American Water Works, Association, Federation of Sewage and Industrial Wastes Associations, Standard Methods for the Examination of Sewage and Industrial Wastes. Tenth Ed., 1955.
- American Petroleum Institute's <u>Manual on Disposal of Refinery Wastes</u>. Vol. IV. Sampling and Analysis of Waste Water. Second Ed. 1957.