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Phosphate in Irondequoit Creek and Tributaries, 1968-1969*

*By: Ruth Levitt
November 1969*

THE ROCHESTER COMMITTEE FOR SCIENTIFIC INFORMATION
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Water Pollution 61

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Phosphate In Irondequoit Creek and Tributaries, 1968 - 1969

by
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Summary and Interpretation:

Waters of Allens Creek, Thomas Creek and Irondequoit Creek were analyzed for phosphate content on November 3, 1968 and September 1, 1969. The major change during the year has been the elimination of the contribution by the Russer meat packing plant, which ceased operation. Predictably, all three sewage treatment plants contribute phosphate to the streams. The most notable increase in concentration of phosphate is caused by effluent from the Allens Creek sewage treatment plant. A smaller increase in concentration results from the Penfield sewage plant, but the total amount may not be lower because the volume of diluting water is greater in the receiving stream. The Nalge Company does not appear to contribute significant amounts of phosphate, even though its effluent has at times contained visible wastes of unknown character.

Phosphate Content of Streams Entering Irondequoit Bay

<u>Location</u>	<u>ppm PO₄ found on given date</u>	
	<u>11/3/68</u>	<u>9/1/69</u>
1. Allens Creek at Allens Creek Road (above Allens Creek STP)	not sampled	0
2. Allens Creek above Nalge outfall (below Allens Creek STP) off Panorama Trail	4.2	5.8
3. Allens Creek below Nalge outfall	4.3	5.8
4. Irondequoit Creek at Ridgeview Drive, Perinton (just above mouth of Thomas Creek and above East Rochester STP)	not sampled	1.5
5. Thomas Creek at O'Connor Road (above Russer Co. outfall)	1.5	2.9
6. Russer outfall	> 10	no effluent
7. Thomas Creek below Russer outfall	3.3	not sampled
8. Irondequoit Creek at Linden and W. Whitney (below E. Rochester STP)	not sampled	2.7
9. Irondequoit Creek about Penfield STP on Washington Street	2.2	2.2
10. Irondequoit Creek at Panorama Trail (below Penfield STP)	3.3	3.0