Storm Water Management Plan
4777 Dewey Ave
Greece, NY

1.0 Project Description

1.1 Site Location

The Dewey Avenue site is comprised of seven buildings spread throughout the property. The center point of the property is a nearly 160,000 ft^2 structure known as Building 1, the largest structure at the site. Building 2 is the second largest structure (26,000 ft^2), and is situated along the north east edge of Building 1. Six other various structures are spread throughout the property. The locations of the above buildings are shown on the attached Site Plan (Figure 1). Buildings 3, 4, and 5 will remain functional and occupied throughout the project. Building 1, 2, 9, and 16 and the Vehicle Repair Building will be demolished.

1.2 Site History

The former Odenbach Shipyard at 4777 Dewey Ave was once a manufacturing facility for WWII wartime ships. John Odenbach developed numerous patents for metal hull construction and utilized these methods at the Dewey Ave site. The Site was selected in 1941 for the construction of ocean going ships. The buildings were completed and 1942 and ship construction began shortly after. Ships would be manufactured, mostly by hand, and the floated out the canal to the north to Lake Ontario. Over the past several years, the site has change ownership numerous times and has been investigated by the US Army Corps of Engineers (USACE), The New York State Department of Environmental Conservation (NYSDEC) and the property owners due to past industrial uses. Environmental subsurface contamination identified at the site resulted from past plating operations, acetylene production, maintenance activities, UST fuel storage, transformers, heat treating, degreasing and laboratory activities. Recently, the NYSDEC has been conducting studies, land surveys, and analysis of the property. The findings of the NYSDEC have outlined the existing storm water and catch basin system that is currently in place at the Dewey Ave site. The existing storm water conditions have been described in two separate drawings created by HDR, NYSDEC's engineering consultant. *HDR: Storm Water Infrastructure – Figure 3* and *HDR: Building #1 NW Area – Figure 2* are attached to this document and will be referenced throughout this plan.

1.3 Existing Conditions

The existing structures on the Dewey Ave site utilize one centralized catch basin and storm water system. The system, highlighted in yellow in *HDR: Storm Water Infrastructure – Figure 3,* has numerous catch basins and storm drain lines throughout the site. The following system description was taken from a recent summary by HDR.

Catch Basin 1 (CB-1) and its associated infrastructure is understood to handle much of the storm water flow for the site. As shown in Figures 1 through 3, the drainage system associated with

CB-1 is extensive, eventually extending to the wetland near the NW corner of the site (highlighted in yellow on Figure 2). The catch basin area has exhibited soil and groundwater contamination and will likely be the focus of additional investigation; therefore this area will be protected during site activities.

As shown in figure 3, yellow highlights mark the active or historic subsurface stormwater piping and catch basin network around the site. Much of this infrastructure is located below building slabs which will not be disturbed during proposed site activities. However as shown in figure 2; some of these lines are outside of buildings and include features such a drainage grates, catch basins, and piping which will be preserved during site demolition activities. Any historic floor drains or openings to the subsurface encountered during demolition activities that have not been previously identified will be reported to NYSDEC, and covered by DEMCO.

1.4 Scope of Work

DEMCO Inc. has been contracted to demolish the selected structures to grade. DEMCO will systematically demolish Building 1, 2, 9, and 16. Additionally, the Former Vehicle Repair Building at the north end of the property will be demolished. The buildings will be demolished to grade leaving concrete slabs and foundations intact. Care will be taken during demolition activities to prevent any fractures/penetrations to the existing slabs on site. Generally, demolition activities will take place on the existing floor slabs of the buildings. The buildings will be demolished to fall inwards, utilizing the existing concrete surface as a work area. DEMCO understands the importance of maintaining and protecting the storm water system throughout the performance of the demolition activities. DEMCO under guidance from the NYSDEC, will execute the following Storm Water Management Plan during the course of demolition operations.

2.0 Stormwater Management Objectives

The stormwater management objectives that will be employed for this project include the following:

- Control and manage surface water in every area where work activities take place;
- Prevent surface water from areas which have not been disturbed from entering areas where work is in progress;
- Prevent surface water from areas which have not been disturbed from entering potentially contaminated areas
- Collect treat and/or dispose of decontamination waters
- Minimize disturbance to areas surrounding building footprint.
- Temporarily close/seal any catch basins within the asbestos demolition work area.

Standing water in the immediate work area will be diverted and contained in storage tanks. Water diverted to tanks will be sampled and analyzed in accordance with applicable regulations. Once a work area is cleared, temporary protection will be removed from catch basins.

3.0 Pre-Development Site Conditions

3.1 Critical and Environmentally Sensitive Areas

The Site is located within approximately 500 feet of the Monroe County Water Authority (MCWA) water treatment facility. Care will be taken to ensure run off from site activities will not impact the adjacent MCWA Water Treatment Facility. The MCWA expressed some concern regarding the storm water system and the surface water body to the west of their facility. The concern was that runoff from the Dewey Ave site could drain towards that body of water. The storm water system outlined in *HDR: Storm Water Infrastructure – Figure 3* clearly shows the system running to the wetlands area to the west. Additionally, with the temporary work area protection installed over the catch basins, no contaminants will enter that system and provisions will be made to prevent water from leaving the active work area.

DEMCO has agreed that additional measures may be required to contain the work area water for the northern sections of Building 1. Depending on the amount of water used within the work area and weather conditions during that time, a berm may be constructed to ensure no water drains off site. The close proximity of the water body makes this work area a greater concern than the others. If deemed necessary, sandbags, silt fence, and or hay bales will be installed along the northern edge to contain the water within the work area. Like other work area water, this water will be collected and placed into tanks for further evaluation. Upon completion of demolition and notice of a clean work zone, the berm will be removed to allow normal drainage activities to continue.

3.2 Utilities

No significant penetrations to the ground will occur during this project. Disturbances will be kept to a minimum as all structures are being demolished to grade only. Underground utilities and storm lines will not be impacted during this work. The sanitary sewer feeds from the building have been capped as directed.

4.0 Proposed Construction

The work outlined herein involves limited disturbances to the ground. Work being performed will predominantly take place within the footprint of the buildings. Minor disturbances may occur when cleaning the surrounding areas of the footprint of the building. On the Dewey Ave site, the greatest disturbance to the ground will be a track machine traversing over a small area during clean up. The estimated disturbance is listed below:

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Greece, NY

Address	Total Acreage (Estimated)	Total Acreage to be Disturbed
4777 Dewey Ave.	45.0	0.25
TOTAL	**45.0**	**0.25**

4.1 Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR (New York Codes, Rules and Regulations) Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Structural steel components will be washed in a designated decontamination area within the work area. Once deemed clean, the steel will be loaded into open top dumpsters for recycling. All water collected from the decontamination area will be collected and pumped into storage tanks for further evaluation. Asbestos waste trucks will be double lined with fire retardant 6mm poly. The loads will then be covered with poly and a secure canvas or plastic tarp. Both the steel trucks going to the recycler and the waste trucks going to the landfill must first go through a decontamination facility constructed within the work area. The facility is constructed to collect water used to decontaminate the trucks. Water collected will be pumped into tanks for further evaluation. No water from the work areas will enter the storm system or catch basins. Truck transport routes are attached for review.

4.2 Work Area Water Management

All water from dust suppression and abatement activities will either infiltrate the surrounding surface or will be collected from existing ground pits, sumps and trenches within the building slab. Collected water will be either treated on site or disposed of off-site in accordance with applicable state and federal regulations.

Erosion and Sediment Control Plan

The Soil Erosion and Sediment Control Plan for this project includes temporary measures to protect abutting property and sewer lines from the detrimental effects of soil erosion and/or sediment originating from activities associated with the project.

The following general notes apply to the implementation of the Soil Erosion and Sediment Control Plan for this project.

- Silt protection is required at all grate inlets, curb inlets and at the ends of any exposed sewer pipes.
- Frequent watering will be required to prevent wind erosion and to minimize the production of dust during demolition activities.
- Catch basins within the abatement/demolition work areas will be protected utilizing a combination of steel plating, rubber membrane, silt fabric, and hay bales. See *Figure 1* (Attached) for a sketch of standard catch basin protection at the Dewey Ave site.
- Floor Drains present within the building footprints will be protected utilizing the same methods outlined in *Figure 1* (Attached).

The DEMCO project manager will be responsible for daily inspections of all sealed and protected catch basins and drain lines. The DEMCO project manager will make sure the integrity of the protected catch basins and drains will be maintained throughout the abatement/demolition work.

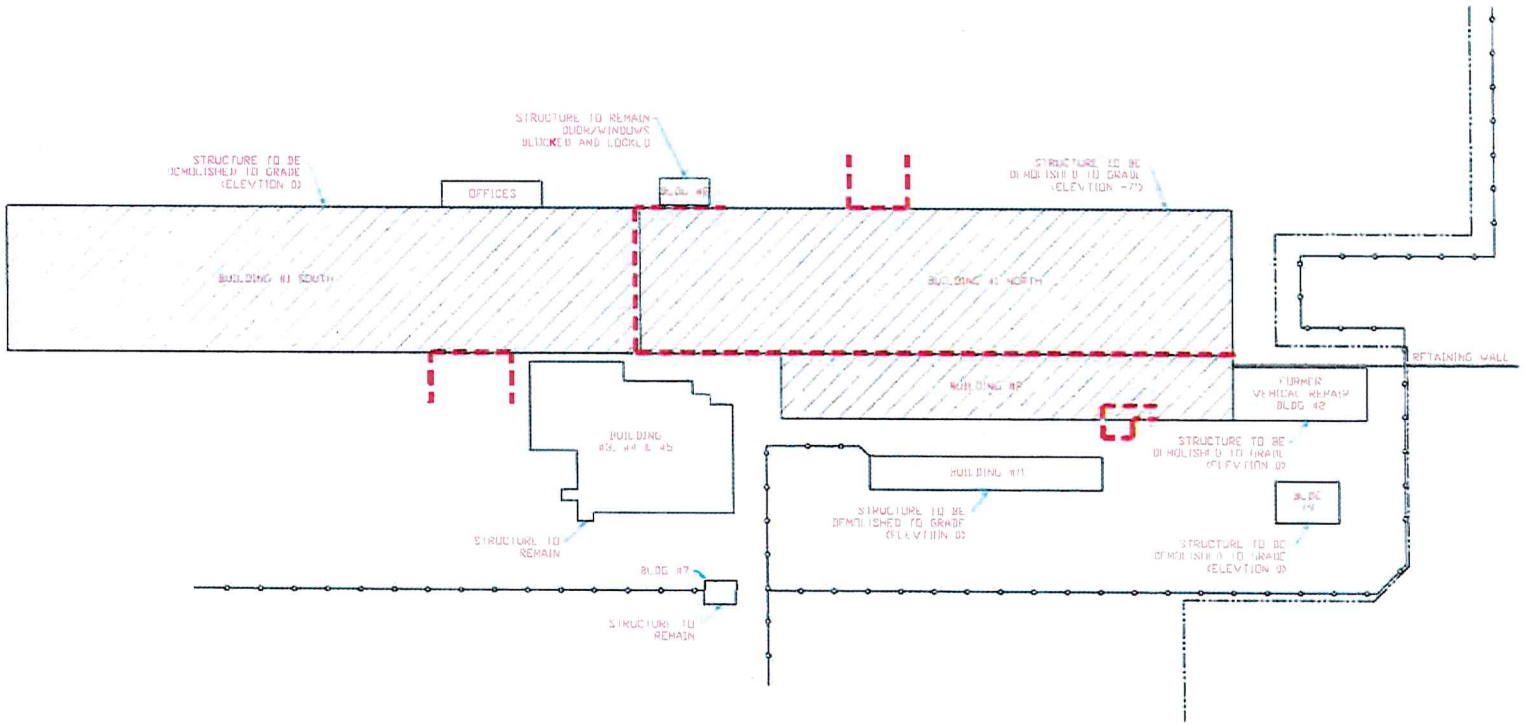
4.3 Post-Construction Storm Water Management Practices

Upon the completion of demolition activities, the temporary plating and sealing materials will be removed. In addition some work could be required to ensure that water is still diverted to the preexisting catch basins and floor drains. If necessary, backfill, sandbags, straw bales, 4x4's, or other methods of diversion will be installed to assist access storm water in reaching the catch basins and floor drains. DEMCO will make an onsite analysis of the runoff conditions once the building is removed and implement the necessary measures to ensure the site is left in an acceptable manner to both the NYSDEC and the Town of Greece.

KEY

INSTALL FALL PROTECTION BARRICADE A MINIMUM OF 6'-0" FROM EDGE. BARRICADES CONSIST OF METAL STANCHIONS BOLTED TO CONCRETE SLAB. TWO SETS OF CABLES TO RUN BETWEEN THE STANCHIONS. DANGER AND FALL HAZARD SIGNS TO BE INSTALLED ON BARRICADES.

ALL PITS/TRENCHES TO BE COVERED/FILLED WITH MATERIAL. ALL HOLES, PITS AND TRENCHES WILL BE BROUGHT TO GRADE (ELEVATION 0)

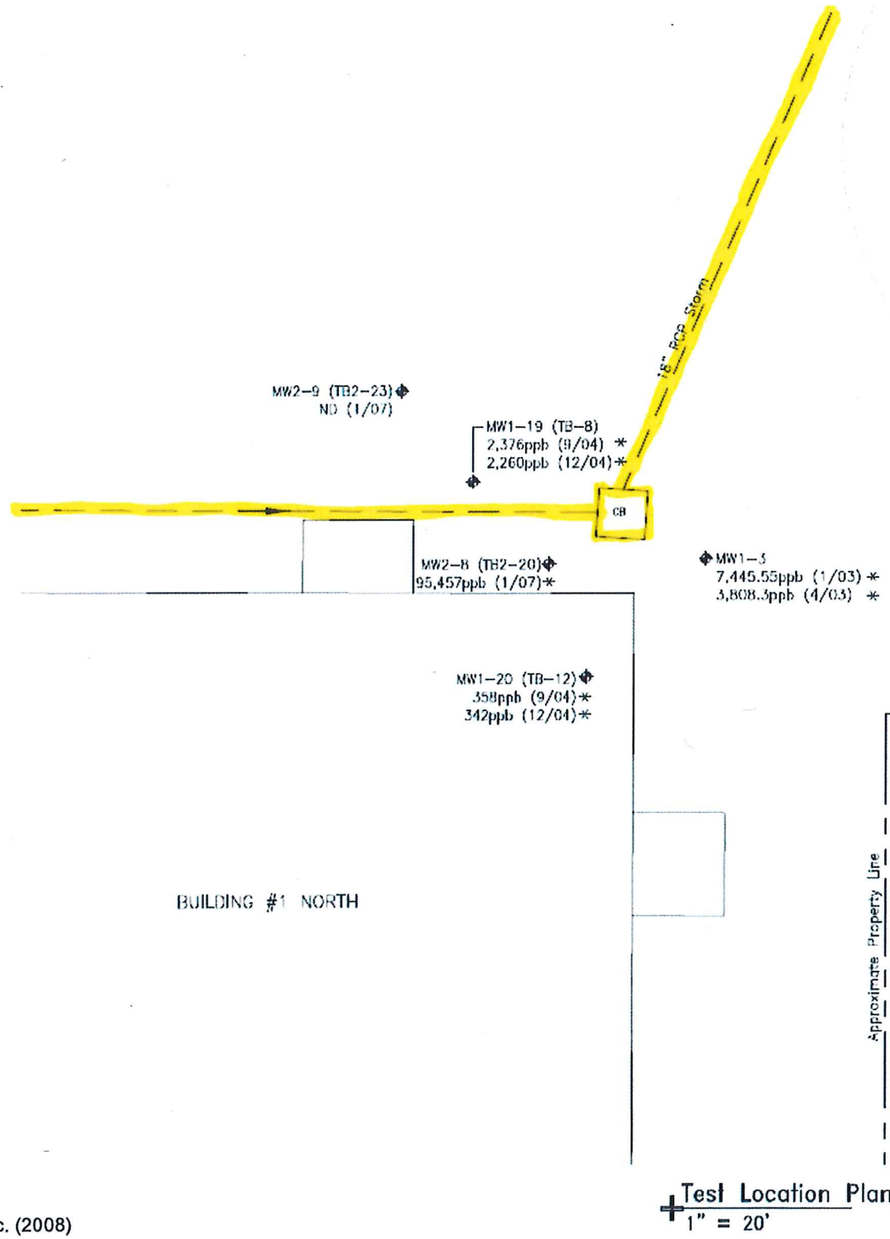


LETTER	REVISIONS	BY	DATE

DEMCO Inc
4810 Lakeshore Rd
Buffalo, NY 14219

Former Odenbach Shipyard Demoliton
4777 Dewey Ave
Greece, NY 14612

SCALE	NTS
DRAWN BY	MHC
DATE	5/23/15
PROJECT NO.	-
SHEET NO.	1



Test Location Plan
1" = 20'

Source: Day Environmental Inc. (2008)

N

NOTES:

1. Monitoring Wells MW1-1 thru MW1-10 are 2" PVC wells installed December 2002.
2. Monitoring Wells MW1-11 thru MW1-14 are 4" Stainless Steel wells installed July 2003.
3. Monitoring Well MW1-15 thru MW1-21 are 2" PVC wells installed March 2004.
4. Monitoring Wells MW2-8 and MW2-9 are 1" PVC wells installed November, 2006.
5. Drawing prepared from Figure GEN-2 in the general work plan dated June 2002 and site observations by representatives of Day Environmental, Inc. from December 2002 through April 2004.

LEGEND:

MW2-8	Monitoring Well with Designation
95,457ppb (1/07)	Total Volatile Organic Compounds (VOCs) including Tentatively Identified Compounds (TICs), detected in parts per billion (ppb) in groundwater sample collected in month/year in parentheses
*	Exceeds NYSDEC TOGS 1.1.1 groundwater standard and or guidance value for one or more VOC

0' 20' 40' 60'

Former Air Force Plant No. 51 (NYSDEC Site No. 828156)
Greece, Monroe County, New York
DRAFT

Building #1 NW Area

DATE
12/04/2014

FIGURE
2

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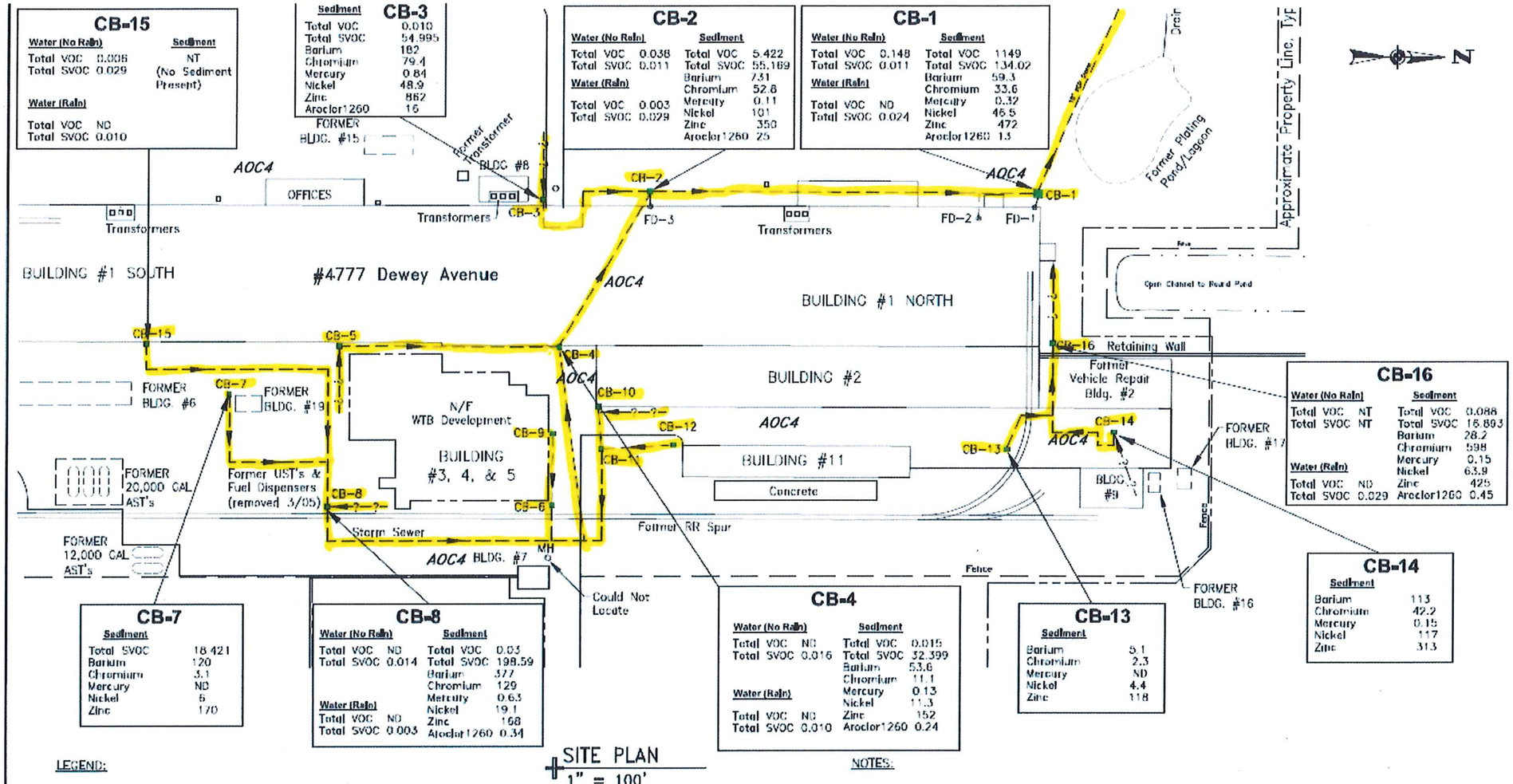

SITE PLAN
1" = 100'

LEGEND:

AOC4	Area of Concern with numbered designation
——→——	Confirmed Connections between Observation Locations
CB-5	Storm Sewer Catch Basin/Junction Box/Sample Location with Designation Surveyed on September 15, 2004
FD-2	Floor Drain
	Storm Sewer Catch Basin/Junction Box/Sample Location on Historic Figure that could not be located in the field
←?—?—	Connection of Observed Pipe could not be determined
NT	Not Tested
ND	Not Detected At Concentration Above Reported Analytical Laboratory Detection Limit
VOC	Volatile Organic Compound
SVOC	Semi-Volatile Organic Compound

NOTES:

1. Drawing prepared from: 1) A paper drawing by William M. Szawranskyj, P.E.,L.S., titled "Existing Water Disposal, Flower City Printing, Being Part Of Town Lot 44, Township 2, Short Range, Town Of Greece, Monroe County, NY" dated February 1987; 2) Monroe County Tax Map Number 046.01; 3) Various Figures from a report titled "Former Air Force Plant No. 51, HTRW Investigation, Greece, NY" by Ogden Environmental and Energy Services Co., Inc, dated April 2000; 4) A drawing for MCWA Water Treatment Plant by Metcalf & Eddy Engineers, Drawing Sheet A-1, "Architectural Plot Plan", date last revised 2-9-62, 5) Figure by Neil Norry, PO Box 51, Rochester, NY, CL-4-9058; 6) A paper drawing titled "Final Plans For Ext. 313 To Sewer Dist. 1", dated May 26, 1987; 7) Site observations by representatives of Day Environmental, Inc. during November 2001 through April 2002.
2. Features shown are approximate, and their accuracy is not guaranteed.
3. Concentrations are in parts per million (ppm)

Source: Day Environmental Inc. (2008)

Former Air Force Plant No. 51 (NYSDEC Site No. 828156)
Greece, Monroe County, New York
DRAFT

Storm Water Infrastructure

DATE 12/04/2014

FIGURE 3

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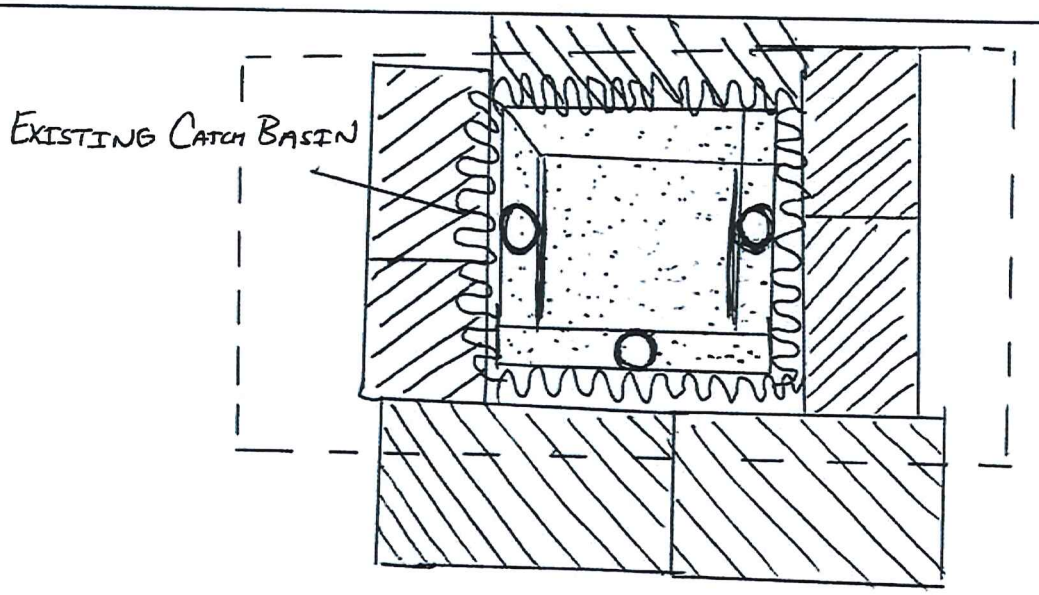
EXISTING BUILDING #1



KEY

- Rubber Membrane
- Silt Fabric material laid flat over top
- ½" Steel Plate
- STRAW BALES

STANDARD CATCH BASIN PROTECTION WITHIN WORK AREA