



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
**Site Classification Report**



5/24/2011

<b>Site Code:</b> 152029	<b>Site Name:</b> Spectrum Finishing Corp.
<b>City:</b> West Babylon	<b>Town:</b> Babylon
<b>Region:</b> 1	<b>County:</b> Suffolk
<b>Current Classification:</b> 02	<b>Proposed Classification:</b> 04
<b>Estimated Size (acres):</b> 2.30	<b>Disposal Area:</b> Structure
<b>Significant Threat:</b> Previously	<b>Site Type:</b>
<b>Priority ranking Score:</b> 265	<b>Project Manager:</b> David Chiusano

**Summary of Approvals**

<b>Originator/Supervisor:</b> Gerard Burke	<b>03/22/2011</b>
<b>RHWRE:</b> Walter Parish:	<b>04/19/2011</b>
<b>BEEI of NYSDOH:</b>	<b>05/19/2011</b>
<b>CO Bureau Director:</b> Michael Cruden, Director, Remedial Bureau E:	<b>04/15/2011</b>
<b>Assistant Division Director:</b> Robert Schick:	<b>05/24/2011</b>

**Site Description**

**Location:** The Spectrum Finishing site ("Site") is located at 50 Dale Street and within the shared parking lots of 60 Dale St., 51 Cabot Str., and 61 Cabot St. in the Pinelawn Industrial Area in the Town of Babylon, Suffolk County, New York. The site is situated between Cabot Street on the west side and Dale Street on the east side.

**Predominant Site Features:** The Spectrum site is currently a fenced-in empty lot surrounded by a paved parking lot and three occupied 1 story buildings, totalling approximately 2.3 acres in size.

**Site Geology:** The overburden deposits encountered at the site consists of fill material, underneath which is glacial outwash underlain by a confining clay layer. The Upper Glacial Aquifer was observed to extend about 90-feet below ground surface (bgs); however, aquifer thickness does vary throughout the site. The sands in the Upper Glacial Aquifer are continuous across the site and is the predominate water-bearing unit investigated at the site. The depth to the confining clay layer is 90-feet bgs. The Gardiners Clay is considered relatively impermeable and appears to act as a barrier to the downward movement of water. The water table is observed at about 18 feet bgs at the Site.

**Current Use:** The Pinelawn Industrial Area is a high density industrial area.

**Surrounding Uses:** The site is bounded by cemeteries and open land on the north, south and west sides and a residential area lies to the east.

**Historical Sources of Contamination:** Spectrum Finishing operated at this site from 1968 to 1994. The



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company specialized in electroplating high strength alloys and descaling titanium alloys for the aerospace industry. The site and surrounding area are provided with public water. However, storm and sanitary sewage are discharged into stormwater dry wells and sanitary septic systems, respectively. Site inspections and sampling from 1970 to 1975, by the Suffolk County Department of Health Services revealed discharges of hazardous wastes into storm drains and leaks from holding tanks. High levels of heavy metals were noted from sediment samples taken from a leaching tank, the storm drains and site runoff.

Investigations/Actions Performed to Date: Since potentially responsible parties were unable/unwilling to perform investigation work, the NYSDEC began a state-funded Remedial Investigation/Feasibility Study (RI/FS) to determine the extent of soil and groundwater contamination. Sampling activities were completed between June 1999 - May 2001. The RI revealed that the primary contaminant type in the subsurface soils are inorganics (metals). The metals contaminated areas included cesspools and the drainage structures, the alleyway and the area within and surrounding the sump inside the building. The shallow groundwater underlying the site was determined to be contaminated by volatile organic compounds and metals.

Potential remedial alternatives for the Spectrum site were identified, screened and evaluated during the FS. Based on the RI and FS, the NYSDEC issued a Record of Decision (ROD) document dated March 2003 which selected a remedy generally consisting of soil excavation and off-site disposal of contaminated soils within identified source areas, one of which is in an area situated beneath and adjacent to a sump pit within the interior of the former Spectrum building. The NYSDEC funded remedial design investigations of the soil, groundwater, and soil gas at the site were completed in 2007. In March 2008 the ROD remedy was changed by way of an Explanation of Significant Differences (ESD) issued by the NYSDEC. The purpose of the ESD was to describe how the contaminated soils situated beneath and adjacent to the sump within the former Spectrum building located at 50 Dale Street was to be addressed during remediation. Because of structural problems and related safety concerns, the NYSDEC determined that the building was required to be demolished before the contaminated soils below and adjacent to the sump could be excavated.

Engineering design of the cleanup remedy was completed by the NYSDEC in April 2008. Bids for the cleanup contract were opened in May 2008. EnviroTrac Environmental Services (EnviroTrac) of Ronkonkoma, New York was awarded the contract and given formal notice to proceed with the project on September 22, 2008. The remedial action was completed in July 2009. Final Engineering Report approved in March 2010. The Site Management Plan (SMP) approved in August 2010. A Deed Restriction was recorded with the Suffolk County Clerk's Office on March 1, 2011.

Current Actions: The site is being monitored and maintained in accordance with the August 2010 SMP.

Contaminants of Concern (Including Materials Disposed)	Quantity Disposed
<b>OU 01</b>	
CADMIUM, CHROMIUM, COPPER, NICKEL, ZINC,	0.00
TOLUENE	0.00
METHYL-ETHYL-KETONE (MEK: A.K.A. 2-BUTANONE)	0.00

**Analytical Data Available for :** Groundwater, Soil, Sediment

**Applicable Standards Exceeded for:** Groundwater



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### Site Environmental Assessment

Remediation of the site was completed in July 2009. Completion of the remedial action in July 2009 has addressed the soil contamination. Prior to remediation, the primary contaminants of concern included heavy metals and Volatile Organic Compounds in groundwater (Cd, Cr, Cu, Ni, and PCE) and heavy metals in on-site soils (Cd, Cr, Cu, and Ni) at concentrations that were found to exceed Standards, Criteria, and Guidance (SCG) values.

During the remedial construction, additional remediation work was conducted that included the removal of additional contaminated soils beneath the former Spectrum building. The contaminated soils were removed to the extent practical but levels of contamination above cleanup goals for metals still remain at the following locations and depths:

- 1) East Alleyway at depths greater than 4 feet bgs; additional removal was not practical due to the adjacent building foundation;
- 2) Sump areas beneath 50 Dale Street – the south east sidewall near the east alleyway and the bottom of the sump excavation below approximately 13 to 15 feet bgs.
- 3) Additional removal would jeopardize the foundation of 40 Dale Street.
- 4) Cesspool structures were cleaned to the bottom of the structure (approximately 15 to 18 feet bgs) and groundwater was entering the structure being cleaned and it was not practical to continue removing material.
- 5) Drainage structures were cleaned to the bottom of the structure (approximately 15 to 18 feet bgs) and groundwater was entering the structure being cleaned and it was not practical to continue removing material.

Upgradient monitoring wells, on-site monitoring wells and three downgradient outpost groundwater monitoring wells have been installed for long term monitoring purposes. On-site monitoring wells were last sampled in September 2007. Tetrachloroethene (PCE) and trichloroethene (TCE) were the only VOCs detected in eight of the eleven monitoring wells sampled. PCE was detected above the standard of 5.0 micrograms per liter (ug/L) in six of the eleven wells with concentrations ranging from 12 ug/L to 140 ug/L. TCE was detected in one well at 12 ug/L. Metal concentrations exceeded standards for aluminum, antimony, cadmium, chromium, copper, iron, lead, manganese and nickel in four wells with the highest concentrations found in two downgradient wells in the direction of groundwater flow.

The PCE contamination in groundwater does not appear to be widespread and has decreased since the initial drum removal and 2001 sample round. Contamination in the shallow aquifer appears to be traveling with the groundwater flow in the southeasterly direction.

The downgradient outpost monitoring wells were installed and last sampled by the NYSDEC in February 2009. Site specific contaminants of concern were not detected in any of the samples analyzed.

A soil gas investigation was conducted by the NYSDEC in 2007. A total of thirty-six on-site and off-site subsurface soil vapor samples were analyzed by for VOCs. The on-site soil vapor intrusion investigation was limited due to the condition of the former Spectrum building. The results were compared to the NYSDOH



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sub-slab vapor concentrations to determine if additional investigation may be necessary. Elevated levels of PCE and TCE were found in the shallow and deep subsurface soil vapor samples at the Site and surrounding area. PCE concentrations in the shallow samples ranged from 5 to 1,817 micrograms per cubic meter (ug/m<sup>3</sup>) and 5 to 2,042 ug/m<sup>3</sup> in a deep sample. TCE concentrations in the shallow samples ranged from 1 to 186 ug/m<sup>3</sup> and 1 to 105 ug/m<sup>3</sup> in the deep sample.

This site no longer presents a significant threat to the environment. Requirements of the March 2003 ROD and March 2008 ESD have been met. The site management plan for the site was approved by the NYSDEC in August 2010. In addition, a Declaration of Covenants and Restrictions (DCR) was developed and filed with the Suffolk County Clerk's Office to address residual contaminated soils remaining at depth that may be excavated from the site during future redevelopment, restricts future use of groundwater at the site, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

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### Site Health Assessment

Since some contaminated soils remain at the site below concrete or clean backfill, people will not come in contact with contaminated soils unless they dig below the surface materials. Contaminated groundwater is not used for drinking water purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development. Sampling indicates soil vapor intrusion is not a concern for off-site buildings.

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### Remedy Description and Cost

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#### Remedy Description for Operable Unit 01

Excavation and disposal of contaminated soils, installation and monitoring of outpost wells and soil management plan for residual soils.

**Total Cost** \$805,000

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#### Remedy Description for Operable Unit 01A

Emergency removal of liquid wastes contained in approximately 300 drums, vats, tanks and sumps. Also included in the removal action was disposal of solid wastes and power washing/stripping of floors and walls.

**Total Cost**

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#### Remedy Description for Operable Unit 01B



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**Total Cost**

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**OU 00      Site Management Plan Approval: 03/17/2010      Status: ACT**

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**Basis for Classification Change**

Remediation was completed in 07/09. Contaminated soils were removed to the extent practical, but contamination above metals cleanup goals remain in the east alleyway (4 feet bgs), southeast sidewall near the east alleyway and the bottom of the sump excavation (below 13-15 feet bgs), cesspool structures CP-3, CP-4, CP-7, CP-8 and CP-10 (15-18 feet bgs), and drainage structures DS-1, DS-5, DS-6, DS-9 and DS-12 (15-18 feet bgs).

The site is currently being managed per the 08/10 Site Management Plan (SMP). A Declaration of Covenants and Restrictions (DCR) was filed with the Suffolk Co. Clerk's Office on 03/01/11 (Liber D00012652/Pg 617). The DCR runs with the land, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

Sentinel monitoring wells were installed in 2008 in front of 457 17th St., at the intersection of 17th St. and 7th Ave. The area is serviced by public water. No site-related contamination has been detected in the Suffolk Co. water supply well located 1 mi. south of the site on 10th St. or in any production wells associated with the adjacent cemeteries. The DCR will prevent the use of groundwater as a source of potable or process water on-site.

A soil gas investigation was conducted in 2007. Elevated VOCs were found in soil vapor at the Site and surrounding area. Soil vapor in the area will be further evaluated as necessary during site management.

This site no longer presents a significant threat to public health and/or the environment. All requirements of the 03/03 ROD, 03/08 ESD, and 10/07 RA Contract have been met. The SMP has been approved, and remedial activities have removed the significant threat. The approved SMP will provide periodic verification. Supporting information can be found in edocs folder: L:\DER\edocs\Site-Specific\1\suffolk\babylon\Spectrum Finishing Corporation

**NEW YORK**  
state department of  
**HEALTH**

Nirav R. Shah, M.D., M.P.H.  
Commissioner

Sue Kelly  
Executive Deputy Commissioner

May 9, 2011

Mr. Michael Cruden, Bureau Director  
Remedial Bureau E  
Division of Environmental Remediation  
NYS Department of Environmental Conservation  
625 Broadway – 12<sup>th</sup> Floor  
Albany, NY 12233-7011

Re: Classification Package  
Spectrum Finishing  
Site #152029  
West Babylon (V), Suffolk County

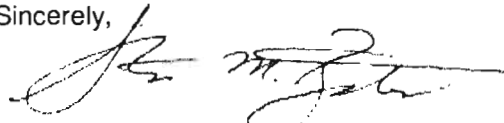
Dear Mr. Cruden:

Staff reviewed the Classification Package for the Spectrum Finishing site located in West Babylon, Suffolk County. Based on that review, I understand that soil and groundwater were contaminated by improper disposal of plating wastes, specifically heavy metals and volatile organic compounds. The site remedy consisted of limited excavation and off-site disposal of contaminated soils from the cesspools, drainage structures, alleyways, the sump pit and area adjacent to the sump pit. It also included the installation and monitoring of outpost wells and monitoring of existing wells. However, the February 2008 Explanation of Significant Differences modified the remedy to demolition of the existing on-site building and excavation of contaminated soils from the cesspools, drainage structures, alleyways and sump pit with off-site disposal of contaminated soils.

The remedial action was completed in July 2009 and the Final Engineering Report was approved in March 2010. In addition, a Site Management Plan (SMP) has been implemented and enforced via a deed restriction to monitor and maintain remaining contamination on-site. The SMP includes a requirement for soil vapor intrusion evaluation prior to new construction on-site, annual groundwater monitoring to assess remedy effectiveness, and a restriction of site use to commercial/industrial.

Based on this information, I concur with the proposal to change the site classification for the Spectrum Finishing site from a Class 2 to a Class 4. If you should have any questions concerning this issue, please contact me at (518) 402-7880.

Sincerely,



Steven M. Bates, Acting Director  
Bureau of Environmental Exposure Investigation

Spectrum Finishing Site  
Site No. 152029  
West Babylon, Suffolk County

**Reclass Package List of Figures:**

- Contaminant Concentrations Remaining in Soil Following Remediation
- Spectrum Finishing Site Location Maps
- Deed Restricted Areas of Spectrum Finishing Site
- Deed Restriction Metes and bounds Description

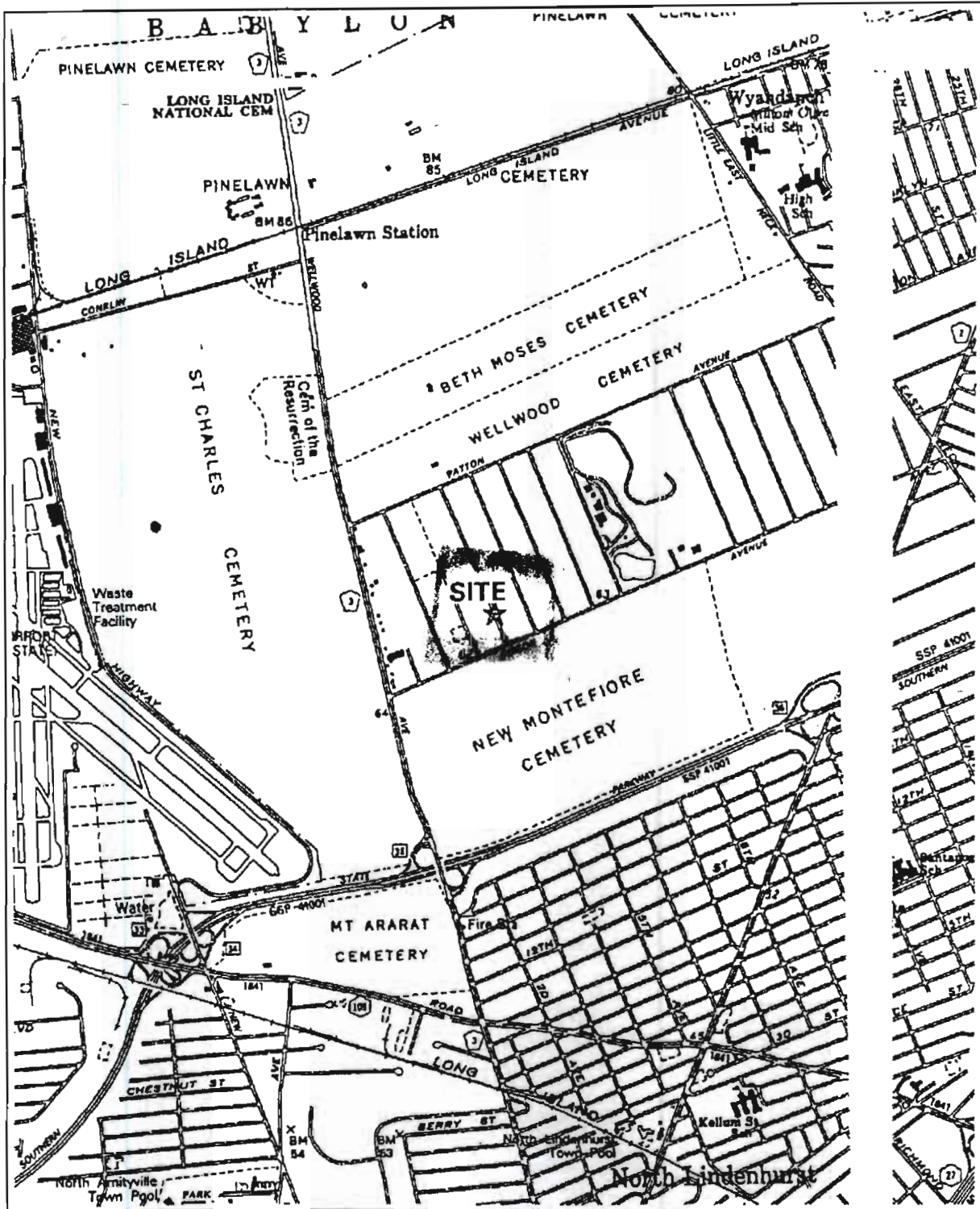
**TABLE 1**  
**Spectrum Finishing Corporation**  
**Site Management Plan**

**Soil Exceedances Above Commercial/Industrial Standards**

	DER-10 Commercial/ Industrial Use	Sample Location									
		DS-1 (15'-18')	DS-5 (15'-18')	DS-9 (15'-18')	CP-3 (15'-18')	CP-4 (15'-18')	CP-7 (15'-18')	CP-8 (15'-18')	East Alleyway (4')	Sump Excavation (18')	Sump Excavation Sidewall
Cadmium	7.5	35	23	41	270	492	74	29	673	447	138
Chromium	1500	28	262	46	347	1,728	95	214	368	401	170
Copper	270	12	293	512	300	767	34	560	655	54	90
Nickel	130	21	44	30	236	1,010	58	166	463	106	1,440

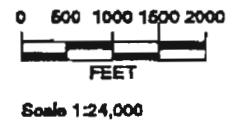
All Concentrations are in PPM

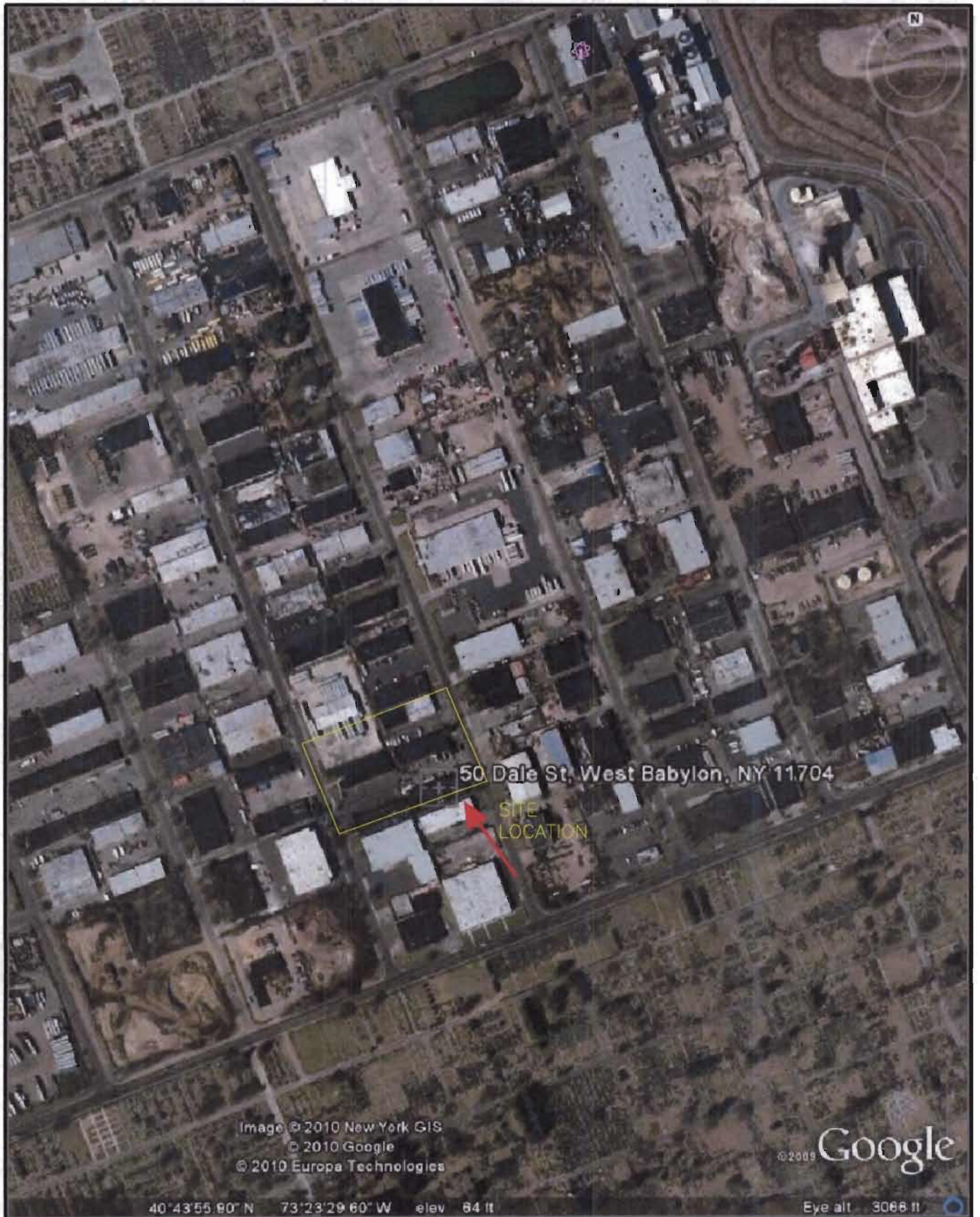




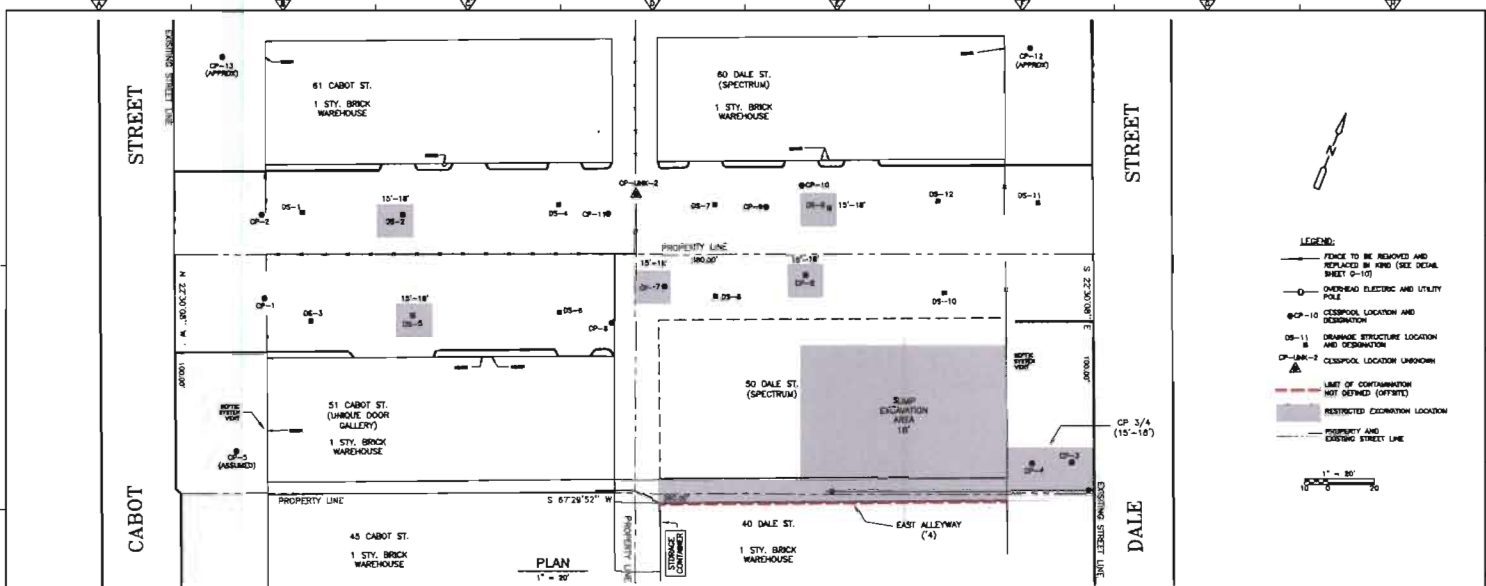
**Site Location Map**

152029 Spectrum Finishing Corp.  
 NYSDOT Planimetric Quadrangle(s):  
 GREENLAWN, HUNTINGTON, BAY SHORE WEST, AMITYVILLE





SITE LOCATION MAP SPECTRUM FINISHING CORP.	DATE <u>JUNE 2010</u>	SITE MANAGEMENT PLAN	FIGURE NO.
<b>CDM</b> Camp Dresser & McKee			1



- LEGEND:**
- FENCE TO BE REMOVED AND REPLACED BY FENCE (SEE DETAIL SHEET 0-10)
  - OVERHEAD ELECTRIC AND UTILITY POLE
  - CP-10 CESSPOOL LOCATION AND DESIGNATION
  - DS-11 DRAINAGE STRUCTURE LOCATION AND DESIGNATION
  - CP-10M-2 CESSPOOL LOCATION UNKNOWN
  - LIMIT OF CONTAMINATION NOT DETERMINED (NOTED)
  - RESTRICTED EXCAVATION LOCATION
  - PROPERTY AND EXISTING STREET LINE



- NOTES:**
1. THE DEPTHS AT WHICH CONTAMINATED SOILS MAY BE ENCOUNTERED SHOWN ON THE FIGURE ARE APPROXIMATE DEPTHS OF WHERE CONTAMINATION BEGINS.
  2. THE LIMITS AND DEPTHS OF CONTAMINATED SOILS ARE BASED ON CURRENT INFORMATION. CONTAMINATION MAY EXIST OUTSIDE OF THOSE AREAS AND AT SHALLOWER DEPTHS THAN INDICATED.
  3. THE SITE IS RESTRICTED TO COMMERCIAL/INDUSTRIAL USE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE SUCH AS RESIDENTIAL.
  4. THE GROUNDWATER TABLE BENEATH THE SITE IS CONTAMINATED AND NOT ACCEPTABLE FOR USE AS A POTABLE WATER SUPPLY OR FOR IRRIGATION.
  5. ONLY PORTION OF BUILDING FLOOR SLAB REMAINS AT 60 DALE BUILDING WAS DEMOLISHED AS PART OF REDEMPTION.

**WARNING:**  
 THIS PLAN IS THE PROPERTY OF CDM. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CDM. THE USER OF THIS PLAN ASSUMES ALL LIABILITY FOR ANY DAMAGE, LOSS, OR INJURY RESULTING FROM THE USE OF THIS PLAN.

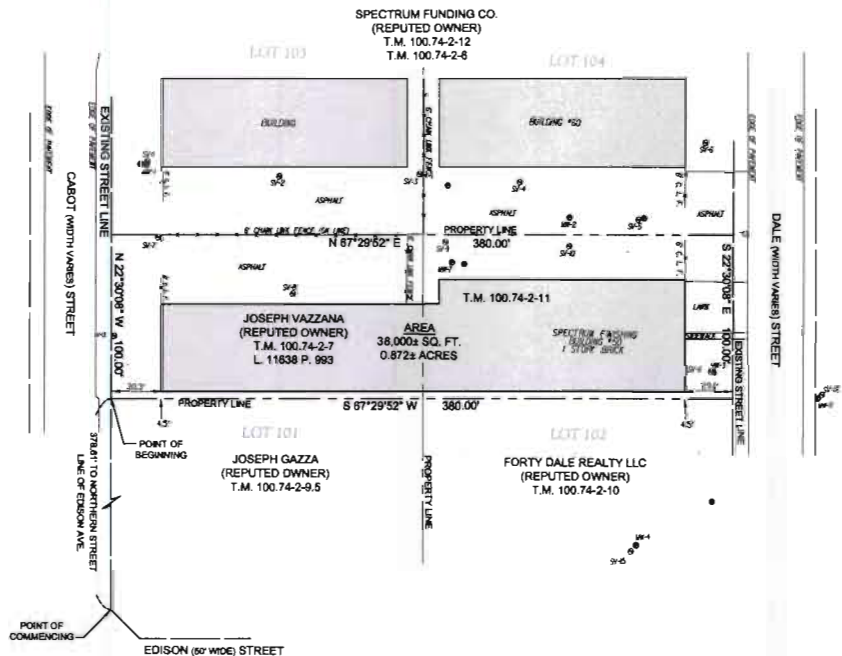
NO.	DATE	CHKD	BY	REVISIONS BASED ON COUNTY COMMENTS

**CDM**  
 CONSTRUCTION DOCUMENTS  
 11 Main Street  
 10000  
 410 (914) 439-2000  
 www.cdm.com

NYB062  
 CONTRACT NO. 0006356  
**SPECTRUM FINISHING CORPORATION**  
 BABYLON, NEW YORK

**EXCAVATION RESTRICTION AREAS**  
 PROJECT NO. 0807-08000  
 SHEET NO. 4.444  
**FIGURE 4**

% SUBMITTAL PLACEHOLDER - EDIT AS NECESSARY



**SURVEY NOTES**

- HORIZONTAL LOCATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DAUM 1983 / 96 - UTM ZONE 18.
- PROJECT UNITS ARE U.S. SURVEY FEET.
- VERTICAL LOCATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

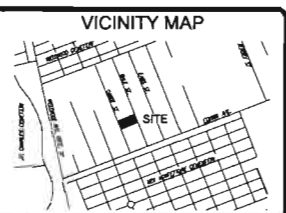
**LEGAL DESCRIPTION**

All that piece or parcel of land being a portion of Lots 101 & 102 as shown on a map titled "Map of City of Breslau, Sheet 9" and filed with the Suffolk County Clerk April 22, 1881 as File No. 330; also known as Tax Map Number 100.74, Block 2, Parcels 7 and 11, situate in the Town of Babylon, County of Suffolk and State of New York and being more particularly described as follows:

COMMENCING at a point formed by the intersection of the northerly street line of Edison Avenue, an existing town road, thence; Northwesterly along the easterly line of Cabot Street an existing town road, thence; Northwesterly along the easterly line of Cabot Street a distance of 378.61 feet to the point of BEGINNING, said point being on the division line between the property of Joseph Vazzana (reputed owner) on the north and the property of Joseph Gazza (reputed owner) on the south, thence; North 22°30'08" West continuing along the easterly street line of Cabot Street a distance of 100.00 feet to a point, said point being on the division line between the property of Joseph Vazzana (reputed owner) on the south and the property of Spectrum Funding Co. (reputed owner) on the north, thence; North 67°29'52" East along the last mentioned division line a distance of 380.00 feet to a point on the westerly street line, as widened, of Dale Street an existing town road, thence; South 22°30'08" East along the westerly line of said street a distance of 100.00 feet to point, said point being on the division line between the property of Joseph Vazzana (reputed owner) on the north and the property of Forty Dale Realty LLC (reputed owner) on the south, thence; South 67°29'52" West along the last mentioned division line and continuing along the first mentioned division line a total distance of 380.00 feet to the point of beginning, being 38,000± square feet or 0.872± acres, more or less.

**REFERENCES**

- MAP ENTITLED, "CITY OF BRESLAU, SUFFOLK CO. N.Y., COMPRISING SHEET 9", SURVEYED BY R.B. WHEELER, DATED OCTOBER 1880, FILED AS FILE NO. 330 & DATED APRIL 22, 1881.
- DEED, FILED IN LIBER 8807 AT PAGE 482.
- DEED, FILED IN LIBER 11638 AT PAGE 993.
- DEED, FILED IN LIBER 12184 AT PAGE 124.



**LEGEND**

- T.M. TAX MAP
- ⊙ MONITORING WELL
- ⊕ GEODETIC DRILL HOLE
- UTILITY POLE

**CERTIFICATION**

WE, PEOPLE ARCHITECTURE + ENGINEERING & L.S., P.C., HEREBY CERTIFY THAT THIS SURVEY AND MAP WAS PREPARED UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR AND FROM THE NOTES OF AN INSTRUMENT SURVEY COMPLETED MAY 2, 2007 AND THE REFERENCES LISTED HEREON. THIS SURVEY IS SUBJECT TO ANY EASEMENTS AND/OR ENCUMBRANCES AN UP-TO-DATE ABSTRACT OF TITLE MAY REVEAL.



MICHAEL A. VENTUROLI, L.S. 5078  
FOR PEOPLE DESIGN GROUP  
PHONE: (516) 331-2000

SURVEY BY: <b>CDM</b>		PREPARED FOR:
POPUL DESIGN GROUP	SURVEYOR JOB NUMBER: 327701	
DESIGNER: JI. PHILLIPS	SURVEY CREW: JI. PHILLIPS, M. STRATTON	
CHECKED BY: M. VENTUROLI		
REVISIONS		
8/30/10	REVISED LOGS, ADDED LEGAL DESCRIPTION, REMOVED SAMPLE TABLE	

**BOUNDARY SURVEY & MAP**  
OF  
**SPECTRUM FINISHING CORPORATION SITE**  
N.Y.S. D.E.C. SITE I.D. NO. 1-52-0209  
Being a portion of the Western Division of the Squaw Pit Purchase  
Town of Babylon, County of Suffolk, State of New York  
DATE: JUNE, 2007 SCALE: 1" = 40'

**New York State Department of Environmental Conservation**  
**Division of Environmental Remediation**  
**Bureau of Technical Support, 11<sup>th</sup> Floor**  
625 Broadway, Albany, NY 12233-7020  
Phone: (518) 402-9553 • Fax: (518) 402-9547  
Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Joe Martens  
Commissioner

**MAY 31 2011**

Estate of J. Vazzana, Sr.  
J. Vazzana, Jr. – Executor  
Spectrum Finishing Corp.  
73 Lambert Avenue  
Mastic, New York 11950

Dear Mr. Vazzana:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), the New York State Department of Environmental Conservation (Department) must maintain a Registry of all inactive disposal sites suspected or known to contain hazardous waste. The ECL also mandates that this Department notify the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites as to changes in site classification.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of change in the classification of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

**DEC Site No.:** 152029

**Site Name:** Spectrum Finishing

**Site Address:** 50 Dale Street, West Babylon, NY 11704

Classification change from Class 2 to Class 4

The reason for the change is as follows:

- The remedial action was completed in July 2009 and the Final Engineering Report was approved in March 2010. In addition, a Site Management Plan has been implemented and enforced via a deed restriction to monitor and maintain remaining contamination on-site. The SMP includes a requirement for soil vapor intrusion evaluation prior to new construction on-site, annual groundwater monitoring to assess remedy effectiveness, and a restriction of site use to commercial/industrial.



INTERNATIONAL YEAR  
OF FORESTS - 2011

Enclosed is a copy of the Department's Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry. An explanation of the site classifications is available at <http://www.dec.ny.gov/chemical/8663.html>. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition.

Such petition may be addressed to:

Honorable Joseph J. Martens  
Commissioner  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233-1010

For additional information, please contact David Chiusano, the project manager at 518-402-9814.

Sincerely,



Kelly A. Lewandowski, P.E.  
Chief  
Site Control Section

Enclosures

cc: D. Desnoyers  
D. Weigel  
A. English  
K. Lewandowski  
D. Chiusano

bec: w/Enc.  
S. Bates, NYSDOH  
M. Cruden, Director, Remedial Bureau  
C. Elgut, Regional Attorney, Region 1  
R. Evans, Regional Permit Administrator, Region 1  
W. Parish, RHWRE, Region 1  
R. Rusinko, OGC  
S. Heigel



**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL  
CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
Inactive Hazardous Waste Disposal Report**



<b>Site Code</b>	152029			
<b>Site Name</b>	Spectrum Finishing Corp.	<b>Address</b>	50 Dale Street	
<b>Classification</b>	04	<b>City</b>	West Babylon	<b>Zip</b> 11704
<b>Region</b>	1	<b>County</b>	Suffolk	<b>Town</b> Babylon
<b>Latitude</b>	40 degrees, 43 minutes, 49.80 seconds			<b>Estimated Size</b> 2.3000
<b>Longitude</b>	-73 degrees, 23 minutes, 29.29 seconds			
<b>Site Type</b>		<b>Disposal Area</b>	Structure	

### Site Description

**Location:** The Spectrum Finishing site ("Site") is located at 50 Dale Street and within the shared parking lots of 60 Dale St., 51 Cabot Str., and 61 Cabot St. in the Pinelawn Industrial Area in the Town of Babylon, Suffolk County, New York. The site is situated between Cabot Street on the west side and Dale Street on the east side.

**Predominant Site Features:** The Spectrum site is currently a fenced-in empty lot surrounded by a paved parking lot and three occupied 1 story buildings, totalling approximately 2.3 acres in size.

**Site Geology:** The overburden deposits encountered at the site consists of fill material, underneath which is glacial outwash underlain by a confining clay layer. The Upper Glacial Aquifer was observed to extend about 90-feet below ground surface (bgs); however, aquifer thickness does vary throughout the site. The sands in the Upper Glacial Aquifer are continuous across the site and is the predominate water-bearing unit investigated at the site. The depth to the confining clay layer is 90-feet bgs. The Gardiners Clay is considered relatively impermeable and appears to act as a barrier to the downward movement of water. The water table is observed at about 18 feet bgs at the Site.

**Current Use:** The Pinelawn Industrial Area is a high density industrial area.

**Surrounding Uses:** The site is bounded by cemeteries and open land on the north, south and west sides and a residential area lies to the east.

**Historical Sources of Contamination:** Spectrum Finishing operated at this site from 1968 to 1994. The company specialized in electroplating high strength alloys and descaling titanium alloys for the aerospace industry. The site and surrounding area are provided with public water. However, storm and sanitary sewage are discharged into stormwater dry wells and sanitary septic systems, respectively. Site inspections and sampling from 1970 to 1975, by the Suffolk County Department of Health Services revealed discharges of hazardous wastes into storm drains and leaks from holding tanks. High levels of heavy metals were noted from sediment samples taken from a leaching tank, the storm drains and site runoff.

**Investigations/Actions Performed to Date:** Since potentially responsible parties were unable/unwilling to perform investigation work, the NYSDEC began a state-funded Remedial Investigation/Feasibility Study (RI/FS) to determine the extent of soil and groundwater contamination. Sampling activities were completed between June 1999 - May 2001. The RI revealed that the primary contaminant type in the subsurface soils are inorganics (metals). The metals contaminated areas included cesspools and the drainage structures, the alleyway and the area within and surrounding the sump inside the building. The shallow groundwater underlying the site was determined to be contaminated by volatile organic compounds and metals.

**Potential remedial alternatives** for the Spectrum site were identified, screened and evaluated during the FS. Based on the RI and FS, the NYSDEC issued a Record of Decision (ROD) document dated March 2003 which selected a remedy generally consisting of soil excavation and off-site disposal of contaminated soils within identified source areas, one of which is in an area situated beneath and adjacent to a sump pit within the interior of the former Spectrum building. The NYSDEC funded remedial design investigations of the soil, groundwater, and soil gas at the site were completed in 2007. In March 2008 the ROD remedy was changed by way of an Explanation of Significant Differences (ESD) issued by the NYSDEC. The purpose of the ESD was to describe how the contaminated soils situated beneath and adjacent to the sump within the former Spectrum building located at 50 Dale Street was to be addressed during remediation. Because of structural problems and related safety concerns, the NYSDEC determined that the building was required to be demolished before the contaminated soils below and adjacent to the sump could be excavated.

Engineering design of the cleanup remedy was completed by the NYSDEC in April 2008. Bids for the cleanup contract were opened in May 2008. EnviroTrac Environmental Services (EnviroTrac) of Ronkonkoma, New York was awarded the contract and given



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formal notice to proceed with the project on September 22, 2008. The remedial action was completed in July 2009. Final Engineering Report approved in March 2010. The Site Management Plan (SMP) approved in August 2010. A Deed Restriction was recorded with the Suffolk County Clerk's Office on March 1, 2011.

Current Actions: The site is being monitored and maintained in accordance with the August 2010 SMP.

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<b>Contaminants of Concern (Including Materials Disposed)</b>	<b>Quantity</b>
<b>OU 01</b>	
CADMIUM, CHROMIUM, COPPER, NICKEL, ZINC,	0.00
TOLUENE	0.00
METHYL-ETHYL-KETONE (MEK: A.K.A. 2-BUTANONE)	0.00

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Analytical Data Available for : Groundwater, Soil, Sediment

Applicable Standards Exceeded for: Groundwater

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### Site Environmental Assessment

Remediation of the site was completed in July 2009. Completion of the remedial action in July 2009 has addressed the soil contamination. Prior to remediation, the primary contaminants of concern included heavy metals and Volatile Organic Compounds in groundwater (Cd, Cr, Cu, Ni, and PCE) and heavy metals in on-site soils (Cd, Cr, Cu, and Ni) at concentrations that were found to exceed Standards, Criteria, and Guidance (SCG) values.

During the remedial construction, additional remediation work was conducted that included the removal of additional contaminated soils beneath the former Spectrum building. The contaminated soils were removed to the extent practical but levels of contamination above cleanup goals for metals still remain at the following locations and depths:

- 1) East Alleyway at depths greater than 4 feet bgs; additional removal was not practical due to the adjacent building foundation;
- 2) Sump areas beneath 50 Dale Street – the south east sidewall near the east alleyway and the bottom of the sump excavation below approximately 13 to 15 feet bgs.
- 3) Additional removal would jeopardize the foundation of 40 Dale Street.
- 4) Cesspool structures were cleaned to the bottom of the structure (approximately 15 to 18 feet bgs) and groundwater was entering the structure being cleaned and it was not practical to continue removing material.
- 5) Drainage structures were cleaned to the bottom of the structure (approximately 15 to 18 feet bgs) and groundwater was entering the structure being cleaned and it was not practical to continue removing material.

Upgradient monitoring wells, on-site monitoring wells and three downgradient outpost groundwater monitoring wells have been installed for long term monitoring purposes. On-site monitoring wells were last sampled in September 2007. Tetrachloroethene (PCE) and trichloroethene (TCE) were the only VOCs detected in eight of the eleven monitoring wells sampled. PCE was detected above the standard of 5.0 micrograms per liter (ug/L) in six of the eleven wells with concentrations ranging from 12 ug/L to 140 ug/L. TCE was detected in one well at 12 ug/L. Metal concentrations exceeded standards for aluminum, antimony, cadmium, chromium, copper, iron, lead, manganese and nickel in four wells with the highest concentrations found in two downgradient wells in the direction of groundwater flow.

The PCE contamination in groundwater does not appear to be widespread and has decreased since the initial drum removal and 2001 sample round. Contamination in the shallow aquifer appears to be traveling with the groundwater flow in the southeasterly direction.

The downgradient outpost monitoring wells were installed and last sampled by the NYSDEC in February 2009. Site specific contaminants of concern were not detected in any of the samples analyzed.

A soil gas investigation was conducted by the NYSDEC in 2007. A total of thirty-six on-site and off-site subsurface soil vapor samples were analyzed by for VOCs. The on-site soil vapor intrusion investigation was limited due to the condition of the former Spectrum building. The results were compared to the NYSDOH sub-slab vapor concentrations to determine if additional investigation may be necessary. Elevated levels of PCE and TCE were found in the shallow and deep subsurface soil vapor samples at the Site and surrounding area. PCE concentrations in the shallow samples ranged from 5 to 1,817 micrograms per cubic meter (ug/m<sup>3</sup>) and 5 to 2,042 ug/m<sup>3</sup> in a deep sample. TCE concentrations in the shallow samples ranged from 1 to 186 ug/m<sup>3</sup> and 1 to 105 ug/m<sup>3</sup> in the deep sample.

This site no longer presents a significant threat to the environment. Requirements of the March 2003 ROD and March 2008 ESD have been met. The site management plan for the site was approved by the NYSDEC in August 2010. In addition, a Declaration of Covenants and Restrictions (DCR) was developed and filed with the Suffolk County Clerk's Office to address residual contaminated

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soils remaining at depth that may be excavated from the site during future redevelopment, restricts future use of groundwater at the site, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

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## Site Health Assessment

Since some contaminated soils remain at the site below concrete or clean backfill, people will not come in contact with contaminated soils unless they dig below the surface materials. Contaminated groundwater is not used for drinking water purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development. Sampling indicates soil vapor intrusion is not a concern for off-site buildings.

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### Owners

#### Current Owner(s)

Estate of J. Vazzana, Sr./J Vazzana, Jr. - Executor

Spectrum Finishing Corp.

73 Lambert Avenue

Mastic NY 11950

Spectrum Finishing Corporation

50 Dale Street

West Babylon NY 11704

#### Disposal Owner(s)

WILLIAM DECHIRICO (VICE PRESIDENT)

ZZ

### Operators

#### Current Operator(s)

Joseph Vazzana, Jr

Spectrum Finishing Corporation

73 Lambert Avenue

Mastic NY 11950

WILLIAM DICHIRICO

WILLIAM DECHIRICO (VICE PRESIDENT)

50 DALE ST.

WEST BABYLON NY 11704



**PUBLIC NOTICE**

**State Superfund Program**

Receive Site Information by Email. See "For More Information" to Learn How.

**Site Name:** Spectrum Finishing Corp.

**June 24, 2011**

**Site No.** 152029 **Tax Map Nos.** 100-74-2-7; 100-74-2-6; 100-74-2-11; and 100-74-2-12

**Site Location:** 50 Dale Street, West Babylon, New York 11704

**Inactive Hazardous Waste Disposal Site Classification Notice**

The Inactive Hazardous Waste Disposal Site Program (the State Superfund Program) is the State's program for identifying, investigating, and cleaning up sites where the disposal of hazardous waste may present a threat to public health and/or the environment. The New York State Department of Environmental Conservation (Department) maintains a list of these sites in the Registry of Inactive Hazardous Waste Disposal Sites (the "Registry"). The site identified above, and located on a map on the reverse side of this page, was recently reclassified on the Registry as a Class 4 site that no longer presents a significant threat to public health and/or the environment for the following reason(s):

The remedial action was completed in July 2009 and the Final Engineering Report was approved in March 2010. In addition, a Site Management Plan has been implemented and enforced via a deed restriction to monitor and maintain remaining contamination on-site. The SMP includes a requirement for soil vapor intrusion evaluation prior to new construction on-site, annual groundwater monitoring to assess remedy effectiveness, and a restriction of site use to commercial/industrial.

The Department will keep you informed throughout the investigation and cleanup of the site.

**If you own property adjacent to this site and are renting or leasing your property to someone else, please share this information with them. If you no longer wish to be on the contact list for this site or otherwise need to correct our records, please contact the Department's Project Manager listed below.**

**FOR MORE INFORMATION**

Additional information about this site can be found using the Department's "Environmental Site Remediation Database Search" engine which is located on the internet at:

[www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=3](http://www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=3)

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

David Chiusano, Project Manager  
NYS Department of Env. Conservation  
625 Broadway  
Albany, New York 12233-7017  
518-402-9814  
djchiusa@gw.dec.state.ny.us

The Department is sending you this notice in accordance with Environmental Conservation Law Article 27, Title 13 and its companion regulation (6 NYCRR 375-2.7(b)(6)(ii)) which requires the Department to notify all parties on the contact list for this site of this recent action.

**Approximate Site Location**  
Spectrum Finishing Corp.  
Site ID 152029  
50 Dale Street, West Babylon, NY 11704



**Receive Site Updates by Email**

Have site information such as this public notice sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page:

[www.dec.ny.gov/chemical/61092.html](http://www.dec.ny.gov/chemical/61092.html) . It's *quick*, it's *free*, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

You may continue also to receive paper copies of site information for a time after you sign up with a county listserv, until the transition to electronic distribution is complete.

**Note:** Please disregard if you received this notice by way of a county email listserv.

Honorable Ralph A. Scordino  
Mayor  
Village of Babylon  
153 West Main Street  
Babylon, NY 11702

Mr. Ed Fabrizio  
Building Department  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Ann Marie Jones  
Commissioner  
Dept. of Planning & Development  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Dennis Cohen  
Town Attorney  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Ronald Kluesener  
Chief of Staff  
Town Supervisor's Office  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Ellen T. McVeety  
Councilwoman  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Humayun J. Chadhry  
Commissioner  
Suffolk County Dept. of Health Services  
225 Rabro Drive East  
Hauppauge, NY 11788

Honorable Steve Levy  
Suffolk County Executive  
H. Lee Dennison Bldg. - 12<sup>th</sup> Floor  
100 Veterans Memorial Highway  
P.O. Box 6100  
Hauppauge, NY 11788-0099

Janice Dean  
Assistant Attorney General  
NYS Office of Attorney General  
120 Broadway, 26<sup>th</sup> Floor  
New York, NY 10271

Current Owner / Occupant  
48 Cabot Street  
West Babylon, NY 11704

Village Clerk  
Village of Babylon  
153 West Main Street  
Babylon, NY 11702

Mr. Michael J. Bernard  
Town Assessor  
Department of Assessment  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Vicky Russell  
Commissioner  
Environmental Control  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Theresa Sabatino  
Director  
Community Development  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Lindsay P. Henry  
Councilman  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Tony Martinez  
Councilman  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Robert Stricoff  
Babylon Industrial Development Agency  
47 West Main Street, Suite 3  
Babylon, NY 11702

Ms. Judith A. Pascale  
Suffolk County Clerk  
310 Center Drive  
Riverhead, NY 11901-3392

Elizabeth Leilani Davis, Esq.  
Assistant Regional Counsel  
Office of Regional Counsel  
USEPA, Region 2  
290 Broadway, 17<sup>th</sup> Floor  
New York, NY 10007

Current Owner / Occupant  
111 Cabot Street  
West Babylon, NY 11704

Honorable Jack Farrell  
Deputy Commissioner  
Building Department  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Ms. Corinne DiSomma  
Receiver of Taxes  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Janice Tinsley-Colbert  
Town Clerk  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Steve Belloné  
Town Supervisor  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Jacqueline A. Gordon  
Councilwoman  
Town of Babylon  
200 East Sunrise Highway  
Lindenhurst, NY 11757

Honorable Gilbert Anderson  
Commissioner  
Suffolk County Dept. of Public Works  
335 Yaphank Avenue  
Yaphank, NY 11980

Thomas McMahon  
Suffolk County Soil & Water  
Conservation District  
423 Griffing Avenue  
Riverhead, NY 11901

Suffolk County Water Authority  
4060 Sunrise Highway  
Oakdale, NY 11769

Current Owner / Occupant  
50-70 Cabot Street  
West Babylon, NY 11704

Current Owner / Occupant  
95 Cabot Street  
West Babylon, NY 11704

Current Owner / Occupant  
75 Cabot Street  
West Babylon, NY 11704

Current Owner / Occupant  
61 Cabot Street  
West Babylon, NY 11704

Current Owner / Occupant  
51 Cabot Street  
West Babylon, NY 11704

Joseph Gazza  
388 Broadhollow Road  
Farmingdale, NY 11735

Forty Dale Realty, LLC  
40 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
60 Dale Street  
West Babylon, NY 11704

Mr. Joseph Vazzana, Jr.  
73 Lambert Avenue  
Mastic, New York 11950

Current Owner / Occupant  
80 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
100 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
129 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
55 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
75 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
237 Edison Avenue  
West Babylon, NY 11704

Current Owner / Occupant  
45 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
35 Dale Street  
West Babylon, NY 11704

Current Owner / Occupant  
456 18<sup>th</sup> Street  
West Babylon, NY 11704

Current Owner / Occupant  
460 18<sup>th</sup> Street  
West Babylon, NY 11704

Current Owner / Occupant  
454 17<sup>th</sup> Street  
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Current Owner / Occupant  
460 17<sup>th</sup> Street  
West Babylon, NY 11704

Current Owner / Occupant  
461 17<sup>th</sup> Street  
West Babylon, NY 11704

**Electronic copies:**

D. Desnoyers, Director, Division of Environmental Remediation  
A. English, Director, Bureau of Technical Support  
K. Lewandowski, Chief, Site Control Section  
M. Cruden, Director, Remedial Bureau E  
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