

Department of Environmental Protection	GENERAL INSPECTION REPORT	Bureau of Land Recycling and Waste Management
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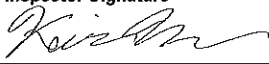
Type of Inspection Complaint/Follow-up	WM Identification Number	Entry Time/Date 04/11/14	Inspection ID
Facility/Incident Name and Location Nutra Soils, Inc./ H.M.R. (Site 1) and H.M.R. Site 2			Municipality London Grove Twp.
E. Baltimore Pike Avondale, PA 19311			County Chester
Name, Address of Responsible Official Carlos Tenorio		Title Manager	
		Telephone 610-869-7645	Interviewed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

On April 11, 2014, I (Kevin Maskol) conducted a complaint and follow-up investigation of Nutra Soils, Inc. (H.M.R. Sites 1 and 2) located on East Baltimore Pike in London Grove Township, Chester County. Carlos Tenorio, Facility Manager, was present. The Department continues to receive odor complaints about this operation. The mushroom substrate production wharfs, the spent mushroom compost storage areas, and the wastewater collection areas at both sites were observed. The soil bagging operation at Site 1 was also observed. The weather at the time of the inspection was cloudy with NW winds.

Both new aerators were running in the cement tank next to the wharf at Site 1. Three diffusers were running in the main lagoon. Mr. Tenorio plans to install three more diffusers in this lagoon. There was approximately 2' of freeboard in this lagoon at the time of the inspection. An *A J Hauling* tri-axle dump truck was being washed in front of the garage behind the office. Mr. Tenorio stated that about 4 trucks per week are washed in this area. This activity has been observed during prior inspections. Dirty water is not collected, it runs down the driveway and along the railroad tracks that cut through the property. The facility is recommended to perform vehicle washing in dedicated areas (indoors wherever possible) and to collect and manage wash water separately from storm drainage.

The three pads used to store spent mushroom compost at Site 1 were observed. Pad 1 was full. A loader was being used to clean out the solids from the collection basin at the foot of the pad. Some odors were being generated; however cleaning out the catch basins is necessary to prevent leachate from pooling and to keep solids out of the lagoon. Pad 2 was almost full. The compost was being removed from Pad 3. New grass was growing in the spray field. No rills or gullies were observed in the spray field.

Nutra Soils' soil bagging operation is located at the front of Site 1 close to Baltimore Pike. Aged mushroom compost is screened and mixed with other materials including waste foundry sand. After the

Inspector Name Kevin Maskol	Inspector Signature 	Headquarters SERO 2 E. Main St. Norristown, PA 19401	Date 04/30/14
			Telephone 484-250-5763
Person Interviewed Name Carlos Tenorio	Signature of Person Interviewed Copy mailed to the facility.	Title Manager	Telephone 610-869-7645

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning either violations noted herein, or other violations identified as a result of review of laboratory analyses or Department records.

This report does not constitute an order or other appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

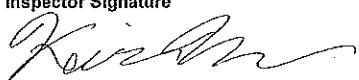
Signature by the person interviewed does not necessarily imply concurrence with the findings on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

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inspection Mr. Tenorio provided information on the source of the waste foundry sand. The sand comes from Boyertown Foundry Company which is operating under General Permit WMGR098D002 for Beneficial Use. Appendix "A" of the permit lists soil additive or soil amendment as an acceptable use. There is a sediment trap located below the screeners that collects runoff from the bagging area. The pipe outlets the water along the railroad tracks. This is identified in the MFEMP; however the water being discharged may not be clean. This issue should be addressed.

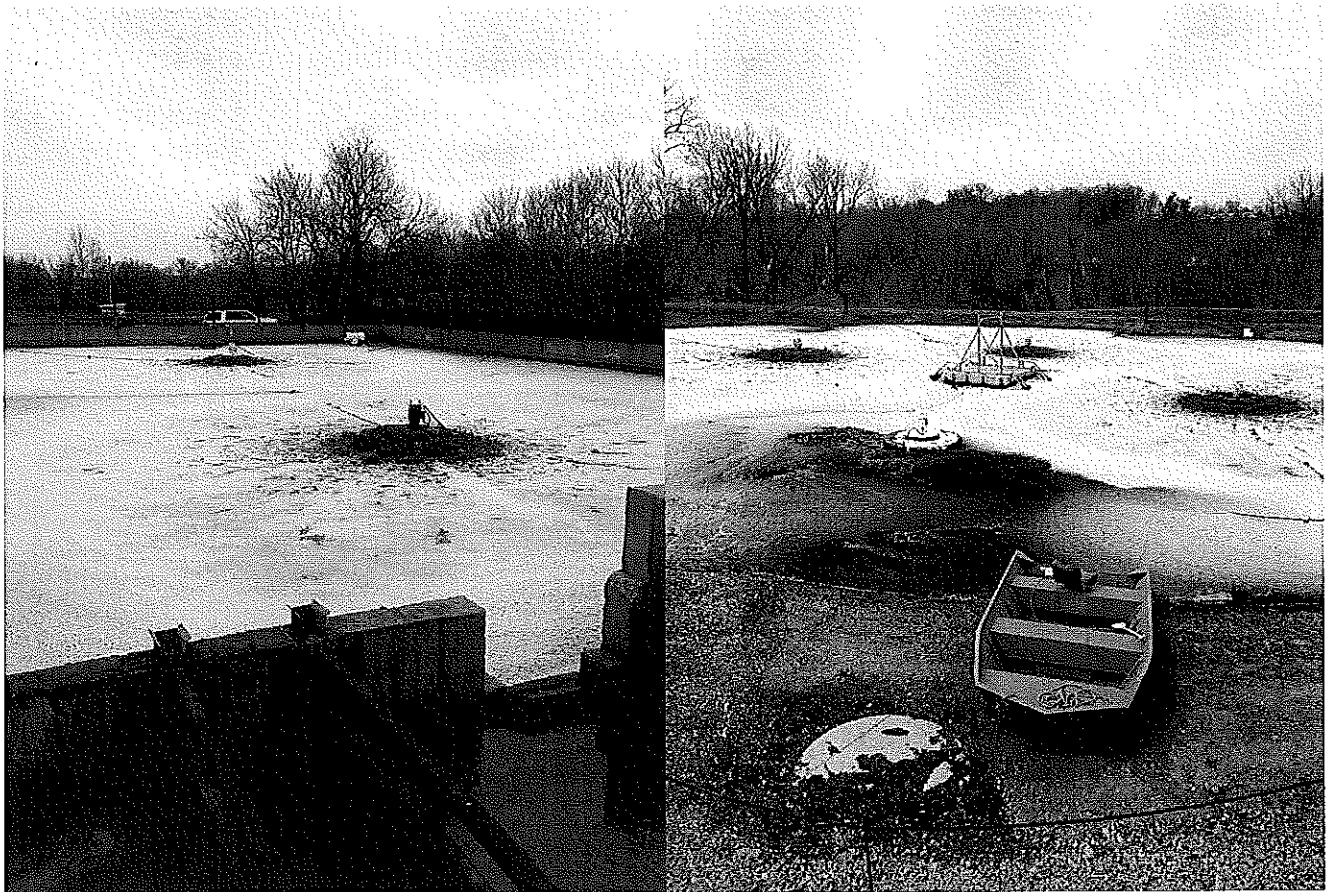
The fresh substrate wharf at Site 2 was observed. New concrete was poured where poultry manure is stored. This was observed during the last inspection. The concrete is sloped so that runoff from the manure is collected. The wharf at Site 2 appeared noticeably larger than at Site 1 and more odors were detected. Solids have been removed from the earthen lagoon and four new aerators have been installed. Three of these aerators were running at the time of the inspection. The facility has also completed the installation of an automatic screen system that removes solids from the collection basin before they can enter the lagoon. The facility has made these improvements at the recommendation of the Department to prevent anaerobic conditions. It is hoped that the new BMPs the facility has implemented will reduce odors generated from the production of fresh mushroom substrate. Mr. Tenorio was unable to provide any recent measurements for Dissolved Oxygen (DO) in the lagoons. The facility is recommended to continue to monitor the levels of DO in all of the wastewater collection areas to quantify what effects the new BMPS have made.

Although the facility has done well by installing the new aerators and automatic screen, problems remain at the site. The spent mushroom compost storage area at Site 2 was observed. There were odors detected in this area. BMPs listed in the current MFEMP include a composting pad and collection basin. The MFEMP states that this pad was built with technical assistance from USDA- NRCS. It does not appear that either of these structures would meet current NRCS standards. The collection basin was beyond capacity at the time of the inspection. On the west side of the basin, a drainage swale was observed. This swale had not been observed during previous inspections. There were shovels and bags of potting soil in the swale. It was evident that mushroom compost laden runoff was discharging through this swale and into the stream. Mr. Tenorio stated that they had attempted to raise the berm to prevent the water from discharging. The best management practices implemented at this site are not sufficient to prevent contaminated runoff from leaving the property. This would also constitute an unpermitted discharge. This area should be a priority for improvement.

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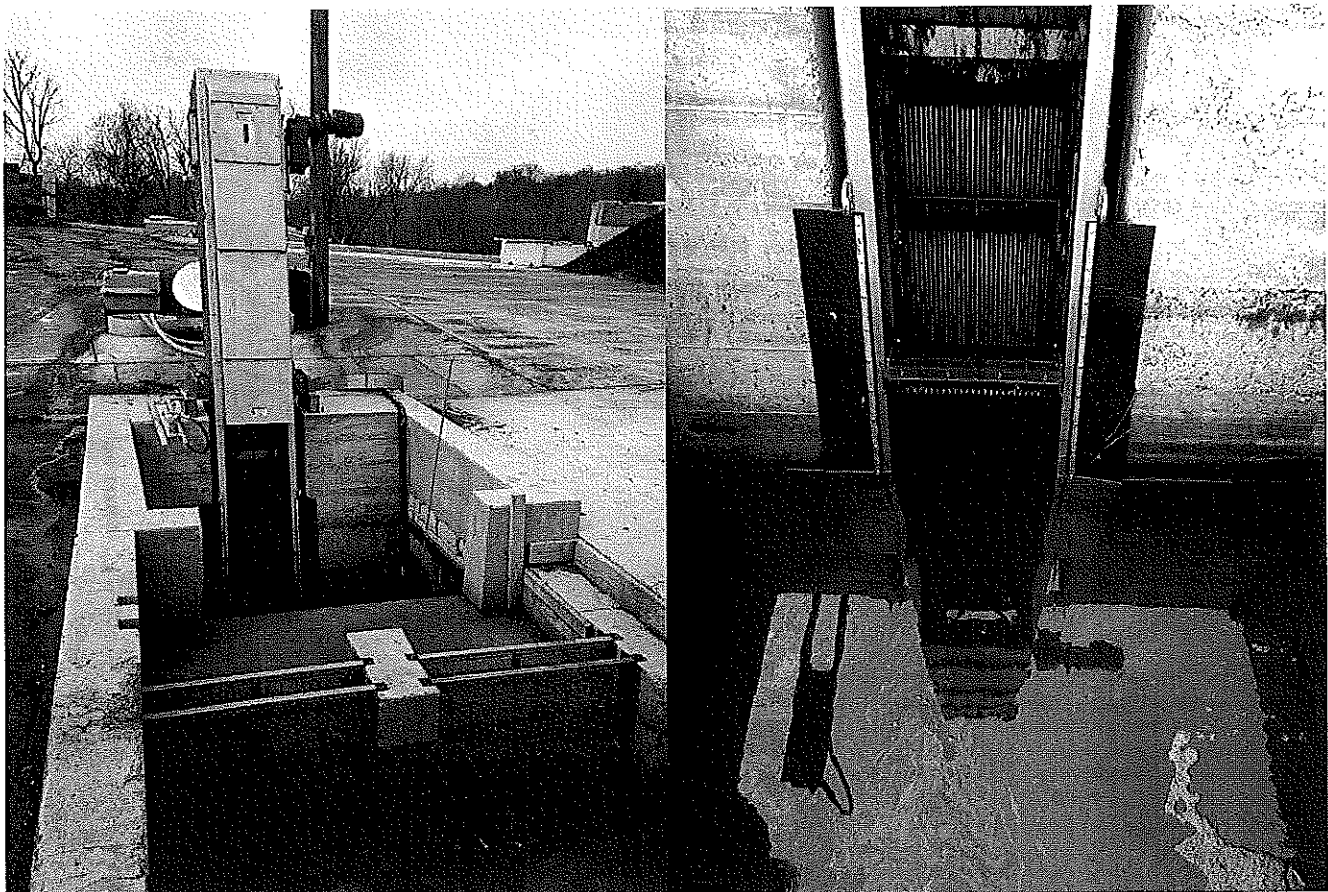


New aerators being utilized in the wastewater collection areas off the fresh substrate wharfs at Sites 1 and 2.

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New automatic screen system to prevent solids from entering the wastewater lagoon at Site 2.

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Mushroom compost storage area collection basin at Site 2

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Mushroom compost laden runoff discharging into a drainage swale that leads to a stream.

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