



Health Department

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To: Christopher Raths, Township Manager
From: Mark Caputo, Health Director
Date: October 22, 2013
RE: Hydrogen Sulfide Criteria for Roxbury Schools

CC: Patrick Tierney, Superintendent of Schools

The Roxbury Health Department recommends schools affected by H₂S emissions from Fenimore adhere to the criteria listed below. The goal is to provide the Township of Roxbury and school officials a basis upon which they can act to protect school populations. Roxbury Township has installed a second ring of monitoring stations in the vicinity of schools in close proximity to Fenimore.

I have reviewed and agree the the following air pollution criteria offered by Bruce Groves, Emilcot, Inc is appropriate and provides a conservative level of protection for schools. These levels have been confirmed as such by Drs Gochfeld and Lioy, Rutgers University Environmental Toxicologists and Joseph Eldridge, NJ Department of Health, Division of Environmental and Occupational Standards. I have reviewed the criteria with Dr. Tierney, Superintendent of Roxbury Schools and he will implement same as soon as possible.

The criteria is triggered by readings at monitoring stations Rox 9, Rox 10, Rox 11 and Rox 12, the results of which are available on the municipal website.

The Notification period is 5 am – 5 pm, 5 days per week while schools are in session and not limited to the public school calendar.

Level 1 - Readings above 10 ppb (15 minute block average) yellow advisory – The Level 1 warning will initiate a request to prepare for an onsite response to monitor designated school properties (outside of buildings) with a hand held H₂S monitor. Hand held monitoring details are to be determined.

Level 2 - Readings above 20 ppb (15 minute block average) red warning – The Level 2 warning will initiate an onsite response to monitor designated school properties (outside of buildings) with a hand held H₂S monitor. The results of this onsite monitoring (sustained levels > 20ppb) will make recommendations that all outside school activities will cease and all students and personnel will remain in the respective buildings. Monitoring will continue at hourly intervals until levels are sustained below 10.0 ppb. Handheld monitoring details are to be determined.

The above criteria are not to be confused with the ball field criteria previously established. The Emmons Road ball field criterion is based on the average length of a typically sports event being significantly longer than the typical time frame of an in-school outdoor activity such as recess or gym class.