Former Jonas Automotive Site

ORANGE COUNTY, NEW YORK

Periodic Review Report

NYSDEC Site Number: B00136-3

Prepared for:

Newburgh Commercial Development Corp.

610 Broadway

Newburgh, New York 12550

Prepared by:

First Environment, Inc.

91 Fulton Street, Boonton, New Jersey 07005

973-334-0003

JULY 2017

CERTIFICATION

"For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

a) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER;

b) nothing has occurred that would impair the ability of such control to protect public health and the environment;

c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and

d) access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control."

060784-1	07/11/2017	
NYS Professional Engineer 060784-1	Date	Bernard T. Delaney, Ph.D. P.E., BCEE

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1.0 Introduction and Description of Remedial Program

1.1 Introduction

This Periodic Review Report (PRR) is required as an element of the remedial program at the Former Jonas Automotive Site (hereinafter referred to as the "Site"), Site No. B00136, under the New York State (NYS) Environmental Restoration Program (ERP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with State Assistance Contract (SAC) No.C303487, which was executed on September 5, 2007.

1.1.1 Purpose

The purpose of this periodic review (PR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment, and is functioning as intended by the decision documents. The methods, findings, and conclusions of reviews are documented in the PRR.

This is the initial PRR for the Site, which is located at 86 Wisner Avenue, Orange County, New York. The review was conducted pursuant to the approved NYSDEC Site Management Plan dated March 31, 2015. The triggering action for this statutory review is 18 months from the date of the approved SMP. A PRR is required at this Site due to the fact that hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unrestricted use. The Site consists of one abandoned building, stone, and vegetative cover, all of which effectively act as the engineering controls (i.e., cap) for the Site.

1.2 Site Background

Poughkeepsie Iron Fabricators operated on the Site from 1963 until the early 1990s. The Site was then operated by Poughkeepsie Trim and Steel until 1993. Jonas Automotive Rebuilders operated the facility from August 1993 through March 1999. Jonas used the facility for the dismantling of automobile motors for salvaging. Engines were unloaded onto a concrete pad in the overhead crane area and dismantling of the motors occurred within the building on a large conveyor. A trough along the conveyor collected engine fluids which drained to a 275-gallon collection tank. A 1,000-gallon tank was located in the overhead crane area to collect fluid

runoff from the concrete pad. In March 1999, the City of Newburgh acquired the property through property tax foreclosure.

The City of Newburgh completed a site investigation/remedial alternatives report (SI/RAR) to determine the nature and extent of any contamination by hazardous substances at this environmental restoration site.

As described in the SI report, numerous soil and groundwater samples were collected to characterize the nature and extent of contamination. As summarized in Table 1, the main categories of contaminants that exceed their standards, criteria, and guidance (SCGs) are volatile organic compounds (VOCs); and semi-volatile organic compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs) and inorganic constituents (metals). The primary metals of concern are lead and mercury.

1.2.1 Site Location and Description

The Site is located in the Newburgh County of Orange, New York and is identified as Block 1 and Lot 59.1 on the Orange County Tax Map. A site location map is provided as Figure 1. The Site is approximately 1.45 acres in size and is bound by residential areas to the north; residential areas and vegetation to the south; low lying ground to the east; and Wisner Avenue to the west (see Figure 2 – Site Plan).

1.2.2 Site History

The Jonas Automotive site is located at 86 Wisner Avenue in the City of Newburgh, Orange County, New York. It is situated on approximately 1.45 acres and contains an automobile salvage building and a smaller garage building. The remainder of the property is unpaved and covered with fill consisting of gravel and cinders, with vegetation in less traveled areas. An overhead crane extends out the east end of the foundry building to encompass a covered area containing a concrete pad. An abandoned railroad spur is located east of the building. The area around the Site is mixed residential and commercial/light industrial in nature.

1.2.3 Geologic Conditions

Six shallow monitoring wells were installed on site to characterize subsurface geology and groundwater conditions. Based on observations during the monitoring well installation activities, the Site is underlain by approximately 2.5 to 7.0 feet of fill consisting of varying amounts of sand, silt, and gravel with occasional brick fragments and cinders. Underlying the fill is a silt

layer near the southwest end of the Site, and sand, gravel and cobbles at other parts of the Site. Bedrock was not encountered during any intrusive activities. As such, groundwater occurs under unconsolidated conditions at depths ranging from approximately 6.0 to14.0 feet below ground surface (bgs), depending on topography and seasonal variations.

Based on the results of hydraulic-conductivity testing and measured hydraulic gradients, local groundwater in the overburden flows to the southeast across the Site at an average velocity of 8.9×10^{-4} ft/day.

1.3 Summary of Remedial Actions

The Site was remediated in accordance with the remedy selected by the NYSDEC and described in the Record of Decision (ROD) dated April 2003. The remedial actions were discussed in the ROD, which specified the excavation and off-site disposal of lead and mercury contaminated soils, removal and off-site disposal of petroleum-contaminated debris, stormwater management, and a site-wide cover.

The following additional IRMs were performed during the SI:

- Approximately 123 tons of petroleum-contaminated soil was disposed of off site on December 6, 1999. Jonas had previously stockpiled soil in response to a petroleum spill in the overhead crane area.
- Drums and containers were characterized and removed from the Site on November 9, 2000 for disposal as hazardous and non-hazardous waste, as appropriate. Fourteen of the drums were identified in the drum storage area and contained petroleum wastes. Numerous drums and containers containing various industrial products were also found inside the building.
- Removal of USTs and ASTS, as mentioned above.
- One sump, identified on the west end of the conveyor, was pumped out on June 21, 2001.
- A catch basin, which collected oil runoff from the concrete pad area and a dry well were cleaned on June 22, 2001. All contents were drummed and disposed of off site.

Summary of remedial actions conducted in October and November 2011:

1. Mercury and lead impacted soils were excavated from two predetermined areas outlined in the ROD and RDR. Upon completion, all excavated areas were backfilled to grade with clean quarry process stone.

2. Construction and maintenance of a soil cover system consisting of poly sheeting (i.e., demarcation barrier) to prevent human exposure to remaining contaminated soil/fill remaining at the Site.
3. Placement of cover materials (asphalt, gravel, 12-inch soil underlain by a demarcation barrier).
4. Removal and off-site disposal of petroleum contaminated debris inside the building.
5. Development of a soil management plan that addressed residual contaminated soil that may be excavated in the future.
6. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.
7. Development and implementation of a Site Management Plan for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance, and (4) reporting.

The contractor, Enterprise Network Resolutions (ENR), adhered to the soils/materials management requirements as outlined in the August 2010 RDR, Section 3.1, during the excavation activities. Remedial activities were completed at the Site in October and November 2011.

Historic soils sampling analytical results, as well as historic groundwater sampling analytical results, collected during the remedial investigation and remedial action phases of the property, are presented in Tables 1 and 2.

1.3.1 Remaining Contamination

Contaminated materials remaining on site consists primarily of surface and subsurface soils impacted by SVOCs, metals, and dissolved-phase VOC impact in groundwater. Impacted soils are addressed by the site-wide cover, as outlined in the ROD. The specific areas of remaining contamination above unrestricted use soil standards, including all lead, arsenic, and mercury post-excavation results for each excavation area, are depicted on Figure 3.

No active utility lines or subsurface infrastructure are present at the Site, with the exception of an out-of-service oil/water separator located at the southern end of the Site and an associated drain line which runs east towards the sewer system. Neither utility lines nor subsurface infrastructure had any effect on the remedial activities.

Due to the presence of SVOC and metals contamination in soil, the installation of a sufficient site cap/cover was selected as the appropriate remedial alternative. All post-excavation sample results were compared to Unrestricted Use and Commercial Use Soil Cleanup Objectives (UUSO, CUSCO). Post-excavation results revealed all concentrations of arsenic and lead below relative CUSCO and, in some cases, the UUSCO. The mercury post-excavation samples revealed samples PE-4 at a concentration of 1.01 ppm and PE-6 with a concentration of 0.357 ppm, which do not exceed the CUSCO of 2.8 ppm for mercury. In some cases, the UUSCO of 0.18 ppm was exceeded for the following samples (mercury concentration): PE-1 (0.182 ppm), PE-7 (0.123 ppm), and PE-10 (0.269).

Since contaminated soil, and potentially contaminated groundwater/soil vapor, remains beneath the Site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment.

2.0 Engineering Controls & Inspection

2. 1 Soil Cap / Site Cover

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. This cover system is comprised of construction matting across the entire site, covered by three-quarter inches of quarry process gravel and is depicted on Figure 4. No operation of any treatment systems occurred at the Site. However, the Site is subject to future development that may impact the integrity of the Site cover and cause contact with impacted soils. To address this, a Soils Management Plan, as well as periodic site inspections, was implemented as part of the SMP to address any residual contaminated soils that may be excavated from the Site during development.

2.2 Inspection of Engineering Control

Per the NYSDEC approved SMP dated March 31, 2015, an inspection was conducted at the Site on April 26, 2017. Mr. Kenneth Farah, Jr., E.I.T. of First Environment performed the inspection. All areas of the property were accessible and inspected per the requirements set forth in DER-10. A Site-Wide Inspection Form, completed for the initial periodic review, is included as Appendix A.

The purpose of the site inspection was to determine if the engineering control (i.e., cap or cover) continues to perform as designed and is protective of human health and the environment. The Site is currently unoccupied with one vacant building on the property. Approximately 75 percent of the property is capped with ¼-inch to ¾-inch quarry processed gravel. The remaining portions of the property retain vegetative cover. At the rear (east) of the property, a stormwater easement is capped with six inches of soil to prevent exposure to the underlying soils. Additionally, a silt fence lines the perimeter of the Site on the northern, eastern, and southern property boundaries. No disturbances to the gravel or vegetative cover were observed during the site inspection. The silt fencing had collapsed on portions of the northern and eastern property boundaries.

Findings of the site inspection revealed that the engineering controls remain undisturbed and therefore, contact with subsurface soils is prevented.

2.2.1 Site Monitoring Plan

Per the monitoring schedule presented below, and as described in the approved SMP, on-site monitoring of the monitoring wells will be performed only as necessary, with at least two rounds of groundwater sampling conducted prior to well decommissioning per the requirements set forth in CP-43: Groundwater Monitoring Well Decommissioning Policy. Therefore, since no disturbances to the site cover were observed during the site inspection, monitoring of soil and/or groundwater was not conducted as part of this initial periodic review. The monitoring programs are summarized in the following table.

TABLE A: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Effectiveness	Annual/As Needed	Soil	Not Applicable
Performance	To complete decommissioning of wells	Groundwater	VOCs
Trend	As needed	Groundwater	VOCs

*The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

A groundwater flow diagram, based on the last groundwater monitoring event conducted, is presented in Figure 5.

2.2.2 Operation and Maintenance Plan

The site remedy did not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/soil vapor extraction systems, to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this PRR.

3.0 Recommendations and Conclusions

A site inspection was conducted on April 26, 2016 to access whether the engineering controls previously installed at the property remained undisturbed and effective in terms of being protective of human health and the environment. No disturbances to the engineering controls were observed during the inspection. Additionally, no disturbances to the monitoring wells on site were observed. However, the silt fencing located on the northern and eastern property boundaries has collapsed in sections. Though the silt fencing is not considered part of the Site cover, it is recommended that the silt fencing be repaired to help prevent the migration and erosion of Site soils to off-site locations.

Based on this periodic review, the remedy continues to be protective of public health and the environment and is compliant with the approved SMP and Final Engineering Report (FER) documents.

This PPR will be submitted, in hard-copy format, to the NYSDEC Central Office and Regional Office in which the Site is located, and in electronic format to NYSDEC Central Office, Regional Office, and the NYSDOH Bureau of Environmental Exposure Investigation.

TABLES

TABLE 1
Historic Soil Analytical Results
Former Jonas Automotive Co.
AC No. C303487

Newburgh Commercial Development Corp.
NEWBU001

Sample Location		S-1	S-2	S-3	S-3	S-4	S-5	S-6	S-6	S-7	S-7	S-8	S-8	S-9	S-9	S-10	S-10	S-11	S-11	S-12	S-12	S-13	S-13	S-14	S-14	S-15	S-15	S-16	S-16	S-16	S-17	S-17
Sample Date	**TAGM 4046**	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01
Sample Depth (feet)	**Recommended Soil**	0'-0.5'	0'-0.5'	0'-0.5'	6.5'-7.0'	0'-0.5'	0'-0.5'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.0'-1.5'	0'-0.5'	1.0'-1.5'	0'-0.5'	1.0'-1.5'	0'-0.5'	1.5'-2.0'	0'-0.5'	1.5'-2.0'	7.0'-7.5'	0'-0.5'	1.5'-2.0'
Study Area	**Cleanup Objectives**	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4
PARAMETER (units)																																
VOCs - (µg/Kg)																																
Benzene	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzne	NJ854	Middletown Carting, LLC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenznene	**--**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	**300**	NA	NA	NA	ND	NA	NA	NA	2.6 J	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA
Ethylbenzene	**5,500**	NA	NA	NA	810	NA	NA	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND
Methylene Chloride	**100**	NA	NA	NA	ND	NA	NA	NA	5 J	NA	4.8 J	NA	4.4 J	NA	3.4 J	NA	3.5 J	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND
Naphthalene	**1,300**		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	**1,400**	NA	NA	NA	ND	NA	NA	NA	ND	NA	15	NA	12	NA	8.6	NA	4.8 J	NA	ND	NA	ND	NA	ND	NA	3.9	NA	7.6	NA	ND	ND	NA	ND
Toluene	**1,500**	NA	NA	NA	ND	NA	NA	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND
Total Xylenes	**1,200**	NA	NA	NA	**1,400**	NA	NA	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND
VOCs TIC		NA	NA	NA	8,430 J	NA	NA	NA	10 J	NA	ND	NA	5.7 J	NA	1,100 J	NA	7.8 J	NA	ND	NA	ND	NA	22 J	NA	7.8 J	NA	ND	NA	ND	ND	NA	ND
SVOCs - (ug/Kg)																																
2-Methylnapththalene	**36,400**	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA
Acenaphthalene	**41,000**	ND	ND	ND	ND	ND	ND	78 J	58 J	ND	NA	ND	NA	170 J	ND	ND	NA	ND	430	ND	NA	94 J	NA	260 J	NA	ND	NA	ND	NA	ND	ND	NA
Acenaphthylene	**50,000**	ND	57 J	ND	ND	ND	ND	150 J	63 J	ND	NA	ND	NA	94 J	ND	ND	NA	ND	52 J	54 J	NA	1,400	NA	160 J	NA	ND	NA	ND	NA	ND	ND	NA
Anthracene	**50,000**	ND	75 J	ND	1,400 J	ND	ND	430 J	74 J	ND	NA	ND	NA	380	ND	ND	NA	ND	720	ND	NA	1,200	NA	660	NA	ND	NA	ND	NA	ND	ND	NA
Benzo(a)anthracene	**224**	72 J	160 J	ND	ND	ND	ND	**1,400**	200 J	76 J	NA	ND	NA	**490**	ND	ND	NA	53 J	**830**	120 J	NA	**3,800**	NA	**1,300**	NA	ND	NA	ND	NA	ND	ND	NA
Benzo(a)pyrene	**61**	57 J	**260 J**	ND	ND	ND	ND	**1,200**	**250 J**	**84 J**	NA	ND	NA	**510**	ND	ND	NA	**93 J**	**860**	**130 J**	NA	**3,500**	NA	**1,200**	NA	ND	NA	ND	NA	ND	ND	NA
Benzo(b)fluoranthene	**1,100**	160 J	250 J	ND	ND	37 J	ND	**1,200**	210 J	89 J	NA	ND	NA	380	ND	ND	NA	110 J	520	120 J	NA	**5,200 D**	NA	**1,300**	NA	ND	NA	ND	NA	ND	ND	NA
Benzo(g,h,i)perylene	**50,000**	280 J	370 J	ND	ND	51 J	ND	440 J	140 J	63 J	NA	ND	NA	320 J	ND	ND	NA	ND	500	68 J	NA	1,200	NA	360 J	NA	ND	NA	ND	NA	ND	ND	NA
Benzo(k)fluoranthene	**1,100**	140 J	320 J	ND	ND	ND	ND	**1,200**	280 J	82 J	NA	ND	NA	550	ND	ND	NA	95 J	1,000	210 J	NA	**3,800**	NA	**1,200**	NA	ND	NA	ND	NA	ND	ND	NA
Bis(2-Ethylhexyl)phthalate	**50,000**	770	520	300 J	ND	370	610	46 J	ND	180 J	NA	110 J	NA	580	ND	230 J	NA	190 J	ND	140 J	NA	540	NA	190 J	NA	57 J	NA	ND	NA	ND	ND	NA
Butylbenzylphthalate	**50,000**	ND	110 J	ND	ND	39 J	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA	ND	ND	100 J	NA	83 J	NA	53 J	NA	ND	NA	ND	NA	ND	ND	NA
Chrysene	**400**	100 J	180 J	ND	ND	ND	46 J	**1,500**	270 J	95 J	NA	ND	NA	**590**	ND	ND	NA	74 J	**880**	150 J	NA	**3,700**	NA	**1,500**	NA	ND	NA	ND	NA	ND	ND	NA
Dibenzo(a,h)anthracene	**14**	**101 J**	ND	ND	ND	ND	ND	**61 J**	ND	ND	NA	ND	NA	ND	ND	ND	NA	ND	**54 J**	ND	NA	**220 J**	NA	**51 J**	NA	ND	NA	ND	NA	ND	ND	NA
Diethylphthalate	**7,100**	102 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	53 J	NA	ND	ND	ND	NA	ND	NA	54 J	NA	ND	NA	ND	NA	ND	ND	NA
Di-n-butylphthalate	**8,100**	103 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA
Di-n-octylphthalate	**50,000**	104 J	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA
Fluoranthene	**50,000**	105 J	160 J	ND	930 J	ND	49 J	2,800	550	150 J	NA	ND	NA	1,100	ND	ND	NA	91 J	1,700	280 J	NA	10,000 D	NA	3,000	NA	ND	NA	ND	NA	ND	44 J	NA
Fluorene	**50,000**	106 J	53 J	ND	6,200	ND	ND	140 J	58 J	ND	NA	ND	NA	200 J	ND	ND	NA	ND	430	ND	NA	520 J	NA	300 J	NA	ND	NA	ND	NA	ND	ND	NA
Indeno(1,2,3-cd)pyrene	**3,200**	107 J	120 J	ND	ND	ND	ND	380 J	130 J	ND	NA	ND	NA	310 J	ND	ND	NA	150 J	410	ND	NA	770	NA	220 J	NA	ND	NA	ND	NA	ND	ND	NA
Napthalene	**13,000**	108 J	220 J	ND	**29,000**	39 J	38 J	ND	46 J	ND	NA	ND	NA	140 J	ND	ND	NA	ND	190 J	ND	NA	97 J	NA	81 J	NA	ND	NA	ND	NA	ND	ND	NA
Phenanthrene	**50,000**	109 J	250 J	ND	11,000	ND	38 J	1,700	530 J	74 J	NA	ND	NA	1,600	ND	ND	NA	57 J	1,900	140 J	NA	390	NA	2,600	NA	ND	NA	ND	NA	ND	ND	NA
Pyrene	**50,000**	260 J	660	41 J	1,100 J	50 J	84 J	2,300	400	140 J	NA	ND	NA	2,300	ND	47 J	NA	290 J	1,400	240 J	NA	8,400 D	NA	2,700	NA	ND	NA	ND	NA	ND	ND	NA
SVOCs TIC		**2,870 J**	**3,902 J**	**20,460 J**	**133,710 J**	**2,136 J**	**3,567 J**	**3,124 J**	**2,142**	**1,570 J**	**NA**	**535 J**	**NA**	**1,317 J**	**3,526**	**6,420 J**	**NA**	**603 J**	**3,586**	**13,730 J**	**NA**	**18,470 J**	**NA**	**10,952 J**	**NA**	**2,907 J**	**NA**	**7,355 J**	**NA**	**4,205 J**	**4,470 B**	**NA**
PCBs - (ug/Kg)	**1,000 Total PCBs**																															
AROCLOR 1016		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1221		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1232		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1242		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1248		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1254		48	43	ND	NA	18	19	ND	NA	78	NA	ND	NA	ND	NA	ND	NA	28	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
AROCLOR 1260		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
METALS - (mg/Kg)	**RSCO (Eastern USA Background)**																															
Antimony	**SB (Not Available)**	3 B	3.6 B	3.9 B	NA	5.5 B	3.8 B	4.8 B	NA	2.2 B	NA	1.4 B	NA	2.1 B	NA	1.3 B	NA	1.4 B	NA	4.5 B	NA	6.7 B	NA	1.7 B	NA	1.6 B	NA	1.0 B	NA	NA	1.2 B	NA
Arsenic	**7.5 or SB (3 to 12)**	6.3	6.3	5.9	NA	5.2	7.1	**26**	NA	7.3	NA	6.9	NA	9	NA	8.6	NA	5.9	NA	**12.3**	NA	**104**	NA	**14.5**	NA	8.7	NA	5.4	NA	NA	6.7	NA
Barium	**300 or SB (15 to 600)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	**16(HEAST) or SB(0 to 1.7**	0.20 B	0.19 B	0.15 B	NA	0.14 B	0.2	0.50 B	NA	0.50 B	NA	0.48 B	NA	0.52 B	NA	0.34 B	NA	0.48 B	NA	0.4 B	NA	0.67 B	NA	0.44 B	NA	0.49 B	NA	0.41 B	NA	NA	0.50 B	NA
Cadmium	**1 or SB (0.1 to 1)**	**1.5**	**1.4**	0.64	NA	0.52 B	**1.8**	**6.1**	NA	0.50 B	NA	0.46 B	NA	0.37 B	NA	0.81	NA	0.39 B	NA	**2**	NA	**3.4**	NA	0.49 B	NA	0.27 B	NA	0.06 B	NA	NA	0.08 B	NA
Chromium	**10 or SB(1.5 to 40)**	**49.7**	**104**	**93.1**	NA	**394**	**100**	**54.5**	NA	**46.5**	NA	21.3	NA	22.9	NA	18.5	NA	33	NA	**66.9**	NA	**105**	NA	21.1	NA	17.5	NA	16	NA	NA	20	NA
Copper	**25 or SB(1 to 50)**	**77.9**	**85.5**	**71.1**	NA	**52.5**	**113**	**217**	NA	44.5	NA	43.4	NA	**56.8**	NA	42.5	NA	29.1	NA	**143**	NA	**171**	NA	33.4	NA	**54.2**	NA	16.2	NA	NA	24	NA
Lead	**SB(200 to 500)**	**834**	**2,400**	**6,600**	NA	**6,330**	**1,250**	441	NA	**584**	NA	79.7	NA	105	NA	46.8	NA	169	NA	435	NA	**1,120**	NA	265	NA	39.6	NA	9.6	NA	NA	200	NA
Mercury	**0.1 (0.001 to 0.2)**	**0.21**	0.04	0.02	NA	0.06	0.05	**0.32**	NA	**0.47**	NA	**0.4**	NA	0.16	NA	0.02	NA	0.13	NA	**0.32**	NA	**6.2**	NA	0.19	NA	ND	NA	0.02	NA	NA	0.06	NA
Nickel	**13 or SB (0.5 to 25)**	**27.3**	**32.8**	**32.1**	NA	**26.1**	**40.2**	**53**	NA	20.5	NA	24.1	NA	23.7	NA	20.4	NA	**26.4**	NA	**41.1**	NA	**50.6**	NA	20.2	NA	21.4	NA	13.6	NA	NA	16.4	NA
Selenium	**SB (0.1 to 3.9)**	ND	ND	ND	NA	ND	ND	0.53 B	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	0.98	NA	ND	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA
Silver	**SB (Not Available)**	3.5	24.4	3.7	NA	2.8	6.3	4.5	NA	1.2	NA	1.1	NA	1.2	NA	ND	NA	1.2	NA	10.2	NA	8	NA	5.5	NA	0.95 B	NA	0.79 B	NA	NA	1.2 B	NA
Thallium	**SB (Not Available)**	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	0.76 B	NA	0.58 B	NA	ND	NA	0.56 B	NA	NA	ND	NA
Zinc	**20 or SB (9 to 50)**	**364**	**697**	**406**	NA	**399**	**460**	**2,070**	NA	**223**	NA	**99.2**	NA	**132**	NA	**105**	NA	126	NA	**320**	NA	**600**	NA	**140**	NA	**83.3**	NA	**51.5**	NA	NA	**83.0**	NA
TCLP Lead (mg / L)	**5 (RCRA)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
B = Compound detected in Lab blank
TIC = Tentatively Identified Compound
NA = Not analyzed
J = The concentration was detected at a value below the MDL
E = Sample Dilution required, original analysis beyond instrument
Shaded values = Analyte detected in excess of groundwater

TABLE 1
Historic Soil Analytical Results
Former Jonas Automotive Co.
AC No. C303487

Newburgh Commercial Development Corp.
NEWBU001

Sample Location		S-18 (DW)	S-19	S-19	S-19	S-20	S-20	S-21	S-22 (CB)	S-23	S-24	S-25	S-26	S-27	S-28	S-29	S-30	S-31	S-32	S-33	SS-1	SS-2	SS-3	SS-4	SS-5	SS-5 (DNDp)
Sample Date	**TAGM 4046**	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/20/01	06/21/01	06/21/01	06/21/01	06/21/01	06/21/01	06/21/01	06/20/01	06/20/01	06/20/01	06/20/01	06/20/01	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02
Sample Depth (feet)	**Recommended Soil**	(Sediment)	0'-0.5'	1.5'-2.0'	7.0'-7.5'	0'-0.5'	1.5'-2.0'	2.5'-3.0'	(Sediment)	6.5'-7.0'	6.5'-7.0'	6.5'-7.0'	6.5'-7.0'	6.5'-7.0'	2.0'-2.5'	0.6'-1.0'	0.6'-1.0'	0.6'-1.0'	5.5'-6.0'	5.5'-6.0'	0.2'-0.3'	0.3'-0.4'	0.2'-0.3'	0'-0.2'	0'-0.2'	0'-0.2'
Study Area	**Cleanup Objectives**	4	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	6	6						
PARAMETER (units)																										
VOCs - (µg/Kg)																										
Benzene	**60**	ND	ND	ND	ND	ND	ND	ND	**170**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Bromodichloromethane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	12	ND	NA	NA	NA	NA	NA	NA
n-Butylbenzne	NJ854	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	240	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenznene	**--**	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	14	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	**300**	NA	NA	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	57	57	NA	NA	NA	NA	NA	NA
Ethylbenzene	**5,500**	NA	NA	ND	ND	NA	23	ND	560	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA
Methylene Chloride	**100**	NA	NA	ND	ND	NA	ND	ND	**180 B**	NA	NA	NA	NA	NA	NA	ND	NA	NA	4.2 B	3.8 B	NA	NA	NA	NA	NA	NA
Naphthalene	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	88	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	**1,400**	NA	NA	6.3	ND	NA	10	87	50 J	NA	NA	NA	NA	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA
Toluene	**1,500**	NA	NA	ND	ND	NA	6.2	ND	**1,500**	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA
Total Xylenes	**1,200**	NA	NA	ND	ND	NA	164	ND	**3,900**	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA
VOCs TIC		NA	NA	26.7 J	16 J	NA	1,300 J	38 J	28,200 J	ND	ND	ND	ND	342	ND	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA
SVOCs - (ug/Kg)																										
2-Methylnapthhalene	**36,400**	ND	ND	NA	ND	ND	NA	ND	2,600	NA	NA	NA	NA	NA	NA	56 J	ND	56 J	ND	ND	ND	ND	38 J	ND	ND	ND
Acenaphthalene	**41,000**	ND	ND	NA	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**50,000**	ND	81 J	NA	ND	150 J	NA	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	77 J	ND	ND	ND	79 J	43 J	300 J	41 J	38 J
Anthracene	**50,000**	ND	ND	NA	ND	150 J	NA	47 J	910	NA	NA	NA	NA	NA	NA	ND	ND	84 J	72 J	ND	ND	73 J	65 J	150 J	72 J	68 J
Benzo(a)anthracene	**224**	110 J	ND	NA	ND	ND	NA	84 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	190 J	**230 J**	110 J	90 J	**330 J**	180 J	**770**	**230 J**	190 J
Benzo(a)pyrene	**61**	**130 J**	**110 J**	NA	ND	**320 J**	NA	**88 J**	ND	NA	NA	NA	NA	NA	NA	ND	ND	**230 J**	**220 J**	**110 J**	**110 J**	**350 J**	**220 J**	**920**	**260 J**	**210 J**
Benzo(b)fluoranthene	**1,100**	100 J	120 J	NA	ND	190 J	NA	79 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	250 J	230 J	140 J	140 J	530	360	**1,300**	350 J	300 J
Benzo(g,h,I)perylene	**50,000**	ND	ND	NA	ND	250 J	NA	64 J	99 J	NA	NA	NA	NA	NA	NA	130 J	ND	140 J	120 J	ND	86 J	140 J	120 J	330 J	100 J	82 J
Benzo(k)fluoranthene	**1,100**	180 J	190 J	NA	ND	340 J	NA	110 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	330 J	140 J	91 J	81 J	260 J	170 J	600	180 J	150 J
Bis(2-Ethylhexyl)phthalate	**50,000**	990	1,400	NA	260 J	2,600	NA	ND	4,400 D	NA	NA	NA	NA	NA	NA	3,500 D	97 J	330 J	ND	64 J	47 J	130 J	170 J	89 J	91 J	74 J
Butylbenzylphthalate	**50,000**	510 J	ND	NA	ND	ND	NA	ND	4,200	NA	NA	NA	NA	NA	NA	840	ND	78 J	ND	ND	ND	ND	48 J	ND	ND	ND
Chrysene	**400**	140 J	ND	NA	ND	**610**	NA	99 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	260 J	250 J	120 J	120 J	370	240 J	**800**	290 J	240 J
Dibenzo(a,h)anthracene	**14**	ND	ND	NA	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	**54 J**	ND	ND
Diethylphthalate	**7,100**	ND	ND	NA	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	ND	75 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	**8,100**	ND	ND	NA	ND	ND	NA	ND	160 J	NA	NA	NA	NA	NA	NA	ND	ND	ND	49 J	ND	ND	38 JB	77 JB	43 JB	39 JB	ND
Di-n-octylphthalate	**50,000**	91 J	ND	NA	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	37 J	ND	ND	ND
Fluoranthene	**50,000**	220 J	ND	NA	ND	ND	NA	200 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	280 J	480	170 J	190 J	740	420	1,200	520	490
Fluorene	**50,000**	ND	ND	NA	ND	ND	NA	ND	500 J	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	44 J	ND	ND
Indeno(1,2,3-cd)pyrene	**3,200**	ND	100 J	NA	ND	340 J	NA	ND	ND	NA	NA	NA	NA	NA	NA	47 J	ND	52 J	110 J	ND	81 J	140 J	98 J	340 J	100 J	84 J
Napthalene	**13,000**	ND	ND	NA	78 J	220 J	NA	ND	1,100	NA	NA	NA	NA	NA	NA	ND	ND	40 J	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**50,000**	170 J	45 J	NA	58 J	640	NA	160 J	930	NA	NA	NA	NA	NA	NA	ND	ND	200 J	270 J	110 J	93 J	300 J	200 J	440	340 J	310 J
Pyrene	**50,000**	320 J	180 J	NA	57 J	2,000	NA	200 J	1,100	NA	NA	NA	NA	NA	NA	1,200	ND	480	440	190 J	160 J	570	350 J	1,100	430	360
SVOCs TIC		**14,663 J**	**3,526 J**	**NA**	**25,340 J**	**6,830 J**	**NA**	**5,880 J**	**17,270 J**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**7,565 J**	**3,160 J**	**11,280 J**	**1,454 J**	**2,851 J**	**1,400 J[1]**	**5,650 J[1,2]**	**5,447 J[1,2]**	**6,607 J[1,2]**	**9,630 J[1]**	**10,360 J[1]**
PCBs - (ug/Kg)	**1,000 Total PCBs**																									
AROCLOR 1016		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1221		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1232		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1242		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1248		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1254		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1260		ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS - (mg/Kg)	**RSCO (Eastern USA Background)**																									
Antimony	**SB (Not Available)**	3.6 B	2.2 B	NA	NA	1.9 B	NA	1.6 B	6.0 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**7.5 or SB (3 to 12)**	10.7	10.1	NA	NA	9.8	NA	6.7	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1	10.7	8.7	**12**	11	11	8.7	8.3
Barium	**300 or SB (15 to 600)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74	97	79	99	120	110
Beryllium	**16(HEAST) or SB(0 to 1.7**	0.78 B	0.59	NA	NA	0.44 B	NA	0.50 B	0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 B	0.51 B	ND	ND	ND	ND	ND	ND
Cadmium	**1 or SB (0.1 to 1)**	0.98	0.46 B	NA	NA	0.51 B	NA	**1.6**	**13.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	**1.7**	**1.4**	ND	ND	ND
Chromium	**10 or SB(1.5 to 40)**	**54.3**	**160**	NA	NA	20.0	NA	17.6	**60.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	**78.8**	36	**59**	**51**	**51**	**58**	**63**
Copper	**25 or SB(1 to 50)**	**110**	**83.9**	NA	NA	**53.8**	NA	43.5	**470**	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	**56.8**	**50**	**140**	**84**	**81**	**57**	**51**
Lead	**SB(200 to 500)**	438	160	NA	NA	196	NA	140	**862**	NA	NA	NA	NA	NA	NA	NA	NA	NA	296	**973**	290	450	330	**510**	**710**	**750**
Mercury	**0.1 (0.001 to 0.2)**	0.08	0.09	NA	NA	**0.20**	NA	**0.38**	**0.21**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.62**	**0.28**	**48**	**5.6**	**3.8**	**2.7**	**1.1**	**0.78**
Nickel	**13 or SB (0.5 to 25)**	**32.0**	**31.8**	NA	NA	17.5	NA	18.1	**71**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**40.2**	**35.6**	**31**	**50**	**43**	**39**	**33**	**27**
Selenium	**SB (0.1 to 3.9)**	ND	ND	NA	NA	0.55 B	NA	ND	0.58 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**SB (Not Available)**	2.7	1.1 B	NA	NA	1.1	NA	1.4	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**SB (Not Available)**	ND	ND	NA	NA	ND	NA	ND	1.0 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**20 or SB (9 to 50)**	**282**	**157**	NA	NA	**199**	NA	**236**	**1480**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**137**	**359**	**190**	**260**	**220**	**270**	**310**	**290**
TCLP Lead (mg / L)	**5 (RCRA)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
B = Compound detected in Lab blank
TIC = Tentatively Identified Compound
NA = Not analyzed
J = The concentration was detected at a value below the MDL
E = Sample Dilution required, original analysis beyond instrument
Shaded values = Analyte detected in excess of groundwater

TABLE 1
Historic Soil Analytical Results
Former Jonas Automotive Co.
AC No. C303487

Newburgh Commercial Development Corp.
NEWBU001

Sample Location		SS-6	SS-7	SS-8	SS-9	SS-10	SS-10	SS-11	SS-12	SS-13	PE-L-1	PE-L-2	PE-L-3	PE-L-4	PE-1	PE-2	PE-3	PE-4	PE-5	PE-6	PE-7	PE-8	PE-9	PE-10	PE-11	Dup #1	Dup #2
Sample Date	**TAGM 4046**	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	08/12/02	10/20/2011	10/20/2011	10/20/2011	10/20/2011	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11
Sample Depth (feet)	**Recommended Soil**	0.3'-0.4'	0'-0.2'	0'-0.2'	0'-0.2'	1.0'-1.2'	2.3'-2.5'	0.2'-0.3'	0'-0.2'	0.3'-0.4'	1.0'-1.5'	1.0'-1.5'	1.0'-1.5'	1.0'-1.5'	1.5'-2.0'	1.5'-2.0'	1.5'-2.0'	1.5'-2.0'	2.0'-2.5'	1.5'-2.0'	1.5'-2.0'	1.5'-2.0'	1.5'-2.0'	2.0'-2.5'	1.5'-2.0'	1.5'-2.0'	2.0'-2.5'
Study Area	**Cleanup Objectives**																										
PARAMETER (units)																											
VOCs - (µg/Kg)																											
Benzene	**60**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	**--**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzne	NJ854	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenznene	**--**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	**300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	**5,500**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	**100**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	**1,400**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	**1,500**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs TIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs - (ug/Kg)																											
2-Methylnapthalene	**36,400**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthalene	**41,000**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	**50,000**	45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	**50,000**	47 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	**224**	**290 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	**61**	**300 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	**1,100**	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,I)perylene	**50,000**	130 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	**1,100**	170 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	**50,000**	390	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	**50,000**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	**400**	320 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	**14**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	**7,100**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	**8,100**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	**50,000**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	**50,000**	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	**50,000**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	**3,200**	120 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Napthalene	**13,000**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	**50,000**	210 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	**50,000**	550	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs TIC		**9,080 J[1]**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
PCBs - (ug/Kg)	**1,000 Total PCBs**																										
AROCLOR 1016		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1232		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS - (mg/Kg)	**RSCO (Eastern USA Background)**																										
Antimony	**SB (Not Available)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	**7.5 or SB (3 to 12)**	7.1	NA	NA	NA	NA	NA	NA	NA	NA	4.74	3.27	6.22	3.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	**300 or SB (15 to 600)**	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	**16(HEAST) or SB(0 to 1.7**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	**1 or SB (0.1 to 1)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	**10 or SB(1.5 to 40)**	**77**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	**25 or SB(1 to 50)**	**78**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	**SB(200 to 500)**	**1000**	NA	NA	NA	240	29	80	**750**	440	**87.6**	24.1	**273**	37.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	**0.1 (0.001 to 0.2)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.182**	0.06	0.09	**1.01**	0.035	**0.357**	**0.123**	0.032	0.033	**0.269**	0.076	**0.934**	**0.25**
Nickel	**13 or SB (0.5 to 25)**	**32**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	**SB (0.1 to 3.9)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	**SB (Not Available)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	**SB (Not Available)**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	**20 or SB (9 to 50)**	**280**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg / L)	**5 (RCRA)**	NA	0.6	0.38	**6.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
B = Compound detected in Lab blank
TIC = Tentatively Identified Compound
NA = Not analyzed
J = The concentration was detected at a value below the MDL
E = Sample Dilution required, original analysis beyond instrument
Shaded values = Analyte detected in excess of groundwater

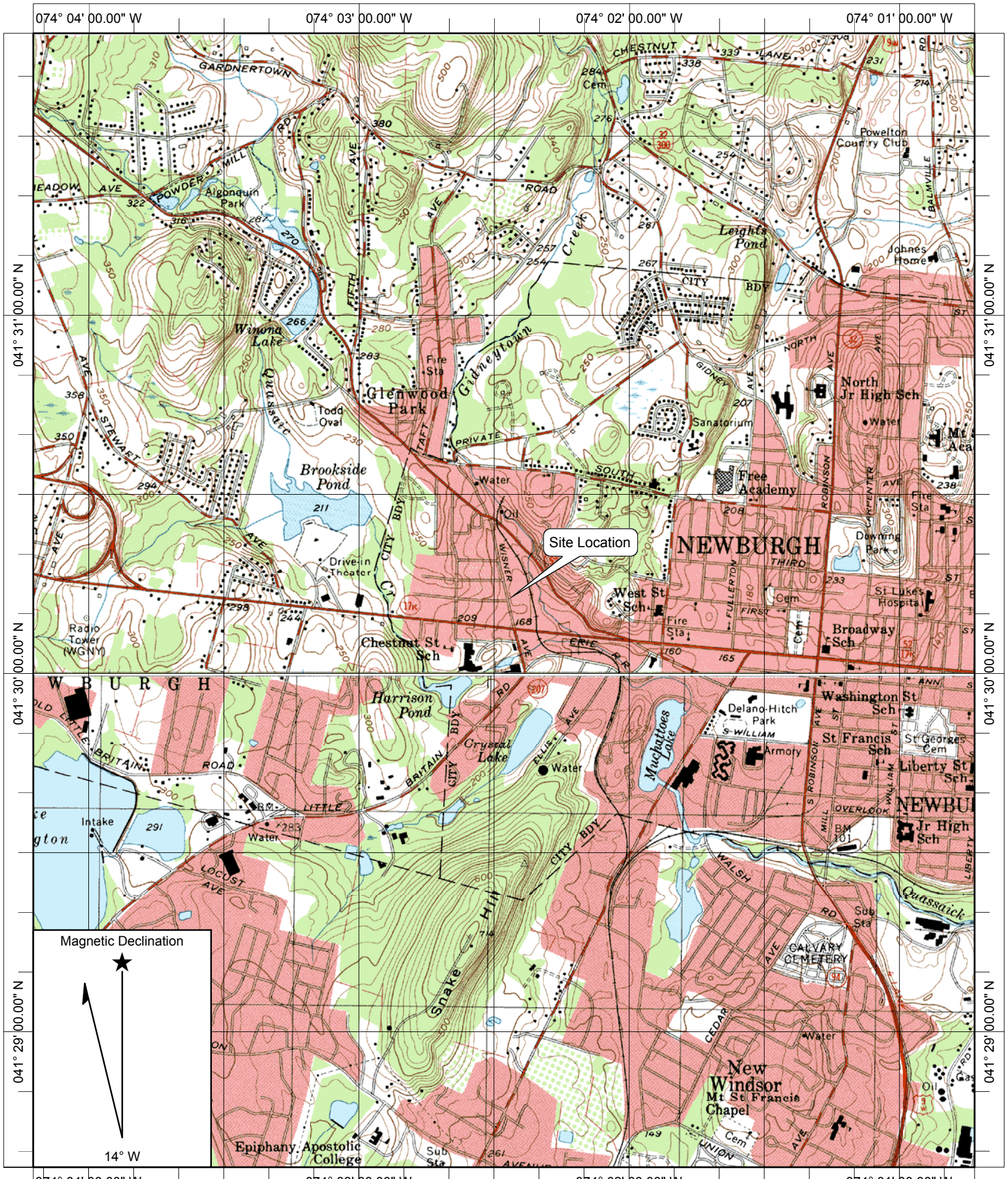
TABLE 2
Historic Groundwater Results
Former Jonas Automotive Co.
AC No. C303487

Newburgh Commercial Development Corp.
NEWBU001

CLIENT ID:		MW-1			MW-2				MW-3					MW-4			MW-4 MS**	MW-4 MSD***	MW-5		MW-6	Dup	Field Blank		Trip Blank	
LAB ID:	NYS Ambient	001	AB67366		003	AB67368	AC61718-002		004	AB67370	P5587-01	AC61718-003		005	AB67372	AC61718-001	AC61718-004	AC61718-005	002	AB67374	AB67376	AC61718-006	AB67378	AC61718-007	AB67379	AC61718-008
COLLECTION DATE:	Groundwater	08/28/01	09/06/02		08/28/01	09/06/02	09/22/11		08/28/01	09/06/02	12/17/02	09/22/11		08/28/01	09/06/02	09/22/11	09/22/11	09/22/11	08/28/01	09/06/02	09/06/02	09/22/11	09/06/02	09/22/11	09/06/02	09/21/11
SAMPLE MATRIX:	Standard	Aqueous	Aqueous		Aqueous	Aqueous	Aqueous		Aqueous	Aqueous	Aqueous	Aqueous		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:	TOGS 1.1.1	ug/L	ug/L		ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds		Result	Result		Result	Result	Result		Result	Result	Result	Result		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,1,1-Trichloroethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	19	~	~	~	ND	~	ND	~	ND
1,1,2,2-Tetrachloroethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	15	16	~	~	~	ND	~	ND	~	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NJ854	Middletown Carting, LLC	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	15	~	~	~	ND	~	ND	~	ND
1,1,2-Trichloroethane	**1**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
1,1-Dichloroethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	17	~	~	~	ND	~	ND	~	ND
1,1-Dichloroethene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	16	~	~	~	ND	~	ND	~	ND
1,2,3-Trichlorobenzene	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	15	15	~	~	~	ND	~	ND	~	ND
1,2,4-Trichlorobenzene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	16	17	~	~	~	ND	~	ND	~	ND
1,2-Dibromo-3-chloropropane	**0.04**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	13	14	~	~	~	ND	~	ND	~	ND
1,2-Dibromoethane	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	17	~	~	~	ND	~	ND	~	ND
1,2-Dichlorobenzene	**3**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	18	~	~	~	ND	~	ND	~	ND
1,2-Dichloroethane	**0.6**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	19	~	~	~	ND	~	ND	~	ND
1,2-Dichloropropane	**1**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
1,3-Dichlorobenzene	**3**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
1,4-Dichlorobenzene	**3**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	17	~	~	~	ND	~	ND	~	ND
1,4-Dioxane	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	810	820	~	~	~	ND	~	ND	~	ND
2-Butanone	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	14	13	~	~	~	ND	~	ND	~	ND
2-Hexanone	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	16	~	~	~	ND	~	ND	~	ND
4-Methyl-2-pentanone	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	15	14	~	~	~	ND	~	ND	~	ND
Acetone	**50**	17	B	ND	9.1	B	ND	ND	6.6	B	ND	ND	ND	13	B	ND	69	65	15	B	ND	ND	ND	ND	ND	ND
Benzene	**1**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	19	~	~	~	ND	~	ND	~	ND
Bromochloromethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	20	19	~	~	~	ND	~	ND	~	ND
Bromodichloromethane	**50**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
Bromoform	**50**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	17	~	~	~	ND	~	ND	~	ND
Bromomethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	13	12	~	~	~	ND	~	ND	~	ND
Carbon disulfide	**60**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	14	15	~	~	~	ND	~	ND	~	ND
Carbon tetrachloride	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	20	19	~	~	~	ND	~	ND	~	ND
Chlorobenzene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	19	~	~	~	ND	~	ND	~	ND
Chloroethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	18	~	~	~	ND	~	ND	~	ND
Chloroform	**7**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	19	~	~	~	ND	~	ND	~	ND
Chloromethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	16	15	~	~	~	ND	~	ND	~	ND
cis-1,2-Dichloroethene	**5**	ND	ND		ND	ND	ND		0.6	J	ND	ND		ND	ND	ND	17	17	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	**0.4**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	15	15	~	~	~	ND	~	ND	~	ND
Cyclohexane	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	16	17	~	~	~	ND	~	ND	~	ND
Dibromochloromethane	**50**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
Dichlorodifluoromethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	14	13	~	~	~	ND	~	ND	~	ND
Ethylbenzene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	20	20	~	~	~	ND	~	ND	~	ND
Isopropylbenzene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	16	17	~	~	~	ND	~	ND	~	ND
m&p-Xylenes	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	40	41	~	~	~	ND	~	ND	~	ND
Methyl Acetate	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	20	19	~	~	~	ND	~	ND	~	ND
Methyl tert-butyl ether	**5**	ND	ND		ND	ND	ND		2.9		**1,200**	**29**		ND	ND	ND	18	17	1.2		3.4	ND	ND	ND	ND	ND
Methylcyclohexane	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	17	~	~	~	ND	~	ND	~	ND
Methylene Chloride	**5**	0.5	J	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	18	18	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	20	20	~	~	~	ND	~	ND	~	ND
Styrene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	18	18	~	~	~	ND	~	ND	~	ND
Tetrachloroethene	**5**	4.1		**5.9**	**7.2**		**6.6**	2.2	1.3	J	ND	ND		**8.7**		**9.7**	25	23	ND	ND	ND	3.1	ND	ND	ND	ND
Toluene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	19	~	~	~	ND	~	ND	~	ND
trans-1,2-Dichloroethene	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	19	18	~	~	~	ND	~	ND	~	ND
trans-1,3-Dichloropropene	**0.4**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	17	~	~	~	ND	~	ND	~	ND
Trichloroethene	**5**	ND		ND	ND		ND	ND	ND		ND	ND		1.1	J	ND	18	18	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	**5**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	17	18	~	~	~	ND	~	ND	~	ND
Vinyl chloride	**2**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	16	15	~	~	~	ND	~	ND	~	ND
Xylenes (Total)	**NA**	~	~	~	~	~	ND		~	~	~	ND		~	~	ND	60	61	~	~	~	ND	~	ND	~	ND
TOTAL VOCs	**NA**	4.6		5.9	7.2		6.6	ND	4.8		1,200	29		ND	9.8	9.7	ND	1,828	1.2		3.9	3.4	ND	ND	ND	ND
TOTAL TICs	**NA**	38		7.1	J ND		6.6	J ND	ND		58	J ND		ND	ND	8.1	J ND	ND	ND		11.4	J 7.6	J ND	3.4	J ND	10	J ND
TOTAL VOCs & TICs	**NA**	42.6		13.0	J 7.2		13.2	J ND	4.8		1,258	J 29		ND	9.8	17.8	J ND	1,831	1.2		15.3	J 11.0	J ND	3.4	J ND	10	J ND
Semivolatile Organic Compounds																										
Diethylphthalate	**50**	ND		~	~	ND		~	~	~	~	1.3	J	~	~	~	~	~	ND		~	~	~	~	~	~	~	~
bis(2-Ethylhexyl)phthalate	**5**	ND		~	~	2.5	J	~	~	~	~	ND		~	~	~	~	~	ND		~	~	~	~	~	~	~	~
TOTAL BNs		ND		~	~	2.5	J	~	~	~	~	1.3	J	~	~	~	~	~	ND		~	~	~	~	~	~	~	~
TOTAL TICs		21.24	BJ	~	~	ND		~	~	~	~	93.9	JB	~	~	~	~	48	JB	~	~	~	~	9.1	JB	~	~	~
TOTAL BNs & TICs		21.24	BJ	~	~	2.5	J	~	~	~	~	95.2	JB	~	~	~	~	48	JB	~	~	~	~	9.1	JB	~	~	~
Total Petroleum Hydrocarbons		~	~	ND		~	~	ND	ND	~	~	~	~	~	~	ND	ND	~	~	~	~	ND	~	~	~	~	~	~
Metals																										
Antimony	**3**	ND		ND	ND		ND	ND	**9.9**	B	ND	~	~	~	ND	ND	ND	~	~	~	~	**9.6**	B	ND	ND	1	~	~	~	~	~	~	~	~
Arsenic	**25**	8.6	B	ND	ND		ND	ND	18.3		6.1	~	~	~	~	ND	ND	ND	~	~	~	**41.6**		ND	ND	ND	1	~	~	~	~	~	~	~	~
Barium	**1,000**	NA		32	~	~	ND	ND	~	~	38	~	~	~	~	27	27	~	~	~	~	30	110	ND	ND	50	~	~	~	~	~	~	~	~
Beryllium	**3**	0.69	B	ND	0.34	B	ND	ND	0.92	B	ND	~	~	~	~	0.1	B	ND	ND	~	~	~	~	2.2	B	ND	ND	ND	1	~	~	~	~	~	~	~	~
Cadmium	**5**	0.82	B	ND	ND		ND	ND	ND		ND	~	~	~	~	0.72	B	ND	ND	~	~	~	~	ND		ND	ND	ND	1	~	~	~	~	~	~	~	~
Chromium	**50**	18.7		ND	7.4	B	ND	ND	25.2		ND	~	~	~	~	8.2	B	ND	ND	~	~	~	~	**67**		ND	ND	ND	1	~	~	~	~	~	~	~	~
Copper	**200**	59.9		ND	47.6		ND	ND	95.6		ND	~	~	~	~	15.5	B	ND	ND	~	~	~	~	**215**		ND	ND	ND	5.9	~	~	~	~	~	~	~	~
Lead	**25**	**25.1**		ND	13.5		ND	ND	**46**		ND	~	~	~	~	7.6		ND	ND	~	~	~	~	**83.8**		ND	ND	ND	0.5	~	~	~	~	~	~	~	~
Mercury	**1**	ND		ND	ND		ND	ND	ND		ND	~	~	~	~	ND		ND	ND	~	~	~	~	ND		ND	ND	ND	1	~	~	~	~	~	~	~	~
Nickel	**100**	22.2	B	ND	6	B	ND	ND	33.5	B	ND	~	~	~	~	ND		ND	ND	~	~	~	~	**109**		ND	ND	ND	0.6	~	~	~	~	~	~	~	~
Selenium	**10**	5.9		ND	2.6	B	ND	ND	ND		ND	~	~	~	~	4.2	B	ND	ND	~	~	~	~	ND		ND	ND	ND	1	~	~	~	~	~	~	~	~
Silver	**50**	ND		ND	ND		ND	ND	ND		ND	~	~	~	~	ND		ND	ND	~	~	~	~	1.8	B	ND	ND	ND	1	~	~	~	~	~	~	~	~
Thallium	**1**	ND		ND	ND		ND	ND	**13**		ND	~	~	~	~	**10.9**		ND	ND	~	~	~	~	ND		ND	ND	ND	1	~	~	~	~	~	~	~	~
Zinc	**2,000**	130	E	ND	80.1	E	ND	ND	200	E	ND	~	~	~	~	78.3	E	ND	ND	~	~	~	~	510	E	ND	ND	ND	1	~	~	~	~	~	~	~	~
Turbidity (NTUs)		549		14.4	1,000		27.4	27.4	1,000		38.8	~	~	~	~	>1,000		53.8	53.8	~	~	~	~	>1,000		1.3	~	ND	1	~	~	~	~	~	~	~	~

NOTES:
~ = Not analyzed
B = Compound detected in Lab blank
BN = Base / Nuetral Semivolatile Compound
TIC = Tentatively Identified Compound
J = The concentration was detected at a value below the MDL
E = Sample Dilution required, original analysis beyond instrument calibration range
Shaded values Analyte detected in excess of groundwater standard or guideline
All compounds measured in parts per billion (ppb)
Turbidity measured in field, not measured at MW-6 due to malfunction

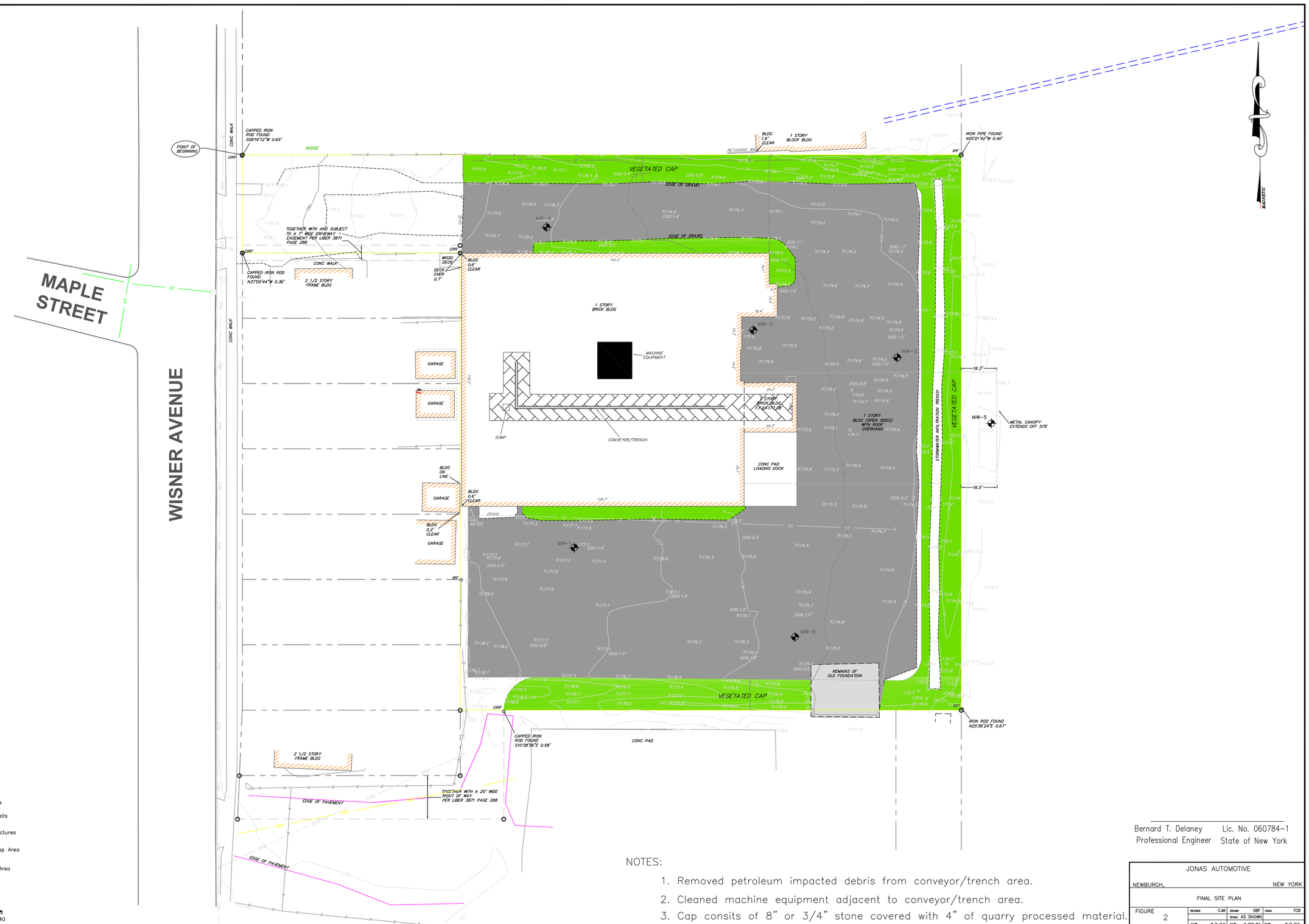
FIGURES



Name: NEWBURGH
Date: 4/29/2009
Scale: 1 inch equals 2000 feet

Location: 041° 30' 12.28" N 074° 02' 27.88" W NAD 27
Caption: Figure 1: Site Location Map
Jonas Automotive

Copyright (C) 1997, Maptech, Inc.



LEGEND

- Property Line
- GAS — Gas Line
- ST — Sewer Line
- Fence
- Drainage Pipe
- MW-1 Monitoring Wells
- Existing Structures
- Vegetated Cap Area
- Gravel Cap Area

SCALE

0 20 10 (FEET) 40

REFERENCES:
TOPOGRAPHIC & BOUNDARY SURVEY, Drawn By N. Lahens of Ewell W. Finley P.C. Consulting Engineers & Land Surveyors, Dated April 6, 2010, Job Number 2021.

NOTES:

1. Removed petroleum impacted debris from conveyor/trench area.
2. Cleaned machine equipment adjacent to conveyor/trench area.
3. Cap consits of 8" or 3/4" stone covered with 4" of quarry processed material.
4. For stormwater drain and basin details see Appendix C.

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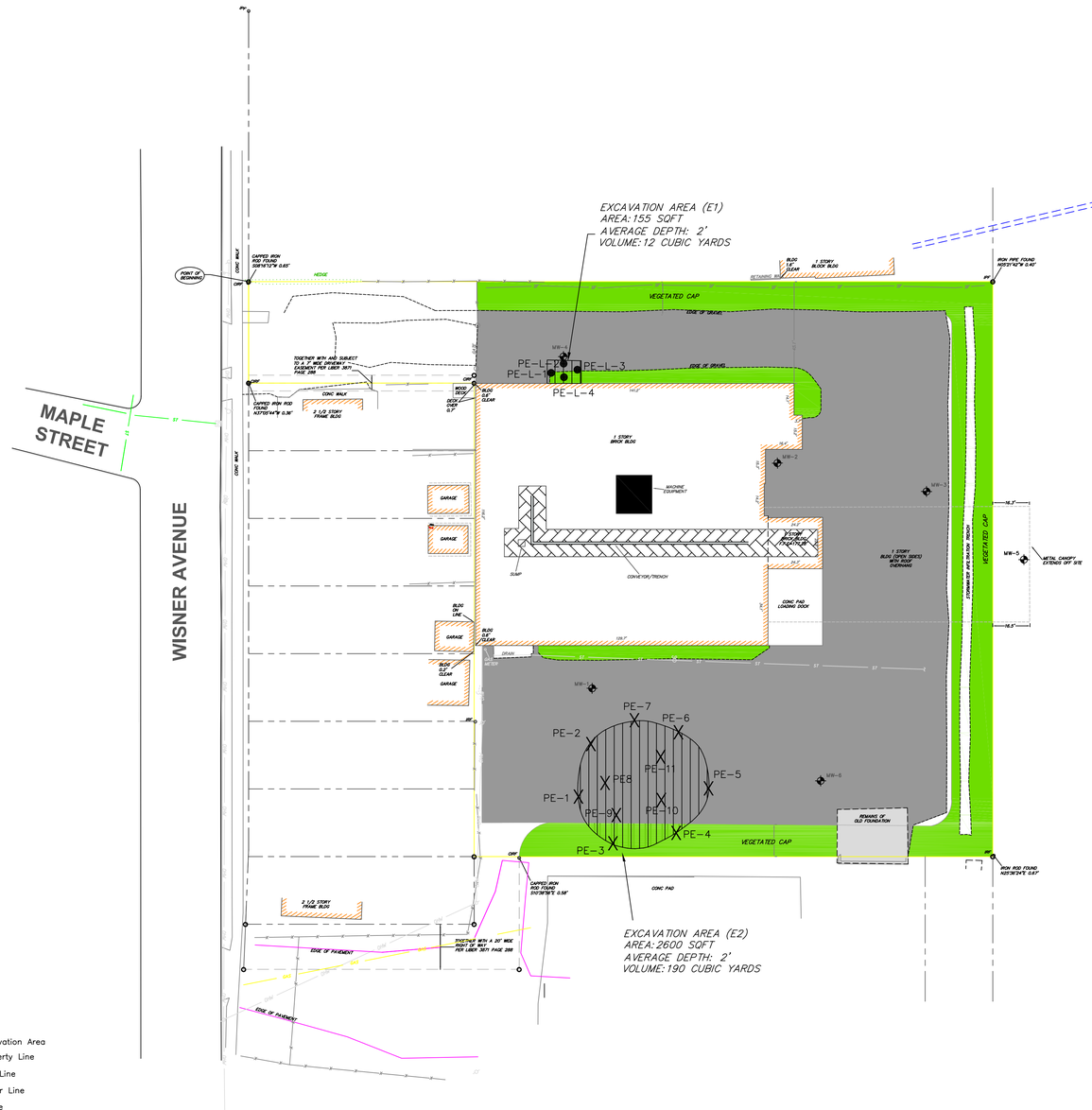
Professional Engineer State of New York

JONAS AUTOMOTIVE
NEWBURGH, NEW YORK
FINAL SITE PLAN

FIGURE	REVISED	CJM	DRAWN	GBF	CHKD.	TCB
2			SCALE	AS SHOWN		
	DATE	8/1/12	DATE	6/29/11	DATE	8/1/12

FIRST ENVIRONMENT
BOONTON NEW JERSEY



LEGEND

- Excavation Area
- Property Line
- Gas Line
- Sewer Line
- Fence
- Drainage Pipe
- Monitoring Wells
- Existing Structures
- Vegetated Cap Area
- Gravel Cap Area

SCALE

0 15 30 60 (FEET)

REFERENCES:
TOPOGRAPHIC & BOUNDARY SURVEY, Drawn By N. Lahens of Ewell W. Finley P.C. Consulting Engineers & Land Surveyors, Dated April 6, 2010, Job Number 2021.

MAGNETIC

LEAD ANALYTICAL DATA

Client ID:	PE-L-1	PE-L-2	PE-L-3	PE-L-4
Sample Depth:	1.0/1.5'	1.0/1.5'	1.0/1.5'	1.0/1.5'
Date Sampled:	10/20/2011	10/20/2011	10/20/2011	10/20/2011
Matrix:	Soil	Soil	Soil	Soil
PARAMETER	Conc	Conc	Conc	Conc
Metals (ppm)	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	4.74	3.27	6.22	3.75
Lead	**87.6**	24.1	**273**	37.9

MERCURY ANALYTICAL DATA

Client ID:	PE-1	PE-2	PE-3	PE-8	PE-9	PE-4
Depth:	1.5/2	1.5/2	1.5/2	1.5/2	1.5/2	1.5/2
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Sampled Date	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11
PARAMETER	Conc	Conc	Conc	Conc	Conc	Conc
Metals	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	**0.182**	0.060	0.090	0.032	0.033	**1.01**

Client ID:	PE-5	PE-10	PE-6	PE-7	PE-11
Depth:	2/2.5	2/2.5	1.5/2	1.5/2	1.5/2
Matrix:	Soil	Soil	Soil	Soil	Soil
Sampled Date	11/3/11	11/3/11	11/3/11	11/3/11	11/3/11
PARAMETER	Conc	Conc	Conc	Conc	Conc
Metals	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	0.035	**0.269**	**0.357**	**0.123**	0.076

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Professional Engineer State of New York

JONAS AUTOMOTIVE
NEWBURGH, NEW YORK
LOCATION OF REMAINING SOIL CONTAMINATION ABOVE UNRESTRICTED LEVELS

FIGURE 3

REVISED	CJM	DRAWN	GBF	CHKD.	TCB
		SCALE	AS SHOWN		
DATE	8/27/12	DATE	6/29/11	DATE	8/27/12

FIRST ENVIRONMENT
BOONTON NEW JERSEY

MAPLE ST.

WISNER AVENUE

(60' WIDE)

TWO & HALF STORY FRAME DWELLING

TWO & HALF STORY FRAME DWELLING

ONE STORY BLOCK BUILDING

ONE STORY BRICK BUILDING

NO PROPOSED DISTURBANCE

3.5' WIDE DRIVEWAY EASEMENT

AREA WHERE FINAL GRADES MATCH EXISTING

REMOVED SHED AND SLAB

SHED

AREA REQUIRED ~1.5 FEET OF 2.5-INCH CLEAN CRUSHED STONE UNDER 1-FOOT CAP

GRAVEL CAP (SEE CAP DETAIL)

METAL CANOPY EXTENDS OFF SITE

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

4" PVC

LOADING DOCK

INV = 173.25

TRANSITION AREA WHERE FINAL GRADES AT BUILDING ENTRANCES MATCH EXISTING, AND RISE AT 5% MAX. TO REACH NEW FINAL GRADE TO THE SOUTH & EAST

PIPE

BIT

GARAGE

GARAGE

FENCE

FENCE

ONE STORY BLOCK BUILDING

REMOVED STRUCTURE (SLAB REMAINS)

CONCRETE SLAB

TWO & HALF STORY FRAME DWELLING

BIT PAVEMENT

GAS LINE

GATE

SVO

210.00'

175

180

183

LEGEND

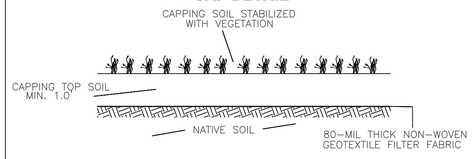
- Property Line
- Gas Line
- Sewer Line
- Fence
- Drainage Pipe
- MW-1 Monitoring Wells to be Preserved during to Remediation
- Gas Manhole
- Existing Structures
- Vegetated Cap Area (Approximately 0.220 Acres)
- Gravel Cap Area (Approximately 0.707 Acres)

SCALE

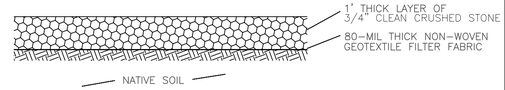
0 20 10 (FEET) 40

REFERENCES:
TOPOGRAPHIC & BOUNDARY SURVEY, Drawn By N. Lahens of Ewell W. Finley P.C. Consulting Engineers & Land Surveyors, Dated April 6, 2010, Job Number 2021.

SOIL/VEGETATED CAP DETAIL



GRAVEL CAP DETAIL



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JONAS AUTOMOTIVE

NEWBURGH, NEW YORK

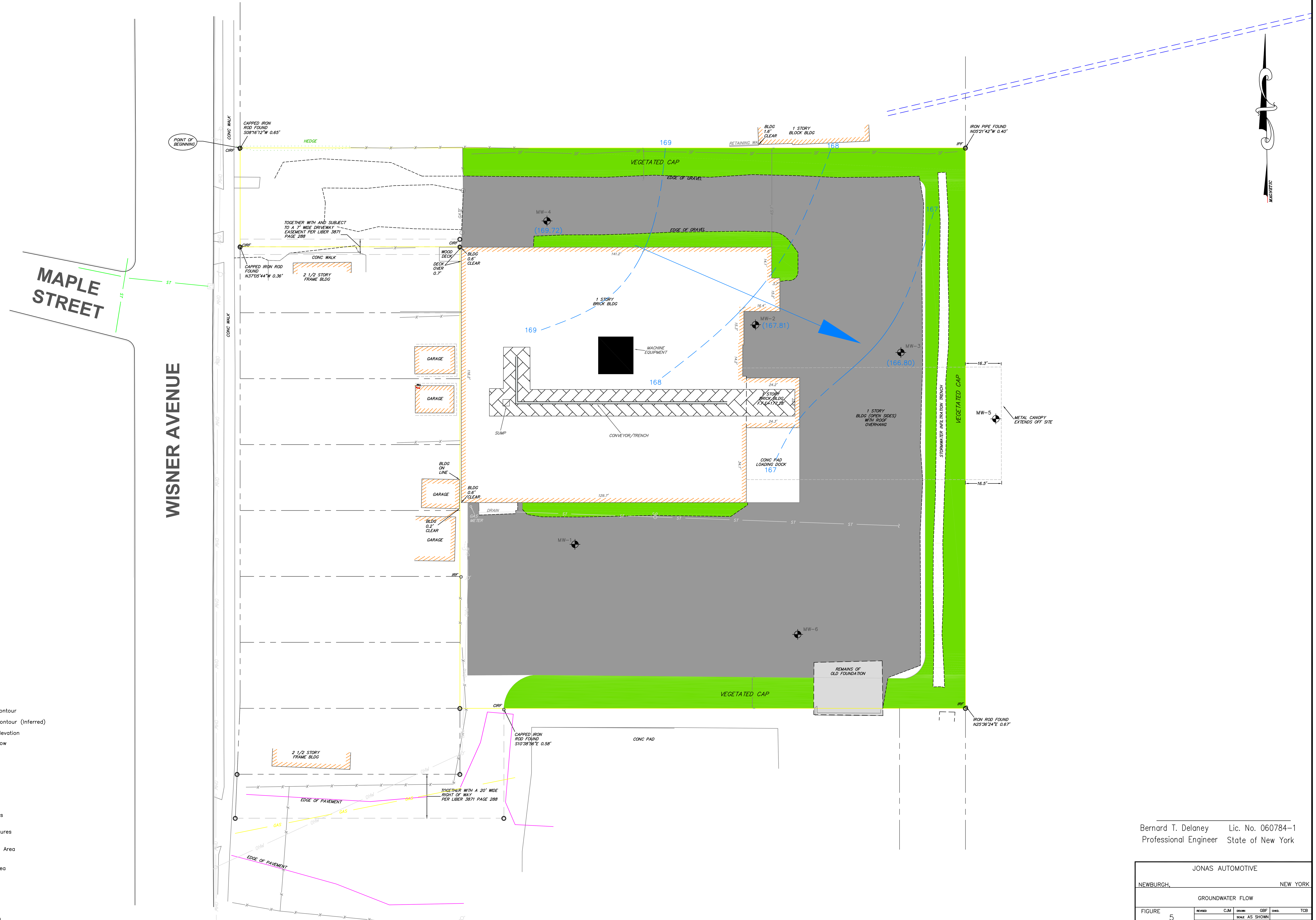
SITE WIDE COVER SYSTEM PLAN

FIGURE 4

MODIFIED	NAM	DRAWN	GBF	CHKD.	TCB
		SCALE	AS SHOWN		
DATE	8/27/2012	DATE	6/29/11	DATE	8/27/2012

FIRST ENVIRONMENT

BOONTON NEW JERSEY



LEGEND

(solid blue line)	Groundwater Contour
(dashed blue line)	Groundwater Contour (Inferred)
(167.81)	Groundwater Elevation
(blue arrow)	Direction of Flow
(black line)	Property Line
GAS	Gas Line
ST	Sewer Line
(x line)	Fence
(double dashed line)	Drainage Pipe
(well symbol)	Monitoring Wells
(hatched box)	Existing Structures
(green box)	Vegetated Cap Area
(grey box)	Gravel Cap Area

SCALE

0 10 20 40 (FEET)

REFERENCES:
TOPOGRAPHIC & BOUNDARY SURVEY, Drawn By N. Lahens of Ewell W. Finley P.C. Consulting Engineers & Land Surveyors, Dated April 6, 2010, Job Number 2021.

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Professional Engineer — State of New York

JONAS AUTOMOTIVE
NEWBURGH, NEW YORK

GROUNDWATER FLOW

FIGURE 5	REVISED CJM	DRAWN GBF	CHKD. TCB
		SCALE AS SHOWN	
	DATE 8/27/12	DATE 6/29/11	DATE 8/1/12

FIRST ENVIRONMENT
BOONTON, NEW JERSEY

APPENDIX A

SITE-WIDE INSPECTION FORM

FORMER JONAS AUTOMOTIVE SITE
ORANGE COUNTY
NEWBURGH, NEW YORK
NYSDEC SITE NUMBER B00136-3

NAME OF INSPECTOR: Kenneth Farah, Jr., E.I.T.

COMPANY OF INSPECTOR: First Environment, Inc.

DATE OF INSPECTION: April 26, 2017

CURRENT USE OF SITE: Un-occupied

HAS A CHANGE OF USE OCCURRED SINCE THE LAST CERTIFICATION?
_____ **YES** __X__ **NO**

IF YES, THEN EXPLAIN: _____

GENERAL DESCRIPTION OF COVER: Gravel cap cover predominately over 75+% of Site; site boundary has vegetated cap cover with silt fencing at boundary line.

HAS THE COVER BEEN PENETRATED? _____ **YES** __X__ **NO**

IF YES, THEN EXPLAIN: _____

ARE ANY OF THE MONITORING WELLS DAMAGED? _____ **YES** __X__ **NO**

IF YES, THEN EXPLAIN: _____

HAVE ANY GROUNDWATER USE RESTRICTION BEEN EXCEEDED? X YES ___ NO

IF YES, THEN EXPLAIN: Groundwater monitoring was not conducted as part of this review. Groundwater did exceed NYS AWQS as of 9/6/2002.

HAVE ANY STRUCTURES BEEN CONSTRUCTED ON THE SITE SINCE THE LAST INSPECTION? _____ YES ___X___ NO

IF YES, THEN EXPLAIN: _____

HAVE COVER CONDITIONS CHANGED SINCE THE LAST INSPECTION? _____ YES ___X___ NO

IF YES, THEN EXPLAIN: _____

IS ANY MAINTENANCE OF THE COVER REQUIRED? _____ YES ___X___ NO

IF YES, THEN EXPLAIN: _____

ADDITIONAL OBSERVATIONS, CONCLUSIONS OR RECCOMMENDATIONS:

Silt fencing has collasped in sections along north and eastern boundaries. Though not the cap cover, it is recommended to be fixed.

ANY CHANGES TO THE SITE OR REQUIRED MAINTENANCE SHOULD BE MARKED IN THE CORRESPONDING LOCATION ON THE ATTACHED MAP