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

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing
City: Elmira **Town:** Elmira (c)
Region: 8 **County:** Chemung
Current Classification: P **Proposed Classification:** 02
Estimated Size (acres): 0.85 **Disposal Area:** Structure
Significant Threat: Unknown **Site Type:** non-GPRA
Priority ranking Score: **Project Manager:** Joshua Haugh

Summary of Approvals

Originator/Supervisor: Michael Cruden	**01/23/2015**
RHWRE: Bart Putzig:	**03/18/2015**
BEEI of NYSDOH:	**03/23/2015**
CO Bureau Director: Michael Cruden, Director, Remedial Bureau E:	**03/23/2015**
Assistant Division Director: Michael J. Ryan, P.E.:	**03/31/2015**

Basis for Classification Change

The site is a significant threat due to levels of contaminants above standards, criteria, and guidance values in groundwater, sub-slab soil vapor, and soil. There is documented contravention of groundwater standards for primarily trichloroethene (TCE) and its associated chlorinated byproducts on-site and off-site (downgradient). TCE was detected in groundwater at concentrations up to 5,400 ppb on-site, 700 ppb along the downgradient property boundary, and 220 ppb off-site (downgradient). No significant contamination has been identified in the groundwater directly upgradient of the site. TCE was detected in sub-slab soil vapor beneath the site building at concentrations up to 180,000 ug/m3 in the reported vicinity of a former vapor degreaser. Action is warranted to address potential exposures related to soil vapor intrusion in on- and off-site buildings. A potential subsurface source at the site is most likely contributing to the groundwater and soil vapor contamination in the area downgradient from the site. The horizontal extent of groundwater and soil vapor contamination requires further sampling to determine the limits. In addition, elevated contaminant levels (primarily metals) have been documented in sub-slab and surface soil samples on-site, including cadmium and arsenic above Part 375 Industrial Use SCOs.

Site Description - Last Review: 03/20/2015

Location: The Triple Cities Metal Finishing site is located in an urban area in Elmira, NY. The site is located approximately 0.1 miles west of S.R. 14 (Clemens Center Parkway) off Washington Avenue at 920-926 Stowell Street.

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

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing

Site Features: The main site feature includes a large building of approximately 25,000 square feet surrounded by parking areas, roadways, vacant land, and commercial property.

Current Zoning and Land Use(s): The site is currently zoned for industrial use. The surrounding parcels are currently used for a combination of commercial uses and vacant land. A Class 2 Inactive Hazardous Waste Site (Shulman's Salvage Yard) is adjacent to the site to the east. The nearest residential area is less than 0.1 miles south on Stowell Street.

Past Use of the Site: The site is believed to have been a metal finishing facility since approximately 1950. The site is currently used by the owner primarily for storage. Site characterization activities were conducted in 2013-2014.

Site Geology and Hydrogeology: Based on drilling observations, the site area is underlain by glaciofluvial deposits comprised predominantly of very fine sand and silt deposits with gravel ranging in concentration from 10% to 50%. The large percentage of fines (e.g., silt) results in turbid groundwater conditions as observed during well development. Locally, developed portions of the site are underlain by as much as 20 feet of manmade fill which is comprised of sand with some gravel and varying amounts of brick and glass. Depth to groundwater at the site ranges from approximately 3 to 30 feet below ground surface. Groundwater flows to the northeast, toward the Sullivan Street water supply wells and Newtown Creek, and reflecting surface topography. The nearest surface water body is Weyer Pond approximately 2,500 feet northeast of the site. Newtown Creek is located approximately 3,500 feet east of the site and flows south to its confluence with the Chemung River, approximately 1.8 miles southeast of the site. The site is located over a primary aquifer and the Sullivan Street water supply wells are located approximately 4,200 feet northeast of the site.

Contaminants of Concern (Including Materials Disposed)	**Quantity Disposed**
OU 01	
CADMIUM	
ANTIMONY	
ARSENIC	
CALCIUM	
CHROMIUM	
COPPER	
IRON	
MERCURY	
NICKEL	
SILVER	
ZINC	
DIELDRIN	
DDE	
DDT	
PCB-AROCLOR 1254	
PCB-AROCLOR 1260	
DNT	
COBALT	
LEAD	
cis-1,2-Dichloroethene	
TRICHLOROETHENE (TCE)	
MANGANESE	
SODIUM	

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing

1,1,1 TCA
CYANIDES(SOLUBLE CYANIDE SALTS)
1,1 Dichloroethene

Analytical Data Available for : Groundwater, Soil, Soil Vapor

Applicable Standards Exceeded for: Groundwater, Soil, Soil Vapor

Site Environmental Assessment- Last Review: 03/20/2015

Nature and Extent of Contamination:
Based upon site characterization conducted to date, the primary contaminants of concern include chlorinated VOCs, particularly trichlorethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and associated breakdown products in groundwater; TCE and methylene chloride in sub-slab soil vapor; and metals (particularly cadmium and arsenic) in surface soil and sub-slab soil beneath the building.

TCE exceeded standards in 4 of 5 groundwater sample locations, ranging in concentration from 8.1 to 5,400 ppb (compared to the groundwater SGC of 5 ppb). 1,1,1-TCA exceeded standards in 3 of 5 groundwater sample locations, ranging from 39 to 3,300 ppb (compared to the groundwater SGC of 5 ppb). The highest TCE and 1,1,1-TCA concentrations in groundwater were detected downgradient from the former location of a former vapor degreaser. TCE and 1,1,1-TCA were also detected in groundwater along the downgradient property boundary at 220 ppb and 39 ppb, respectively.

TCE was detected in 4 of 4 sub-slab soil vapor samples, ranging in concentration from 10,000 to 180,000 ug/m3. Methylene chloride was detected in 1 of 4 sub-slab soil vapor samples at 17,000 ug/m3. Other TCE breakdown compounds (1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, and trans-1,2-dichloroethene) and non-chlorinated VOCs (ethanol, ethylbenzene, m,p-xylene, and o-xylene) were detected in 1 or more of the 4 sub-slab vapor samples, with total VOCs concentrations ranging from 17,480 to 670,000 ug/m3. All of the sub-slab soil vapor samples were collected from the vicinity of the former vapor degreaser.

Cadmium exceeded SCGs in 6 of 10 surface soil sample locations, ranging in concentration from 2.9 to 64.3 ppm (compared to the unrestricted use SCO of 2.5 ppm), and in 6 of 12 sub-slab soil sample locations beneath the building, ranging from 3.1 to 113 ppm. The soil samples with the highest cadmium concentrations were collected from the northern portion of the site near the former plating department. Arsenic was detected above criteria in 7 of 10 surface soil sample locations, ranging in concentration from 13.3 to 28.8 ppm (compared to the unrestricted use SCO of 13 ppm), and in 4 of 12 sub-slab soil sample locations beneath the building, ranging from 13.2 to 17.5 ppm. The arsenic detections are widespread throughout the facility.

Site Health Assessment - Last Update: 03/20/2015

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing

People are not drinking contaminated groundwater because the area is served by a public water supply that is not affected by site-related contamination. People who enter the site could contact contaminants in the soil by walking on the site, digging, or otherwise disturbing the soil. Volatile organic compounds in the groundwater 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. A potential exists for the inhalation of site contaminants due to soil vapor intrusion in the on-site buildings and in any buildings developed on-site in the future. An evaluation is needed to determine whether soil vapor intrusion is a concern for any off-site buildings.

	Start		End	
OU 01				
Reclass Pkg.	12/26/12	ACT	12/27/12	ACT
Reclass Pkg.	1/23/15	ACT	4/30/15	PLN
Remedial Investigation	7/15/15	PLN	7/15/17	PLN
Site Characterization	11/22/11	ACT	12/23/14	ACT

Remedy Description and Cost

Remedy Description for Operable Unit 01

Total Cost

OU	**Site Management Plan Approval:**	**Status:**

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
4/22/2015

SITE DESCRIPTION

SITE NO. 808045

SITE NAME Triple Cities Metal Finishing

SITE ADDRESS: 926 Stowell Street ZIP CODE: 14901

CITY/TOWN: Elmira

COUNTY: Chemung

ALLOWABLE USE:

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES:

IC/EC Certification Plan	NO
Monitoring Plan	
Operation and Maintenance (O&M) Plan	NO
Periodic Review Frequency:	NO

Periodic Review Report Submittal Date:

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

DATE: 4/22/2015

Site Code: 808045 **Site Name:** Triple Cities Metal Finishing

Description of Institutional Control

0

Not Applicable/No IC's

Description of Engineering Control

Not Applicable/No EC's

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

PUBLIC NOTICE

State Superfund Program

Receive site information by email. See next page to learn how.

Site Name: Triple Cities Metal Finishing **April 22, 2015**
Site No. 808045 **Tax Map No.** 89.11-1-25
Site Location: 926 Stowell Street, City of Elmira, 14901

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 (DEC) maintains a list of these sites in the Registry of Inactive Hazardous Waste Disposal Sites (Registry). As of the date of this notice, the site identified above, and located on the map on the reverse side of this page, was added to the Registry as a Class 2 site, meaning that it presents a significant threat to public health and/or the environment. The reasons for adding the site to the registry are:

The site was formerly operated as an electroplating plant that manufactured and finished steel and aluminum products such as screws, bolts, and fasteners. DEC recently completed a Site Characterization and determined through sample collection and analysis that historical plant operations at the site resulted in contamination of soil, groundwater, and soil vapor at levels exceeding applicable standards, criteria and guidance values. A Remedial Investigation/Feasibility Study is needed to define the nature and extent of contamination on and off of the site, and to determine the most appropriate remedy to address associated current and potential human exposures. The site is adjacent to the Shulman Salvage Yard, which is also a Registry Class 2 site.

DEC 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 DEC's Project Manager listed below.

FOR MORE SITE INFORMATION

Additional information about this site can be found using DEC's "Environmental Site Remediation Database Search" engine which is located on the internet at:
www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

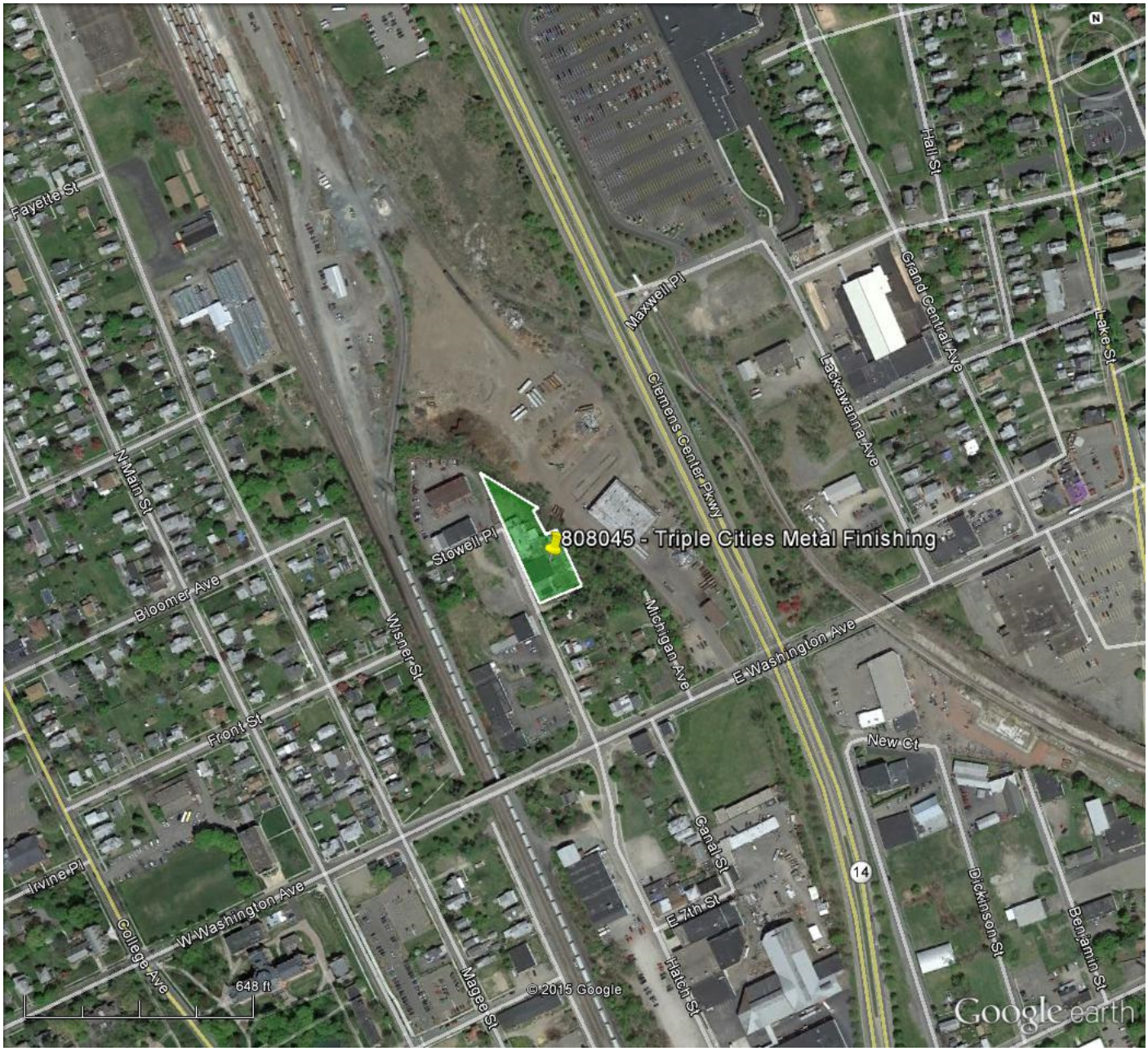
Comments and questions are always welcome and should be directed as follows:

Project Related Questions
Joshua Haugh, Project Manager
NYS Department of Environmental Conservation
Division of Environmental Remediation – Bureau E
625 Broadway, 12th Floor
Albany, NY 12233-7017
Tel: 518-402-8199
Email: joshua.haugh@dec.ny.gov

Site Related Health Questions
Mark Sergott, Project Manager
NYS Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza
Corning Tower, Room 1787
Albany, NY 12237
Tel: 518-402-7860
Email: beei@health.state.ny.us

DEC 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 DEC to notify all parties on the contact list for this site of this recent action.

Approximate Site Location
Triple Cities Metal Finishing
Site ID: 808045
926 Stowell Street
City of Elmira, Chemung County



Receive Site Updates by Email

Have site information such as this public notice sent right to your email inbox. DEC 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 . 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.

Electronic copies:

R. Schick, Director, Division of Environmental Remediation
A. English, Director, Bureau of Technical Support
K. Lewandowski, Chief, Site Control Section
M. Cruden, Director, Remedial Bureau E
B. Putzig, RHWRE, Region 8
S. Sheeley, Regional Permit Administrator, Region 8
L. Vera, Regional CPS, Region 8
K. Anders, NYSDOH
J. Deming, NYSDOH Regional Chief
M. Sergott, NYSDOH Project Manager
L. Ennist, DER, Bureau of Program Management
J. Haugh, Project Manager
D. Lates, Project Manager of Shulman Salvage Yard site
B. Anderson, Site Control Section

Gerzo D Reis, Owner
1061 Chatham Ln
Elmira, NY 14905

Hon. Thomas J. Santulli, County Executive
Chemung County
203 Lake Street, PO Box 588
Elmira, NY 14902-0588

Ronald Panosian, Chairperson
Chemung County Planning Board
400 East Church Street
Elmira, NY 14902-0588

Hon. Susan J Skidmore, Mayor
City of Elmira
317 East Church Street, 3rd Floor
Elmira, NY 14901

Joseph Mustico, Chairperson
City of Elmira Planning Board
101 W. Second Street
Elmira, NY 14901

Hon. David Sullivan, Supervisor
Town of Elmira
1255 W. Water Street
Elmira, NY 14905

JoAnn Sherwood, Town Clerk
Town of Elmira
1255 W. Water Street
Elmira, NY 14905

Mark LaDouce, P.E., General Manager
Elmira Water Board
261 West Water Street
Elmira, NY 14905

DM & PM Enterprises LLC
PO Box 1002
Elmira, NY 14902

Edward and Mary Ann Fretz
2448 Caton Rd
Corning, NY 14830

American National Red Cross
911 Stowell St
Elmira, NY 14901

Cornerstone Homes Inc
11801 Harrington Dr
Corning, NY 14830

David and Clementine Hill
902 S Pine St
Horseheads, NY 14845

James M. O'Leary
2104A College Ave
Elmira Heights, NY 14903

Thomas Santucci
910 Stowell St
Elmira, NY 14901

Shulman I & Son Co Inc
197 E Washington Ave
Elmira, NY 14901

Michael Vecharino
100 Stowell Pl
Elmira, NY 14901

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518) 402-9543 I F: (518) 402-9547
www.dec.ny.gov

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 2, 2015

Mr. Gerzo D. Reis
1061 Chatham Ln.
Elmira, NY 14905

Dear Mr. Reis:

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

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the intended inclusion of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State (Registry). The effective date of the Registry listing shall be 20 days from the date of this letter. Once listed in the Registry, the site becomes subject to certain restrictions prescribed by provisions of 6 NYCRR Part 375. These regulations may be found at the following DEC website address: http://www.dec.ny.gov/regs/4373.html.

DEC Site No.: 808045
Site Name: Triple Cities Metal Finishing
Site Address: 926 Stowell Street, City of Elmira, 14901
Site Classification: 2

Enclosed is a copy of DEC's Inactive Hazardous Waste Disposal Site Report form as it will appear in the Registry. An explanation of the site classification is available at http://www.dec.ny.gov/chemical/8663.html.

For additional information, please contact Joshua Hough, the Project Manager, at 518-402-8199.

Sincerely,

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

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Enclosures
ec: J. Haugh, Project Manager

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

Site Code	808045				
Site Name	Triple Cities Metal Finishing	**Address**	926 Stowell Street		
Classification	2	**City**	Elmira	**Zip**	14901
Region	8	**County**	Chemung	**Town**	Elmira (c)
Latitude	42 degrees, 6 minutes, 6.00 seconds			**Estimated Size**	0.8500
Longitude	-76 degrees, 48 minutes, 38.00 seconds				
Site Type		**Disposal Area**	Structure		

Site Description

Location: The Triple Cities Metal Finishing site is located in an urban area in Elmira, NY. The site is located approximately 0.1 miles west of S.R. 14 (Clemens Center Parkway) off Washington Avenue at 920-926 Stowell Street.

Site Features: The main site feature includes a large building of approximately 25,000 square feet surrounded by parking areas, roadways, vacant land, and commercial property.

Current Zoning and Land Use(s): The site is currently zoned for industrial use. The surrounding parcels are currently used for a combination of commercial uses and vacant land. A Class 2 Inactive Hazardous Waste Site (Shulman's Salvage Yard) is adjacent to the site to the east. The nearest residential area is less than 0.1 miles south on Stowell Street.

Past Use of the Site: The site is believed to have been a metal finishing facility since approximately 1950. The site is currently used by the owner primarily for storage. Site characterization activities were conducted in 2013-2014.

Site Geology and Hydrogeology: Based on drilling observations, the site area is underlain by glaciofluvial deposits comprised predominantly of very fine sand and silt deposits with gravel ranging in concentration from 10% to 50%. The large percentage of fines (e.g., silt) results in turbid groundwater conditions as observed during well development. Locally, developed portions of the site are underlain by as much as 20 feet of manmade fill which is comprised of sand with some gravel and varying amounts of brick and glass. Depth to groundwater at the site ranges from approximately 3 to 30 feet below ground surface. Groundwater flows to the northeast, toward the Sullivan Street water supply wells and Newtown Creek, and reflecting surface topography. The nearest surface water body is Weyer Pond approximately 2,500 feet northeast of the site. Newtown Creek is located approximately 3,500 feet east of the site and flows south to its confluence with the Chemung River, approximately 1.8 miles southeast of the site. The site is located over a primary aquifer and the Sullivan Street water supply wells are located approximately 4,200 feet northeast of the site.

Contaminants of Concern (Including Materials Disposed)

Quantity

OU 01

CADMIUM
ANTIMONY
ARSENIC
CALCIUM
CHROMIUM
COPPER
IRON
MERCURY
NICKEL
SILVER
ZINC
DIELDRIN
DDE
DDT

4/2/2015

PCB-AROCLOR 1254

PCB-AROCLOR 1260

DNT

COBALT

LEAD

cis-1,2-Dichloroethene

TRICHLOROETHENE (TCE)

MANGANESE

SODIUM

1,1,1 TCA

CYANIDES(SOLUBLE CYANIDE SALTS)

1,1 Dichloroethene

Analytical Data Available for : Groundwater, Soil, Soil Vapor

Applicable Standards Exceeded for: Groundwater, Soil, Soil Vapor

---

Site Environmental Assessment

Nature and Extent of Contamination:
Based upon site characterization conducted to date, the primary contaminants of concern include chlorinated VOCs, particularly trichlorethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and associated breakdown products in groundwater; TCE and methylene chloride in sub-slab soil vapor; and metals (particularly cadmium and arsenic) in surface soil and sub-slab soil beneath the building.

TCE exceeded standards in 4 of 5 groundwater sample locations, ranging in concentration from 8.1 to 5,400 ppb (compared to the groundwater SGC of 5 ppb). 1,1,1-TCA exceeded standards in 3 of 5 groundwater sample locations, ranging from 39 to 3,300 ppb (compared to the groundwater SGC of 5 ppb). The highest TCE and 1,1,1-TCA concentrations in groundwater were detected downgradient from the former location of a former vapor degreaser. TCE and 1,1,1-TCA were also detected in groundwater along the downgradient property boundary at 220 ppb and 39 ppb, respectively.

TCE was detected in 4 of 4 sub-slab soil vapor samples, ranging in concentration from 10,000 to 180,000 ug/m3. Methylene chloride was detected in 1 of 4 sub-slab soil vapor samples at 17,000 ug/m3. Other TCE breakdown compounds (1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, and trans-1,2-dichloroethene) and non-chlorinated VOCs (ethanol, ethylbenzene, m,p-xylene, and o-xylene) were detected in 1 or more of the 4 sub-slab vapor samples, with total VOCs concentrations ranging from 17,480 to 670,000 ug/m3. All of the sub-slab soil vapor samples were collected from the vicinity of the former vapor degreaser.

Cadmium exceeded SCGs in 6 of 10 surface soil sample locations, ranging in concentration from 2.9 to 64.3 ppm (compared to the unrestricted use SCO of 2.5 ppm), and in 6 of 12 sub-slab soil sample locations beneath the building, ranging from 3.1 to 113 ppm. The soil samples with the highest cadmium concentrations were collected from the northern portion of the site near the former plating department. Arsenic was detected above criteria in 7 of 10 surface soil sample locations, ranging in concentration from 13.3 to 28.8 ppm (compared to the unrestricted use SCO of 13 ppm), and in 4 of 12 sub-slab soil sample locations beneath the building, ranging from 13.2 to 17.5 ppm. The arsenic detections are widespread throughout the facility.

Site Health Assessment

People are not drinking contaminated groundwater because the area is served by a public water supply that is not affected by site-related contamination. People who enter the site could contact contaminants in the soil by walking on the site, digging, or otherwise disturbing the soil. Volatile organic compounds in the groundwater 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. A potential exists for the inhalation of site contaminants due to soil vapor intrusion in the on-site buildings and in any buildings developed on-site in the future. An evaluation is needed to determine whether soil vapor intrusion is a concern for any off-site buildings.

4/2/2015

Owners

Current Owner(s)

Gerzo D. Reis
1061 Chatham Ln
Elmira NY 14905

Operators

UNITED STATES POSTAL SERVICE

Date: April 9, 2015

Sharelle Sheldon:

The following is in response to your April 9, 2015 request for delivery information on your Certified Mail™/RRE item number 9414814901050579022809. The delivery record shows that this item was delivered on April 9, 2015 at 1:47 pm in ELMIRA, NY 14901. There is no delivery signature on file for this item.

Thank you for selecting the Postal Service for your mailing needs. If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

NEW YORK STATE OF OPPORTUNITY. Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Acting Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

March 23, 2015

Michael Cruden, Director
Remedial Bureau E
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: **Site Listing — Class 2**
Triple Cities Metal Finishing
Site #808045
Elmira (C), Chemung County

Dear Mr. Cruden:

Per your request, we have reviewed the New York State Department of Environmental Conservation's (NYSDEC's) proposal to list the above referenced site as a Class 2 site on NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites. I understand that previous operations at the site have resulted in contamination of soil, groundwater, and soil vapor at levels exceeding applicable standards, criteria and guidance values. Additional actions are needed to define the nature and extent of contamination on and off of the site, as well as to address associated current and potential human exposures.

Based on this information, I believe the site represents a significant threat to public health and concur with your department's proposal to list it as a Class 2 site on the Registry. If you have any questions, please contact Mr. Justin Deming or me at (518) 402-7860.

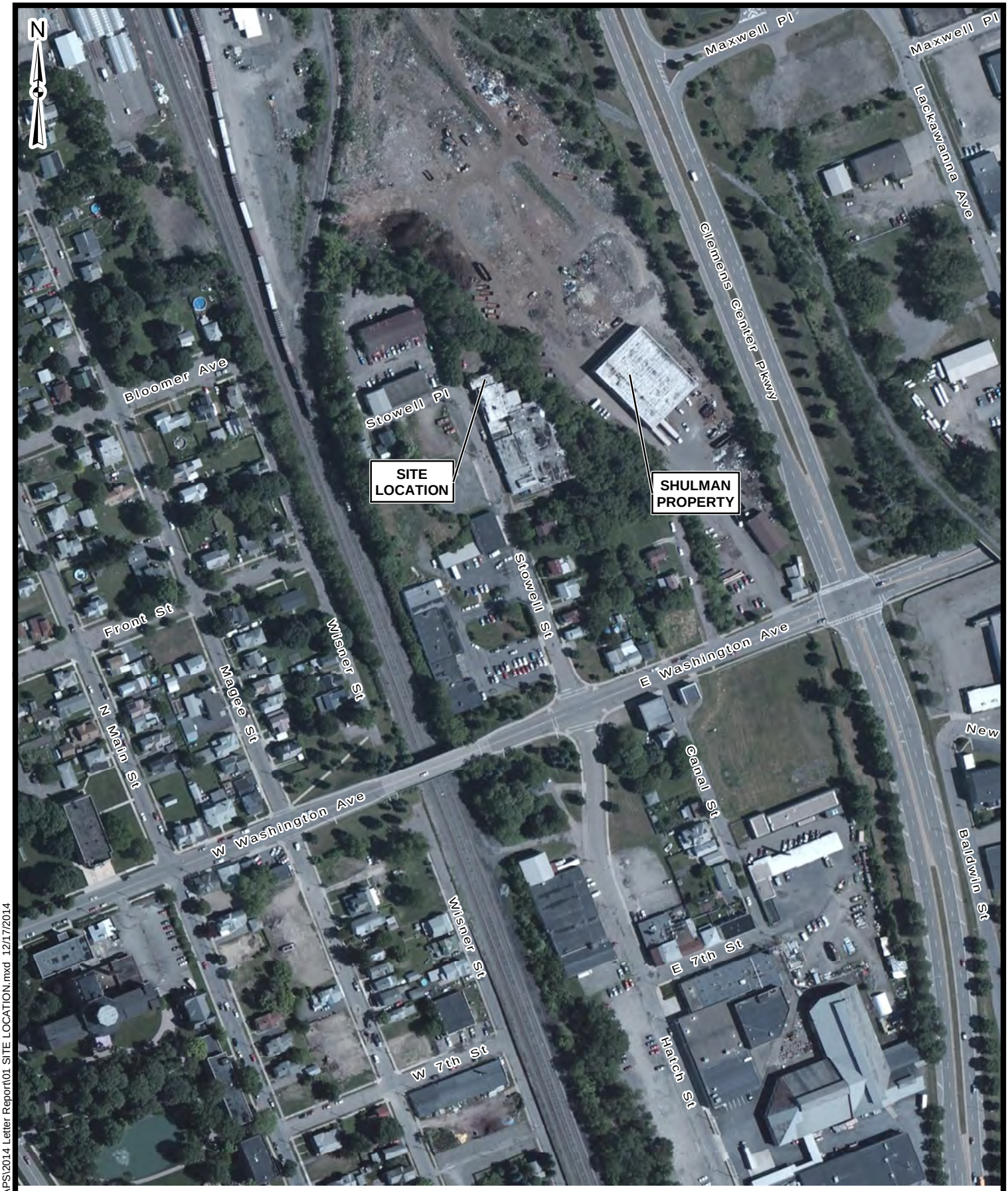
Sincerely,

Krista M. Anders

Krista M. Anders, Director
Bureau of Environmental Exposure Investigation

ec: J. Deming / M. Sergott / e-File
R. Van Houten – NYSDOH WRO
T. Kump – CCHD
M. Ryan / K. Lewandowski / B. Rung / J. Haugh – NYSDEC Central Office
B. Putzig – NYSDEC Region 8

P:\Bureau\Sites\Region_8\CHEMUNG\808045\Classification\Class_DOHConcur_032315_808045.pdf



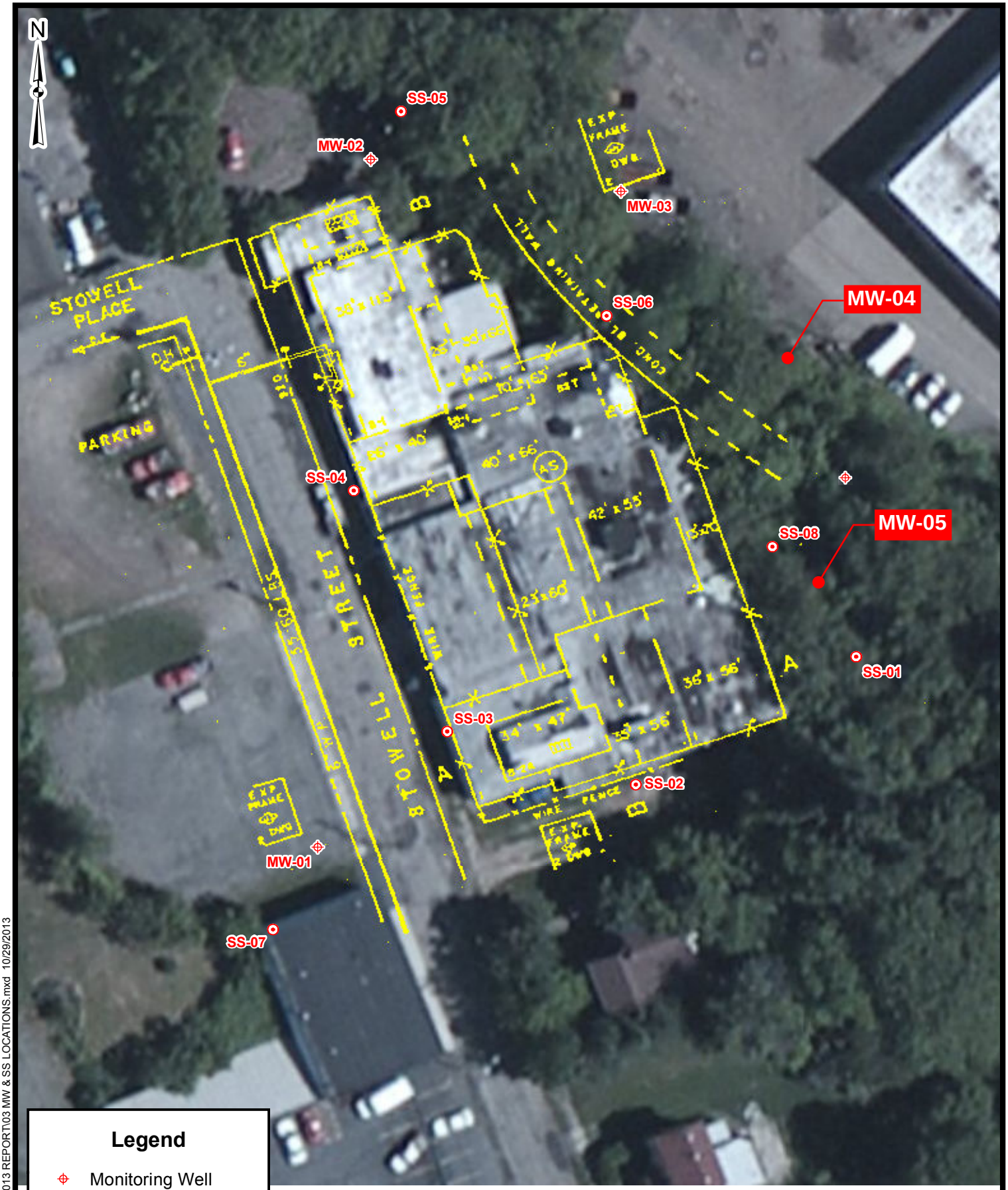
Source: ESRI World Imagery

J:\Projects\11176967\DBG\S\MAPS\2014 Letter Report\01 SITE LOCATION.mxd 12/17/2014

URS

TRIPLE CITIES METAL FINISHING
ELMIRA, NEW YORK
SITE LOCATION

FIGURE 1

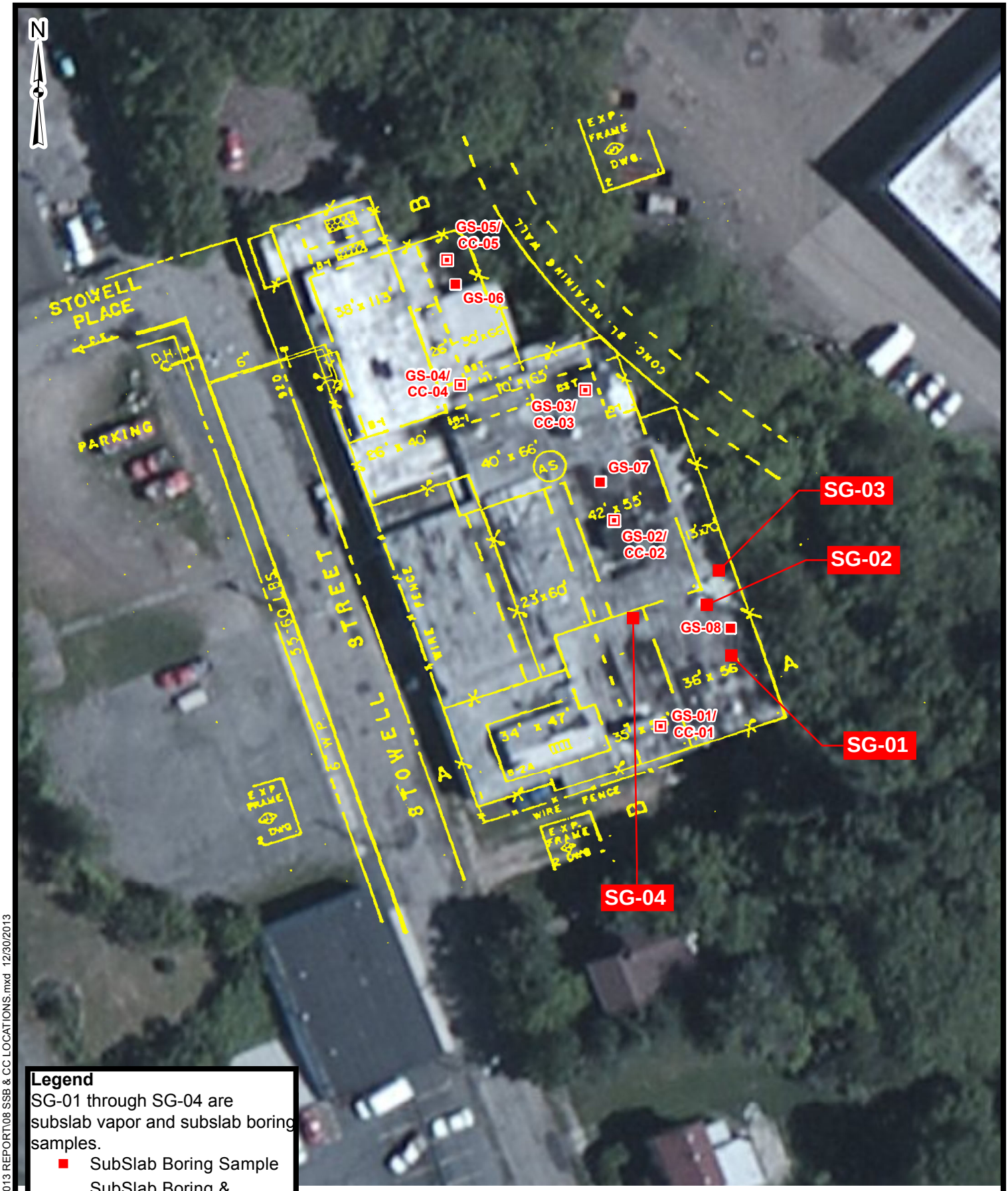


I:\11176967\DB\GIS\MAPS\SC 2013 REPORT\03 MW & SS LOCATIONS.mxd 10/29/2013

URS

TRIPLE CITIES METAL FINISHING
ELMIRA, NEW YORK
MONITORING WELL & SURFACE SOIL
SAMPLE LOCATIONS

FIGURE 2



Legend

SG-01 through SG-04 are subslab vapor and subslab boring samples.

- SubSlab Boring Sample
- SubSlab Boring & Concrete Chip Sample

Source: ESRI World Imagery

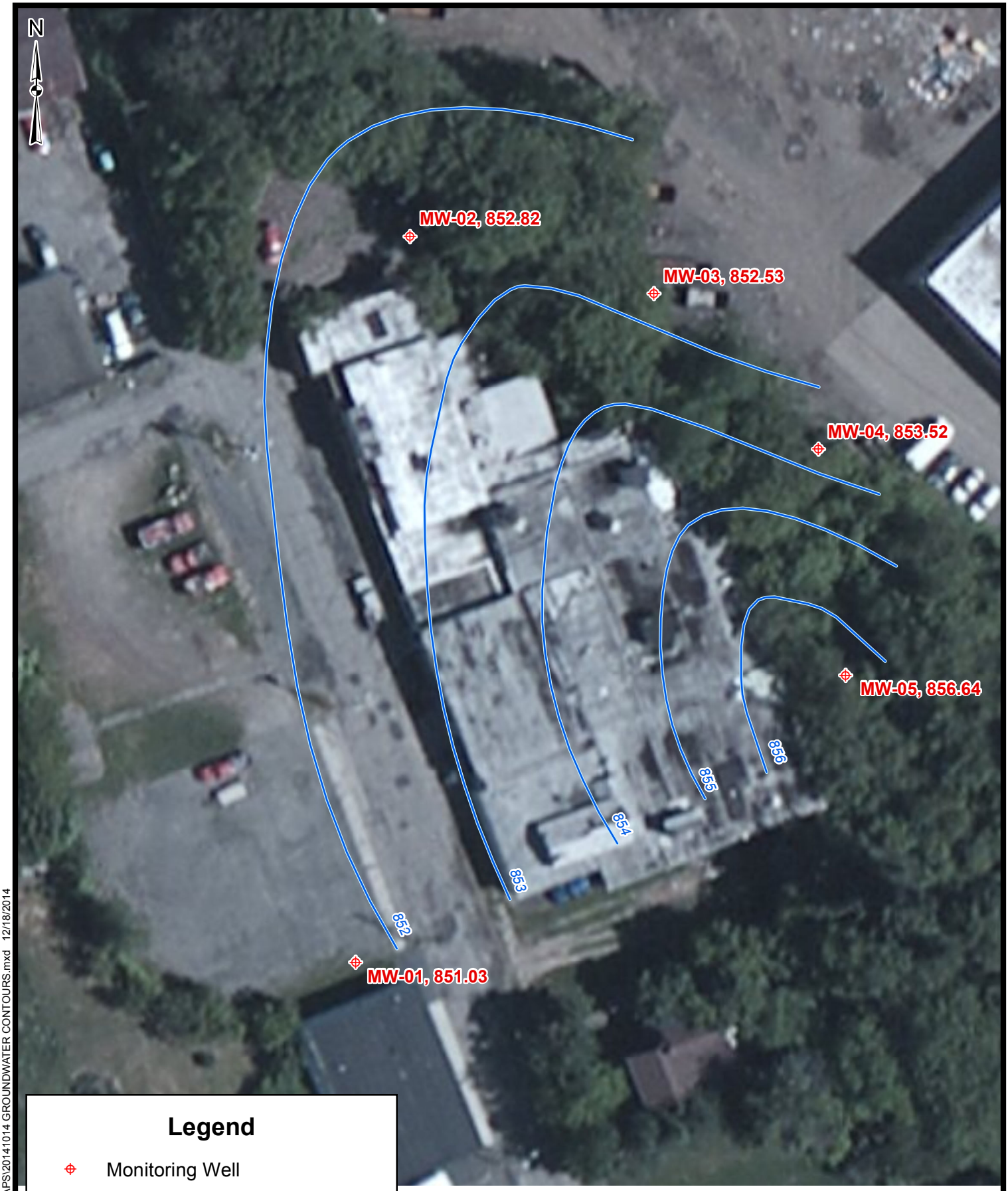
50 0 50 Feet

URS

TRIPLE CITIES METAL FINISHING
ELMIRA, NEW YORK
SUB-SLAB BORING, CONCRETE CHIP AND
SUB-SLAB SOIL VAPOR SAMPLES

FIGURE 3

I:\11176967\DB\GIS\MAPS\SC 2013 REPORT\08 SSB & CC LOCATIONS.mxd 12/30/2013



J:\Projects\11176967\DB\GIS\MAPS\20141014 GROUNDWATER CONTOURS.mxd 12/18/2014

URS

TRIPLE CITIES METAL FINISHING
ELMIRA, NEW YORK
GROUNDWATER CONTOURS
OCTOBER 14, 2014

FIGURE 4

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05	MW-05
Sample ID					MW-04 (0-0.2)	MW-05 (0-0.2)	FD-20140924
Matrix					Soil	Soil	Soil
Depth Interval (ft)					0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled					09/24/14	09/24/14	09/24/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)
Semivolatile Organic Compounds							
Acenaphthene	UG/KG	20000	98000	5.00E+05	260 J		
Acenaphthylene	UG/KG	100000	1.07E+05	5.00E+05	170 J		
Acetophenone	UG/KG	-	-	-	140 J		
Anthracene	UG/KG	100000	1.00E+06	5.00E+05	750		
Benzo(a)anthracene	UG/KG	1000	1000	5600	1,600	160 J	130 J
Benzo(a)pyrene	UG/KG	1000	22000	1000	1,400	160 J	
Benzo(b)fluoranthene	UG/KG	1000	1700	5600	2,000	260 J	
Benzo(g,h,i)perylene	UG/KG	100000	1.00E+06	5.00E+05	1,100	190 J	
Benzo(k)fluoranthene	UG/KG	800	1700	56000	720	110 J	
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-	1,500	2,700	
Butylbenzylphthalate	UG/KG	100000	1.22E+05	-	660		
Carbazole	UG/KG	-	-	-	300 J		
Chrysene	UG/KG	1000	1000	56000	1,700	280 J	180 J
Dibenz(a,h)anthracene	UG/KG	330	1.00E+06	560	270 J		
Dibenzofuran	UG/KG	7000	2.10E+05	3.50E+05	180 J		
Dimethylphthalate	UG/KG	27000	27000	-	490		
Fluoranthene	UG/KG	100000	1.00E+06	5.00E+05	3,000	330 J	240 J
Fluorene	UG/KG	30000	3.86E+05	5.00E+05	280 J		
Indeno(1,2,3-cd)pyrene	UG/KG	500	8200	5600	1,100	130 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.
(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.
B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05	MW-05
Sample ID					MW-04 (0-0.2)	MW-05 (0-0.2)	FD-20140924
Matrix					Soil	Soil	Soil
Depth Interval (ft)					0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled					09/24/14	09/24/14	09/24/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)
Semivolatile Organic Compounds							
Naphthalene	UG/KG	12000	12000	5.00E+05	140 J		
Phenanthrene	UG/KG	100000	1.00E+06	5.00E+05	2,300	210 J	140 J
Pyrene	UG/KG	100000	1.00E+06	5.00E+05	2,700	310 J	180 J
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	3.3	14000	92000		26	27 J
4,4'-DDE	UG/KG	3.3	17000	62000	21		
4,4'-DDT	UG/KG	3.3	1.36E+05	47000	110 J	45 J	82
Endrin aldehyde	UG/KG	-	-	-	25		
Endrin ketone	UG/KG	-	-	-	23 NJ		47 J
Methoxychlor	UG/KG	1200	9.00E+05	-		350	
Polychlorinated Biphenyls							
Total Polychlorinated Biphenyls	UG/KG	100	3200	1000	1,880		
Aroclor 1254	UG/KG	-	-	-	1,000		
Aroclor 1260	UG/KG	-	-	-	880 J		
Metals							
Aluminum	MG/KG	10000	-	-	18,000	3,060	3,450 J
Antimony	MG/KG	12	-	-	50.7 J	4.6	5.2
Arsenic	MG/KG	13	16	16	28.8 J	7.3	8.2
Barium	MG/KG	350	820	400	201	308	337 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05	MW-05
Sample ID					MW-04 (0-0.2)	MW-05 (0-0.2)	FD-20140924
Matrix					Soil	Soil	Soil
Depth Interval (ft)					0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled					09/24/14	09/24/14	09/24/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)
Metals							
Beryllium	MG/KG	7.2	47	590	0.33	0.086 B	0.088 B
Cadmium	MG/KG	2.5	7.5	9.3	17.7	7.6	8.1
Calcium	MG/KG	10000	-	-	29,100 J	6,520	7,450 J
Chromium	MG/KG	30	NS	1500	360	611	589
Cobalt	MG/KG	20	-	-	18.2	4.8	5.8
Copper	MG/KG	50	1720	270	2,070	168	181 J
Iron	MG/KG	2000	-	-	114,000	12,100	13,900 J
Lead	MG/KG	63	450	1000	1,210 J	278	206 J
Magnesium	MG/KG	-	-	-	5,750	714	815 J
Manganese	MG/KG	1600	2000	10000	1,400	166	193
Mercury	MG/KG	0.18	0.73	2.8	1.1	0.32	0.39
Nickel	MG/KG	30	130	310	278 J	121	138 J
Potassium	MG/KG	-	-	-	795	721	876
Selenium	MG/KG	3.9	4	1500		2.0	
Silver	MG/KG	2	8.3	1500	13.9 J	1.8 B	1.8 B
Thallium	MG/KG	5	-	-	0.72 J	0.61 B	0.77 B
Vanadium	MG/KG	39	-	-	42.2 J	6.3	7.0 J
Zinc	MG/KG	109	2480	10000	4,190	620	706 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.
(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.
B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05	MW-05
Sample ID					MW-04 (0-0.2)	MW-05 (0-0.2)	FD-20140924
Matrix					Soil	Soil	Soil
Depth Interval (ft)					0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled					09/24/14	09/24/14	09/24/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)
Miscellaneous Parameters							
Cyanide (total)	MG/KG	27	40	27		44.0	35.1
Oxidation Reduction Potential	mV	-	-	-	330	350	320
pH	S.U.	-	-	-	6.57	6.74	6.59

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID					SS-01	FD-082613	SS-02	SS-03	SS-04
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		Field Duplicate (1-1)			
Volatile Organic Compounds									
Acetone	UG/KG	50	50	5.00E+05					
Trichloroethene	UG/KG	470	470	2.00E+05					
Semivolatile Organic Compounds									
Anthracene	UG/KG	100000	1.00E+06	5.00E+05		86 J			
Benzo(a)anthracene	UG/KG	1000	1000	5600	210 J	270 J	180 J		130 J
Benzo(a)pyrene	UG/KG	1000	22000	1000	200 J	250 J	200 J		120 J
Benzo(b)fluoranthene	UG/KG	1000	1700	5600	280 J	430	330 J		170 J
Benzo(g,h,i)perylene	UG/KG	100000	1.00E+06	5.00E+05	140 J	200 J	140 J		99 J
Benzo(k)fluoranthene	UG/KG	800	1700	56000	120 J	160 J	140 J		75 J
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-		89 J		130 J	96 J
Chrysene	UG/KG	1000	1000	56000	260 J	300 J	240 J		180 J
Di-n-butylphthalate	UG/KG	-	8100	-	160 J	190 J	180 J	210 J	180 J
Fluoranthene	UG/KG	100000	1.00E+06	5.00E+05	420	420	290 J	100 J	220 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	8200	5600	130 J	190 J	150 J		87 J
Phenanthrene	UG/KG	100000	1.00E+06	5.00E+05	240 J	120 J	120 J		190 J
Pyrene	UG/KG	100000	1.00E+06	5.00E+05	350 J	390 J	300 J	110 J	220 J
Pesticide Organic Compounds									
4,4'-DDE	UG/KG	3.3	17000	62000					
4,4'-DDT	UG/KG	3.3	1.36E+05	47000		5.4 J			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

J:\Small_Chemistry_Jobs\DB\Program\EDMS.md
Printed: 10/24/2013 5:00:35 PM
[LOGDATE] >= #8/26/2013# AND [LOCID] LIKE 'SS*' AND [MATRIX] = 'SO

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID					SS-01	FD-082613	SS-02	SS-03	SS-04
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		Field Duplicate (1-1)			
Pesticide Organic Compounds									
Dieldrin	UG/KG	5	100	1400					
Endosulfan I	UG/KG	2400	1.02E+05	2.00E+05					
Endosulfan sulfate	UG/KG	2400	1.00E+06	2.00E+05					
Endrin aldehyde	UG/KG	-	-	-			6.2		
Endrin ketone	UG/KG	-	-	-					
gamma-Chlordane	UG/KG	540	14000	-		3.1 J			
Heptachlor epoxide	UG/KG	20	20	-					
Polychlorinated Biphenyls									
Aroclor 1254	UG/KG	-	-	-					
Aroclor 1260	UG/KG	-	-	-	35 J				
Total Polychlorinated Biphenyls	UG/KG	100	3200	1000	35	ND	ND	ND	ND
Metals									
Aluminum	MG/KG	10000	-	-	10,700	11,400	11,100	13,500	8,960
Antimony	MG/KG	12	-	-	1.7 J	1.7 J	1.8 J	187 J	1.9 J
Arsenic	MG/KG	13	16	16	13.9 J	13.2 J	13.3 J	28.5 J	18.0 J
Barium	MG/KG	350	820	400	130	137	140	162	145
Beryllium	MG/KG	7.2	47	590	0.59	0.58	0.59	0.67	0.68
Cadmium	MG/KG	2.5	7.5	9.3	1.2	1.8	1.9	2.9	1.5
Calcium	MG/KG	10000	-	-	3,440	4,310	3,320	1,900	12,100

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID					SS-01	FD-082613	SS-02	SS-03	SS-04
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		Field Duplicate (1-1)			
Metals									
Chromium	MG/KG	30	NS	1500	33.5 J-	65.2 J-	62.0 J-	189 J-	50.6 J-
Cobalt	MG/KG	20	-	-	12.9	10.4	10.8	12.0	9.7
Copper	MG/KG	50	1720	270	72.9	84.9	99.8	78.0	73.4
Iron	MG/KG	2000	-	-	21,300	28,100	30,900	26,100	35,400
Magnesium	MG/KG	-	-	-	2,920	3,610	2,950	3,500	3,430
Manganese	MG/KG	1600	2000	10000	369	397	424	877	335
Mercury	MG/KG	0.18	0.73	2.8	0.085	0.30	0.29	0.15	0.19
Nickel	MG/KG	30	130	310	26.2	40.2	58.9	54.0	29.3
Potassium	MG/KG	-	-	-	847	599	609	685	781
Selenium	MG/KG	3.9	4	1500	1.1 J	1.7	1.4 J	1.2 J	1.3 J
Silver	MG/KG	2	8.3	1500					
Sodium	MG/KG	-	-	-	137	47.2			108
Thallium	MG/KG	5	-	-	0.53 J	0.47 J	0.46 J	0.99 J	0.54 J
Vanadium	MG/KG	39	-	-	20.8	20.3	21.3	23.8	22.5
Zinc	MG/KG	109	2480	10000	1,300 J	286 J	285 J	283 J	326 J
Miscellaneous Parameters									
Cyanide (total)	MG/KG	27	40	27					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-05	SS-06	SS-07	SS-08
Sample ID					SS-05	SS-06	SS-07	SS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/26/13	08/26/13	08/28/13	08/28/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				
Volatile Organic Compounds								
Acetone	UG/KG	50	50	5.00E+05	6.8			
Trichloroethene	UG/KG	470	470	2.00E+05				2.9 J
Semivolatile Organic Compounds								
Anthracene	UG/KG	100000	1.00E+06	5.00E+05				
Benzo(a)anthracene	UG/KG	1000	1000	5600	89 J	110 J		
Benzo(a)pyrene	UG/KG	1000	22000	1000	94 J	110 J		
Benzo(b)fluoranthene	UG/KG	1000	1700	5600	140 J	140 J	85 J	120 J
Benzo(g,h,i)perylene	UG/KG	100000	1.00E+06	5.00E+05	87 J	94 J		
Benzo(k)fluoranthene	UG/KG	800	1700	56000				
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-	1,400	280 J		180 J
Chrysene	UG/KG	1000	1000	56000	120 J	130 J		130 J
Di-n-butylphthalate	UG/KG	-	8100	-	110 J	180 J	170 J	210 J
Fluoranthene	UG/KG	100000	1.00E+06	5.00E+05	180 J	220 J	94 J	140 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	8200	5600	74 J	80 J		
Phenanthrene	UG/KG	100000	1.00E+06	5.00E+05	95 J	160 J		85 J
Pyrene	UG/KG	100000	1.00E+06	5.00E+05	180 J	190 J	83 J	100 J
Pesticide Organic Compounds								
4,4'-DDE	UG/KG	3.3	17000	62000				7.0 NJ
4,4'-DDT	UG/KG	3.3	1.36E+05	47000	5.8	20 NJ		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-05	SS-06	SS-07	SS-08
Sample ID					SS-05	SS-06	SS-07	SS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/26/13	08/26/13	08/28/13	08/28/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				
Pesticide Organic Compounds								
Dieldrin	UG/KG	5	100	1400				5.6 NJ
Endosulfan I	UG/KG	2400	1.02E+05	2.00E+05		2.0 J		
Endosulfan sulfate	UG/KG	2400	1.00E+06	2.00E+05				11 NJ
Endrin aldehyde	UG/KG	-	-	-	5.6	6.5 J		
Endrin ketone	UG/KG	-	-	-		4.6 NJ		15
gamma-Chlordane	UG/KG	540	14000	-				
Heptachlor epoxide	UG/KG	20	20	-	2.1 J			
Polychlorinated Biphenyls								
Aroclor 1254	UG/KG	-	-	-	66 J	150 J		94 J
Aroclor 1260	UG/KG	-	-	-				
Total Polychlorinated Biphenyls	UG/KG	100	3200	1000	66	150	ND	94
Metals								
Aluminum	MG/KG	10000	-	-	7,910	11,900	10,200	8,560
Antimony	MG/KG	12	-	-	5.4 J	2.4 J		
Arsenic	MG/KG	13	16	16	23.5 J	11.3 J	10.1 J	13.3 J
Barium	MG/KG	350	820	400	88.0	133	116	104
Beryllium	MG/KG	7.2	47	590	0.30	0.52	0.55	0.28 J
Cadmium	MG/KG	2.5	7.5	9.3	64.3	13.3	0.72	4.7
Calcium	MG/KG	10000	-	-	64,300	7,570	9,080	2,980

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED RESULTS IN SURFACE SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SS-05	SS-06	SS-07	SS-08
Sample ID					SS-05	SS-06	SS-07	SS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/26/13	08/26/13	08/28/13	08/28/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				
Metals								
Chromium	MG/KG	30	NS	1500	1,220 J-	298 J-	17.4 J-	544 J-
Cobalt	MG/KG	20	-	-	10.9	14.6	9.6	8.9
Copper	MG/KG	50	1720	270	640	819	43.2	211
Iron	MG/KG	2000	-	-	43,100	46,000	22,400	21,600
Magnesium	MG/KG	-	-	-	17,900	4,240	3,850	1,880
Manganese	MG/KG	1600	2000	10000	533	596	406	284
Mercury	MG/KG	0.18	0.73	2.8	0.16	0.17	0.12	0.31
Nickel	MG/KG	30	130	310	423	1,320	23.0	73.1
Potassium	MG/KG	-	-	-	789	738	852	598
Selenium	MG/KG	3.9	4	1500			2.1	1.8
Silver	MG/KG	2	8.3	1500	6.4	3.2		
Sodium	MG/KG	-	-	-	104	58.5		65.4
Thallium	MG/KG	5	-	-	1.1	0.41 J		0.56 J
Vanadium	MG/KG	39	-	-	15.4	17.7	18.1	18.0
Zinc	MG/KG	109	2480	10000	3,260 J	1,390 J	146 J	603 J
Miscellaneous Parameters								
Cyanide (total)	MG/KG	27	40	27	10.8	3.8		2.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
SUMMARY OF DETECTED RESULTS IN MONITORING WELL SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05
Sample ID					MW-04 (4-5)	MW-05 (3-4)
Matrix					Soil	Soil
Depth Interval (ft)					4.0-5.0	3.0-4.0
Date Sampled					10/02/14	09/22/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Volatile Organic Compounds						
1,1-Dichloroethane	UG/KG	270	270	2.40E+05	3.6 J	
1,2-Dichloroethene (cis)	UG/KG	250	250	5.00E+05	6.3 J	
Acetone	UG/KG	50	50	5.00E+05	17	
Trichloroethene	UG/KG	470	470	2.00E+05	14	
Metals						
Aluminum	MG/KG	10000	-	-	21,700	15,300 J
Antimony	MG/KG	12	-	-	1.5	3.3
Arsenic	MG/KG	13	16	16	9.0	12.6
Barium	MG/KG	350	820	400	64.4	111 J
Beryllium	MG/KG	7.2	47	590	0.37	0.43
Cadmium	MG/KG	2.5	7.5	9.3	1.6	0.58
Calcium	MG/KG	10000	-	-	29,500	615 J
Chromium	MG/KG	30	NS	1500	96.9	793
Cobalt	MG/KG	20	-	-	9.0	9.3
Copper	MG/KG	50	1720	270	486	73.8 J
Iron	MG/KG	2000	-	-	38,000	39,100 J
Lead	MG/KG	63	450	1000	90.9	25.0 J
Magnesium	MG/KG	-	-	-	6,370	4,540 J
Manganese	MG/KG	1600	2000	10000	461	268

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.
(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.
B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 3
SUMMARY OF DETECTED RESULTS IN MONITORING WELL SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-04	MW-05
Sample ID					MW-04 (4-5)	MW-05 (3-4)
Matrix					Soil	Soil
Depth Interval (ft)					4.0-5.0	3.0-4.0
Date Sampled					10/02/14	09/22/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**		
Metals						
Mercury	MG/KG	0.18	0.73	2.8	0.015 B	0.0067 B
Nickel	MG/KG	30	130	310	54.9	36.2 J
Potassium	MG/KG	-	-	-	494	775
Selenium	MG/KG	3.9	4	1500	0.55 B	1.3
Silver	MG/KG	2	8.3	1500		1.0 B
Sodium	MG/KG	-	-	-	147	
Thallium	MG/KG	5	-	-		0.60 B
Vanadium	MG/KG	39	-	-	55.0	22.0 J
Zinc	MG/KG	109	2480	10000	231	94.7 J
Miscellaneous Parameters						
Hexavalent Chromium	MG/KG	1	19	-		61.8 J
Oxidation Reduction Potential	mV	-	-	-	180	350
pH	S.U.	-	-	-	7.30	5.18

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.
(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.
B - Compound detected in an associated laboratory method blank.

Only Detected Results Reported.

TABLE 3
SUMMARY OF DETECTED RESULTS IN MONITORING WELL SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-01	MW-02	MW-03	MW-03
Sample ID					MW-01	MW-02	FD-082913-MW	MW-03
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					44.0-46.0	23.0-25.0	6.0-7.0	6.0-7.0
Date Sampled					08/28/13	08/28/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)	
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	UG/KG	170	170	-	1,200	1,300	NA	
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-			NA	150 J
Di-n-butylphthalate	UG/KG	-	8100	-	180 J	170 J	NA	140 J
Metals								
Aluminum	MG/KG	10000	-	-	9,280	11,600	15,000	14,400
Antimony	MG/KG	12	-	-		1.1 J		
Arsenic	MG/KG	13	16	16	6.6	18.7	5.8	7.4
Barium	MG/KG	350	820	400	47.6	73.3	104	116
Beryllium	MG/KG	7.2	47	590	0.37	0.45	0.48	0.51
Cadmium	MG/KG	2.5	7.5	9.3	0.28 J	0.58 J	2.2	1.7
Calcium	MG/KG	10000	-	-	26,200	2,600	1,630 J	3,270 J
Chromium	MG/KG	30	NS	1500	12.3 J	16.4 J	17.8 J	18.3 J
Cobalt	MG/KG	20	-	-	8.7	10.5	10.9 J	15.0 J
Copper	MG/KG	50	1720	270	18.6	35.6	11.0	15.3
Iron	MG/KG	2000	-	-	19,500	26,900	26,300 J	33,600 J
Lead	MG/KG	63	450	1000	8.3 J	23.9 J	15.4 J	12.7 J
Magnesium	MG/KG	-	-	-	8,680	3,890	4,080 J	4,640 J
Manganese	MG/KG	1600	2000	10000	448	522	298 J	453 J
Mercury	MG/KG	0.18	0.73	2.8	0.010 J	0.021 J	0.0069 J	0.033 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.
NA - Not analyzed.

Only Detected Results Reported.

J:\Small_Chemistry_Jobs\DB\Program\EDMS.md
Printed: 11/6/2013 2:54:54 PM
[LOGDATE] >= #8/26/2013# AND [LOCID] LIKE 'MW*' AND [MATRIX] = 'SC

TABLE 3
SUMMARY OF DETECTED RESULTS IN MONITORING WELL SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					MW-01	MW-02	MW-03	MW-03
Sample ID					MW-01	MW-02	FD-082913-MW	MW-03
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					44.0-46.0	23.0-25.0	6.0-7.0	6.0-7.0
Date Sampled					08/28/13	08/28/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)	
Metals								
Nickel	MG/KG	30	130	310	19.8	33.1	22.5 J	24.5 J
Potassium	MG/KG	-	-	-	820 J	740 J	766	769
Selenium	MG/KG	3.9	4	1500		0.78 J	1.3 J	1.2 J
Sodium	MG/KG	-	-	-	67.2	40.0 J	92.9	87.9
Thallium	MG/KG	5	-	-		0.36 J		
Vanadium	MG/KG	39	-	-	12.1	15.6	18.6	18.6
Zinc	MG/KG	109	2480	10000	48.7 J	137 J	64.1 J	58.0 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 4
SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID			MW-04	MW-05	MW-05
Sample ID			MW-04	MW-05	FD-20141014
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			10/14/14	10/14/14	10/14/14
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	5	290 D	3,300 D	3,200 D
1,1,2-Trichloroethane	UG/L	1	1.6 J	52	50
1,1-Dichloroethane	UG/L	5	22	78	77
1,1-Dichloroethene	UG/L	5	120	2,100 D	1,900 D
1,2-Dichloroethane	UG/L	0.6		11	11
1,2-Dichloroethene (cis)	UG/L	5	32	220 DJ	200 DJ
1,2-Dichloroethene (trans)	UG/L	5	1.3 J	17	17
Benzene	UG/L	1		1.6 J	1.5 J
Carbon disulfide	UG/L	60	1.0 J	1.5 J	1.1 J
Chloroform	UG/L	7		5.0	4.8 J
Methylene chloride	UG/L	5		1.5 J	1.5 J
Tetrachloroethene	UG/L	5		2.4 J	2.5 J
Trichloroethene	UG/L	5	710 D	5,400 D	5,100 D
Vinyl chloride	UG/L	2	1.5 J	1.4 J	1.2 J
Metals					
Aluminum	UG/L	-	522	1,080	1,150
Arsenic	UG/L	25		9.7 B	5.4 B
Calcium	UG/L	-	99,000	260,000	265,000
Chromium	UG/L	50	5.5 B	53.0 J	32.7 J
Copper	UG/L	200	19.3 B	10.5 B	9.2 B
Iron	UG/L	300	830	2,060	2,170
Magnesium	UG/L	35000	16,400	84,400	85,300

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Advanced Selection: Triple GW
J:\Projects\11176967\DB\EDMS.mde
Printed: 11/14/2014 10:08:42 AM
[SITEID] = '11176967' AND [LOGDATE] = #10/14/2014# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 4
SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID			MW-04	MW-05	MW-05
Sample ID			MW-04	MW-05	FD-20141014
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			10/14/14	10/14/14	10/14/14
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)
Metals					
Manganese	UG/L	300	662	145	168
Mercury	UG/L	0.7		0.041 B	0.13 B
Nickel	UG/L	100	21.7 B	116	106
Potassium	UG/L	-	3,030	4,010	4,420
Sodium	UG/L	20000	95,500	263,000	262,000
Vanadium	UG/L	-	1.9 B	2.4 B	2.2 B
Zinc	UG/L	2000	17.0 B	16.8 B	15.4 B
Miscellaneous Parameters					
Cyanide (total)	MG/L	0.2	0.0152	0.104	0.101

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

Advanced Selection: Triple GW
J:\Projects\11176967\DB\EDMS.mde
Printed: 11/14/2014 10:08:43 AM
[SITEID] = '11176967' AND [LOGDATE] = #10/14/2014# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 4
SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID			MW-01	MW-02	MW-02	MW-03
Sample ID			MW-01	FD-090513	MW-02	MW-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			09/05/13	09/05/13	09/05/13	09/05/13
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5		0.57 J		39
1,1-Dichloroethane	UG/L	5		1.2 J	1.2 J	1.7 J
1,1-Dichloroethene	UG/L	5				13
1,2-Dichloroethene (cis)	UG/L	5		3.8 J	3.3 J	3.9 J
1,2-Dichloroethene (trans)	UG/L	5		4.3 J	4.1 J	1.0 J
Acetone	UG/L	50	6.6			
Methyl tert-butyl ether	UG/L	10		2.9 J	2.9 J	
Tetrachloroethene	UG/L	5				4.8 J
Toluene	UG/L	5	0.66 J			
Trichloroethene	UG/L	5	1.0 J	7.7	8.1	220 D
Semivolatile Organic Compounds						
Di-n-butylphthalate	UG/L	50	1.3 J		1.3 J	1.1 J
Metals						
Aluminum	UG/L	-	8,180	576	651	2,800
Arsenic	UG/L	25	7.0 J			
Beryllium	UG/L	3	0.40 J			
Cadmium	UG/L	5		3.6 J	3.3 J	
Calcium	UG/L	-	37,100	132,000	131,000	118,000
Chromium	UG/L	50	493	11.6 J	11.8 J	883
Cobalt	UG/L	-	17.6 J	6.7 J	5.8 J	3.7 J
Copper	UG/L	200	42.6	4.8 J	4.5 J	7.5 J
Iron	UG/L	300	19,200	927	982	4,890

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 4
SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID			MW-01	MW-02	MW-02	MW-03
Sample ID			MW-01	FD-090513	MW-02	MW-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			09/05/13	09/05/13	09/05/13	09/05/13
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)		
Metals						
Lead	UG/L	25	13.5			5.5 J
Magnesium	UG/L	35000	28,700	30,300	30,100	24,900
Manganese	UG/L	300	360	1,380	1,370	337
Nickel	UG/L	100	317			
Potassium	UG/L	-	61,800	22,600	20,500	5,360
Silver	UG/L	50	8.5 J			
Sodium	UG/L	20000	77,800	180,000	177,000	76,800
Zinc	UG/L	2000	61.9	17.9 J	16.6 J	19.5 J
Miscellaneous Parameters						
Cyanide (total)	UG/L	200				13.1 J
Hexavalent Chromium	MG/L	0.05				1.0

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL VAPOR SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID		SG-01	SG-01	SG-02	SG-03	SG-04
Sample ID		FD-20140922	SG-01	SG-02	SG-03	SG-04
Matrix		Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/22/14	09/22/14	09/22/14	09/22/14	09/22/14
Parameter	**Units**	Field Duplicate (2-2)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	16,000	16,000	160,000	630	1,300
1,1-Dichloroethane	UG/M3	53,000	51,000	36,000		310
1,1-Dichloroethene	UG/M3	36,000	37,000	4,800		
1,2-Dichloroethene (cis)	UG/M3	370,000	390,000	28,000		790
1,2-Dichloroethene (trans)	UG/M3	12,000	14,000			110
Ethanol	UG/M3		47,000			
Ethylbenzene	UG/M3			5,800	5,500	470
m&p-Xylene	UG/M3	8,100	11,000	28,000	24,000	3,000
Methylene chloride	UG/M3	17,000				
o-Xylene	UG/M3			8,700	8,400	1,500
Trichloroethene	UG/M3	73,000	85,000	180,000	12,000	10,000

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. Blank Cell - Not Detected.
(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.
B - Compound detected in an associated laboratory method blank.
D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SG-01	SG-02	SG-03	SG-04
Sample ID					SG-01 (0-4)	SG-02 (0-4)	SG-03 (0-4)	SG-04 (0-4)
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled					09/23/14	09/23/14	09/23/14	09/23/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				
Volatile Organic Compounds								
1,1-Dichloroethane	UG/KG	270	270	2.40E+05	2.2 J	9.8		
1,2-Dichloroethene (cis)	UG/KG	250	250	5.00E+05	40	78	2.4 J	
1,2-Dichloroethene (trans)	UG/KG	190	190	5.00E+05		1.0 J		
Acetone	UG/KG	50	50	5.00E+05	8.8			
Trichloroethene	UG/KG	470	470	2.00E+05	3.5 J	160	87	2.3 J
Metals								
Aluminum	MG/KG	10000	-	-	13,700	12,300	14,400	16,100
Antimony	MG/KG	12	-	-	0.39 B	2.3	0.97 B	1.0 B
Arsenic	MG/KG	13	16	16	9.8	13.2	12.7	12.4
Barium	MG/KG	350	820	400	40.5	97.9	136	74.7
Beryllium	MG/KG	7.2	47	590	0.56	0.59	0.71	0.65
Cadmium	MG/KG	2.5	7.5	9.3	0.080 B	21.6	1.9	
Calcium	MG/KG	10000	-	-	1,070	8,560	1,350	2,060
Chromium	MG/KG	30	NS	1500	16.3	121	28.8	23.7
Cobalt	MG/KG	20	-	-	13.2	38.0	13.4	15.6
Copper	MG/KG	50	1720	270	19.3	115	131	26.1
Iron	MG/KG	2000	-	-	28,600	29,700	24,100	38,600
Lead	MG/KG	63	450	1000	11.5	128	131	15.2
Magnesium	MG/KG	-	-	-	3,580	3,230	3,180	5,920

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					SG-01	SG-02	SG-03	SG-04
Sample ID					SG-01 (0-4)	SG-02 (0-4)	SG-03 (0-4)	SG-04 (0-4)
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0
Date Sampled					09/23/14	09/23/14	09/23/14	09/23/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**				
Metals								
Manganese	MG/KG	1600	2000	10000	435	605	996	538
Mercury	MG/KG	0.18	0.73	2.8	0.022 B	0.078	0.078	0.018 B
Nickel	MG/KG	30	130	310	21.3	318	108	37.8
Potassium	MG/KG	-	-	-	1,010	2,730	834	871
Selenium	MG/KG	3.9	4	1500	1.3	1.5	2.6	2.5
Silver	MG/KG	2	8.3	1500	0.17 B	0.46 B	0.49 B	0.33 B
Sodium	MG/KG	-	-	-	609 J	324 J	822 J	
Thallium	MG/KG	5	-	-	0.23 B			0.52 B
Vanadium	MG/KG	39	-	-	20.8	20.1	21.0	22.3
Zinc	MG/KG	109	2480	10000	56.3	936	180	105
Miscellaneous Parameters								
Cyanide (total)	MG/KG	27	40	27		0.55 B		
Hexavalent Chromium	MG/KG	1	19	-		1.62		0.730
Oxidation Reduction Potential	mV	-	-	-	300	270	340	310
pH	S.U.	-	-	-	5.62	6.65	5.54	6.66

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

(J-) - The reported concentration is an estimated value, biased low. NJ - Tentatively identified, value represents an approximate concentration.

B - Compound detected in an associated laboratory method blank.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID					GS-01	GS-02	GS-03	GS-04	GS-05
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/KG	680	680	5.00E+05					
1,1-Dichloroethane	UG/KG	270	270	2.40E+05					
1,1-Dichloroethene	UG/KG	330	330	5.00E+05					
1,2-Dichloroethene (cis)	UG/KG	250	250	5.00E+05		59			
1,2-Dichloroethene (trans)	UG/KG	190	190	5.00E+05					
Acetone	UG/KG	50	50	5.00E+05				4.6 J	
Ethylbenzene	UG/KG	1000	1000	3.90E+05					
m&p-Xylene	UG/KG	260	1600	1600					
o-Xylene	UG/KG	260	1600	1600					
Trichloroethene	UG/KG	470	470	2.00E+05		170	23	3.1 J	5.5
Semivolatile Organic Compounds									
Anthracene	UG/KG	100000	1.00E+06	5.00E+05					
Benzo(a)anthracene	UG/KG	1000	1000	5600			110 J		
Benzo(a)pyrene	UG/KG	1000	22000	1000		160 J	94 J		
Benzo(b)fluoranthene	UG/KG	1000	1700	5600		120 J	130 J		
Benzo(g,h,i)perylene	UG/KG	100000	1.00E+06	5.00E+05		180 J	80 J		
Benzo(k)fluoranthene	UG/KG	800	1700	56000					
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-			170 J	400	77 J
Butylbenzylphthalate	UG/KG	100000	1.22E+05	-		120 J			
Carbazole	UG/KG	-	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.
J - The reported concentration is an estimated value.
UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID					GS-01	GS-02	GS-03	GS-04	GS-05
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Semivolatile Organic Compounds									
Chrysene	UG/KG	1000	1000	56000		85 J	110 J		
Dibenz(a,h)anthracene	UG/KG	330	1.00E+06	560					
Di-n-butylphthalate	UG/KG	-	8100	-	160 J	180 J	190 J	180 J	170 J
Fluoranthene	UG/KG	100000	1.00E+06	5.00E+05			170 J		
Indeno(1,2,3-cd)pyrene	UG/KG	500	8200	5600					
Phenanthrene	UG/KG	100000	1.00E+06	5.00E+05			150 J		
Pyrene	UG/KG	100000	1.00E+06	5.00E+05			170 J		
Pesticide Organic Compounds									
4,4'-DDT	UG/KG	3.3	1.36E+05	47000					6.5 J
Polychlorinated Biphenyls									
Aroclor 1254	UG/KG	-	-	-					72
Total Polychlorinated Biphenyls	UG/KG	100	3200	1000	ND	ND	ND	ND	72
Metals									
Aluminum	MG/KG	10000	-	-	16,300	16,100	12,900	12,000	14,800
Antimony	MG/KG	12	-	-	0.39 J				
Arsenic	MG/KG	13	16	16	12.6	9.2	7.8	6.3	9.9
Barium	MG/KG	350	820	400	60.5	283	82.6	76.8	107
Beryllium	MG/KG	7.2	47	590	0.69	0.69	0.62	0.44	0.63
Cadmium	MG/KG	2.5	7.5	9.3	0.35	0.92	18.0	23.6	113
Calcium	MG/KG	10000	-	-	1,780	1,640	14,000	75,300	14,300

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.
J - The reported concentration is an estimated value.
UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID					GS-01	GS-02	GS-03	GS-04	GS-05
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-	-
Date Sampled					08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**					
Metals									
Chromium	MG/KG	30	NS	1500	24.2	111	456	1,190	288
Cobalt	MG/KG	20	-	-	17.2	15.5	15.0	11.8	12.5
Copper	MG/KG	50	1720	270	25.7	111	330	260	332
Iron	MG/KG	2000	-	-	43,700	28,500	32,500	21,200	33,000
Lead	MG/KG	63	450	1000	18.1	268	325	319	158
Magnesium	MG/KG	-	-	-	6,030	4,040	5,790	7,520	4,540
Manganese	MG/KG	1600	2000	10000	609	378	573	577	618
Mercury	MG/KG	0.18	0.73	2.8	0.018 J	0.074	0.11	0.020 J	0.13
Nickel	MG/KG	30	130	310	38.2	40.9	434	231	462
Potassium	MG/KG	-	-	-	840	1,820	970	1,290	1,530
Selenium	MG/KG	3.9	4	1500	0.68 J	1.6 J	0.90 J		0.96 J
Silver	MG/KG	2	8.3	1500			2.4	1.1 J	3.9
Sodium	MG/KG	-	-	-	430	727	103	144	596
Vanadium	MG/KG	39	-	-	20.3	23.1	20.7	16.0	20.7
Zinc	MG/KG	109	2480	10000	106	484	524	469	2,110
Miscellaneous Parameters									
Cyanide (total)	MG/KG	27	40	27			5.4	38.6	32.1
Hexavalent Chromium	MG/KG	1	19	-				180	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.
J - The reported concentration is an estimated value.
UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-06	GS-07	GS-08	GS-08
Sample ID					GS-06	GS-07	FD-082913-GS	GS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/29/13	08/30/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)	
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/KG	680	680	5.00E+05			14	16
1,1-Dichloroethane	UG/KG	270	270	2.40E+05			33	35
1,1-Dichloroethene	UG/KG	330	330	5.00E+05			5.2 J	5.4 J
1,2-Dichloroethene (cis)	UG/KG	250	250	5.00E+05			4,300 D	4,100 D
1,2-Dichloroethene (trans)	UG/KG	190	190	5.00E+05			18	19
Acetone	UG/KG	50	50	5.00E+05			5.4 J	
Ethylbenzene	UG/KG	1000	1000	3.90E+05			2.5 J	2.3 J
m&p-Xylene	UG/KG	260	1600	1600			8.5	7.6
o-Xylene	UG/KG	260	1600	1600			3.9 J	3.7 J
Trichloroethene	UG/KG	470	470	2.00E+05		410	2,500 D	2,500 D
Semivolatile Organic Compounds								
Anthracene	UG/KG	100000	1.00E+06	5.00E+05	75 J			
Benzo(a)anthracene	UG/KG	1000	1000	5600	370 J			89 J
Benzo(a)pyrene	UG/KG	1000	22000	1000	420			
Benzo(b)fluoranthene	UG/KG	1000	1700	5600	700			120 J
Benzo(g,h,i)perylene	UG/KG	100000	1.00E+06	5.00E+05	350 J			
Benzo(k)fluoranthene	UG/KG	800	1700	56000	340 J			
bis(2-Ethylhexyl)phthalate	UG/KG	50000	4.35E+05	-		160 J		
Butylbenzylphthalate	UG/KG	100000	1.22E+05	-				
Carbazole	UG/KG	-	-	-	130 J			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-06	GS-07	GS-08	GS-08
Sample ID					GS-06	GS-07	FD-082913-GS	GS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/29/13	08/30/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)	
Semivolatile Organic Compounds								
Chrysene	UG/KG	1000	1000	56000	710			90 J
Dibenz(a,h)anthracene	UG/KG	330	1.00E+06	560	100 J			
Di-n-butylphthalate	UG/KG	-	8100	-	150 J		130 J	160 J
Fluoranthene	UG/KG	100000	1.00E+06	5.00E+05	1,300	87 J		120 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	8200	5600	330 J			
Phenanthrene	UG/KG	100000	1.00E+06	5.00E+05	1,300			
Pyrene	UG/KG	100000	1.00E+06	5.00E+05	1,200	96 J		130 J
Pesticide Organic Compounds								
4,4'-DDT	UG/KG	3.3	1.36E+05	47000				
Polychlorinated Biphenyls								
Aroclor 1254	UG/KG	-	-	-	38			
Total Polychlorinated Biphenyls	UG/KG	100	3200	1000	38	ND	ND	ND
Metals								
Aluminum	MG/KG	10000	-	-	14,300	14,100	14,400	14,100
Antimony	MG/KG	12	-	-		0.41 J		
Arsenic	MG/KG	13	16	16	15.3	14.5	17.5	11.7
Barium	MG/KG	350	820	400	67.4	157	150 J	81.4 J
Beryllium	MG/KG	7.2	47	590	0.55	0.72	0.68	0.61
Cadmium	MG/KG	2.5	7.5	9.3	11.8	1.5	3.1	2.7
Calcium	MG/KG	10000	-	-	2,930	8,960	4,510	3,030

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 5
SUMMARY OF DETECTED RESULTS IN SUBSLAB SOIL SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID					GS-06	GS-07	GS-08	GS-08
Sample ID					GS-06	GS-07	FD-082913-GS	GS-08
Matrix					Soil	Soil	Soil	Soil
Depth Interval (ft)					-	-	-	-
Date Sampled					08/29/13	08/30/13	08/29/13	08/29/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	**Criteria (3)**			Field Duplicate (1-1)	
Metals								
Chromium	MG/KG	30	NS	1500	171	38.9	39.7	39.4
Cobalt	MG/KG	20	-	-	12.3	14.2	27.3	27.6
Copper	MG/KG	50	1720	270	151	138	71.4	59.6
Iron	MG/KG	2000	-	-	33,600	37,800	30,200	32,100
Lead	MG/KG	63	450	1000	91.3	211	468	84.1
Magnesium	MG/KG	-	-	-	4,430	3,900	3,950	4,340
Manganese	MG/KG	1600	2000	10000	427	512	451	438
Mercury	MG/KG	0.18	0.73	2.8	0.060	0.16	0.15 J	0.087 J
Nickel	MG/KG	30	130	310	172	33.9	138	170
Potassium	MG/KG	-	-	-	1,340	1,010	3,340	3,570
Selenium	MG/KG	3.9	4	1500	1.3 J	1.4	1.7 J	1.3 J
Silver	MG/KG	2	8.3	1500	1.6	3.2		
Sodium	MG/KG	-	-	-	289	707	810	641
Vanadium	MG/KG	39	-	-	18.8	22.4	26.6	23.7
Zinc	MG/KG	109	2480	10000	1,490	290	763	714
Miscellaneous Parameters								
Cyanide (total)	MG/KG	27	40	27	44.4			
Hexavalent Chromium	MG/KG	1	19	-				

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, including CP-51 Table 1, Effective 12/2/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, including CP-51 Table 1, Effective 12/2/10.

Criteria (3)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial, including CP-51 Table 1, Effective 12/2/10.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria 1

Concentration Exceeds Criteria (2)

Border Concentration Exceeds Criteria (3)

D - Result reported from a secondary dilution analysis.
J - The reported concentration is an estimated value.
UJ - Not detected. The reported quantitation limit is an estimated value.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN CONCRETE CHIP SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	**Units**					Field Duplicate (1-1)
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/KG				140 J	320 J
Di-n-butylphthalate	UG/KG	91 J	98 J	93 J	88 J	120 J
Polychlorinated Biphenyls						
Aroclor 1254	UG/KG				32 J	40
Total Polychlorinated Biphenyls	UG/KG	ND	ND	ND	32	40
Metals						
Aluminum	MG/KG	9,310	10,600	9,470	9,150	8,710
Arsenic	MG/KG	7.8 J	3.6 J	5.8 J	2.7 J	2.8 J
Barium	MG/KG	63.2	60.9	76.5	52.7	60.9
Beryllium	MG/KG		0.34	0.51	0.34	0.34
Cadmium	MG/KG	0.22 J	0.24 J	9.4	9.9	8.7
Calcium	MG/KG	86,500	66,500	91,800	112,000	132,000
Chromium	MG/KG	133 J	11.8 J	257 J	5,460 J	6,540 J
Cobalt	MG/KG	5.4 J	5.0 J	6.5 J	4.0 J	3.5 J
Copper	MG/KG	39.1	25.0	100	189	257
Iron	MG/KG	12,100 J	14,700 J	14,700 J	12,100 J	10,300 J
Lead	MG/KG	21.7 J	7.6 J	23.4 J	50.1 J	178 J
Magnesium	MG/KG	7,690 J	4,380 J	5,260 J	8,170 J	10,200 J
Manganese	MG/KG	443 J	340 J	684 J	288 J	270 J
Mercury	MG/KG	0.012 J	0.0067 J	0.0046 J	0.090	0.0049 J
Nickel	MG/KG	21.2 J	12.7 J	59.3 J	257 J	315 J
Potassium	MG/KG	1,250	616	633	1,510	1,800
Silver	MG/KG	0.82 J		0.36 J	0.44 J	0.72 J

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN CONCRETE CHIP SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Metals						
Sodium	MG/KG	406	203	137	766	942
Thallium	MG/KG					0.39 J
Vanadium	MG/KG	26.4	14.3	14.4	16.1	17.6
Zinc	MG/KG	464 J	108 J	280 J	404 J	194 J
Miscellaneous Parameters						
Cyanide (total)	MG/KG		0.62 J	16.0	13.4 J	23.5 J
Hexavalent Chromium	MG/KG	19		6.4	3,600 J	1,600 J

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN CONCRETE CHIP SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	**Units**	
Semivolatile Organic Compounds		
bis(2-Ethylhexyl)phthalate	UG/KG	180 J
Di-n-butylphthalate	UG/KG	94 J
Polychlorinated Biphenyls		
Aroclor 1254	UG/KG	
Total Polychlorinated Biphenyls	UG/KG	ND
Metals		
Aluminum	MG/KG	7,590
Arsenic	MG/KG	2.4 J
Barium	MG/KG	46.5
Beryllium	MG/KG	0.26
Cadmium	MG/KG	0.59
Calcium	MG/KG	159,000
Chromium	MG/KG	70.8 J
Cobalt	MG/KG	4.1 J
Copper	MG/KG	20.1
Iron	MG/KG	11,100 J
Lead	MG/KG	5.5 J
Magnesium	MG/KG	45,100 J
Manganese	MG/KG	317 J
Mercury	MG/KG	0.0060 J
Nickel	MG/KG	15.2 J
Potassium	MG/KG	1,390
Silver	MG/KG	0.31 J

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 6
SUMMARY OF DETECTED RESULTS IN CONCRETE CHIP SAMPLES
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	**Units**	
Metals		
Sodium	MG/KG	958
Thallium	MG/KG	
Vanadium	MG/KG	19.8
Zinc	MG/KG	160 J
Miscellaneous Parameters		
Cyanide (total)	MG/KG	3.0
Hexavalent Chromium	MG/KG	30

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value.

Only Detected Results Reported.