FILE COPY



October 28, 2002

Ms. Champanine Saviengvong
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action, 11th Floor
625 Broadway
Albany, New York 12233-7015

RE: Galson Report: Mercury Clean-up Monitoring Report for the LIRR Substations Phases 1 & 2

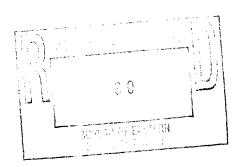
Dear Ms. Saviengvong:

Per your request, I have enclosed a copy of the subject Galson report for your review. Please call me at (718) 558-3252 if you have any or require any additional information.

Sincerely,

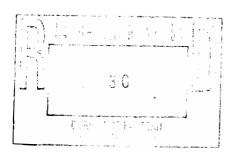
Lewis D. Wunderlich

cc. A. Postyn (w/o encl)



Phases 1 and 2

The Long Island Rail Road Hillside, New York 11423





Phases 1 and 2

Long Island Rail Road Hillside, NY 11423

March 1999

Galson Project No.'s: 95H3666.046 and 95H3666.050

Prepared By:

Hobart R. Van Deusen Project Manager

Galson Corporation
10 Skyline Drive, Hawthorne, NY 10532

Table of Contents

1.0	Backg	Background		
2.0	Purpose			
3.0	Monitoring			
4.0	Methodologies and Exposure Limits			
5.0	General Work Procedures			
6.0	Waste Handling and Disposal			
7.0	Phase	1 - Site Summaries	6	
	7.01	Little Neck Substation	6	
	7.02	Bayside Substation		
	7.03	Bellaire Substation		
	7.04	Liudenhurst Substation		
	7.05	Rockville Center Substation		
	7.06	Nassau Boulevard Substation		
	7.07	Babylon Yard Substation		
8.0	Phase 2 - Site Summaries			
	8.01	Floral Park Substation	15	
	8.02	Hempstead Substation	17	
	<i>8.03</i>	Port Washington Substation	18	
	8.0 4	Meadow Brook Substation (Emergency Mercury Spill Clean-up)	19	
	8.05	Massapequa Substation	20	
	8.06	Island Park Substation	22	
	8.07	Shea Substation	24	
	8.08	Manhassett Substation	25	
	8.09	Inwood (Far Rockaway) Substation	27	
	8.10	Cedar Manor Substation (Visual Inspection and Ambient Air Sampling Only)	29	
	8.11	Valley Stream Substation (Visual Inspection and Ambient Air Sampling Only)	29	
9.0	Concl	usions	30	
Appe	endix A	Galson's Project Personnel		
Appe	ndix B	Waste Drum Count by Site		
Appendix C		Waste Characterization Laboratory Analysis Results		
Appendix D		Waste Shipment Manifests		

1.0 BACKGROUND

Galson Consulting (Galsor) was retained by Long Island Rail Road (LIRR) to document and monitor mercury (hg) clean-up operations at several substations that were identified as having visible mercury spills/contamination. The clean-up operations were divided into two phases identified by Galson as Phases 1 & 2. Initially, seven (7) substations were identified as being visibly mercury contaminated and they are listed below:

Phase 1:

- Little Neck
- Bayside
- Bellaire
- Lindenhurst

- Rockville Center
- Nassau Boulevard
- Babylon Yard

Upon further field investigations by Galson, an additional eight (8) substations were identified as being visibly mercury contaminated as well. They are presented below:

Phase 2:

- Floral Park
- Hempstead
- Port Washington
- Massapequa

- Island Park
- Shea
- Manhasset
- Inwood (Far Rockaway)

In addition to the fifteen (15) substations listed above, Galson also monitored an emergency clean-up of mercury spilled at the Meadow Brook substation at the request of LIRR System Safety department. The results and observations of this clean-up are documented in this report as well (see Section 8.04).

Galson personnel also performed visual inspections of two LIRR substations that were previously surveyed by LIRR System Safety personnel for mercury contamination. These were the Cedar Manor and Valley Stream substations. While no remedial actions were taken at these two substations during Phase 1 or 2 of the clean-up, Galson's observations at the two facilities are documented in this report (see Sections 8.10 and 8.11).

Trade Winds Environmental Restoration, Inc. (Trade Winds), of Bayshore, New York, was retained by LIRR as the environmental remediation contractor on this project. All Trade Winds personnel involved in the clean-up of mercury had taken the 40-hour hazardous waster operations training per 29 CFR 1910.120. The on site supervisor and/or crew foreman had also taken the additional 8-hour hazardous waste operations training for a supervisor per 29 CFR 1910.120.

2.0 PURPOSE

The purpose of this remediation project was to protect LIRR personnel, contractor personnel, and the public from further possible exposure to mercury debris and vapors both within and outside these facilities. The aim was to remove all visible mercury contamination from the substations, and lower the ambient airborne mercury vapor concentrations to a level *below* the applicable regulatory standards.

3.0 MONITORING

LIRR retained Galson as an independent third party to monitor the remediation contractor's compliance to applicable regulations, intended scope of work, and health and safety issues. Galson also performed waste characterization sampling of water removed from the facilities (see Appendix B), and noted any deficiencies in the substations that would affect the outcome of the mercury clean-ups. As the third party monitor, Galson also had the right to stop work if the contractor was in non-compliance, or imminent hazards were observed. Galson also conducted final visual inspections and direct-read air monitoring to verify the clean-up was complete, and within the applicable regulatory standards for airborne mercury vapors. The clean-up was not considered complete until the area was satisfactory to Galson's sampling and inspection.

The contractor was responsible to perform monitoring to determine if contractor employees are exposed above the OSHA permissible exposure limit as defined in 29 CFR 1910.1000. The use of LIRR or third party monitor air sampling results to demonstrate compliance was prohibited.

4.0 METHODOLOGIES AND EXPOSURE LIMITS

Galson, in agreement with LIRR Office of System Safety, and the remediation contractor, Trade Winds, utilized a permissible exposure limit (PEL) for mercury vapor of 0.025 milligrams per meter cubed (mg/m3). This level is recommended as a threshold limit by the American Conference of Governmental Industrial Hygienists (ACGIH) for personal exposure to mercury vapor over an 8-hour Time Weighted Average (TWA). This exposure level is one-half the exposure level (0.05mg/m3) set by both the Occupational Safety and Health Administration (OSHA) and the New York State Public Employee Safety and Health (PESH) agency (see table

below). OSHA further provides a ceiling limit of exposure of 0.1 mg/m3. Trade Winds was required to reduce the mercury vapor levels in the substations to a level at or below 0.025 mg/m3 in order to obtain final clearance for the site. By setting such a stringent standard, Trade Winds was required to clean and neutralize the facility to level more stringent that either OSHA or PESH required.

Galson enforced this exposure limit by utilizing direct-read instrumentation at the work sites. A Jerome 431X Mercury (Hg) Vapor Analyzer (MVA) was utilized to obtain Hg vapor level readings from breathing zone level at various locations in the facilities. The Jerome MVA was put through a source regeneration process each evening, and was pre and post calibrated prior to all clearance sampling episodes. The readings collected by the Jerome MVA were short-term readings, and not full 8-hour readings. The readings therefore did not indicate the actual worker exposure the workers encountered during the full work shift. They did indicate if exposure levels exceeded the regulatory ceiling limits which workers can not be exposed to at any time without the proper respiratory protection.

Exposure Limits

Agency	Exposure Limit	Exposure Limit Type
American Conference of Governmental	0.025 mg/m3	8-hour time-weighted average
Industrial Hygienists (ACGIH)		(TWA)
Occupational Safety and Health	0.05 mg/m3	8-hour TWA
Administration (OSHA)		
OSHA	0.1 mg/m3	ceiling limit
New York State Public Employee Safety	0.05 mg/m3	8-hour TWA
and Health (PESH)		
PESH	1 mg/10 m3	ceiling limit
	(0.1 mg/m3)	
National Institute of Occupational Safety	0.05 mg/m3	10-hour TWA
and Health (NIOSH)	(recommended)	
NIOSH	0.1 mg/m3	ceiling limit
	(recommended)	
United States Department of	2,300 grams/day	National Ambient Standard
Environmental Protection Agency		for Emissions
(USEPA)		

5.0 GENERAL WORK PROCEDURES

The following outline of general work procedures were used by Trade Winds in the cleaning of the mercury contamination within the LIRR substations:

- A. Restrict access to the contaminated areas.
- B. Set up decontamination system.
- C. Workers don appropriate personal protection equipment.
- D. Shut down heating system (s) to minimize volatilization of mercury.
- E. Open windows and doors to increase ventilation of the contaminated areas.
- F. Install ventilation equipment. Ventilation equipment was exhausted outdoors away from occupied areas.
- G. Conduct air monitoring with a direct-read mercury vapor analyzer in the contaminated areas to document conditions prior to remediation.
- H. Begin gross clean-up of mercury contamination as follows:
 - 1. Remove all moveable objects from contaminated areas. Porous objects made of wood, paper, and etc. that were potentially mercury contaminated were drummed and disposed of as mercury contaminated waste. Non-porous objects, such as metal, plastic, and glass, were decontaminated and removed from the work area for LIRR personnel to utilize or dispose of properly.
 - 2. Vacuum contaminated areas with a mercury-vapor filtered vacuum, including areas of high vapor content, or previously treated with a mercury absorbent chemical.
 - 3. Where large amounts of liquid were present, the contractor used mops, sponges or other appropriate material to absorb excess liquid.
 - 4. Once excess liquid was removed, the areas were vacuumed thoroughly again.
- I. Upon completion of vacuuming and gross cleanup, chemical neutralization was performed.

- J. Once the contractor removed all equipment and materials from the work areas and neutralized them for future use, he would request a final visual inspection by Galson to verify thoroughness of the clean-up. If the area was not found to be satisfactorily clean by Galson, the contractor was directed to re-clean the areas still visibly contaminated until Galson was satisfied the area was clean. An area was deemed visually clean if there was no visible dust, debris, or mercury.
- K. Once the area was determined to be visually clean, the ventilation units were shut down and the area vacated for a minimum of 8-hours.
- L. After the 8-hour settling period, Galson would collect final clearance air samples with a direct reading mercury vapor analyzer. If mercury vapors exceed the clearance criteria of 0.025 mg/m3, as determined by Galson, the contractor would re-vacuum and neutralize the work areas with high readings, and wait another 8-hour settling period before Galson would perform clearance sampling again. This cycle was repeated until satisfactory clearance readings were obtained.
- M. Once clearance levels were achieved, the contractor would then clean-up the mercury neutralizing agent by using wet wiping or mopping. Wipes and mop heads used for cleaning were disposed of as mercury contaminated waste. Contaminated water was disposed of as mercury contaminated waste as well.
- N. The contractor would then seal all floor surfaces, cable trenches, etc. with two coats of epoxy paint to encapsulate any remaining mercury vapors that may be present in the work area.
- O. Once the paint had a sufficient amount to dry, Galson would perform post-paint air sampling with the Jerome MVA to verify the facility is clear for re-occupancy by LIRR personnel.

6.0 WASTE HANDLING AND DISPOSAL

Waste handling and disposal of mercury and mercury contaminated waste during this remediation was governed by the following agencies and regulations:

- A. United States Environmental Protection Agency (US EPA):
 - 1. Resource Conservation and Recovery Act (RCRA)
 - 2. Toxic Substances Control Act (TSCA)
 - 3. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

- B. United States Department of Transportation (US DOT):
 - 1. Hazardous Materials Transportation Act (HMTA)
- C. New York State Department of Environmental Conservation (NYS DEC)
- D. LIRR Health, Safety and Environment Policy
- E. State and local regulations of the final destination site

The remediation contractor was responsible for adhering to all applicable federal, state, and local regulations regarding the handling, transportation and disposal of the mercury contaminated waste generated at each substation.

Waste characterization, and shipping was coordinated through LIRR. Galson performed limited waste characterization for the waste water pumped from the basements of the Little Neck and Rockville Center substations. The contractor, Trade Winds, was responsible for any subsequent waste characterization that was needed during the clean-up. Galson's waste characterization laboratory analysis results are presented in Appendix C, along with the sample chain of custody records. Waste shipment manifests supplied by the contractor are presented in Appendix D.

7.0 PHASE 1 - SITE SUMMARIES

The following section outlines the significant activities, events, and observations during each substation clean-up during Phase 1. This includes visual inspections, clearance air sampling, post-paint sampling, and observations of deficiencies at each site. A count of waste drums from each site can be found in Appendix B.

7.01 Little Neck Substation:

January 26, 1998 - January 28, 1998 Trade Winds mobilizes to site. Decontamination area set-up.

Contractor has difficulties with generator for two days. Ventilation Machines in place and running. Workers begin pumping water from basements into waste 55-gallon drums. Gross removal of mercury on main floor. Galson is represented

by Hobart Van Deusen.

January 29, 1998 - February 3, 1998 Contractor begins gross removal of mercury in basement

chambers. De-watering of basement chambers completed. Work continues on main floor as well. Moveable objects are removed from the work areas and are decontaminated or disposed of as

mercury contaminated.

February 4, 1998 Contractor begins neutralizing main floor work area with sodium

thiosulfate neutralizing agent. Clean-up in basement chambers

continues.

February 5, 1998 Basement chambers have been flooded by heavy rains.

Contractor attempts to stop water from entering basement. LIRR personnel arrive to clean-out overflowing/clogged gutters. Contractor de-waters basement again into waste drums. Contractor continues neutralizing of the main floor and starts

neutralizing in basement chambers.

February 6, 1998 Galson performs visual inspection of the main floor and

basement work areas. Neutralizing has been completed in both areas. Contractor is asked to perform minor re-cleaning on the main floor at floor cracks by the rectifiers. This is completed. Galson re-inspects and passes the work areas for clearance air

sampling on 2/7/98.

February 9, 1998 Galson performs direct-read <u>clearance air sampling</u> utilizing a

Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.010 mg/m3 to 0.024 mg/ m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Floors are mopped/washed down in preparation for painting. Contractor demobilizes clean-up equipment from site. Craig Stiles, of Galson, is orientated to the job. He will be Galson's technician

on-site until further notice.

February 10, 1998 - February 12, 1998 Contractor begins painting floors, cable trenches, etc. in the main

floor and basement work areas with epoxy paint. Painting (2-

coats) is completed.

February 20, 1998 Galson performs direct-read post-paint clearance air sampling

utilizing the Jerome MVA. (23) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.012 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-

occupancy by LIRR personnel.

March 4, 1998 Galson performs waste water characterization sampling on the

(17) 55-gallon drums filled with potentially mercury contaminated water on-site. Galson performs this sampling to confirm contractor's own sampling of the water which resulted in extremely high levels of mercury in the water collected. Samples

are shipped to Galson's Syracuse, NY lab for analysis.

DEFICIENCIES: Basement floods when it rains heavily. Water enters through the outside door to basement on South Side. Some windows and doors

boarded up, but not weather-tight. NO Floor Drains in Basement

0399

Chambers.

7.02 Bayside Substation:

February 9, 1998

Trade Winds mobilizes to site. Galson is represented by Craig Stiles. Decontamination area set-up. Ventilation machines are set-up and running. Gross cleaning of first floor work area begins.

February 10, 1998

Gross cleaning of first floor work area complete. Contractor gross cleans North and South basement chambers as well. Contractor performs neutralization on main floor and in North basement chamber.

February 11, 1998

Gross cleaning continues in South basement chamber. Contractor plugs floor drains in both chambers with concrete, and is then directed by LIRR System Safety department to remove the plugs and use rubber "J-plugs" instead. The floor drains are covered with plastic sheeting and duct tape until the contractor can get the appropriate sized plugs. Neutralizing is completed in the facility. Galson performs visual inspection of the facility. Some free mercury observed on lip of trench plates. Contractor immediately cleans and re-neutralizes these areas as directed by Galson. Galson passes the work areas for clearance air sampling on 2/12/98.

February 12, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (17) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.00 mg/m3 to 0.017 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint. Neutralizing agent has been wet mopped/washed from the surfaces to be painted. Contractor demobilizes clean-up equipment from site.

February 20, 1998

Painting (2 coats) has been completed. Galson performs direct-read <u>post-paint clearance air sampling</u> utilizing the Jerome MVA. (17) samples are collected in the breathing zone level throughout the facility. All readings were 0.000 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

No Deficiencies Noted. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

7.03 Bellaire Substation:

February 13, 1998

Trade Winds mobilizes to site. LIRR personnel do not arrive. It is learned that today is an LIRR holiday, no workers available to open site. Work crew is sent home for the day.

February 17, 1998 - February 18, 1998

Contractor mobilizes to site again. Decontamination area set-up. Ventilation machines are set-up and running. Gross cleaning of main floor work area begins. Gross cleaning in North and South basement chambers is started as well.

February 19, 1998

Gross cleaning on main floor and South basement chamber is complete. Gross cleaning continues in North basement chamber. Contractor begins neutralizing work surfaces on the main floor and South basement chamber. North basement chamber neutralized as well

February 20, 1998

Galson performs direct-read air sampling_utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (21) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.043 mg/ m3. Only one reading was over the 0.025 mg/m3 clearance criteria. This reading was located in the North basement chamber. The contractor was directed to re-clean and neutralize this area. They complied. Galson re-sampled the North basement chamber, (12) readings collected. The readings ranged from 0.005 mg/m3 to 0.011 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. Galson also performs visual inspection of the work areas. No visible mercury was observed. Galson passes the work areas for clearance air sampling on 2/23/98.

February 23, 1998

Galson is now represented by Hobart Van Deusen. Galson performs direct-read clearance air sampling utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.00 mg/m3 to 0.006 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint. Neutralizing agent has been wet mopped/washed from the surfaces to be painted. Contractor demobilizes clean-up equipment from site.

February 26, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> clearance air sampling utilizing the Jerome MVA. (21) samples are collected in the breathing zone level throughout the facility. All readings were 0.000 mg/m3. The building is cleared for reoccupancy by LIRR personnel.

7.03 Bellaire Substation: (cont.)

DEFICIENCIES:

Access to site difficult for large vehicles. No water source on-site. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

7.04 Lindenhurst Substation:

February 23, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. Visual inspection of basement chambers reveals large amounts of debris to be removed (i.e.: chairs, drums, cables, etc.). Gross cleaning of main floor work area begins. Gross cleaning in East basement chamber is started as well. A two-foot by two-foot pit is located in the East basement chamber. There is a small amount of water in this pit that will be removed and drummed tomorrow. Approximately 2-3 gallons.

February 24, 1998 - February 25, 1998

Contractor has completed gross cleaning of main floor, and East basement chamber. Both areas have been neutralized as well. Gross cleaning of West basement chamber has been started. Water in pit located in the East basement chamber has been removed and placed in waste drum with solids. Gross cleaning of West basement has been completed and neutralized. Large objects and debris removed and disposed of/or neutralized. Contractor re-cleans and neutralizes East basement chamber after Galson finds residual mercury contamination. Galson also performs visual inspection of the work areas (2/25/98). Minor areas of visible mercury was observed under East rectifier. The contractor re-cleans and neutralizes areas as directed. Galson reinspects these locations and passes the work areas for clearance air sampling on 2/26/98.

February 26, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.00 mg/m3 to 0.009 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint. Neutralizing agent has been wet mopped/washed from the surfaces to be painted. Contractor demobilizes clean-up equipment from site.

March 2, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. All readings were 0.000 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for reoccupancy by LIRR personnel.

DEFICIENCIES:

No Deficiencies Noted. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

7.05 Rockville Center Substation:

February 26, 1998 - February 27, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There are 2-4 inches of water in both basement chambers. There is a significant amount of mercury contamination (4 sq.ft.) under water in the West basement chamber. There are large amounts of debris in each chamber as well. The contractor will pump the water into waste drums and neutralize/or dispose debris in basement chambers. Main floor is gross cleaned and neutralized. Bulky waste is removed from the basement chambers.

March 2, 1998 - March 3, 1998

Contractor pumps contaminated water from the basement chambers and continues to remove debris from them as well. Gross cleaning of basement chambers begins. A broken sewer line was located in the West basement chamber (North end) and it posed a health threat to the workers cleaning in the area. Disinfectant and germicide are applied to the area and the leak repaired with a new cap. West basement chamber has been gross cleaned and neutralized. Gross cleaning in East basement chamber continues. Contractor has also removed a large piece of equipment (5' high) from the basement that had high mercury vapor readings (1.537 mg/m3) coming from openings in it. Contractor was directed to seal all openings with plastic sheeting and duct tape. They did so. This item will have to be disposed of separately.

March 4, 1998

Gross cleaning and neutralizing of work areas is complete. Galson performs <u>visual inspection</u> of the work areas. No visible mercury was observed. Galson passes the work areas for clearance air sampling on 3/5/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site. Galson performs <u>waste water characterization sampling</u> on the (3) 55-gallon drums filled with potentially mercury contaminated water on-site. Samples are shipped to Galson's Syracuse, NY lab for analysis.

March 5, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (21) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.00 mg/m3 to 0.021 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint.

March 9, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. There is 2-3 inches of standing water in the East basement chamber, and 3-4 inches of standing water in the West basement chamber. It apparently rained heavily last night. Readings ranged from 0.000 mg/m3 to 0.009 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

Basement Floods when it rains due to roof leaks. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

7.06 Nassau Boulevard Substation:

March 5, 1998 - March 9, 1998

Trade Winds mobilizes to site. Decontamination are set-up. Ventilation machines are set-up and running. Contractor gross cleans and neutralizes the main floor work area and the North and South basement chambers. Galson performs visual inspection of the work areas. No visible mercury was observed. Galson passes the work areas for clearance air sampling on 3/10/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site.

March 10, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.00 mg/m3 to 0.031 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria, except for three in the North basement chamber (West end). These readings were .029 mg/m3, 0.030 mg/m3 and 0.031 mg/m3. Galson cleared the facility for re-occupancy and painting. These three samples were only slightly above the 0.025 mg/m3 clearance criteria set by Galson, but still well below the regulated limit of 0.050 mg/m3 set by OSHA and NYSPESH. Contractor begins painting floors, cable trenches, etc. with epoxy paint.

March 12, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.003 mg/m3 to 0.023 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

No Deficiencies Noted. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

7.07 Babylon Yard Substation:

March 11, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There is 1 to 2 feet of water in the basement chambers. A sump pump is located in-place in the basement and the water is pumped out. LIRR workers state the basement chambers have been flooded for years and they only pump them out when they need to do work in them. Workers begin gross cleaning of the main floor.

March 12, 1998

Basement has been pumped out. Only 5-10 gallons of water left. This is placed into a waste drums for disposal. Gross cleaning is started in the basement chambers. Workers encounter large amounts of mud on the floors to be disposed of. A water leak is discovered in the South basement chamber at the East end. A steady stream of water was coming in through the duct banks in the wall at floor level. It is believed to be ground water. This water flows in to the floor drains, which then in turn, sends it to the sump pit in the North basement chamber, which then pumps it out of the building. The sump pump has a damaged discharge hose and a bad float. LIRR will attempt to replace these tomorrow. Contractor will attempt to seal the water leak with hydraulic cement tomorrow as well.

March 13, 1998

LIRR personnel set-up pumps in two outdoor manholes adjacent to the South basement chamber. These manholes are filled with water as well. They hope to alleviate the flooding in the basement chambers by doing this. A new sump pump is provided by LIRR and the contractor replaces the old one in the North basement sump pit. A small amount of mercury is found embedded in the mud around the floor drain in this chamber, and the South chamber as well. Hydraulic cement is used to seal the duct bank openings in the South basement chamber. LIRR System Safety personnel ask Galson to investigate a "spill" outside the substation that was anonymously reported the NYSDEC at 6:00 am. Galson inspects all areas outside the facility, paying particular attention to the ground under the

transformers. There was no evidence of a recent spill of petroleum or any other substance. This is reported back to LIRR System Safety personnel. LIRR System Safety personnel also ask Galson and Trade Winds to determine where sump pump in the North basement chamber discharges to. The cast iron pipe from the sump pit appeared to go to a storm sewer or sanitary sewer manhole outside the building on the North side. LIRR personnel expressed their beliefs that it may go into the wetlands North of the substation. Upon further investigation, a white PVC tube was found protruding into the wetlands behind some office trailers North of the substation. The contractor activated the sump pump and water was observed discharging in to the

March 13, 1998

wetlands immediately afterwards. LIRR System Safety personnel are contacted as soon as possible and informed of this. Water also continues to flow into the basement chambers through the duct banks even though hydraulic cement was used. Contractor will attempt to re-apply cement on Monday, 3/16/98.

March 16, 1998

Gross cleaning continues in the basement chambers. Contractor neutralizes work surfaces on the main floor and the South basement chamber.

March 17, 1998

Galson orientates new technician to the job. Tom Ten Eyck will be replacing Hobart Van Deusen starting today. Contractor neutralizes the main floor and South basement chamber work areas for a second time. Gross cleaning in the North basement chamber is completed and neutralized. Large wood debris from basement chambers is cut up and placed in waste drums. Galson performs visual inspection of the main floor and South basement chamber work areas. No visible mercury was observed. Galson passes these work areas for clearance air sampling on 3/18/98. The North basement chamber was too wet to visually inspect today. Galson will perform visual inspection prior to clearance air sampling tomorrow morning. Contractor wet mops neutralizing agent from work area surfaces on the main floor and South basement chamber. Contractor demobilizes clean-up equipment from site.

March 18, 1998

Galson performs visual inspection of the North basement chamber work area. Only small puddles of water remained. No visible mercury was observed. Galson passed the work area for clearance air sampling. Galson performs direct-read clearance air sampling utilizing a Jerome 43 IX Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.023 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor can begin painting floors, cable trenches, etc. with epoxy paint. Painting has been delayed due to rain.

March 25, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings "anged from 0.000 mg/m3 to 0.015 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

Basement floods when it rains due to roof leaks. Basement also floods due to high water table in the area. Water enters through duct bank openings in the basement. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and tape.

8.0 PHASE 2 - SITE SUMMARIES

The following section outlines the significant activities, events, and observations during each substation clean-up during Phase 2. This includes visual inspections, clearance air sampling, post-paint sampling, and observations of deficiencies at each site. A count of waste drums from each site can be found in Appendix B.

8.01 Floral Park Substation:

March 18, 1998 - March 19, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There are no basement chambers at this site. Only rectifier pits 3-4 feet deep. Contractor begins gross cleaning of the work areas. Neutralizer is sprayed on the work surfaces to keep airborne dust down to a minimum. It is a problem at this facility.

March 20, 1998

Contractor completes gross cleaning neutralizing of all work areas. Galson performs <u>visual inspections</u> of the work areas. Some areas with visible mercury still present. The contractor cleans these locations up immediately at Galson's direction. Galson passes the work areas upon reinspection for clearance air sampling on 3/23/98. Contractor demobilizes clean-up equipment from site.

March 23, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.003 mg/m3 to 0.020 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor can begin painting floors, cable trenches, etc. with epoxy paint.

March 27, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. All samples were below the 0.025 mg/m3 clearance criteria, except for the southwest and center rectifier pit trenches (trenches are adjacent to actual open rectifier pits and are covered with steel plate). The three readings in the SW pit trench were 0.079 mg/m3, 0.086 mg/m3, and 0.118 mg/m3. The three readings in the center pit trench were 0.090 mg/m3, 0.096 mg/m3, and 0.113 mg/m3. It did not appear the contractor painted these trenches thoroughly due to the concrete in them being soft and deteriorating from water damage over the years.

March 27, 1998

Galson contacted Trade Winds and LIRR System Safety personnel and informed them of the post-paint clearance sample failures. LIRR System Safety will direct Galson and Trade Winds as to further actions to be taken to clear this facility for reoccupancy. The building is not cleared for re-occupancy by LIRR personnel.

April 1, 1998

Galson conducts direct-read ambient sampling with the Jerome MVA in the SW and center rectifier pit trenches. This sampling was requested by LIRR System Safety department. The readings were 0.242 mg/m3 and 0.162 mg/m3. These results are higher than the clearance sampling and post-paint sampling results. This is reported to LIRR System Safety.

April 22, 1998

Galson (Hobart Van Deusen), Trade Winds, and LIRR System Safety perform inspection at the substation to determine what can be done to obtain clearance air levels in the facility. The contractor had returned to the site before this visit to cover floor drains and pipe openings in each trench to help reduce mercury vapor levels from building up in them when they are covered with the steel plate. Galson collects several direct-read air samples both the SW rectifier pit trench and the center pit trench. Readings at the SW pit trench ranged from 0.003 mg/m3 to 0.903mg/m3. Readings at the center pit trench ranged from 0.021 mg/m3 to 0.224 mg/ra3. The readings dropped quickly when the steel plate covers were removed. The highest readings were found when the MVA probe was poked through the plastic covering the floor drains and pipe openings. All parties agreed that additional painting of the pit trenches needed to be done once the loose concrete was removed. In addition, the floor drains and pipe openings needed to be recleaned and sealed with rubber "J-plugs" until further remediation could be planned and executed.

May 8, 1998

Galson (Adrian Salmon) returns to perform direct-read <u>post-paint</u> <u>air sampling</u> at the site with the Jerome MVA again. Trade Winds has performed all work as listed on the April 22, 1998 entry. (23) samples were collected throughout the facility. Only two readings were at or above the 0.025 mg/m3 clearance criteria. These were 0.025 mg/m3 and 0.027 mg/m3 at the center rectifier pit trench. Galson cleared the facility for re-occupancy by LIRR personnel. One sample was only slightly above the 0.025 mg/m3 clearance criteria set by Galson, but still well below the regulated limit of 0.050 mg/m3 set by OSHA and NYSPESH.

May 22, 1998

Galson (Hobart Van Deusen) returns to site to collect direct-read confirmation samples at the site with the Jerome MVA. (10) ambient samples collected throughout the facility in the breathing zone level ranged from 0.010 rag/m3 to 0.018 mg/m3. (3) readings collected at the partially oper. SW pit trench ranged from 0.016 mg/m3 to 0.018 mg/m3. 15 minutes after replacing the steel trench plates, the three readings ranged from 0.023 mg/m3 to 0.025 mg/m3. (3) readings collected at the partially open center pit trench ranged from 0.019 mg/m3 to 0.024 mg/m3. 15 minutes after replacing the steel trench plates, the three readings ranged from 0.022mg/m3 to 0.024 rng/m3. An LIRR worker recently washed the floors down with an ammonia based glass cleaner. This could possibly have accounted for the elevated readings. A reading collected at the opening to the glass cleaner bottle was 0.018 mg/m3. The manufacturer of the Jerome MVA confirmed by telephone that cigarette smoke and ammonia can cause elevated readings with the MVA.

DEFICIENCIES:

Rectifier pits and main floor flood during heavy rains due to poorly sealed doors, windows, & and openings. No basement chambers in the facility. Floor drains and pipe openings found in trenches next to rectifier pits only. These were sealed with rubber "J-plugs".

8.02 Hempstead Substation:

March 23, 1998 - March 24, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There are no basement chambers at this site. Only one rectifier pit 3-4 feet deep. Contractor begins gross cleaning of the work areas. Neutralizing of work area surfaces started as well.

March 25, 1998

Contractor has completed gross cleaning and neutralizing of the work areas. Galson performs visual inspection of the work areas. Some areas with visible mercury still present. The contractor cleans these locations up immediately at Galson's direction. Galson passes the work areas upon reinspection for clearance air sampling on 3/23/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site.

March 26, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.017 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor can begin painting floors, cable trenches, etc. with epoxy paint.

March 31, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.022 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

No basement chambers in the facility. Floor drains and pipe openings found in trenches next to rectifier pits only. These were sealed with rubber "J-plugs".

8.03 Port Washington Substation:

March 26, 1998 - March 30, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. Contractor performs gross cleaning of the main floor work area. Neutralizing of main floor work area surfaces completed. Contractor begins gross cleaning of basement chambers.

March 31, 1998 - April 1

Contractor completes gross cleaning of the basement chamber work areas. Neutralizing of the basement chamber work areas surfaces completed as well. Galson performs visual inspection of the work areas. Some areas with visible mercury still present. The contractor cleans these locations up immediately at Galson's direction. Galson passes the work areas upon reinspection for clearance air sampling on 4/2/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site.

April 2, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 43 lX Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.011 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor can begin painting floors, cable trenches, etc. with epoxy paint.

April 6, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson (Hobart Van Deusen) performs direct-read post-paint clearance air sampling utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.005 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

Water leak through conduit pipes in South basement chamber under Rectifier #2. Similar to Babylon Yard substation. Basement chambers do have floor drains. All drains are sealed with plastic sheeting and duct tape.

8.04 Meadow Brook Substation (Emergency Mercury Spill Clean-up):

March 31, 1998

Galson is informed by LIRR personnel that the Meadow Brook substation had a power surge and one of the mercury relay switches had broken and spilled mercury onto the main floor. Galson went to the site to perform a visual inspection of the situation and to collect direct-read ambient air samples. A 4inch by 4-inch puddle of mercury was observed on the floor in front of the relay switch panel during Galson's visual inspection at the site. A 3-4 foot deep pit was located under this panel, but no visible mercury contamination was observed by Galson. This pit will be cleaned as well as a precautionary measure. The contractor will have difficulties cleaning the pit under the relay switch panel as there are a lot of cables running into it. Galson performs direct-read ambient air sampling utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). Samples are collected in the breathing zone level on the main floor and in the relay switch panel pit. Readings ranged from 0.011 mg/m3 to 0.024 mg/m3 on the main floor, and the one reading collected in the pit was 0.079 mg/m3. LIRR personnel and Trade Winds are contacted and informed of Galson's observations and readings. Trade Winds is scheduled to have a crew on-site Thursday, April 2, to perform clean-up operations.

April 2, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. Contractor performs gross cleaning and neutralizing of the floor and pit areas under the relay switch panel. Direct-read ambient air samples collected during the clean-up operations ranged from 0.012 mg/m3 to 0.017 mg/m3.

DEFICIENCIES:

No Deficiencies Noted.

8.05 Massapequa Substation:

April 2, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. This substation does not have any basement chambers. There is a 3-4 foot deep pit under the rectifier and two smaller pits/trenches. Contractor begins gross cleaning of the work areas.

April 3, 1998

Contractor has difficulties running his generator today. Cleanup activities delayed. Gross cleaning continues today. Contractor has difficulties reducing elevated levels of mercury vapors from the two smaller pit areas. These are the NW pit and the SE pit. Both pits were cleaned thoroughly. A drain located in the NW pit and will be cleaned again. Contractor neutralizes the pits as well. Both pits are covered with plastic sheeting and sealed with duct tape at the end of the shift to prevent mercury vapor levels from increasing in the facility.

April 6, 1998

Contractor continues gross cleaning of the facility. Galson is now represented by Hobart Van Deusen.. The plastic covers on the pits are removed. The NW pit is recleaned and "merc-sorb" is used on the walls of the NW pit and the rectifier pit to remove very small beads of mercury observed by Galson. The SE pit is recleaned as well. Contractor has re-neutralized all work surfaces. Galson performs visual inspection of the work areas. Some areas with visible mercury still present. The contractor cleans these locations up immediately at Galson's direction. Galson passes the work areas upon reinspection for clearance air sampling on 4/8/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site.

April 8, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.003 mg/m3 to 0.014 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint.

April 13, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings on the main floor and in the rectifier pit ranged from 0.000 mg/m3 to 0.006 mg/m3. Readings in the NW pit ranged from 0.121 mg/m3 to 0.385 mg/m3. Readings in the SE pit ranged from .0.048 mg/m3 to 0.052 mg/m3. The steel covers were on the pits when they were sampled. LIRR personnel are informed not to open the pits until further notice.

April 13, 1998

Otherwise they can re-occupy the main floor. Galson informs Trade Winds and LIRR System Safety department of the high readings and awaits direction from LIRR for further action.

April 22, 1998

Galson meets with Trade Winds and LIRR System Safety personnel at the site to discuss the actions to be taken with the SE pit and NW pit to reduce the mercury vapor levels the clearance criteria level of 0.025 mg/m3. Galson collects direct-read air samples in each pit with the Jerome MVA. The NW pit reading was 0.075 mg/m3 with the pit cover on. The SE pit reading was 0.068 mg/m3 with the pit cover on. Contractor is directed to plug/cap six pipe/drain openings of various sizes in the NW pit. The NW pit will also have concrete applied around a rough opening around a pipe protruding from the West wall of the pit. They are also directed to plug/cap one opening in the SW pit. The SW pit will also have concrete applied around a rough opening at a water pipe in the pit as well. Once these actions are done, Galson will re-sample the substation.

May 8, 1998

Galson (Adrian Salmon) returns to site to perform a second round of direct-read post-paint clearance air sampling utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.028 mg/m3. All readings were below the clearance criteria of 0.025 mg/m, except for the four samples collected in the NW pit. These samples ranged from 0.027 mg/m3 to 0.028 mg/m3. Galson cleared the facility for re-occupancy by LIRR personnel. The four samples were only slightly above the 0.025 mg/m3 clearance criteria set by Galson, but still well below the regulated limit of 0.050 mg/m3 set by OSHA and NYSPESH.

May 22, 1998

Galson (Hobart Van Deusen) returns to the site to collect direct-read confirmation ambient air samples with the Jerome MVA. (6) ambient readings were collected throughout the main floor of the facility in the breathing zone. The readings ranged from 0.000 mg/m3 to 0.003 mg/m3. (3) samples were collected in the SE pit after the trench plates were placed back on the pit. The readings ranged from 0.009 mg/m3 to 0.012 mg/m3. (3) samples were collected in the NW pit after the trench plates were placed back on the pit. The readings ranged from 0.013 mg/m3 to 0.014 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

No Deficiencies Noted. No basement chambers in the facility. Floor drains and pipe openings found in pits/trenches. These were sealed with rubber "J-plugs" or metal caps.

8.06 Island Park Substation:

April 15, 1998 - April 17, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. Contractor performs gross cleaning of the main floor work areas and basement chambers. Neutralizing is started as well.

April 20, 1998

Gross cleaning of the work areas is complete. Main floor and basement chambers have been neutralized as well. Galson performs visual inspections of the main floor and basement chamber work areas. Several areas with visible mercury still present. The contractor cleans these locations up immediately at Galson's direction. Galson passes the work areas upon reinspection for clearance air sampling on 4/21/98. Contractor wet mops neutralizing agent from work area surfaces. Contractor demobilizes clean-up equipment from site.

April 21, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. Readings on the main floor ranged from 0.000 mg/m3 to 0.006 mg/m3. Readings in the West basement chamber ranged from 0.016 mg/m3 to 0.036 mg/m3. Readings in the East basement chamber ranged from 0.024 mg/m3 to 0.043 mg/m3. All samples on the main floor were below the 0.025 mg/m3 clearance criteria. Trade Winds and Galson re-inspect basement chambers and find very small beads of mercury clinging to the cables under the rectifiers. The contractor wipes down the cables again and revacuums the basement floors as well. The contractor is permitted to begin painting of the main floor work area as the readings

were below the 0.025 mg/m3 clearance criteria. Galson performs a second round of direct-read clearance air sampling in the basement chambers with the Jerome MVA. Readings (5) in the West basement chamber ranged from 0.011 mg/m3 to 0.018 mg/m3. . Readings (5) in the East basement chamber ranged from 0.027 mg/m3 to 0.039 mg/m3. Readings are collected in a sump pit located between the two basement chambers. Readings range from 0.075 mg/m3 to 0120 mg/3. There is 4-6" of stagnant water in the pit, but know visible mercury debris. Galson and Trade Winds suspect this pit is the source of the elevated readings in the basement chambers. The contractor seals the pit with plastic sheeting and duct tape and will paint the floor surfaces in the basement chambers today. LIRR System Safety department is informed of the actions taken. Contractor plans on pumping the water out of the sump pit tomorrow and put it into a waste drum for disposal. Galson will collect clearance air samples again as well.

April 22, 1998

Contractor has pumped the water from the sump pit and placed it into a waste drum. The pit is cleaned and neutralized as well. Pit is resealed with plastic sheeting and duct tape. Galson could not perform clearance sampling in the basement today because the contractor began painting the floor surfaces in the basement chambers after cleaning the sump pit and before Galson arrived on-site. Galson will return to the site tomorrow for post-paint clearance air sampling.

April 23, 1998

Galson returns to site to perform direct-read <u>post-paint clearance air sampling</u> utilizing the Jerome MVA. Adrian Salmon, of Galson, is on-site as well for crientation to the job. (20) samples are collected in the breathing zone level throughout the facility. Readings ranged from 0.000 mg/m3 to 0.028 mg/m3. All readings were below the clearance criteria of 0.025 mg/m, except for one sample collected in the West basement chamber. This sample was 0.028 mg/m3. Galson cleared the facility for reoccupancy by LIRR personnel. The one high sample was only slightly above the 0.025 mg/m3 clearance criteria set by Galson, but still well below the regulated limit of 0.050 mg/m3 set by OSHA and NYSPESH. One reading was collected in the sealed sump pit. The reading was 0.203 mg/m3. The pit is resealed and LIRR System Safety department is notified. Further remediation may be necessary.

DEFICIENCIES:

Large entrance doors don't seal weather-tight. Building slab is severely cracked and is partially subsiding. The building is sheathed in corrugated asbestos cement panels with many holes and openings. The basement sump pit was sealed with plastic sheeting and duct tape. The sump pit may need further remediation.

8.07 Shea Substation:

April 23, 1998

Trade Winds mobilizes to site. The building is in poor structural condition. It is sliding off its foundation and the slab is cracked. Decontamination area set-up. There are no basement chambers. There is a 3-4 foot deep pit under the rectifier. Visible mercury is found on the ground outside the facility's entrance door. Ventilation machines are set-up and running. Galson is represented by Adrian Salmon. Contractor begins gross cleaning of the main floor work area.

April 24, 1998 - April 28, 1998

Contractor continues gross cleaning of the facility. They are have very difficult time cleaning large cracks in the floor slab. MVA readings exceed 0.300 mg/m3 in some cases in these cracks. Some cracks almost 5 feet deep. LIRR System Safety department recommends to contractor to seal larger cracks with cement, and the smaller cracks with silicone sealant after they have been cleaned as much a s possible. One mercury-vacuum breaks down and slows progress (4/24/98). Neutralizing is done to keep mercury vapor levels down. Removal of mercury and contaminated soil outside front entrance is performed (4/28/98). removal of soil is stopped after contractor removes soil to a depth of two feet and still encounters mercury. LIRR System Safety department arrives on-site and is informed of situation. LIRR will contact NYSDEC and request a site visit from them to assess the situation. The "hot spot" is covered for the night.

April 29, 1998

NYSDEC spill manager, Anthony Sigona, is on-site. He inspects site and recommends ballast be placed in the area dug by the contractor yesterday and to cap it with cement. Galson performs visual inspection of the work area. No visible mercury is observed. The contractor passes the visual inspection. The contractor seals cracks in slab with cement and silicone. No painting will be performed at this site as it is slated for demolition. Galson will perform clearance air sampling on 4/30/98.

April 30, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) direct-read samples are collected in the breathing zone level throughout the facility, except for the pit below the rectifier. All readings were below the 0.025 mg/m3 clearance criteria, except for (3) readings in the pit East of the rectifier pit. These readings ranged from 0.024 mg/m3 to 0.030 mg/m3. (4) samples are collected in the rectifier pit. All readings were over 0.050 mg/m3. Galson informs LIRR System Safety department of these elevated readings. LIRR will direct the contractor to reclean and neutralize the two pits. Galson will collect a second round of clearance air samples once this is completed.

May 6, 1998

Contractor has recleaned and neutralized both pits. They have also sealed/plugged all inoperable pipes and openings in the pit East of the rectifier. Additional cracks in slab are sealed as well. location. Direct-read air samples are collected indoors. Readings ranged from 0.003 mg/m3 to 0.006 mg/m3. Galson will collect a second round of clearance air samples on 5/8/98.

May 8, 1998

Galson performs second round of direct-read clearance air sampling utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (17) direct-read samples are collected in the breathing zone level throughout the facility. (10) ambient readings on the main floor ranged from 0.000 mg/m3 to 0.006 mg/m3. (3) samples collected in the pit East of the rectifier pit ranged from 0.006 mg/m3 to 0.011 mg/m3. (4) samples collected in the rectifier pit ranged from 0.000 mg/m3 to 0.005 mg/m3. (4) direct-read samples collected in the exterior of the building at the front entrance ranged from 0.003 mg/m3 to 0.006 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is cleared for re-occupancy by LIRR personnel.

May 26, 1998

Galson (Hobart Van Deusen) returns to the site to collect direct-read confirmation air samples with the Jerome MVA. Galson collects (25) readings at the breathing zone level throughout the facility. The readings ranged from 0.009 mg/m3 to 0.023 mg/m3. All samples were below the 0.025 mg/m3 clearance criteria. The building is still cleared for re-occupancy by LIRR personnel.

DEFICIENCIES:

The building is sliding off its foundation and the slab is cracked. Visible mercury contamination in soil outside the facility.

8.08 Manhassett Substation:

May 1, 1998 to May 4, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There are no basement chambers at this site. Only rectifier pit 3-4 feet deep. Visible mercury was observed outside the entrance to the facility in the soil by the entrance doors. LIRR System Safety department is informed of this. Contractor performs gross cleaning of the work areas. Contaminated soil is removed and placed in waste drums.

May 5, 1998

Gross cleaning of the work areas is completed. Neutralizing of the work areas is completed. Workers have also plugged/capped pipe openings in pit south of the rectifier pit. Galson performs visual inspection of the work areas. No visible mercury is observed. Galson passes the work areas for clearance air sampling on 5/6/98. Contractor wet mops neutralizing agent from work area surfaces

May 6, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (25) samples are collected in the breathing zone level throughout the facility. All readings were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Contractor begins painting floors, cable trenches, etc. with epoxy paint.

May 8, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read <u>post-paint</u> <u>clearance air sampling</u> utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. All samples were below the 0.025 mg/m3 clearance criteria, except for four readings collected in the pit South of the rectifier pit. The (4) readings ranged from 0.089 mg/m3 to 0.111 mg/m3. These samples were collected with the trench lid on. The contractor will be directed to correct the situation by LIRR System Safety department. (5) direct-read ambient samples are collected outside the facility over the soil at the front entrance. Readings ranged from 0.003 mg/m3 to 0.006 mg/m3.

May 12, 1998

Contractor recleans and neutralizes the pit South of the rectifier pit. Trade Winds supervisor informs Galson he observed large amounts of mercury sitting at the bottom of the drainage ditch filled with water outside the facility. Cialson and Trade Winds walk the drainage ditch that runs to the West of the substation. Mercury is observed up to 55 feet away from the substation in the ditch. LIRR System Safety department is notified immediately. LIRR System Safety department notifies NYSDEC immediately. Contractor is directed to wet-vacuum any visible mercury in the drainage ditch. They do so. NYSDEC will be on-site tomorrow to assess the situation.

May 13, 1998

Galson collects direct-read ambient samples from the pit South of the rectifier pit. The (4) readings ranged from 0.109 mg/m3 to 0.110 mg/m3. Samples collected with the lid on. (4) readings collected with the lid off ranged from 0.003 mg/m3 to 0.007 mg/m3. Contractor is directed to remove the foam pipe insulation on pipes located in the pit. Galson will resample the pit on 5/14/98. Galson performs another visual inspection of the drainage ditch. No visible mercury is observed beyond the 50 foot distance from the substation. Contractor continues wet-vacuuming of the mercury in the drainage ditch areas closer to the substation. Walter Parish, of the NYSDEC performs site visit to assess the situation. NYSDEC, Galson, and LIRR walk the ditch and assess the situation. Mr. Parish recommends LIRR place hay bales in the ditch as filtration for any mercury moving down the ditch. They are to be placed at least 70 feet away from the substation. He will also give additional instructions to LIRR later in the week.

May 14, 1998

The contractor has removed the foam pipe insulation in the pit. He has also repainted the pipes with epoxy paint from which the insulation was removed. Contractor is also wet-vacuuming the drainage ditch and removing contaminated soil. Galson (Hobart Van Dausen) performs several direct-read air sampling episodes in the pit South of the rectifier pit. Both with the covers on and covers off. The majority of the readings were over 0.025 mg/m3. The covers will be left off the pit to allow it to ventilate and the paint to dry thoroughly. LIRR System Safety personnel have staked hay bales in the drainage ditch to act as filtration for the mercury until further remedial actions are taken.

May 22, 1998

Galson returns to the site to collect direct-read clearance air samples with the Jerome MVA. (4) readings collected throughout the facility at the breathing zone level were all 0.000 mg/m3. (4) readings collected at the SE pit (south of rectifier) ranged from 0.000 mg/m3 to 0.003 mg/m3 with the covers off. The covers were placed back on and the SE pit was re-sampled through small openings 15 minutes later. The (4) readings ranged from 0.024 mg/m3 to 0.031 mg/ m3. This sequence is repeated twice more with similar results. Galson will recommend that open grates be placed over the pit or that it should be filled with clean sand or with concrete. LIRR System Safety department is informed of the readings and recommendations. The main floor is cleared for reoccupancy by LIRR personnel. They are informed not to perform work in the pit until further notice. Contractor demobilizes cleanup equipment from site.

DEFICIENCIES:

Large entrance doors don't seal weather-tight. No basement chambers in the facility. Pipe openings found in pits/trenches. These were sealed with rubber "J-plugs" or metal caps.

8.09 Inwood (Far Rockaway) Substation:

May 7, 1998 - May 8, 1998

Trade Winds mobilizes to site. Decontamination area set-up. Ventilation machines are set-up and running. There are no basement chambers at this site. Only rectifier pit 3-4 feet deep. Ambient direct-read air samples of the soil outside the entrance to the facility by the entrance doors reveals readings of 0.039 mg/m3 to 0.257 mg/m3. Very small pieces (possibly) of visible mercury observed in soil. LIRR System Safety department is informed of this. Contractor performs gross cleaning of the work areas

May 11, 1998

Contractor completes gross cleaning and neutralizing of the work areas. Small cracks and holes in the floor slab are sealed with cement. Galson performs visual inspection of the work areas. No visible mercury is observed. Galson passes the work areas for clearance air sampling on 5/12/98. Contractor wet mops neutralizing agent from work area surfaces.

May 12, 1998

Galson performs direct-read <u>clearance air sampling</u> utilizing a Jerome 431X Mercury Vapor Analyzer (MVA). (20) samples are collected in the breathing zone level throughout the facility. All readings were below the 0.025 mg/m3 clearance criteria. The facility is cleared for re-occupancy and painting. Prior to painting, the contractor seals a hole located in a small pit on the West wall of the facility with cement. Contractor begins painting floors, cable trenches, etc. with epoxy paint.

May 14, 1998

Contractor has completed applying two coats of epoxy paint to work area surfaces. Galson performs direct-read post-paint clearance air sampling utilizing the Jerome MVA. (20) samples are collected in the breathing zone level throughout the facility. All samples were below the 0.025 mg/m3 clearance criteria, except for readings collected in the SW pit and the NE pit by the rectifier. The (4) readings in the SW pit ranged from 0.085 mg/m3 to 0.265 mg/m3. The (4) readings in the NE pit by the rectifier ranged from 0.017 mg/m3 to 0.131 mg/m3. The paint in the SW pit was not completely dry and the covers were left on overnight. There was also a small pipe opening that may need plugging. The paint in the NE pit was not completely dry and the covers were left on overnight. LIRR System Safety department and Trade Winds are notified of the readings. The contractor will be directed to correct the situation by LIRR System Safety department.

May 22, 1998

Galson performs second round of direct-read post-paint clearance air sampling utilizing the Jerome MVA. Numerous samples are collected in the breathing zone level throughout the facility. (5) ambient samples throughout the facility ranged from 0.005 mg/m3 to 0.009 mg/m3. (3) readings at the open NE pit ranged from 0.018 mg/m3 to 0.030 mg/m3. (3) readings collected in the SW closed pit ranged from 0.127 mg/m3 to 0.166 mg/m3. (2) additional samples were collected at a pipe opening at the bottom of the NE pit. They were 0.084 mg/m3 and 0.049 mg/m3. (3) additional samples were collected at the SW pit with the covers off. The readings ranged from 0.050 mg/m3 to 0.063 mg/m3. The paint was still damp in each pit as the covers were left on overnight. Galson will recommend that the foam pipe insulation be removed from the pipe in the NE pit, and that the pipe opening in the bottom of the NE pit is sealed with cement. Also, the paint should be allowed to thoroughly dry prior to resampling.

May 22, 1998

LIRR System Safety department is informed of these readings and recommendations. The main floor is clear for re-occupancy by LIRR personnel as all readings were below the 0.025 mg/m3 clearance criteria. LIRR personnel will be advised not to perform any work in the two pits until further notice.

DEFICIENCIES:

No basement chambers in the facility. High mercury vapor readings recorded outside entrance to facility form the soil. Very small pieces (possibly) of visible mercury observed in soil.

8.10 Cedar Manor Substation (Visual Inspection and Air Sampling Only):

May 7, 1998

Galson (Adrian Salmon) performs visual inspection and direct-read ambient air sampling with the Jerome MVA at this facility. This is requested by LIRR System Safety department to confirm whether mercury contamination is present at this facility. All trenches, pits, basements, floors, and exterior areas are inspected. Visual inspection of the facility, both indoors and outdoors, revealed no visible mercury contamination. Direct-read ambient air samples ranged from 0.000 mg/m3 to 0.003 mg/m3 throughout the facility. All readings were below the clearance criteria of 0.025 mg/m3. Galson informed LIRR System Safety department of these findings.

8.11 Valley Stream Substation (Visual Inspection and Air Sampling Only):

May 7, 1998

Galson (Adrian Salmon) performs visual inspection and directread ambient air sampling with the Jerome MVA at this facility. This is requested by LIRR System Safety department to confirm whether mercury contamination is present at this facility. All trenches, pits, basements, floors, and exterior areas are inspected. Visual inspection inside the facility revealed no visible mercury contamination. Visual inspection outside the facility revealed visible mercury contamination in the soil directly outside the front entrance to the facility. Direct-read ambient air samples collected directly over the soil ranged from 0.258 mg/m3 to 0.521 mg/m3. Ambient readings were collected throughout the inside of the facility at the breathing zone level. These readings ranged from 0.000 mg/m3 to 0.006 mg/m3. Another reading collected at a 4" pipe opening in the trench next to the rectifier was 0.198 mg/m3. This pipe appeared to be inoperable. Galson informed LIRR System Safety department of these findings.

9.0 Conclusions

Galson found the remediation contractor, Trade Winds, to be in substantial compliance with all applicable federal, state, and local regulations in regards to the removal and disposal of mercury contaminated debris and water. The contractor also paid special attention in protecting the health and safety of their own employees, Galson Corporation's personnel, LIRR personnel, and the general public.

Further remedial actions may be necessary at the substation locations with floor drains, sump pits, and outdoor mercury contamination. These locations have been sufficiently safe guarded until future remediation plans can be made, and implemented.

Appendix A

Galson's Project Personnel

Galson

Project Personnel

Name: <u>Title:</u>

Matt Meldrim Project
Hobart Van Deusen Project
Craig Stiles Indust
Tom Ten Eyck Indust
Adrian Salmon Indust

Project Manager
Project Manager/Industrial Hygeine Technician
Industrial Hygiene Technician
Industrial Hygiene Technician
Industrial Hygiene Technician

Appendix B

Waste Drum Count By Site

Mercury Clean-up Waste Drum Count by Site

Long Island Rail Road

Site Name:	No. of Waste Drums Solids:	No. of Waste Drums Water:
Little Neck	10	17
Bayside	4	0
Bellaire	7	0
Lindenhurst	9	0
Rockville Center	18	3
Nassau Blvd.	3	0
Babylon Yard	11	0
Floral Park	3	0
Hempstead	2	0
Port Washington	4	0
Massapequa	2	0
Meadow Brook (Emergency Clean-up)	Waste Bags from this small clean-up were placed in waste drums at Manhasset Substation	0
Island Park	2	1
Shea	7	0
Manhasset	5	0
Inwood (Far Rockaway)	2	0

Appendix C

Waste Characterization Laboratory Analysis Results



Hawthorne, NY 10532

Attn : Mr. Rye Van Deusen

Account #

: 12262

Laboratory No. : L41748

Report Date : 03/09/98

SAMPLE INFORMATION

Sample Date

Site

: 03/04/98

: LIRR/Little Neck Substation

Date Received : 03/05/98

Matrix : Water

		Mercury SW846 7470A	
CLIENT ID	LAB#	mq/l	2000 P. S.
LN-DRUM-1	1	2.2	
LN-DRUM-2	2	0.11	
LN-DRUM-3	3	1.7	
LN-DRUM-4	4	0.013	
LN-DRUM-5	5	0.16	
LN-DRUM-6	6	0.54	
LN-DRUM-7	7	0.83	
LN-DRUM-8	8	0.011	
LN-DRUM-9	9	1.3	
LN-DRUM-10	10	0.0078	
LN-DRUM-11	11	3.4	
LN-DRUM-12	12	5.0	
LN-DRUM-13	13	6.6	
LN-DRUM-14	14	1.2	
LN-DRUM-15	15	12	
LN-DRUM-16	16	1.4	
LN-DRUM-17	17	9.2	
Method Blank	1	< 0.0002	

Approved by : Karen S. Becker Date : 03/09/98 QC by

Footnotes:

Date :

NYS DOH # : 11626

	-										
Golcon	Company Name	Turn-Around Time Standard Service 5	DAYS)		Pag	e	L	of _	<u>L</u>		
Galson	Galson Corp.	- Standard Service			PARAI	METE	RSF	OR AI	NALY	SIS	_
Laboratories	D AND AND A	Date requested by:									
6601 Kirkville Road East E. Syracuse, New York 13057	* = 00 1 05 17166 d	l 6Ph#() <u>−</u> _ <u>−</u>		12	`						
315-432-0506 or 800-950-0506	TIRR 95H366, C	Fax# (14) - 347= 2195	<u> </u>	$ \lambda $							
Send Report to: Rye Van De	Send Invoice to:	Julie W.		7							
				ادلا							
				<							
	ate Time G Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q			<u>_</u>							
SAMPLE ID D	ate Time TYPE % C	hain of Custody F	Record	10							
/A	Some State of the	ahoratory ID	Number								
# LN- DRun -1 34	1-78 1-00 X X (ia) son (Comporations Maul hornes	1.41740 - 1	X				₩	\$0. E-155		約
LN-DRUM - 2 1		verniges Consistant has come.	8.1 Tr 188.25	X			<u>Nalab</u>	<u>3 + 1 51 </u>	5.1 (d.)	17,33981	7
LN-DRUM-3	Saleon t	Torporation-Hauthorne	1.41748-3								
	A Golson of	Corporation-Hauthorns	1 410 40 4	X		141.36					
LN-DRUM-4		Comporation-Hawthorne									
LN-Drum-5		Corporation Hauthurn									9.000
LN-DRUM-6	<u> </u>					0000000				8 88.888	
LN-DRUM-7	1 1 1	rangen (d. 1920). Other in November 1994. Principal State (Mariet Francis). 1994.								4	
LN-DRUM-8	1 11	Corporation Handhorne		'\		3.4030.00	100000000000000000000000000000000000000	36686 6.66	333 1006.46	S 200 2 20	10000
LN-DRUM-9				*							
LN-DRUM-10	Lie Laun I	Corporal Low Hamiltonne	1 (1 " 12 - 10	X							
LN-DRUM-11	Calson C	orporation-Hawthorne I	147/18-11	<u> X </u>							
LN-DRUM-12	A A A A		(1)	X							
REMARKS:	00,70579	3 Water LIN-DEUG i		Tota	ıl Con	taine	ers -				
* Collected	at L.I.R Litt	He Neck Substation	on .			-					
	Basil ()	The state of the s									
		1 -				_					
SAMPLER'S NAME: H.R. Vein DE	eusen signature:	12/1/1/1/1/		_							
SAMPLES RELINQUISHED BY		S RECEIVED BY:	Custody S	eal Inta	act? Sa	mple	<u>ر</u>	es [□No	KN	 I.A.
NAME: Hobert R. Van Dewlen DATE		DATE:	Shipment				K V		□ No		
SIGNATURE: TOTAL TIME:	Fom SIGNATURE:	TIME:	Temp		 ° C	TS	TE		ГМ		
NAME: DATE: SIGNATURE: TIME:	SIGNATURE:	DATE: TIME:									
NAME: DATE:		y By: DATE: 3-3-96 TIME: 1015	Airbill #	Air	אינטיל -						

	_,									_										
Calcan	Company	Name				Turn-Ar	ound Time tandard Ser	. (4	5 DAYS	-		P	age	2	, 	of	Z			
Galson	Galso	ch	(0	ςρ,		[2] - Si	tandard Ser Rush Servid	rvice				PAF	RAM	IETEI	RS F	OR	ANA	LYS	SIS_	
Laboratories	Project Na	me / Ni	umb	or		Date req	uested by:													
6601 Kirkville Road East E. Syracuse, New York 13057	LIRE	/	'		6-046	Ph# () <u>- ·</u>			(Œ	P'								
315-432-0506 or 800-950-0506		·up/	ار د س	V05	IEST	Fax # (9!	4) -347	- 2195	<u>5 </u>		16									
Send Report to:		-/-	Se	end Inv	voice to:	' -	Julie	U.			3									
						- -					Je Ca									
			•		P () #						1									
					1 .O. # .		_				-									
CAMPLEID	A. Time -	TYPE	sus I	ı	Cł	nain o	f Cust	ody	Reco	ord	1									
SAMPLE ID Da	ate Time	Comp.	dnec	g g	La	boratory	10		Num		1									
				_	-					-	E zec	.m. 95-19	<u>।</u> १८१५ •	• s i i	dvicu	. Prima		883.1		384
	1-18 9 Am	X	Z	$\{i_i, j\}$	sain ta'	derogn	kur Havit	horne	: L11/5	8 IJ.	X	19050		<u>. 45, 54 .</u>	<u> </u>	-49 js l				<u> 1997, B</u> A
LN-DRWN-14	300000000000000000000000000000000000000		ļĻ.	Ga (> 07) (A	Grpora*	ion Dawl	l hor ne	e Lili	181 13	X	351.74.0	SSS 21 0	144411	7813.55			*******		Sec. of
LN-DRUM-15			(7741 - 7	Y(1, 1 - 15 ₁)	poratio	motionath	carro 1	1 31 (45)	1 1	X.									
LN-DRUM -16				Gal:	on Cor	rporati	on Hawth	marne	La1/a)	C 100 _	X		.						1	
LN-DRUM-17 5	7 7	7	V	Gal	on Co	rporati	on Hawt	hov na	[31 4	ρ 17 🎚	X									
				0;.,) / 44	Mail err	11:	01/1/11	1											
													1	abla	7					derin.
						$\succ \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$				1		لمستسا			$ egthinspace{1.5em}$					
			186113	ر ا						<u> </u>	$ egthinspace{2mm}$			305595	2000	\forall		*****	\$8198861	<u>8687</u> 2
					-												\rightarrow			
			$\leq\downarrow$					$\succ \leftarrow$					\geq	$\prec +$				\triangle	\leftarrow	
				\nearrow	<u> </u>				_		000000000		*****	\supseteq					\supseteq	- No.
REMARKS:					<u> </u>					<u>` </u>	Tot	al C	ont	aine	rs -	<u> </u>				
5ec 89	· \	_		_		_	_													
SAMPLER'S NAME: L. R. Van	Deus	25	SIG	NATUR	E: · <	#	FIZITY				_									
SAMPLES RELINQUISHED BY		Ĭ			AMPLES	RECEIV	ED BY:		Cu	stody Se	eal In	tact?	Sam	ıple		Yes	□ ∧	Vo	N.	<u>.A.</u>
	3-4-48	NAME	 F:				DATE:			ipment C						Yes	□ ^	Vo		
SIGNATURE: TIME:	ten	SIGN	<u>IATU</u>	RE:			TIME:_			mp		°C	Т	īs	T	В	TM			
NAME: DATE: SIGNATURE: TIME:	:	NAME SIGN.		RE:			DATE: TIME:		<u> </u>	···P		- <u> </u>								
NAME: DATE SIGNATURE: TIME:		Recei	ived	For إ	aboratory	By:	DATE:	3-5-55	Air	bill #	Air	hern	ı							
I SIGNATURE:		I /Siana	ature I		〜 / ハー		I IIVIE.	10/1												



10 Skyline Drive Hawthorne, NY 10532

Attn : Mr. Rye Van Deusen

Account # : 12262

Laboratory No. : L41750
Report Date : 03/09/98

SALTLE INFORMATION

Sample Date

: 03/04/98

Date Received : 03/05/98

Site

: LIRR/Rockville Center SS

Matrix : Water

		Mercury	
CLIENT ID	LAB#	SW846 7470A mg/l	
	•		· ···· · ···
RVC-DRUM-1	1	0.80	
RVC-DRUM-2	2	4.2	
RVC-DRUM-3	3	8.4	
Method Blank	1	< 0.0002	

The second secon

Approved by: Karen S. Becker Date: 03/09/98 QC by : E Date: 3/10/48

Footnotes:

NYS DOH # : 11626



Galson	Company Name	Turn-Around Time - Standard Service 5 DA	15)		Pag	_	of	_==		
Laboratories	Galson Corp.	- * Rush Service	/		PARAN	/ETE	RS FO	ANA F	LYSIS	3
1 🔾	Project Name / Number	Date requested by:								
E. Syracuse, New York 13057	Project Name / Number LIRP. / SH3GGONE He, Clean-up / Exps / EST ASSOCIATION Sound Imprises to:	Ph# ()	\	(H2	$\sum $					
315-432-0506 or 800-950-0506	He, Clean-up/ Fxps /EST	Fax # (9/4) -347 - 2193		\downarrow						
Send Report to: Rye Van De	Send Invoice to:	Julie U.		CEM						
				Me						
SAMPLE ID Date	[e ɪˈme 윤 유 작 _ 호	nain of Custody Re	cord	tota						
EVC-DRUM-1 B-4	us 4:00 (C <mark>orporation Hauth</mark> eene L	11 150 1	X						
RUC-DRUM-2 3-4		Corporation-Hawthorne (11750 - 3	X						
RVC-DRUM-3 +	Galson Carlson	Corporation—Hawtherne i no Water PUC-DRHM	_14750+3 -							
					-					
				22200000				304 000 000 000 001 00	******	
								V		
						1				
				``	V					
REMARKS: * Collecte	ed at LIRR -	- Rockwille Center	_	Tota	l Con	l taine	rs •	<u> </u>		
1		Substation		20000000000	<u> </u>	***********	<u></u>		<u></u>	****
, , , , , , , , , , , , , , , , , , , ,	,									
SAMPLER'S NAME: A.R. Van De	MSEN SIGNATURE:									
SAMPLES RELINQUISHED BY:	SAMPLES	RECEIVED BY:	Custody Se Shipment C			mple	□ Ye.		10 J	W.A.
NAME: HAVE DEUS OF DATE: SIGNATURE: TIME:	7498 NAME: 74M SIGNATURE:	DATE: TIME:	Shipment C			_				
NAME: DATE: SIGNATURE: TIME:	NAME:	DATE: TIME:	Temp		°C	TS	TB	TM		
NAME: DATE: SIGNATURE: TIME:	SIGNATURE: Received For Lattoratory		Airbill #	AIR	7 de	1,				

Appendix D

Waste Shipment Manifests

A notation a barable and at the part of th

	UNIFORM HAZARDOUS Total WASTE, MANIFEST and to the meal of the mea	1. Generator's U		Doo	ument No.	2. Page 1	is not requ	in the shaded ired by Federal	tew.
Ē	Carron C. Largen B. W. L. (Ca. Bateman and	meeradass.			ंड : व्यक्तिकार्थ । संदर्भ के स्टब्स	oni si iser ja	cooy or ure of	Lass to solling	TEIC -
	eatment, storage of uspessar achieves	Cutter Mi	ALC: U. F. B.	13731 C 1	rating the l	NY	$\mathbf{B} = \mathbf{F}$	IN FR	
٠,	1 1 1 1 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Great Mec				B General	78 D 765		7
	4. Generator's Phone (718) 558-73		meravoj reien	LITTIE NE				en des antique	
b	Transporter 1 (Company Name): noiteunith						ersporter + JI	aminate Ha	444
٠.	Trade Plant Phylics		COCKE				ter & Ptions (255
1:	7. Transporter 2 (Company Name)	टबा. e l'enstditer it mo	8. US EPA ID	'Number''≥ ≊∺ as ed term en	rese numb:	E State 1	ensporter e 18	La Maria	**************************************
	9. Designated Facility Name and Site Address								
	ostant a Padiac , Passarch Cor	ಚಿತ್ರಗಳಿಗೆ	10. US EPA II	เสียง และ มีกิริส เปลี่ยง และ มีกิริส	ne, address		THE STATE OF		
1:	istante 261 East Avenue Castel								
	Brooklyn, NY 11211		HYPOA	91/78296	Ä		1953-2	233 Hall C	到
13	blightoseb ant ಕಾರ್ಟರ ೨೦೮೭ರ toethoo. ಟಿ.ಗ ಲಾಗ ಗಿನ್ನ ನ .11. US DOT Description (Including Proper Ship							nit was such	加克
G	Again Ro Fasto revirosmen	hatler boom		1 i omi 2	No.	Type	rantity W	Waste	No.
E'	Trestanting District Lead (Trestantes			AAG HAN	1757 1757	10	30 7	107.00	
E 4	ard to Till The Property of the State of dispose	nan consti ERG	£171	<u> ಪನಿಧ್</u> ಯಾಗ	016	Des Con	507	S IN	
Ä.	.b.mco 10. Waste Bay Lrowen	tally her	adrous	solid	sie N. A.	- A 01	70 Dies -	つ、説かっ	
Ö d	i noi and the Constitution Control		998)	ರ್ಷ-೫೦೮ ಅಕ	~ 10°	1	S	5009	Contract of the second
	S UK3877 POILT	Dist.	271	raci ci. vic n	025-	DE 97.	500 5	7	元章
¥	1350: and to the Office of information and ReguiPac			•	-	, <i>p</i>		PA	
•	Unangement and Subject Washington. अ ेर	20803.			1			STATE	77.
	d.		,512Th0601 10 7	acordent secti	72.00.41.3	on un algréti	a start w	:EPAA-ĈI	man's
			10.2	102 7 025 7	1.00,	9 : 180/8		20.00	-
				Arno edius	1 = 1	-	فأعتر الم	SIATE	
	J. Additional Descriptions for Materials listed	\bcive	(emengo	i.x (1,000 kil	M-Vatric	K. Handlin	Codes for M	astes Listed A	ove
	42.4		الله الله الله الله الله الله الله الله	y sign and the	N-Cubic M		3	C.M. Jards	
٠	similar into mation may be included here	ephone númbe a c	lesponsa lal	rea Eirergency	chegep to	alog aeine æ	gual shipmen	For Interest	EA 2
	on-The detection date of receive by Irana norter	रेड़े - पार्क वेटार - हो	bore (brisiliye	្រាខ្លាំង ភេទ្ធ ា ស្រា	teorden.	nctione designer	T 🙎 32 39	none sore	產星
Ì	15. Special Handling Instructions and Addition	al Information	371 g-	RUST SAN	S VAMP I ME NAME OF ME	No. 18 September 1	······································	Salara Salar	
		. DB LLL frm	ui maymai yu Ayyan	ายชาง ว นหม ี โอ	taemmuus. Tunniksee	FORK State C Victoria Linux		म्बन्धाः क्षेत्रसम्बद्धाः सन्दर्भागाः स्थापन	
	Frergancy contact:	rade-Hin	ån 516	755-4	000	e in a service of the		ne roman dene Salenda dine C	erset
		eggs kest				CONTRACTOR	د بحراسات و جعد	thautify ben fi	يديس
	16. GENERATOR'S CERTIFICATION: I here! classified, packed, marked and labeled, and are it	by declare that the co	ntents of this co	nsignment are for	ully and accur hway accordi	rately described	above by proper	r shipping name'a and national gover	nd are
	regulations and state laws and regulations.		4-			.T ~ Y5	** ** * **	រ មានស្រែក ា	F12
	practicable and that I have selected the practicable	e method treatment, s	torage, or dispos	sal currently ava	ilable to me t	which minimizes	the present an	d future threat to I	numan
1	health and the environment; OR if I am a small gent to me and that I can afford.	era or, i nave made a g	1000 Talth enon	to minimize my v	waste and ser		ste management	method that is av	Anable Anable
Ì	Printed/Typed Name		Signature		and the state of		n en en mer n en en en en en e	Mo. Day	Year
	And the second s	:	<u> </u>					IDE	147
T i	17. Transporter 1 (Acknowledgement of Receipt	t of Materials)					-		\$0.07°
A N S P	Printed/Typed Name		Signature					Mo. Day	Year
P ·	18. Transporter 2 (Acknowledgement or Receip	t of Materials)		The second second			•	10 11/	- 1
ORTER	Printed/Typed Name	t or materials,	Signature		•			Mo Day	Year
Ē				•	•. :	. " 1.6 °) / 5.		111
_	19. Discrepancy Indication Space								1
F A									
C.	20. Facility Owner or Operator. Certification of	receipt of hazardo	ous materials (covered by thi	s manifest	except as no	ted in Item 19		
L . 1	Printed/Typed Name	7	Signature			,		Mo. Day	Year
T Y	Lill Villa	10		J/ι ι		4 - 2		1774	7.1

INSTRUCTIONS FOR TAROY WAN TO STATE OUS WASHEST

General Information

Year

Day

Mo.

til es final disposal toradle to quavel, la proen-	HAZARDO	US WAST	E MANII	FFSTor	ಚ ಈಪ2 ಸಾ	on requires on reder New Sales on Street New Sales on Sal	résponsible	erators are
se print or type. Do not Staple. UNIFORM HAZARDOUS citaluges aWASTE MANIFEST	1. Generator's I	320, Albany, i US EPA No.	Man Docu	ifest Iment No. I	2. Page	1 Informa	tion in the si equired by Fe	haded areas ederal Law.
	long Isla 216th Ave	od Railr Off 40	Cad Tusi	wajaprora Hating the Hatingete	A SIM	Manifest Do YB		
_5, JT (anaporter 1 (Company Name) on the state of the s	tags bayours: ASE:			าลศา	m food at	A 46 300	11 C. 15 C. 15	married and the offendary for a large and
Trace-vines Evir		- INTOOPD	936755	shede:		parter's Prior		755-12
7. Transporter 2 (Company Name) লোক্তান্ত্র্বান্ত্রী চিচ্চত হলেন্সক্রের লোক্তান্ত্রী	na ka Padistoner i more	8. US EPA ID 1				Halisporter) onters Phor		A TOTAL S
9. Designated Facility Name and Site Addresses of the Page 19 19 19 19 19 19 19 19 19 19 19 19 19	orporation		Number Sund bas a Siw the paca	4	J 5. 3	7122	20.00	BOLL PA
Rrooklyn, ET 1121	1	三对双数数据		Erresien 		Pipes	35334211 35334211	
ರ್ಜೀರಾಕರ್ಯ ಕಾರ್ಗೆ FDವಿಕೆಲ್ toernatic ಕರ್ನಿ ಬರ್ಚುಗಳ 11. US DOT Description (including Proper Sh				120 Control ber No.	ाब र ⊵ाजधंदर्ध	total∷at a: Ouantity	Unit VAX	ex.Literat
SELECTION OF LANGUAGE SECULOS SELECTION OF S		(200 9)	.solid	.mun elou	ง คระ กลัก ก	2005 P	T, ED	Deep (
nciering and reviewing the comp Send gamma	U		Loxes, das≃.	£18M-MC		amus diums (10 b 800	Alejao . S
on man est mat to trace englastions for rest or ultre, into tracent rector Espanan Poles.	តិកា កិច្ចប្រសិទ 20 និសិទ្ធិ (១) 20 និសិទ្ធិ	31(178 3 8 0)	ಗಾಳವಿದೆ ಇವರ ೨೭ ಜನಿವಿಶ್ವವಿ ೮೨/			, , , , , , , , , , , , , , , , , , ,	elda) 1 3 SI	West Size
Region of the contraction and Region. So of Mangerithms and Surget, Western or	e in the specifical section of the s					1 1 1	 	ATE
d.·		· . 15 %.	ಚಾರ್ಣಕ್ಕೆ ಕಾರ್ಡಿಗ	54 A	ວດ ຄະ ຄວາງຂວ	or Late Inde	.эолы (Е	AAEI melij.
			e int epige.	والمرازة الم		111	sī,	Merica.
J. Additional Descriptions for Materials listed	1 Above	(eperge)	Tons (1,000	M-Metric	K Handi	ing Codes fo		
A comparison of the state of th				77 217	, A		c coney	
inilar information as be included here.	ate inis com o ujor	by hard and d	and then sign	besi រខ្មែរក	Note to 155	ರ್ಷ-೧೯೯೬ ಎಲ್ಲಾ IA ನಗರು	deternation authories	07 07 1 21 0 02 1
15. Special Handling Instructions and Addition	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or where it is	arettara -o goda o ta	ter attaget	Setell Hed			
Resignacy contact a. E202	: Trade-Vi : 1021	nd# 516	755-495	.ತರಿ ೬೦ ೧೮	ritaten, bit	ತ್ರವಾಣ ಚಾರ್ಥ	· बाहाउन्ह्री।	bar G mate
16. GENERATOR'S CERTIFICATION: I he classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am a large quantity generator, I certify that I I practicable and that I have selected the practice health and the environment; On if I am a small g to me and that I can afford.	e in all respects in pro have program in place t able method treatment,	per condition for tr o reduce the volume storage, or disposa	ansport by high and toxicity of all currently avail	lly and accur way accordi waste gener	rately describing to applicated to the display	able internation egree I have de zes the present	opershipping al and nationa termined to be and future thr	name and are al government economically reat to human
Printed/Typed Name ### Printed/Typed Name ###################################		Signature	111	A Secret	1000 1000 1000	\$1710 F 1913.	Mo.	Day Year
17. Transporter 1 (Acknowledgement of Rece	eipt of Materials)	Cincin	•	<u> </u>				The should
Printed/Typed Name 18. Transporter 2 (Acknowledgement or Rece	ipt of Materials)	Signature	هر د الهامور د د مور	<u> </u>			Mo	Day Year
Printed/Typed Name	ř.	Signature			Language 19 15	-	Mo.	Day Year
19. Discrepancy Indication Space				- ,			<u> </u>	<u> </u>

Printed/Typed Name

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.



OIVIE OF HEAL LOUIS DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

Please print or type. Do not Staple.

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0039. Expires 9-30-94

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's NYD98	69938,39 1 1	Manifest Document I	No.	of 1	is not re	qutred	he shaded areas by Federal Law.				
			nd Railroad and 218th St	. ,	A S	tate Mani NY: E	fest Doc	18°C	881 9				
	4. Generator's Phone (718 558 – 735	Bellaire,	NY		В. С	Senerator'	s ID 🧎						
!	5. Transpor er 1 (Company Name)		6. US EPA ID Numbe			C. State Transporter's ID 684674							
	Trade-Winds Enviro	onmental_	\nkd000036:						6) 755-400				
	7. Transporter 2 (Company Name)		8. US EPA ID Numbe	r 1 1 1		tate Tràn ransporte			nosania Neikolen				
	9. Designated Facility Name and Site Addres Radiac Research Co		10. US EPA ID Numb	Ġ,	G. State Facility's ID 3 S. First St. Brooklyn								
	261 Kent Ave n ue Brooklyn, NY 11211	<u> </u>	ן אַרַם 49 גָּרָק 8 מַאַאַן.	296 1	3H3	acility's F 718.)	hốne 963-2	2233					
	11. US DOT Description (including Proper Shi	ipping Name, Haz	ard Class and ID Numbe	er)	ontainers	13 Tot	al	14. Unit	是被政策				
	RQ Waste environme N.O.S. (Ead) (Mc	Crusu.	-			Quar	•	Wt/Vol	Waste No. EPD009.				
L	9 UN3077 PGIII	ĚRG#	171	0	DM	9490	ρ	P	**************************************				
	b.				. .				EPA STATE				
•	c.						1. 1		ЕРА				
Ļ	<u> </u>				<u> </u>		11		STATE				
'	d.		•		. ,		1 1		EPA STATE				
お機能に対	J. Additional Descriptions for Materials listed	Above			K. I	landling (odes fo	Waste	as Listed Above				
		d			b -			d					
j-	15. Special Handling Instructions and Addition	mai intomiation											
3 €	Mighergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations.	: Trade-W	contents of this consignme oper condition for transport	nt are fully and a	cording to a	ipplicable in	ternation	al and n	ational government				
3 €	Ml2] Emergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are	eby declare that the in all respects in property to the method treatmen	contents of this consignme oper condition for transport to reduce the volume and to t, storage, or disposal curre	nt are fully and a t by highway acc oxicity of waste g ntly available to	cording to a penerated to me which n	the degree	iternation I have det e present	al and n termined and fut	to be economically ure threat to human				
4	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am a large quantity generator, I certify that I h practicable and that I have selected the practica health and the environment; OR if I am a small ge to me and that I can afford. Printed/Typed Name AGEN CHARCES F Model	reby declare that the in all respects in property in the method treatmen enerator, I have made	contents of this consignme oper condition for transport to reduce the volume and to t, storage, or disposal curre	nt are fully and a t by highway acc oxicity of waste g ntly available to	cording to a penerated to me which n	the degree	iternation I have det e present	al and n termined and futu ent meth	to be economically ure threat to human				
34 T	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am s large quantily generator, I certify that I h practicable and that I have selected the practica health and the environment; OR If I am a small ge to me and that I can afford. Printed/Typed Name	reby declare that the in all respects in property in the method treatmen enerator, I have made	contents of this consignme oper condition for transport to reduce the volume and to t, storage, or disposal curre	nt are fully and a t by highway acc oxicity of waste g ntly available to	cording to a penerated to me which n	the degree	iternation I have det e present	termined and futurent method	ational government to be economically are threat to human and that is available				
33 T	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am s large quantity generator, I certify that I h practicable and that I have selected the practicable and that I have selected the practica health and the environment; OR If I am a small ge to me and that I can afford. Printed/Typed Name AGE CHARLES F MO 17. Transporter 1 (Acknowledgement of Recei	reby declare that the in all respects in property in place ble method treatmen enerator, I have made	contents of this consignme oper condition for transport to reduce the volume and to t, storage, or disposal curre a good faith effort to minim	nt are fully and a t by highway acc oxicity of waste g ntly available to	cording to a penerated to me which n	the degree	iternation I have det e present	al and notermined and futurent meth	ational government to be economically ure threat to human nod that is available Mo. Day Year				
**************************************	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am a large quantity generator, I certify that I h practicable and that I have selected the practica health and the environment; OR If I am a small ge to me and that I can afford. Printed/Typed Name AGE Transporter 1 (Acknowledgement of Received Typed Name) 18. Transporter 2 (Acknowledgement or Received)	reby declare that the in all respects in property in place ble method treatmen enerator, I have made	contents of this consignme oper condition for transport to reduce the volume and it is storage, or disposal curre a good faith effort to minim	nt are fully and a t by highway acc oxicity of waste g ntly available to	cording to a penerated to me which n	the degree	iternation I have det e present	al and notermined and futurent meth	ational government to be economically tre threat to human nod that is available Mo. Day Year Mo. Day Year				
2 7 -	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am a large quantity generator, I certify that I h practicable and that I have selected the practicable health and the environment; OR If I am a small ge to me and that I can afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Received Printed/Typed Name 18. Transporter 2 (Acknowledgement or Received Printed/Typed Name 19. Discrepancy Indication Space	reby declare that the in all respects in property in property in property in property in the method treatment on the method treatment on the method treatment of the method tr	contents of this consignme oper condition for transport to reduce the volume and to it, storage, or disposal curre a good faith effort to minim Signature Signature Signature	nt are fully and at by highway according to waste gottly of waste gottly available to the my waste and	penerated to me which in a select the	applicable in the degree hinimizes the best waste	I have dele present	al and notermined and futurent meth	ational government to be economically tre threat to human nod that is available Mo. Day Year Mo. Day Year				
8 T	Mignergency contact 16. GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are regulations and state laws and regulations. If I am a large quantity generator, I certify that I h practicable and that I have selected the practical health and the environment; OR If I am a small ge to me and that I can afford. Printed/Typed Name AGE 17. Transporter 1 (Acknowledgement of Received/Typed Name 18. Transporter 2 (Acknowledgement or Received/Typed Name 19. Discrepancy Indication Space	reby declare that the in all respects in property in property in property in property in the method treatmen enerator. I have made that the property is a second of the method in the method treatmen enerator. I have made that the property is a second of the method in t	contents of this consignme oper condition for transport to reduce the volume and it it, storage, or disposal curre a good faith effort to minim	nt are fully and at by highway according to waste gottly of waste gottly available to the my waste and	penerated to me which in a select the	applicable in the degree hinimizes the best waste	I have dele present	al and notermined and futurent meth	ational government to be economically tre threat to human nod that is available Mo. Day Year Mo. Day Year				



South (ROO) 424-6802 and the N.Y. Dept. of Environmental Conservation (518) 457-7362.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

ase print or type. Do not Staple.	P.O. Box 12820, Albany, Nev		Form Approve	d. OMB No. 2	2050-0039.	Expires 9-30-9) 4
UNIFORM HAZARDOUS	1. Generator's US EPA No.	· Manifest	2. Page 1	Informa	tion in th	ne shaded a	reas
WASTE MANIFEST	INYP986993830111	Document No. 158792	" 1	1	-	y Federal L	aw.
_	ong Island Railroad		A. State Ma	anifest Doo	Homes Homes	¹ ီ၁ ၁ ဂ	2
l .	loffman Ave. off We.				<u>000</u>	819	
4. Generator's Phone (718) 558-735	indenhurst, NY 117	5 /	B. Generato	or's ID			
5. Transporter 1 (Company Name)	6. US EPA ID Num	her	C. State Tr	ansporter's	L ID		-
5. Transporter 1 (Company Name) Trade-Winds Enviro	nmental NYO00936	385	D. Transpor)755-4	000
7. Transporter 2 (Company Name)	8. US EPA ID Num	ber	E. State Tra	· · · · · · · · · · · · · · · · · · ·		700	000
<u> </u>		11111	F. Transpor	ter's Phon	e ()	
9. Designated Facility Name and Site Address Radiac Research Co	rporation 10. US EPA ID NUI	nber 3	G. State Fa	cility's ID Lrst S	St. I	Brookl	yn
261 Kent Avenue	1 33700 40 1 70	206	H. Facility's	5 Phone			
Brooklyn, NY 11211	NYP049178						
11. US DOT Description (Including Proper Ship	oping Name, Hazard Class and ID Num	ber)	. 1	13. Total	14. Unit	ı.	
a DO Wasta anvisanna	ntally barandons of	No	TypeOL	antity	WIVOI	Waste N EPA	٥
	ntally hazardous so	I V.M			-	D009	
N.O.S. (Load) (Me 9 UN3077 PGIII	(ω_i) (D009) ERG#171	009	DM 055	5001	P	STATE	
D.						EPA	
					-	STATE	
c.						EPA	
			, ,		· -	STATE	
a.			 			EPA	
		. 1			-	· · · · · · · · · · · · · · · · · · ·	
				-4 1		STATE	
Adultional Pesoriptions for Materials Inter	Atiove		K. Handling	Codes for	Wastes	Listed Abo	νe
ا ذ 1	e		ä	T	c		╛
		· · · · · · · · · · · · · · · · · · ·					
•	1		15		d		7 /
- Maria - 10 - Spectra minimo, intercocenta mol Amino	. L M	. illl					
-		F.F. 4000					
	Trade-Winds 516 7	55-4000					
a. B302 M121					_		
R CEMENATOR'S CENTIFICATIONS FROM							
dise Military y e treat direction (1916) din 1911 oct din 19 originational modification from a land religious efficie							- {
3 Lobe a faigh quantit, go contor freeith that the position beat that the contor the profits at	ar are thoughteath mantifacting of the first con-	وعبرا فاعاطفانه مريين	abich munimazes	the present	and luture	e threat to hu	man
to the and that is a lifter T	e parent. Dani di Producti appendantible (B. 1907) e dete.	li 10 merek basalah ananda bada T	ed the text was	le fdattageffi	ent metho	d that is avail	able
remeditional Name (Adort 100)	- Sightwee	0,		1	. M	Diy X	Û
TPHILIP T. CAR	volo the	lyon (well	8	1 4	A 14	14
17. Transporter 1 (Adknowledge) and Reven	d of Materials)	11/					
P. B. B. Chandalla III	Sign	INMIS			1	J<4¢	MR
V 0 2 V 11 11		0) 0				719	77
18. Transporter 2 (Acknowledgement or Heceig	·	-			110	. D \	
Printed/Typed Name	Signature		•		Mo	Day 1	Year
19. Discrepancy Indication Space	l				1 1	1 1 1	
, , , , , , , , , , , , , , , , , , ,							
20. Facility Owner or Operator: Certification o	receipt of hazardous materials covere	d by this manifest	except as note	d in Item	19.		
			/				
Printed Typed Name	Signature				Mg گهر	ay ay	<i>5</i> 7
(CUIS COMMENT					المرسحا	4 1 / 10 1/	ו דו׳

12. (1981) 424-18802 and the fact Dept. of Environmental Conservation (518) 457-7352.

A Compared Speed that Mathematical

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

lease print of type. Do not Staple.	F.O. BOX 12020, Albany, N	·		MB NO. 2030-0039. Expires 9-30-94
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No. NYD986993880	Manifest Document No.	of 1is	nformation in the shaded areas not required by Federal Law.
	ong Island Railro Maple Avenue off L	ad	A. State Manife	685857 6
4. Generator's Prione (718 558-73	Rockville Center,	NY 11570	B. Generator's	
5. Transporter 1 (Company Name)	6. US EPA ID N	ımber	C. State Transp	oor er's ID 67467AF
Trade-Winds Environ	mental NY000093	63851 1 1 1		s Phone 516)755-4000
7. Transporter 2 (Company Hame)	8. US EPA ID No		E. State Transp	
, , , , , , , , , , , , , , , , , , , ,	1		F. Transporter's	
9. Designated Facility Name and Site Address	s 10. US EPA ID 1	lunter		
9. Designated Facility Name and Site Address Radiac Research Cos 261 Kent Avenue	poration "	3	3 S. Fir	
Brooklyn, NY 11211	NYD04917	<u></u>	H. Facility's Ph	
11. US DOT Description (Including Proper Shi		No	Total	t Unit I.
RQ Waste environment N.O.S. (Head) (Mexico)	ntally hazardous l	iquid		5009 STATE
9_UN3032_PGIII	ERG#171	003	DM 0015	0 G SIATE
RO Waste environment N.O.S. (Load) CMev.	tally hazardous s	olid		5 009
		0.15	DM 0850	O P STATE
9 UN3077 PGIII	ERG#171	· · · · · · · · <u>- · · · · · · </u>	Pir Jopa	EPA
· ·				· EFA
				STATE
√ J		,		EPA
			_	STATE
Addition a moriphism for Statemen acted			K. mandling Co.	iles for Wastes Listed Above
	1			
				7
	d	1 _1	· c	<u></u>
16. Special randling hazardnay 200 Addiso	4. 6119			
Emergency contact:	6, (530) Trade-Winds 516	2 M121 755-4000	·	
te. CEMERATOR'S CERTIFICATION: Chara- classified, packed intrated for that the dised and				
in julations, and state love and registations. If an a large quantity generalize contribution from	so program in plane to reduce the wilcone.	and (county of waste game)	ated to the degree I f	idve determined to be economically
producable and that I have soler led the production health and the elementation? Of it is an a small group	ile method freatment, Starage, or disferent	Concerny available to me a	nich minimizes the p	present and future threat, to human
to not such that the patients	ichica tame a mee and the tree	The transfer and the second	THE COST WASTE III	and grander method that is available
30 least your transe (A goot Fun)	Signature	1	12	Mo. Day Year
APHILIP J. CAP.	VTO X 6/1	Sie 1.0	ing its	05/898
: 17. Transporter I tacknowled Jement & fice of	of all felicities of	JV/		
Por Mys Hand 1	Sic As.	1 H	·	Mowy Dave War
BOB White	J AH	Whit		05/878
15. Transporter 2 (Auknowledgement or Hedelp				
Printed/Typed Name	Signature			Mo. Day Year
19. Discrepancy Indication Space	•			
20. Facility Owner or Operator: Certification o	f receipt of hazardous materials cov	ered by this manifest e	except as noted in	1 Item 19.
Printed/Typed Name	Signature			Mo. Day Year
Cours Consciu			•	051.8981
- CANTOUR				

STATE OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF HAZARDOUS SUBSTANCES REGULATION **HAZARDOUS WASTE MANIFEST**

8700-22 (Rev. 9-88) Previous editions are obsolete.

nt or type. Do not Staple.	P.O. Box 12820, Albany, New York	12212	Form #	pproved. OMB No. 2	050-0039). Expires 9-30-94		d areas
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No. Ma	anifest ocument No. B 765	2. Pá	information is not re	lon in	the shaded areas by Federal Law.	,	BinesC
	NYP986993830	3 / 6 P	46.971	<u> </u>	37 × 19, 2	2748.1482/20420-4504.	١ .	
ienerator's Name and Malling Address J I	Long Island Railroad : Nassau Blvd.	•	A. St	NY B	NO F	876 5	4	
. (Garden City, NY 11530		. B. G	nerator's ID		1111/21/25	} ,	
Senerator's Phone (718) 558-735	56						_	
ransporter 1 (Company Name)	6. US EPA ID Number			ate Transporter's				
Trade-Winds Enviro						51755 <u>-4000</u>	{	
ransporter 2 (Company Name)	8. US EPA ID Number			ate Transporter's ansporter's Phon			{	
esignated Facility Name and Site Addre	ess 10. US EPA ID Number			ate Facility's ID				
Radiac Research Co			33 S	First	St.	Brooklyn		
261 Kent Avenue			, H., F	cility's Phone		SARA SARA	1	
Brooklyn, NY 1121.	1 NYD049178296		144	718)/963-	223	315,045,745.53		
US DOT Description (including Proper S	hipping Name, Hazard Class and ID Number)	12. Cont	ainers Type	13. Total Quantity	14. Unit	Waste No.		
RO Waste environme	entally hazardoussolid	BW		BiN		Б009	1	
N.O.S. (Load Merc	(D009)	603		0,0600	_	STATE]	
9 UN3077 PGIII	ERG#171	(t)= 1.5	DM	- Poleda	P	7.445.464K.27.0	-	Siy is
•				•		EPA:	}	
	•	, ,	,	, , , ,		STATE		
		1 1 1	┼╌┖╼┤			EPA D	1	
		1 1		1 1 1 1	*	STATE		-
						PPA TO THE	1	
						ACTATE TAXABLE		20
				_1_1_1		STATE		Above
iditional Descriptions for Materials lists	id Above		K. H	andling Codes to	Waste C	es Listed Above	,	
			70		à		1	
Special Handling Instructions and Addit		<u>*************************************</u>	15.13.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- Cartace to Cartace T	1	Jiem B-G
a. B302 M121		5 ,	•	1			ļ	Item C ar
	: Trade-Winds 516 755-4	000		•			}	item gar
							<u>}</u>	eme and are government (18%) (18%)
lassified, packed, marked and labeled, and as agulations and state laws and regulations.	ereby declare that the contents of this consignment are re in all respects in proper condition for transport by his	lghway accord	ling to ap	plicable internation	al and r	national government	i	constitution at to human
racticable and that I have selected the practic	I have program in place to reduce the volume and toxicity cable method treatment, storage, or disposal currently as generator, I have made a good faith effort to minimize my	vallable to me	which mi	nimizes the present	and fut	ure threat to human	-	t is available
Typed Name MG FA	5 4 Signature	1.11	1/-	· · ·		Mo. Day Year	∤ =	1490
CHARLES F MO		ナン	n	ui	12	25/1548	ָ ס	. Conputa
ransporter 1 (Acknowledgement of Rec							0	Day Yea
505 White	Signal Williams	W	>	-		Mo. Day Year	αυα	199
ransporter 2 (Acknowledgement or Rec							~	Day Yea
d∏yped Name	Signature				-	Mo. Day Year	0	بالن
Discrepancy Indication Space	11					<u> </u>		: - 37, n s
	. •					<i>.</i>	1	66.5 mm
ecility Owner or Operator Cartification	of receipt of hazardous materials covered by the	hie manifect	Avcent	as noted in Ha	10			
		s mamiest	event.	as incied to team			,	Day Yea
at/Typed Name	Signatura		7		1	Mo-Day-Year [1.4.2

CODY 1...Dienoser State_Mailed by TSD Facility

1 12 116

.: • • > =

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

Please print or type. Do not Staple.

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS 1. Generator' WASTE MANIFEST NYD986	s US EPA No. Mar 599 3830 58	nifest urnent No.		1 15	not require	n the shaded areas od by Federal Law.
Plainfiel	and Railroad Ld Avenue	··· · · · ·	A. St	ate Manife NY B	st Docume	5877 4
4. Generator's Phone (718) 558-7356	ark, NY 11001		B. G	inerator s i		
5. Transporter 1 (Company Name) Trade-Winds Environmental	US EPA ID Number	1 1 1		ate Transp		68487AF
7. Transporter 2 (Company Name)	8. US EPA ID Number	_ 		ate Transp		
				ansporter's		
9. Designated Facility Name and Site Address Radiac Research Corporation 261 Kent Avenue	10. US EPA ID Number		3,3,-,5	ate Facility Fir scillty's Pho	st.St	. Brooklyn
Brooklyn, NY 11211	NYD049178296		1	182)96	3-223	3
11. US DOT Description (including Proper Shipping Name, Ha	· · · · · · · · · · · · · · · · · · ·	12. Cont	alners	13. Total Quanti		
a. RQ Waste environmentally 1		1	1708	Ouaniii	V VV	EPA →
N.O.S. (Lead) CMevewy) (E) 9 UN3077 PGIII EI	(D009) RG#171	ηοβ	DM	0 ₁ 1500	P	STATE
b.						EPA
<u>:</u>			12			STATE
c .				1 1 1		STATE
d.	 			<u> </u>		EPA .
					1	STATE
J, Additional Descriptions for Materials listed Above			K. Ha	andling Cor	des for Wa	stes Listed Above
b			b			
15. Special Handling Instructions and Additional Information						Ì
Emergency contact: Trade- a. B302 M121	Winds 516 755-4	000				
16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labelad, and are in all respects in regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place practicable and that I have selected the practicable method treatments that the environment; OR If I am a small generator, I have made to me and that I can afford.	proper condition for transport by hig ce to reduce the volume and toxicity of ent, storage, or disposal currently ave	thway accord of waste gene allable to me	ling to ap erated to t which mi	plicable inte he degree 1 h nimizes the p	rnational an nave determin present and	d national government ned to be economically future threat to human
CHARUES F MOCICI	Signatura	11/	In		-	Mo. Day Year
17. Transporter 1 (Acknowledgement of Receipt of Materials)			<u> </u>	<u> </u>		
Printed/Typed Same White	Signetary WWW					Mo. Day Year
18. Transporter 2 (Acknowledgement or Receipt of Materials) Printed/Typed Name	Signature 13 W	·	AI-			Ma Day Year
19. Discrepancy indication Space	Chile	1 J.	III	w		Mo. Day Year 105/16/19/8
20. Facility Owner or Operator: Certification of receipt of haz	ardous materials covered by the	is manifest	cept	as noted in	item 19.	
Printed Typed Name	Signature	<u> </u>	//	/		Mon Bay Your
A Form 8700-22 (Rev. 9-88) Previous editions are obsolete.			11			18
COPY 1—Dia	sposer-State—Mailed l	by TSD	racili	t y	,	

STATE UP NEW YUHA DEPARTMENT OF ENVIRONMENTAL CONSERVATION ... DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Plea	se print or type. Do not Staple.	P.O. Box 128		New York 1	22'12	Form Appr	oved. OMB No. 2	050-0039.	Expires 9-30-94		
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's U		Docu	lfest ument No. 8 5 5	2. Page of	Is not re	quired b	e shaded areas y Federal Law.		
		Long Island Franklin St				A. State	Manifest Doc IY B	585	885 5		
	718 558-7356	Hempstead, 1		·		O. State Transporter's ID 68.46145 D. Transporter's Phone 516: 755-4000					
	5. Transporter 1 (Company Name) Trade-Winds Environmenta		B. US EPAID I	ррзб	385						
	7. Transporter 2 (Company Name)		8. US EPA 1D 1	<u> </u>		F. Trans	Trånsporter's porter's Phon	e [*] (\$\$\tag{\partial}\$).			
	9. Designated Facility Name and Site Address 10. US EPA ID Number 3. State Facility's ID. Radiac Research Corporation 33 S First S 261 Kent Avenue								rook1yn		
	Brooklyn, NY 11211 11. US DOT Description (including Proper Sh	"			2 9 6	ainers	8) 963-2 13. Total	14. Unit			
GENER	a. RQ Waste environmentally (Mercury) (D009) 9 UN3077 PGIII ERG		solid N.C			Type D M O	Ouantity OOOO		Waste No. EPA D009 STATE		
A T O R	b. 9 UN3077 PGIII ERG	##/#				1,			EPA STATE		
	c.								EPA ()		
	d.								EPA : 3		
	J Additional Descriptions for Malerials listed	l Above				K. Hand	Iling Codes to	Waste	s Listed Above		
	bs. 15. Special Handling Instructions and Additional Control of the Control of th	d d		il s		b		d			
	Emergency contact: Trade a. B302 M121		755–4000)		-			·		
	16. GENERATOR'S CERTIFICATION: I he classified, packed, marked and labeled, and arregulations and state laws and regulations. If I am a large quantity generator, I certify that I i practicable and that I have selected the practic.	e in all respects in pro have program in place t	per condition for t o reduce the volum	ransport by high	hway accord	ing to appil	cable internation . degree i have de	al and notes that the state of	ational government to be economically		
:	health and the environment; OR if I am a amall g to me and that I can afford." Printed/Typed Name	enerator, I have made a	good faith effort t	o minimize, my v	vaste and sel	ect the best	waste managem		od that is available		
_	OHARLES F. MORI	C/	Charl	1	TH	un		_10	51151918		
TRANSPORTER	17. Transporter 1 (Acknowledgement of Rece Printed/Typed Name 18. Transporter 2 (Acknowledgement or Rece		Signatur	Whit	>			<u> </u>	10. Day Year		
Ř T E R	Printed/Typed Name	in the contract of	Signature					,N	No. Day Year		
FAC	19. Discrepancy Indication Space		lous market		- me-117	Aug and a					
LLITY	20. Faculty Owner or Operator: Certification Printed Typed Name	I I I NAZARO	Signature	Werea by thi	s marilles	except as	noted in Item	19.			
EP.	A Form 8700-22 (Rev. 9-88) Previous editions are	obsolete. COPY 1—Disp	Oper State	_Mailed h	N TSD A	Facility			7-7-		
	; •	COLA I—DISB	Caci Grafe.	manou L	,,/						

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

	820, Albany, New York		Form	Approved. OMB No. 2	2050-003	9. Expires 9-30-94		
IFORM HAZARDOUS 1. Generator's	US EPA No. Mar	rifest		age 1 Informati	tion In	the shaded areas] ;	aded areas
	8699 38 30	ument No. 8 4 6	'	or] is not re	equired	by Federal Law.		Jeral Law.
ator's Name and Mailing Address Long Island			A. S	tate Manifest Do				
				NY B	<u> 386</u>	884 6		39 1
Port Washing	gton, NY		B. G	enerator's ID				
rator's Phone (718) 558-7356	- 440 SD441D 44		,,, ,,			<u> </u>		· 6
porter 1 (Company Name)	6. US EPA ID Number	12.0.5	-	tate Transporter's		\7EE 4000	1	5/M
ade-Winds Environmental porter 2 (Company Name)	8. US EPA ID Number	ם א ב	T	tate Transpo ter's		755–4000	1	-4000
porter 2 (Company Name)		111		ransporter's Phon		1	1	
nated Facility Name and Site Address	10. US EPA ID Number	' '		tate Facility's ID			1	
liac Research Corporation			I .	. First St	. Br	cooklyn		lyn
1 Kent Avenue			H. F	acility's Phone			-	<u>-1</u>
ooklyn, NY 11211	1 K D D A B 1 7 8			(718) 963-		}	4	
DOT Description (Including Proper Shipping Name, Haza	rd Class and ID Number	12. Cont	ainers	· 13. Total	14. Unit	l.		
		No	Type	Quantity	WilVol	Waste No.	-	I. Iste No.
Waste environmentally hazardous	solid N.O.S.				1	DO09		
rcury) (D009) UN3077 PGIII ERG# 171		DALL	L M	02000	, n	STATE		209
UN3077 PGIII ERG# 171		VS7	D 1:1	0220	<u>P</u>	EPA	†	
			ĺ					1
		111	l ı	1		STATE		E
				· · · · · · · · · · · · · · · · · · ·	_	EPA	1	i
		1				STATE		
		. 1 1	-			SIAIL	<u> </u>	E
	5.5				٠.	EPA ·	-	
						STATE		
			_ !					Ē
ional Descriptions for Muterials listed Above			K. H	andling Codes fo	r Waste	s Listed Above		d Above
1 , 1 0	į	t I	ك ا	. LT	c			.
							1	
	i		ь		d			
sist Handling Instructions and Additional Information		<u>i</u> -	l				1	
ergency contact: Trade-Winds 516 B302 11121	755–4000					-		
VERATOR'S CERTIFICATION: I neceby disclare that the	see to be of the county of the county	the same		n Leibert St. Co., to., or	ara eni	nning garne and are		
after the design the file projected bits be included by the								ne and are overnment
rations and state tairs and regulations. The a lings desixtly granifator, Frestal, that I have program in place	to reduce the voiding and to didity o	if waste game	rated to	t the degree i have de	termined	to be economically		nomically
heating and that I have solve a the prostocable fliethed treatment in and the enumerous Office in a small generator, I have made	, storage, or dispond Consider ava	diane to me	स्रोतनीः १६	miliazes the present	aria fut	ure Inieat to human		to human
g and that I have successful.		()		· · · · · · · · · · · · · · · · · · ·		t ,		b available
156460 AS AGONT	Signature	X	(1)	a~u	_	Mo. Day Year	m,	ay Year
VERNER PS MORE	1 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	~~)	~				တြ	1817.5
reporter 1 (Acknowledgement of Receipt of Mater) is)	Signature A	(d)	-/i	- <i>'</i>		Mo. Day Year	∞	
Mattheory Cond	J. Signature States I.	X	(1)	ノノ	l	151,490	IJ,	09
risporter 2 (Acknowledgement or Re cipt of Materials)		with	<i>79</i> ~	7		10111101	∞	011
Typed Name	Signature		/	/	i	Mo. Day Year	84	ay Year
crepancy Indication Space						1	ြ	<u>l ı</u>
cility Owner or Operator: Certification of receipt of hazar	dous materials covered by thi	s manifest	except	as noted in Item	19.			
Type Name	Signature	1				85 7 X 8 1		y Year
100 S2 (flev. 9-88) Previous editions are obsolete.	- / //-					-1-11-11-11		01-70

COPY 1—Disposer State—Mailed by TSb Facility



.. Control (1903) 424-8552 and the N.Y. Dapt. of Environmental Conservation (518) 457-7362.

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Form Approved OMB No. 2050-0039, Expires 9-30-94

	ase print of type. Do not Staple.		020, Albany, New 1				10. 2030-003	39. Expires 9-30-94
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's N Y D 9 8	US EPA No. 61 91 91 31 81 31 0	Manifest Document No. 5 8 8 6 4				the shaded areas by Federal Law.
	3. Generator's Name and Mailing Address	Long Island	Railroad			NY B		
		Long Beach l						<u> 886 4</u>
	4. Generator's Phone (718)558-7356	Island Park	, NY		B. G	ienerator's ID		
	5. Transporter 1 (Company Name)		6. US EPA ID Number		C. S	tate Transpor	ter's ID 6	7461AF
.,	Trade-Winds Environment	a1	N Y O D D D D I	36385				755-4000
	7. Transporter 2 (Company Name)	a'	8. US EPA ID Number			tate Transpor		7 133 4000
		l	111111			ransporter's F)
	9. Designated Facility Name and Site Addre	٠, ١	10. US EPA ID Numbe			tate Facility's		
	Radiac Research Corpora		10. 00 2.7.15 11050			•		D1-1
	261 Kent Avenue	•				acility's Phon	St.	Brooklyn
	Brooklyn, NY 11211		N Y D 0 4 9 1	7, 8, 2, 9, 6	п. г	718 963	3-2233	
	11. US DOT Description (Including Proper S	l hipping Name, Haza		12. Conta		13. Total	14. Unit	ı.
إ				No	Type	Quantity	Wt/Vo	Waste No.
E	* RQ Vaste environmentall	y hazardous	solid N.O.S.			_		
(4 E	(Mercury) (D009)			ω 3		0050) A	STATE
Ä		G #171		<u> </u>	D_M	<u> </u>	9 P	ļ
î	U.							EPA
0 R								STATE
			-				<u> </u>	
ļ	c.	•						EPA
Ì								STATE
ļ	····						l l	
1	a .	1 :						EPA
		•				· ·		STATE
ļ					1			
!	J. estational Descriptions are state, in lists	d Ainere			К. Н	andling Code	s for Wasi	es Listed Above
- 1		1			ü	T	ء ا	1. [
į				1				
	.* <u>-</u>			,			ſ	
!								
	to a second and the	.1		iil]	<u>b</u>		d	
	to i special randing hesi edidir mai wada	ional intermetion	······································	itl	_ <u>b</u>		d	
	to to to the special running menodom running dum Emergency contact: Trad	ional intermetion	······································	i t l]	b		d	
	to i special randing hesi edidir mai wada	ional intermetion	······································	itl	b		d	
	Emergency contact: Trad a. B302 M121	e-Winds 51	5 755–4000	i				
	Emergency contact: Trad a. B302 M121	e-Winds 516	5 755-4000		alety de		y proper Shi	
	to Special running mention and south Emergency contact: Trad a. B302 M121 10 Contact ONS CONTROL NOTE: In the part of particular in the regulations and state that an regulations.	e-Winds 516	5 755–4000	u, Inglaray addedil	alety de	splicable interni	y proper stu	national government
	to Special manifold inscription, and water Emergency contact: Tradia. B302 M121 10 Contact of the September of the contact of Egicators and state that and regulators. By an along quantity gravitation of the contact of Egicators and state that are contact of Egicators and September of the contact of Egicators and September of the Contact of the Cont	e-Winds 516	5 755–4000 Criments of this action, and application in the state of t	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi alional and i e determined sent and fut	national government of to be economically for threat to human
	to Special randing instruction, and south Emergency contact: Tradia. B302 M121 10 Children WAYS CRATIFIC AND THE Contact of the parties of the first time and the regulations. It am a large quantity go these forms in parties and the contact of the parties of the data to t	e-Winds 516	5 755–4000 Criments of this action, and application in the state of t	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi alional and i e determined sent and fut	national government of to be economically for threat to human
	to Special manifold inscription, and water Emergency contact: Tradia. B302 M121 10 Contact of the September of the contact of Egicators and state that and regulators. By an along quantity gravitation of the contact of Egicators and state that are contact of Egicators and September of the contact of Egicators and September of the Contact of the Cont	e-Winds 516	5 755–4000 Criments of this action, and application in the state of t	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and i e determined sent and fut gement met	national government of to be economically for threat to human
	Emergency contact: Tradia. B302 M121 10 Cit. To. 10.115 Cit. Tip. 20.116 Cit. Tip. 10.115 Cit. Tip. 20.116	e-Winds 516	5 755–4000 Criments of this across constitution of the school of the sc	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and i e determined sent and fut gement met	national government of to be economically lure threat to human shod that is available
	Emergency contact: Tradia. B302 M121 10 Constitution of the contact: Tradia. B302 M121 10 Constitution of the contact of the	e-Winds 516 met, the date that the common the reported to ple these program in place the freshed the months.	5 755–4000 Criments of this across condition in the condition of the cond	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and i e determined sent and fut gement met	national government of to be economically lure threat to human shod that is available
	Emergency contact: Tradia. B302 M121 10 Constitution of the contact: Tradia. B302 M121 10 Constitution of the contact of the	e-Winds 516	5 755-4000 Cornents of this occur, and a part condition is therefore and text of the voter of a first occur. Spiriture of his occur, and text occurs of the condition of the co	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and fut gement met	national government of to be economically live threat to human hod that is available
	Emergency contact: Tradia. B302 M121 10 Constitution of the contact: Tradia. B302 M121 10 Constitution of the contact of the	e-Winds 516 met, the date that the common the reported to ple these program in place the freshed the months.	5 755–4000 Criments of this across condition in the condition of the cond	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and fut gement met	national government of to be economically lure threat to human shod that is available
	Emergency contact: Tradia. B302 M121 10 Chi. The 10.4'S SPATING AND THE Property of the Prope	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this occur, and a part condition is therefore and text of the voter of a first occur. Spiriture of his occur, and text occurs of the condition of the co	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and fut gement met	national government of to be economically live threat to human hod that is available
	Emergency contact: Tradia. B302 M121 10 Contact: ON'S Contact: Tradia. B302 M121 10 Contact: On'S Contact: Contact: Tradia. B302 M121 10 Contact: On'S Contact: Contact: On's International Contact: One of the Contact of the Contact: On the Contact of the	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this accommon a part constituents in the sound of the sound	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and ful agament met	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year
	Emergency contact: Tradia. B302 M121 10 Chi. The 10.4'S SPATING AND THE Property of the Prope	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this occur, and a part condition is therefore and text of the voter of a first occur. Spiriture of his occur, and text occurs of the condition of the co	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and ful agament met	national government of to be economically live threat to human hod that is available
- A A STATER	Emergency contact: Tradia. B302 M121 10 Construction of the contact: Tradia. B302 M121 10 Construction of the contact of the	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this accommon a part constituents in the sound of the sound	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and ful agament met	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year
- A A STORTER F	Emergency contact: Tradia. B302 M121 10 Contact: ON'S Contact: Tradia. B302 M121 10 Contact: On'S Contact: Contact: Tradia. B302 M121 10 Contact: On'S Contact: Contact: On's International Contact: One of the Contact of the Contact: On the Contact of the	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this accommon a part constituents in the sound of the sound	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and ful agament met	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year
-aarvoater Fac	Emergency contact: Tradia. B302 M121 10 Construction of the contact: Tradia. B302 M121 10 Construction of the contact of the	e-Winds 516 not, the large that the common reports to produce the month of the common product of the common p	5 755-4000 Cornents of this accommon a part constituents in the sound of the sound	o, Ingliviny misordi icity of viaste gener is available to the s	alety de ng to u ated to which no	splicable interna- the degree I hav minutes the pre-	y proper shi ational and e determined sent and ful agament met	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year
-A-C	Emergency contact: Tradia. B302 M121 10 Construction of the contact: Tradia. B302 M121 10 Construction of the contact of the	read intermetion e-Winds 516 met, the date that the common interpretation produce the program in place there is no included in the manual products of the decision in th	5 755-4000 Cornents of this action and a part conditions is being and to reduce the votor as and text strange, of hisporial content at a good bother chief the school of the strange of hisporial content at good bother chief the strange of hisporial content at good bother chief the school of the strange of hisporial content at good bother chief the strange of the s	incity of versite generally associative for the second section of the sectio	ately are no to up	iplicable internative degree I have inimized the pre-	ey proper shi ational and e determined sent and ful ignment met	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year
	Emergency contact: Tradia. B302 M121 10 Contact: ON'S Contact: Tradia. B302 M121 10 Contact of the State I and the order of the order	read intermetion e-Winds 516 met, the date that the common interpretation produce the program in place there is no included in the manual products of the decision in th	Signature Signature Signature	incity of versite generally associative for the second section of the sectio	ately are no to up	iplicable internative degree I have inimized the pre-	er proper shi	mational government of to be economically for the treat to human hod that is available Mo. Day Year Mo. Day Year Mo. Day Year
	Emergency contact: Tradia. B302 M121 10 Constitute ONS SCOTIFICATION TO THE PROJECT OF SCOTIFICATION OF THE PROJECT OF SCOTIFICATION OF THE PROJECT OF SCOTIFICATION OF THE ARCHITECTURE	read intermetion e-Winds 516 met, the date that the common interpretation produce the program in place there is no included in the manual products of the decision in th	5 755-4000 Cornents of this action and a part conditions is being and to reduce the votor as and text strange, of hisporial content at a good bother chief the school of the strange of hisporial content at good bother chief the strange of hisporial content at good bother chief the school of the strange of hisporial content at good bother chief the strange of the s	incity of versite generally associative for the second section of the sectio	ately are no to up	iplicable internative degree I have inimized the pre-	er proper shi	national government of to be economically for threat to human hod that is available Mo. Day Year Mo. Day Year

INSTRUCTIONS FOR THROW STATE OUR MANIFEST

General Information

General Information

General Information

MOITAVRAZNOO JATHAMNORIVHA TO THAMTRAGED

NOW YORK State regulation requires proper company MOITAJUDAR 230HATZBUZ 200GRAZAGED MOIZIVIDATION OF HEGS SHITLY & CORES SHEED A VICIATION. A et au substant lis in issoges samiliu una pnitseHAZARDOUS WASTE MANIFEST una stat a volv well nebru eldisnogen en crotere of the property of t

UNIFORM HAZARDOUS The maile TEST NAME TO BE TO	1. Generator's	US EPA No.	Manif Docui ☆ 大会 文	ment No.	2. Pa o ∶ c o nieili	f _1	is not re	equired by	e shaded a / Pederal 1. lo noitudin	æŵ. ∙ :
3. Generator's Name and Mailing Address	leng Inland	Parl Constitute	1 .	wo (a) for	A SI	10 112	lies Do	IMAN V		
) 이렇게 () 보이 있는 이 선택 선택이 되어 있다. (Plusting in Flushing. I	and Park		- 1.4	2	MA	D XXIII			
4. Generator's Phone ()	ພາລະສາອາສຸບ ອ ້າກີ ເປັນ	הם נפלשושל במייפיה הפר	בשושם בע :	i namber i mber	D AV	مهانج	s D			
5. Transporter 1 (Companys Name) a noiseuni									43	
Treesester 2 (Company Name)		82 US EPA IL Num					ers Pron sporters			igu .
7. Transporter 2 (Company Name) m notation and personal supporter is used, the generator many	ะเกาะ นาร์อีก ป กอาะ	entimon perupakan	הפרק זחין בּנ	iese navi	Drie Same S Co.		e Priori	2 2 T C 22		
9. Designated Facility Name and Site Address		10. US EPA ID NU	nber J. bas es	ກາ ຂຕາເອ	5 to 17 7 14	ale Fac				
azardous waste William And Talling Coats	ponding to tike sig	zenoc znelist sat nito	acing off y	t code st		cilliv's	Phone 4			114
Recellyn, Mr 11211		方面の自己な	6	1613 2110	4,000	710	36.3	253		
17: thru 173. Confrod HSCOT office for description (Including Proper Sh	wasis, See 49 CFR saar, Bame, Bailqqi	and Class and ID Nur	រាប់ទីនេះជីវិសា រុស្ស និង	12. Control ten	iners :	hwasie OT is a :	રાય કરાયું કરા ક ia કોને clate	etinit. ខ្ល	OUSU'IL	
* PO Heats covingmentally			,	Mo. Mo.				1.27	The same of the same of the same of	10
averege: 37 n (000m) ger (1000m) 1165	. 		. •		. 22	_		÷0:	STATE	****
ode ກະຕິບາຊາ ເປັນ i.em ຊຸກ castum Of bis. ການກ່ວນ ການກ່ວນ ການການ ເປັນ ການການ ການການການ ການການການ ການການການ ການການການ ການການການ ການການການ ການການການ ການກາ			\$2.501)	207	B	03.	500	3 2 4	LEDOLARIO TOTAL	
apieung sod reviewing the lord. Send complete burgs send complete is subgestions. For	data, and con	aces, red-octs	e sexes. c		: 14	ms ලික	asțio drui trucks	7 10 th		
erden to: Chief, Information Policy Branch, P.4.5		boyes, cartons			-	111	1 1	aldati	STATE	
Go: and it the Office of Intornation and Reguig					-,-,			2	EPA (
e of Managernast and Sudget, Washington,	Affalis, Official School					. 14 4			STATE	
d.	•	Zalent und schandt		1 1	55:0	110 710 5		\$ 1	EPAA EI 7	
•		The second section of the second seco	zii Bes K	` UC	ns n. u	÷28vyl¥120.	SHIE W	HOVE W		
			oderts on	31 H		11	1 1/95	apir r	SIAIFOO	700
J. Additional Descriptions for Materials listed	Above	Kilčo ams)			K. Ha	indling	Codes jo	. Wastes	Listed Ab	ove
a	In Prairie	integrated the same	Modera .	Metable and and	, A		2	c en		
similar (oformalice may be included here. The data is the data of reversit by transcorp										20 ×
15. Special Handling Instructions and Addition	onal Information	INCH SIE CERTOLI	or almie.	ಸಿಸಲಾ ೧೨	ri .	<u> </u>		3.M.Zh289		
Interpret codes: Inde	- Market 516	:0:11:::::::::::::::::::::::::::::::::	נו פו בהמורם	וממשווומני	9:512				ಚಿತ್ರಗಳಿಗೆ ಪ್ರತಿಕ್ಷಿಗಳಿಗೆ	
8. 2302 2121 eznen of poet, app	ASKED BORROW BY A	TEST SHEET TO YOU THE	41(4); 62°		•		our nation	Stare at	1 G 30¢ 5•	ne#
16. GENERATOR'S CERTIFICATION: 1 her	reby declare that the	contents of this consider	ment are full	್ಷ-೧೯೯೬ v and accur	ately des	cribed e			หรือกะ อัก loo name≅ar	
classified, packed, marked and labeled, and are regulations and state laws and regulations.	in all respects in pro	oper condition for transp	on by high	way accordi	ng to ap	plicable	Internation	al and nat	ional govern	ment
	have program in place				ated to t	he decre	e i háve de	termined to		uman
If I am a large quantity generator, I certify that I h practicable and that I have selected the practica health and the environment; OR If I am a small ge	able method treatment enerator, I have made	l, stora ge, o r disposal cu a good faith effort to mir	rrently avalla nimize my wa	able to me v	which mi	nimizes (est waste	he present managem	ent metho		mapre
practicable and that I have selected the practica health and the environment; OR If I am a small ge to me and that I can afford.	able method treatment enerator, I have made	a good faith effort to mir	rrently avalla nimize my wa	ble to me v	which mi	nimizes !	he present managem	nent metho	d that is ava	f 33:
practicable and that I have selected the practica health and the environment; OR If I am a small ge to me and that I can afford.	able method treatment enerator, I have made	l, stora ge, o r disposal cu a good faith effort to mir	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present e managen	ment metho	d that is ava	Year
practicable and that I have selected the practica health and the environment; OR If I am a small go to me and that I cen afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Recei	able method treatment enerator, I have made	I, storage, or disposal cu a good faith effort to mir Signature:	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present e managen	ment metho	d that is ava	Year
practicable and that I have selected the practica health and the environment; OR If I am a small geto me and that I cen afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Recei	able method treatment enerator, I have made	a good faith effort to mir	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present e managen	ment metho	d that is ava	Year
practicable and that I have selected the practica health and the environment; OR If I am a small get to me and that I cen afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Receivered/Typed Name	ipt of Materials)	I, storage, or disposal cu a good faith effort to mir Signature:	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present e managen	Modern Method Modern Method Me	d that is ava	Year
practicable and that I have selected the practica health and the environment; OR If I am a small get to me and that I cen afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Receiperinted/Typed Name 18. Transporter 2 (Acknowledgement or Receiperinted/Typed Name	ipt of Materials)	I, storage, or disposal cu a good faith effort to mir Signature:	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present	Modern Method Modern Method Me	dithat is ava	Year
practicable and that I have selected the practica health and the environment; OR If I am a small go to me and that I can afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Receiprinted/Typed Name 18. Transporter 2 (Acknowledgement or Receiprinted/Typed Name	ipt of Materials)	I, storage, or disposal cu a good faith effort to mir Signature	rrently avalla nimize my wa	able to me waste and sel	which mi	nimizes i	he present	Moderation Market	Day Day Day Day	Year
practicable and that I have selected the practica health and the environment; OR If I am a small go to me and that I can afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Receive Printed/Typed Name 18. Transporter 2 (Acknowledgement or Receive Printed/Typed Name	ipt of Materials)	storage, or disposal cu a good faith effort to mir Signature Signature	rrently available my walland	able to me waste and selections	which miscal the books and the books are also also and the books are also also also also also also also also	nimizes (he present	Mo	Day Day	Year Year Year
practicable and that I have selected the practica health and the environment; OR If I am a small get to me and that I can afford. Printed/Typed Name 17. Transporter 1 (Acknowledgement of Receiperinted/Typed Name 18. Transporter 2 (Acknowledgement or Receiperinted/Typed Name 19. Discrepancy Indication Space	ipt of Materials)	Signature Signature Signature Signature	rrently available my walland	manifest	which miscal the books and the books are also also and the books are also also also also also also also also	nimizes (he present	Mo	dithat is ava	Year Year Year

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

print of type, be not otapic.	,		• • •		• • • • • • • • • • • • • • • • • • • •
UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's WIYIN / S	6,99,3830	Manifest Document No.	2. Page 1 of	Information is not req	n in the shaded areas ulred by Federal Law.
3. Generator's Name and Malling Address Lans	of Ralkor	d am	A State Ma	anliest Docu	85802-7
1 (9 558-756 Vegan A DI 4. Generator's Phone () Manh (55	ind KU	·	B. Generato		
5. Transporter 1 (Company Name)	6. US EPA ID Number		C State Tr		
7. Transporter 2 (Company Name)	8. US EPA ID Number	361282	D. Transpor		
			≩F. Transpor	ter's Phone	
9. Pesignated Facility Name and Site Address Conformation)10. US EPA ID Numbe	er	G. State Fa	FIRST	st-13rah/w
261 KONT AVE NX 1/2/1	MY100491	78296	H. Facility	1963	-2233
11. US DOT Description (Including Proper Shipping Name, Haza	ard Class and ID Number	12. Cont	. 1	Total	14. Unit I
* RQ Weste EN V. Ar Nhortal Sold Nos (howert) Poog Un	ha Zoday			2 -	1009
	1150 / JOE 1	<u> 601</u>	1/00	47/9	SIAIE MARKET
EK EK	6/7/		v		STATE
c.					EPA (2)
			, ,		STATE
1.					EPA
				, , ,	STATE
J. Additional Descriptions for Materials listed Above			K. Handling	Codes for	Wastes Listed Above
n d					d A
15. Special Handling Instructions and Additional Information Emergened Confacts a. B382 m/2/	Trade WM	b (5/6)	753	You)
16. GENERATOR'S CERTIFICATION: I foreby declare that the classified, packed, marked and labeled, and are in all respects in pregulations and state laws and regulations. If I am a targe quantity generator, I certify that I have program in place	oper condition for transport to reduce the volume and to	by highway accord xicity of waste gene	ing to applicable	e International ree i have dete	and national government rmined to be economically
practicable and that I have selected the practicable method treatment health and the environment; OR If I am a small generator, I have made to me and that I can afford.					
Printed/Typed Name PRINTED F MARICI	Signature	17/1	1-111	1	Mo. Day Year
17. Transporter 1 (Acknowledgement of Receipt of Materials)		- ,	0 0001		
Printed/Tyged Name Bob White	Slembure (Mo. Day Year, 05/5/8
18. Transporter 2 (Acknowledgement or Receipt of Materials) Printed/Typed Name	Signature	<u> </u>			Mo. Day Year
	. •	,	i		1 1 1 1 1
19. Discrepancy Indication Space			· ·	•	
20. Facility Owner or Operator Certification of receipt of hazar		by this manifest	except as not	ed in Item 1	9.
Printe 1/Typed Name / Leich R	Signatur	1/ke/		• •	057°575
nrm 8700.22 (Pay 9.88) Praylous aditions are obsolete	/ /				

COPY 1—Disposer State—Malled by TSD Facility

Please print or type. Do not Stable

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

Form Approved, OMB No. 2050-0039, Expires 9-30-94

	.50 }	The Control of the Co	1. Generator's	LUC EDA NO		itest	2 0	200 1 1040	ion in the	chadad c-	038			
		UNIFORM HAZARDOUS WASTE MANIFEST		ius epa no. 11 61 91 91 31 81	Doc	umerit No.		of Isnotre	equired by	shaded ar Federal La	IW.			
	3.	Generator's Name and Mailing Address I		A. St	ate Manifest Do	685	887	3						
	4.		edfern Ave nwood, Ny				B. Generator's ID							
	5. Transporter 1 (Company Name) Trade-Winds Environmental 7. Transporter 2 (Company Name) 6. US EPA ID Number N Y O D O D 9 3 6 3 8 5							C. State Transporter's ID 788787						
								D. Transporter's Phone 516 755-400 E. State Transporter's ID						
								F. Transporter's Phone (
	Radiac Research Corporation							ate Facility's ID	·L · D·	roolel ve	,			
	261 Kent Avenue						33 S. First St. Brooklyn H Facility's Phone 6 (718) 963-2233							
		Brooklyn, NY 11211				12. Conta		13.	14.					
		, US DOT Description (Including Proper Shi				No.	Туре	Total Quantity	Unit WI/Vol	l. <u>Waste N</u> i EPA	D			
GEN	ä.	RQ Waste environmentally (Hercury) (D009)	y hazardou	s solid N.O	o.s.				-	DOO9_				
H		9UN_3077PGIIIE	RG#171			002	рм	00400						
7 0	b.			·					_	EPA				
R								111		STATE				
	C.									EPA				
							,	111	-	STATE				
	d.		·			·				EPA				
						,	,		-	STATE				
	J.	Addition, Descriptions for Materials listed	Abova			·	K. H	andling Codes fo	wastes	Listed A <u>50</u>	 ve			
	ü		l _ -			r	a		c	<u> <u> </u></u>				
										Г	٦Ì			
	15.	Epecial Handling Instructions and Against Emergency contact: Tradia. B302 M121	na Islamation le-Winds 5	516 755–40	00	1!	_ <u>.</u>		<u>d</u>		=			
	ıċ	GENERATOR'S CENTIFICATION: 1 her classified picked manufacture distinct and ac-	eng malland flad for the all respects on p	e contents of line con paper continue to t	را بند استندروند و را را احدودسا	ally atol mate firmly accord	ادانان شر اما ان هزا	stations above by p	roper snippi nal arid nal	ing name and	d are ment			
!		regulations and state has and regulations. It I am a large quantity generator, I certify that I is practicable and that I have been to fitte practical for all cars and many continues.	the melmed breating	al, storage or major.	al continuity and	diable to me	which m	inmizes the preser	t and luture	threat to hi	usu l			
	7	its affigued frame (APMFor)		Sagnata	0	78			Mo	Day	ارخ و			
: . 	X	CHARLES WHARTO	Not Male to the	X arian	Teo M	mar	ton			511-91	<u> </u>			
: ii	Pı	Typ ame		Signi	····/		·		Mo		Year			
, S	_	15015 WATE		I feet	M			·	G	5/4	18 6			
ONTER		. Transporter 2 (Acknowledgement or Recei inted/Typed Name	pt of Materials)	Signature					Mo	o. Day	Year C			
FA	19	. Discrepancy Indication Space		· · · · · · · · · · · · · · · · · · ·							٠ ر			
C	20	. Facility Owner or Operator: Certification (of receipt of haza	ardous materials ci	overed by thi	s manifest	ехсері	as noted in Item	19.					
; T	P	nted/Tyed Name		Signature		1	<u> </u>		Mo	Day	Ÿŝö'			
Y	<u>_</u>	LEAS LAMACH	2				12		C,	<u> </u>	10			
1116	l For	m 8700-22 (Rev. 9-88) Previous editions are o	opsolete.											

GALSON OFFICES:

Albany 518-453-6444

New York Metro Area 800-966-7014

Philadelphia 800-220-7288

Rochester 716-381-2210

Syracuse 800-950-0506

Visit our website at www.galson.com

HACAPIA S

AND A PROPERTY S

A

