sanitation

DENNIS DIGGINS
Deputy Commissioner

Solid Waste Management
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December 18, 2014

BY EMAIL AND OVERNIGHT MAIL
Mr. Kenneth B. Brezner, P.E., Regional Materials Management Engineer
NYS Department of Environmental Conservation, Region 2
47-40 21st Street
Long Island City, NY 11101-5407

RE: Southwest Brooklyn Converted Marine Transfer Station
NYSDEC Permit No. 2-6106-00002/00022
Community Air Monitoring Plan

Dear Mr. Brezner:

The City of New York Department of Sanitation (DSNY) herby submits two hard copies of a Community Air Monitoring Plan (CAMP) for the Southwest Brooklyn Converted Marine Transfer Station (MTS) developed in accordance with the New York State Department of Environmental Conservation technical guidance document DER-10.

The CAMP and this cover letter will be posted on the DSNY website shortly.

A CD containing these documents is also provided.

Please contact me at (212) 437-4508 or sdolinar@dsny.nyc.gov if you have any questions.

Sincerely,

Sarah J. Dolinar
SWM Dir., Environmental Review

Enclosures (3): Two copies, One CD
cc: J. Cryan, NYSDEC (w/o enclosures)
T. Williams, NYSDEC (w/enclosures)
J. Cuervo, DDC (w/o enclosures)
D. Menz, LiRo (w/o enclosures)

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ENTECH
ENGINEERING, P.C.

December 17, 2014

Mr. Donald Menz, P.E.
Project Manager
URS-LiRo, JV
111 Broadway, Suite 501
New York, NY 10006

Re: DSNY Southwest Brooklyn Converted Marine Transfer Station – Enhanced Air Monitoring Plan

Summary
The New York City Department of Design and Construction (DDC) is responsible for managing the construction of a new Marine Transfer Station at 400 Bay 41st Street, Brooklyn, NY 11214, to be known as the Southwest Brooklyn Converted Marine Transfer Station (MTS). The MTS will be operated by the New York City Department of Sanitation (DSNY). URS-LiRo, Joint Venture is the Construction Manager (CM) for the DDC construction project.

The principal items of work include the construction of a new marine transfer station with access ramps, building HVAC systems, plumbing systems, fire protection systems and electrical systems; new container gantry cranes; new transport system; demolition of existing waterfront fendering system, site structures and equipment; construction of new bulkhead walls and property line fence; dredging in the area of the new transfer station; site work; new underground utility system and utility system foundation; construction of new roadways and parking areas; and final grading and landscaping of the surrounding area.

EnTech Engineering PC (EnTech), New York, New York, a subconsultant of DDC's CM, was instructed to develop and execute a Community Air Monitoring Plan (CAMP), pursuant to Particulate Monitoring section of the New York State Department of Environmental Conservation (NYSDEC) technical guidance document, DER-10 Appendix 1A. The CAMP is intended to provide a measure of protection for the downwind community from construction-related particulates and to augment the Construction Air Monitoring requirements to be implemented in connection with the construction contract specifications "Section 02291 - Air Monitoring Program" dated January 22, 2013 and set forth as part of the NYSDEC-approved Soil Management Plan dated September 30, 2014. The purpose of this document is to outline the CAMP for the MTS construction project. The CAMP may be revised to address the requirements of DER-10 Appendix 1B if further site investigations indicate the need for such revisions.

Procedure
Airborne particulates will be monitored utilizing four (4) air monitoring stations. Two (2) stations will be placed upwind and two (2) stations will be placed at downwind locations, such that a quadrangle will be formed around the perimeter of the work area. The daily monitoring locations will be coordinated with the CM based on the assessment of the wind condition and type of work activities being conducted.

Background Level
At any given time during construction work hours, the lowest air particulate reading among the most recent set of collected readings will be considered the upwind perimeter reading and will be used as the background level for that time interval until a new set of readings is available. The same process will be used for report preparation as well. As a result, the background level will be a variable value during the monitoring process and will change continuously based on the changes of the upwind reading.

Air Monitoring
Airborne particulate levels will be automatically logged during normal construction project work hours (7:00 a.m. to 3:00 p.m.) by the monitoring equipment continuously during demolition, soil removal/handling activities and other activities that could potentially generate airborne particulates. The readings will be sent to a web site via cellular modems connected to the monitoring equipment, in Near Real Time (NRT). The alerts will be pre-set such that if the airborne particulate level exceeds 100 $\mu g/m^3$ at any of the monitoring locations, the CM and the EnTech's on-site Technician (Technician) will be notified. The Technician will mobilize to the station location which caused the alert

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upon receiving the notification and will document the activity that may have triggered the alert, in a project designated field book.

All the equipment will be calibrated/zeroed at the beginning of each day. The Technician will manually record the readings of each airborne particulate monitoring device in the project designated field book at a minimum of four times per day. If the Technician observes any visible dust, the work activity that might have caused the dust will be recorded and the RE will be informed. At the end of each day, the automatically recorded data will be downloaded for report preparation. Daily reports will be prepared by EnTech and will be issued to the CM on the following business day. The air monitoring will be conducted by qualified EnTech personnel with relevant professional experience in environmental monitoring projects.

Site Perimeter Action Levels

The action levels for the real-time monitoring conducted during building demolition, soil removal, handling, backfilling activities and other activities that could potentially generate airborne particulates are defined as follows:

Airborne Particulates

Given a background level of B $\mu g/m^3$ and a 15-minute time-weighted average reading of C $\mu g/m^3$, the following shows the required action levels:

- **$0 + B < C < 100 + B$,** then the Contractor shall continue normal operations
- **$100 + B < C < 150 + B$,** then the Contractor shall implement dust suppression and engineering control measures to reduce the airborne particulate levels
- **$C > 150 + B$ $\mu g/m^3$,** then the Contractor shall stop all work activities, identify the source of the particulates, and implement measures to control the dust levels. After these steps are performed to the satisfaction of the RE, work activities can resume provided that the air particulate levels 200 feet downwind of the work area or half the distance to the nearest potential receptor, whichever is less – but in no case less than 20 feet – is below $100 + B$ $\mu g/m^3$.

Equipment

The devices to be used for this task are DataRAM 4 model, or equivalent. These devices are designed to measure the level of airborne particulate matter, as well as mean particle size, air temperature and humidity. The DataRAM 4 is a compact, rugged and totally self-contained instrument designed for portable, as well as unattended fixed-point operation. For this particular task, the devices are fixed inside a protective case (designed for this purpose), over a tripod. In order to calibrate the devices the automatic zeroing and internal check function sequences are initiated before any measurement run to ensure optimal operation.

Sincerely,

Farzad Nobar

Farzad Nobar, PhD, PE
EnTech Engineering, PC.