PERIODIC REVIEW REPORT

FORMER ALUMAX EXTRUSIONS, INC. FACILITY
320 AND 440 SOUTH ROBERTS ROAD, DUNKIRK NEW YORK

VCP SITE NUMBER V00589

Prepared for:

Chautauqua County Department of Public Facilities
454 North Work Street
Falconer, New York

Prepared by:

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2010.0128.05

August 2012

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1.0 INTRODUCTION

The Chautauqua County Department of Public Facilities retained TVGA Consultants (TVGA) to evaluate current conditions at the Former Alumax Extrusions, Inc. Facility in Dunkirk, New York and prepare this Periodic Review Report for the property. This work is being completed to meet the annual reporting requirements identified in the June 2004 Combined Institution Control Plan and Operations and Maintenance Plan and the November 2004 Deed Restrictions under the New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP). The NYSDEC VCP site number is V00589.

1.1 Background

The project site consists of two adjoining parcels located at 440 and 320 South Roberts Road, Parcels A and B respectively, within the City of Dunkirk, New York (Figure 1). The project site is comprised of approximately 12 acres of land situated on the north side of South Roberts Road. Parcel A, located at 440 South Roberts Road and owned by the Cliffstar Corporation, contains an approximately 7,200-square-foot building currently used as office space while the remainder of the property consists of gravel covered parking areas used for truck trailer storage. Parcel B, located at 320 South Roberts Road and owned by Chautauqua County, formerly contained a 140,000-square-foot building that was demolished in early 2009 while the concrete floor slabs were left in place. Parcel B is currently vacant and undeveloped. These parcels are identified in the November 2004 Deed Restriction (Appendix A) and are depicted on Figure 2. Figure 2 also identifies section, block and lot (SBL) numbers for these parcels.

Industrial development of the project site was initiated around 1920, when the American Locomotive Company expanded its Dunkirk operations onto the project site. The site use has varied over time and uses have included a foundry, coal storage, locomotive manufacturing and finned heat exchanger fabrication. In 1976, the facility was acquired by Alumax Inc. (Alumax), which operated an aluminum extrusion business at the site until 1993, operating as Alumax Extrusions, Inc. Alcoa's acquisition of Alumax in 1998 included the idled Dunkirk facility. The property was subsequently purchased by Chautauqua County in 2008.

Environmental investigation conducted at the site revealed that contamination, likely associated with historical operations, had impacted the property, necessitating remedial activities. Constituents of potential concern (COPCs) identified in site soil/fill consist primarily of chlorinated hydrocarbons (specifically trichloroethene (TCE) and its degradation products), Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and metals. A residual source area containing concentrations of TCE and its degradation

products was identified in the northwestern portion of the site. Figure 7 from the April 2004 VCP Interim Remedial Measures (IRM) Completion Report depicts the approximate areal extent of this residual source area. This source area has impacted site groundwater in this area. With the exception of the chlorinated hydrocarbons, groundwater has not shown impacts from COPCs identified in the soil/fill.

Subsequent remedial activities conducted at the site included in-situ chemical treatment using zero valent iron (ZVI) in the residual source area (December 2004), removal and off-site disposal of sediments within two on-site catch basins (mid-2000) and installation of a sub-slab vapor (SSV) mitigation system (December 2003). The remedial efforts also included the development of deed restrictions and the June 2004 Combined Institution Control Plan and Operations and Maintenance Plan (CICP/OMP) which provides guidance concerning the surface cover, soil/fill excavation and management, groundwater use and routine monitoring for the groundwater within the residual source area.

Additionally, as indicated above the 140,000-square foot building formerly located on Parcel B was demolished in early 2009. TVGA, prepared the contract documents and specifications for the demolition project. The project was publicly bid by the Chautauqua County Department of Public Facilities (CCDPF) Procurement Department. Cambria Contracting, Inc. of Lockport New York, as the low bidder was awarded the work. Construction observation was provided by TVGA on behalf of the CCDPF. Prior to the demolition the ACMs within the former on-site building were abated in accordance with the requirements outlined in 12 NYCRR Part 56 or New York State Department of Labor (NYSDOL) Industrial Code Rule 56 (ICR 56). The abatement work was completed between November and December 2008. Following the asbestos abatement the demolition of the building occurred, which took place between January and February 2009.

2.0 PERIODIC REVIEW

TVGA conducted the annual Periodic Review in July 2012 to document that the CICP/OMP requirements are being met. This Annual Periodic Review is discussed in the sections below. The following sections summarize existing site conditions, the Institutional Controls and Engineering Controls developed for the site, and the current status of these controls. Additionally, the following sections summarize the results of the required media monitoring for the site. Appendix B includes photographs taken during the Site Inspection and Appendix C includes the NYSDEC "Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form."

2.1 Existing Site Conditions

On July 19, 2012, Ms. Jessica Gostomski conducted the annual site inspection, which included observation of current conditions throughout site. Parcel A contains an approximately 7,200-square-foot building currently used as office space while the remainder of the property consists of gravel covered parking areas used for truck trailer storage. Parcel B is currently vacant and undeveloped. As previously discussed, the on-site building for Parcel B was demolished in early 2009 while the concrete floor slabs were left in place. Additionally, approximately 3,000 cubic yards of asphalt millings and gravel sub-base material generated from the Progress Drive reconstruction project in 2011 is being stored on the northwestern portion of the former Alumax building footprint. Chautauqua County intends to utilize the stockpiled millings and gravel in the construction of the Millennium Parkway, which will extend from South Roberts Road across the former Alumax site to the western terminus of the reconstructed Progress Drive. The NYSDEC was notified of this use in an April 12, 2011 Change of Use Notification letter which is included in Appendix D. No other visible changes were observed on the site.

2.2 Institutional Controls

2.2.1 Site Use Restrictions

In accordance with the deed restrictions and the CICP/OMP, the site is to be used for restricted commercial or restricted industrial uses only. The CICP/OMP presents the following definitions for these use categories:

- Restricted Commercial – Residential Uses are not allowed under this category. Commercial uses are allowed but require engineering controls and/or institutional controls. Some types of "commercial" uses that could create "residential" types of exposures are excluded, such as day-care and health care facilities. Retail stores, warehouse/distribution centers, service facilities and offices would be included in the commercial definition.

- Restricted Industrial – Residential and commercial uses are not allowed. Industrial uses are allowed but they require engineering controls and/or institutional controls. Metal working, manufacturing and other industrial uses are included in this category.

The Cliffstar Corporation operates the building in the northwest corner of Parcel A as office space with the remained of the property used for tractor trailer parking; therefore, this use meets the definition of Restricted Commercial use. Parcel B is currently vacant and undeveloped; however, a new roadway that will

provide improved tuck access in the area is proposed to be developed on the site. This road is currently undergoing design approval with the appropriate state and federal agencies and, if constructed, the road will traverse the site from the southwest to the northeast. The required surface cover system requirements listed in the CICP/OMP will be incorporated into the road design.

2.2.2 Groundwater Use Restrictions

Previous investigations conducted at the site and adjacent sites have determined that groundwater resources are limited, particularly within the uppermost groundwater-bearing zone at the site. Groundwater is not generally used in the vicinity of the site, nor would it be expected to be used in the future, given the industrial character of the area and the availability of municipal water supply in the area. The clayey soils and shale bedrock have low hydraulic conductivity and produce limited quantities of water. The most productive zone is the top five feet of the shale bedrock, which is fractured and weathered. This zone is also considered to be perched and may be laterally limited. Groundwater in the north-central portion of the site (i.e., residual source area) is impacted with chlorinated hydrocarbons. Low concentrations of petroleum related constituents were encountered in other wells. The residual source area was addressed via in-situ treatment technology; however, low-level impacts to groundwater may linger due to the low conductivity and the potential dissolution of chlorinated constituents adsorbed to the clayey soils. Therefore, groundwater use restrictions were implemented at the site to limit potential exposure to impacted groundwater and are identified in the deed restrictions recorded with property deed.

Although groundwater use is not prohibited, it is restricted. Should a future owner or operator determine that groundwater use is beneficial to their operations, permission from NYSDEC must be obtained. Additionally, the owner or operator must conduct an evaluation of the suitability for the potential use of the groundwater and define the ultimate point of discharge (e.g., sanitary sewer, surface water, or reinjection) for any once-through water or blowdown from any recirculation system(s). Use of groundwater may require appropriate treatment to meet water quality requirements for use and discharge. Groundwater extracted for testing, monitoring, and remediation, while excluded from the provisions of this groundwater use restriction, must still meet local, state and federal disposal requirements.

2.2.3 Soils Management Plan

The Soils Management Plan (SMP) was prepared to identify environmental guidelines for the management of subsurface soil/fill and long-term

maintenance of the cover system. The SMP includes requirements that address the following key components:

- Any breach of the surface cover system
- Surface erosion and storm water runoff control
- Management of excavated soil/fill
- Allowable reuse of excavated soil/fill
- Requirements for off-site fill and grading materials
- Notification requirements
- Annual reporting and certification requirements

Since no redevelopment has taken place since the completion of remedial activities, the cover system has not yet been installed. Additionally, no soil excavations have occurred on the property since the completion of remedial activities.

2.2.4 Groundwater Monitoring

Groundwater monitoring is required for evaluating the efficacy of ZVI application in the residual source area that was completed in December 2004. This monitoring consists of sampling and analysis of groundwater collected from monitoring wells AL-1, AL-2 and AL-7. Figure 2 depicts the locations of the sampled monitoring wells. The samples are analyzed for USEPA Target Compound List (TCL) volatile organic compounds (VOCs). Annual groundwater monitoring is performed in conjunction with the annual review of the institutional control plan. In accordance with the CICP/OMP, this annual monitoring will occur until total concentrations of chlorinated VOCs fall below 100 µg/L in AL-1 and AL-7. The collection of samples from these wells in 2011 revealed that total VOC concentrations in these wells exceeded the 100 ug/L concentration threshold. Therefore, groundwater samples were collected during the reporting period and the results, which are compared with pre-remedial analytical results, are summarized in the following section.

Sampling Procedure

The three groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the July 15, 2003 IRM Workplan and the October 6 and 24, 2003 addendums. All monitoring well sampling activities were recorded on groundwater sampling logs, which are included in Appendix E. Other observations (e.g., well integrity, etc.) were also noted on the well sampling logs. Prior to the initiation of groundwater sampling, groundwater levels were measured with an electronic water level indicator to determine the

static water level below the top of the riser. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of three well volumes or, in the case of wells with slow recharge rates, until the well was evacuated to dryness using dedicated polyethylene bailers. After the completion of development, the monitoring wells were allowed to recharge. The samples were collected within three hours of completion of well development using dedicated bailers and clean sample bottles containing preservatives provided by the laboratory. The groundwater samples were submitted for analysis of TCL VOCs.

Sample Preservation and Handling

Immediately after collection, all samples were placed in a cooler and chilled with ice. To ensure sample integrity, a Chain-of-Custody (COC) sample record was established and kept with the samples to document each person that handled the samples. The samples were transported to Upstate Laboratories Inc. (ULI), which is a New York State Department of Health Environmental Laboratory Approval Program (ELAP) certified environmental laboratory, for analytical testing. The COC records established for the collected samples were maintained throughout laboratory handling. Copies of the COCs and complete analytical laboratory report are included as Appendix F.

Quality Assurance/Quality Control Samples

In addition to field samples, Quality Assurance/Quality Control (QA/QC) samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. The QA/QC sample included blind field duplicate (collected from AL-7) and trip blank samples that were analyzed for TCL VOCs.

Analytical Results

The following section summarizes and discusses the analytical results generated during the aforementioned monitoring event. For discussion purposes, this data is compared with the Standards Criteria and Guidance values (SCGs) applicable to groundwater: NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1.

One or more VOCs were detected in each of the samples above the SCGs. The VOCs detected in the monitoring wells primarily consisted of chlorinated solvents. Additionally, BTEX compounds (benzene, toluene, ethybenzene and

xylenes) were detected at generally lower concentrations than the solvents. Also, cyclohexane and methylcyclohexane were detected in one or more of the wells.

Table 1 summarizes the groundwater pre- and post-remedial sampling results and compares the results to the applicable water quality standards. Figure 2 depict the locations of the monitoring wells as well as the pre- and post-remedial analytical results. The concentrations of chlorinated solvents have continued to decline in each of the three wells since the remedial activities. While the concentrations of chlorinated solvents remain above the 100 µg/L threshold, they were significantly lower than the pre-remedial concentrations and continue decline. Also, while slightly above the 2011 concentrations, BTEX compounds continue to remain below pre-remedial highs. The concentrations of cyclohexane and methylcyclohexane which have been previously detected in these wells showed slight increases from historical concentrations.

A comparison of the results from AL-7 with the blind field duplicate indicates that the data generally coincide (i.e. all concentrations for the dupe was within 1.5 times of the detected concentrations of the original sample).

Figure 3 depicts the groundwater contours for project area. As depicted on this figure groundwater flow is generally to the north / northwest. However, based on a review of this figure, flow conditions in the vicinity of these wells is generally to the southwest which is similar to hydrologic conditions identified in Section 1.6 CICP/OMP which indicated a localized flow to the southwest. As stated in this section, the water levels in these wells are likely unreliable due to the influence of building foundations and subsurface utilities. It should be noted that foundations and utilities were not removed during the building demolitions; therefore, flow conditions in this area would still be considered unreliable. Based on the fact that flow conditions have not significantly changed since the implementation remedial program, it is unlikely that impacts affecting the remedial effectiveness of the groundwater remedial action have occurred.

Summary and Conclusions

TVGA evaluated the present groundwater quality and the efficacy of the groundwater treatment at the Former Alumax Extrusions, Inc. Facility. The evaluation involved the collection and analysis of three groundwater samples and a comparison of the analytical results to pre-remedial results and groundwater standards. The following conclusions are based on the findings of this monitoring event:

- The comparison of the pre- and post-remedial groundwater analytical results showed significant decreases in VOC concentrations in AL-1 and AL-7

- While total VOC concentrations in AL-2 were generally stagnant, chlorinated solvent concentrations continue to decline.
- The IRMs that included the injection of zero valent iron appear to be effective in reducing chlorinated solvents contaminant concentrations in on-site groundwater.
- The IRM Work Plan states that the remedial goal of the site is for the total concentrations of chlorinated VOCs in AL-1 and AL-7 is 100 µg/L or less. This remedial goal has not yet been attained. Once the clean-up standard is attained, NYSDEC will be notified and permission to abandon all site monitoring wells will be requested.
- Based on the fact that flow conditions have not significantly changed since the implementation remedial program, it is unlikely that impacts affecting the remedial effectiveness of the groundwater remedial action have occurred.

The next post-remedial groundwater sampling event is scheduled for July 2013.

2.3 Engineering Controls

2.3.1 Surface Cover System

The long history of industrial use of the site has resulted in widespread, low level impacts to site-wide soils. To limit casual exposure to site soils, a soil surface cover system consisting of clean soil, pavement, and/or concrete will be constructed as the site. The purpose of the surface cover system will be to eliminate the potential for human contact with fill material and eliminate the potential for contaminated runoff from the property. The cover system will consist of one or more of the following types of clean material:

- Soil: 12 inches of vegetated soil cover underlain by a demarcation layer in outdoor vegetated areas.
- Asphalt: a minimum of six inches of material (asphalt and subbase material) in areas that will become roads, sidewalks, and parking lots.
- Concrete: a minimum of 6 inches of material (concrete and subbase material) in areas that will become slab-on-grade structures or for roads, sidewalks, and parking lots in lieu of asphalt.

2.3.2 Sub-Slab Vapor Mitigation

The former building that occupied the site contained a sub-slab venting system that was located over the residual source area. As previously indicated the building, including the sub slab vapor venting system, was demolished in early 2009. Therefore, the continued maintenance and operation of this vent system is no longer required.

For slab-on-grade structures, an 8-mil polyethylene vapor barrier will be placed beneath the concrete for new structures built in the portion of the site identified as the residual source area. The vapor barrier requirement is not required in areas other than the residual source area because volatile organic compounds were not found in significant quantities on any other portions of the site.

3.0 CONCLUSIONS & RECOMMENDATIONS

At the time of the site inspection, the Former Alumax Extrusions, Inc. Facility was in compliance with the CICP/OMP.

4.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance generally accepted professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.), as cited herein, was used in the assessment of the site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, TVGA is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available within the limits of the existing data, scope of services, budget, and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically TVGA's intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action except where explicitly stated as such. TVGA makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not to be construed as legal advice.

This assessment and report have been completed and prepared on behalf of and for the exclusive use of Chautauqua County. Any reliance on this report by a third party is at such party's sole risk. Furthermore, nothing contained in this report shall be construed as a warranty or affirmation by TVGA that the subject property described in this report are suitable collateral for any loan or that acquisition of such property by any lender through foreclosure proceedings or otherwise will pose no risk of potential environmental liability on the part of such lender.

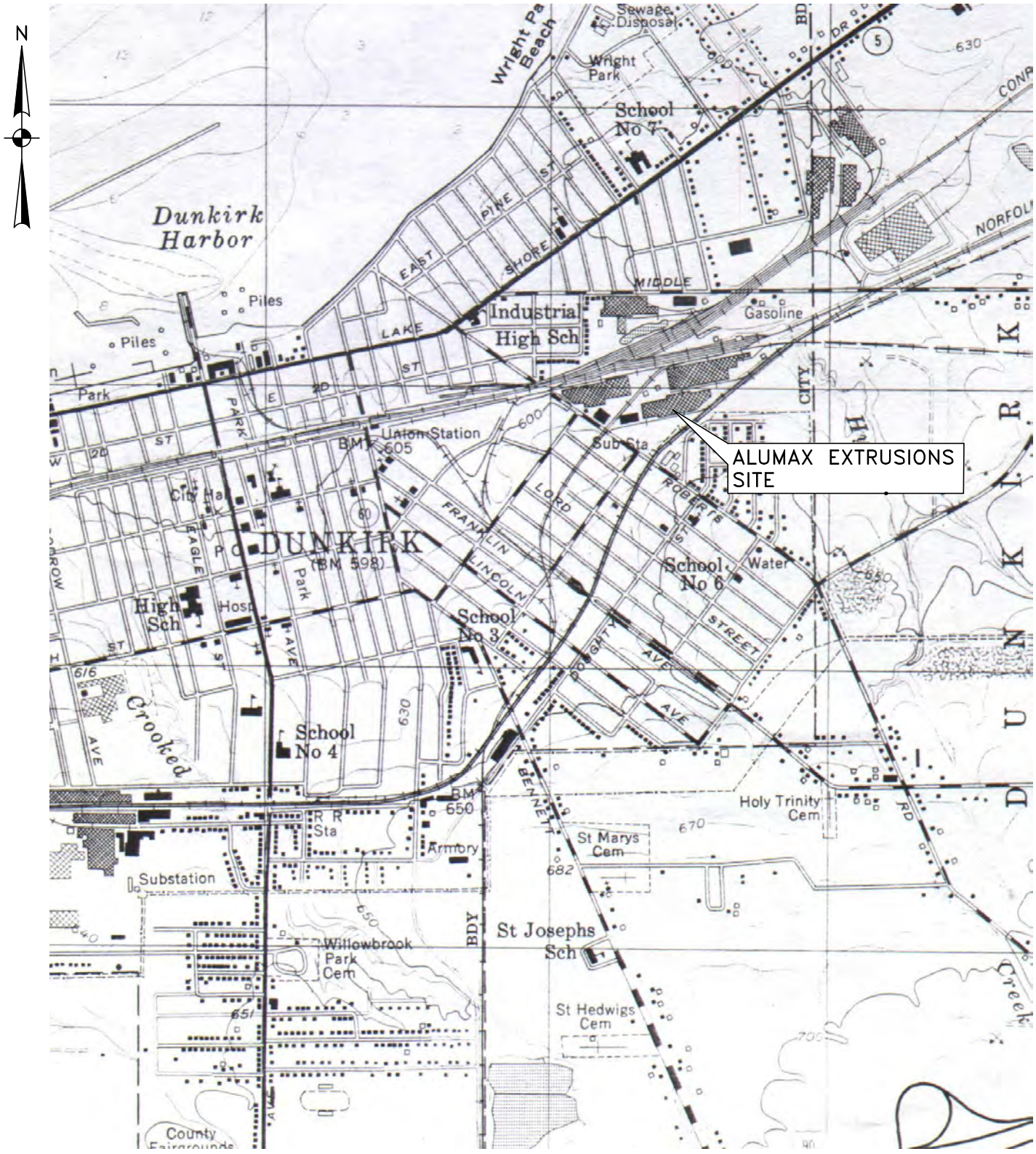
TABLES

Table 1
Former Alumax Extrusions Site
Summary of Analytical Results
Groundwater Samples

PARAMETER	REGULATORY VALUE [1]	AL-1					AL-2					AL-7			
Collection Date		5/31/00	1/16/03	2/10/09	2/22/2011	7/19/2012	5/31/00	1/16/03	2/10/09	2/22/2011	7/19/2012	2/25/04	2/10/09	2/22/2011	7/19/2012
		Pre-Remedial Results		Post-Remedial Results			Pre-Remedial Results		Post-Remedial Results			Pre-Remedial Results	Post-Remedial Results		
Volatile Organic Compounds (ug/L)															
1,1-Dichloroethene	5		73			9.3									4.2
cis-1,2-Dichloroethene	5	1,500	9,400	1,280	1,140	1,000			9.36	6.94	2.3	1,100	600	473	300
trans-1,2-Dichloroethene	5		39			3.9									1.9
Benzene	1		38	9.77	17.1	17		12	6.1	16.1	13				
Cyclohexane	5		64			180		2			34				14
Ethylbenzene	5		6			2.5		4							
Isopropylbenzene	5					5.9									
Methylcyclohexane	5		41			120									27
Toluene	5		43			2.2									
m,p-Xylene	5					4.5									
o-Xylene	5					7.9									
Total Xylenes	5		13			12.4						29			
Trichloroethene	5	2,400	4,600	118	197	100						3,000	154	138	55
Vinyl chloride	2	240	740	977	825	460			3.7			160	331	271	190
BTEX Compounds	-	0	87	10	17	34	0	16	6	16	13	0	0	0	0
Total VOCs	-	4,140	15,057	2,385	2,179	1,913	0	18	19	23	49	4,289	1,085	882	592

Notes:
1. Regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater).
2. Guidance value was used when standard was not available.
3. (-) = No regulatory value is associated with this compound.
4. Shaded values represent exceedances of the regulatory value.
5. ug/L = micrograms per Liter (equivalent to parts per billion (ppb)).
6. Only compounds with one or more detections are shown.
7. Blank spaces indicate that the analyte was not detected.
8. "NA" = parameter was not analyzed

FIGURES



SITE LOCATION MAP

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FORMER ALUMAX EXTRUSIONS SITE
DUNKIRK, CHAUTAUQUA CO., N.Y.

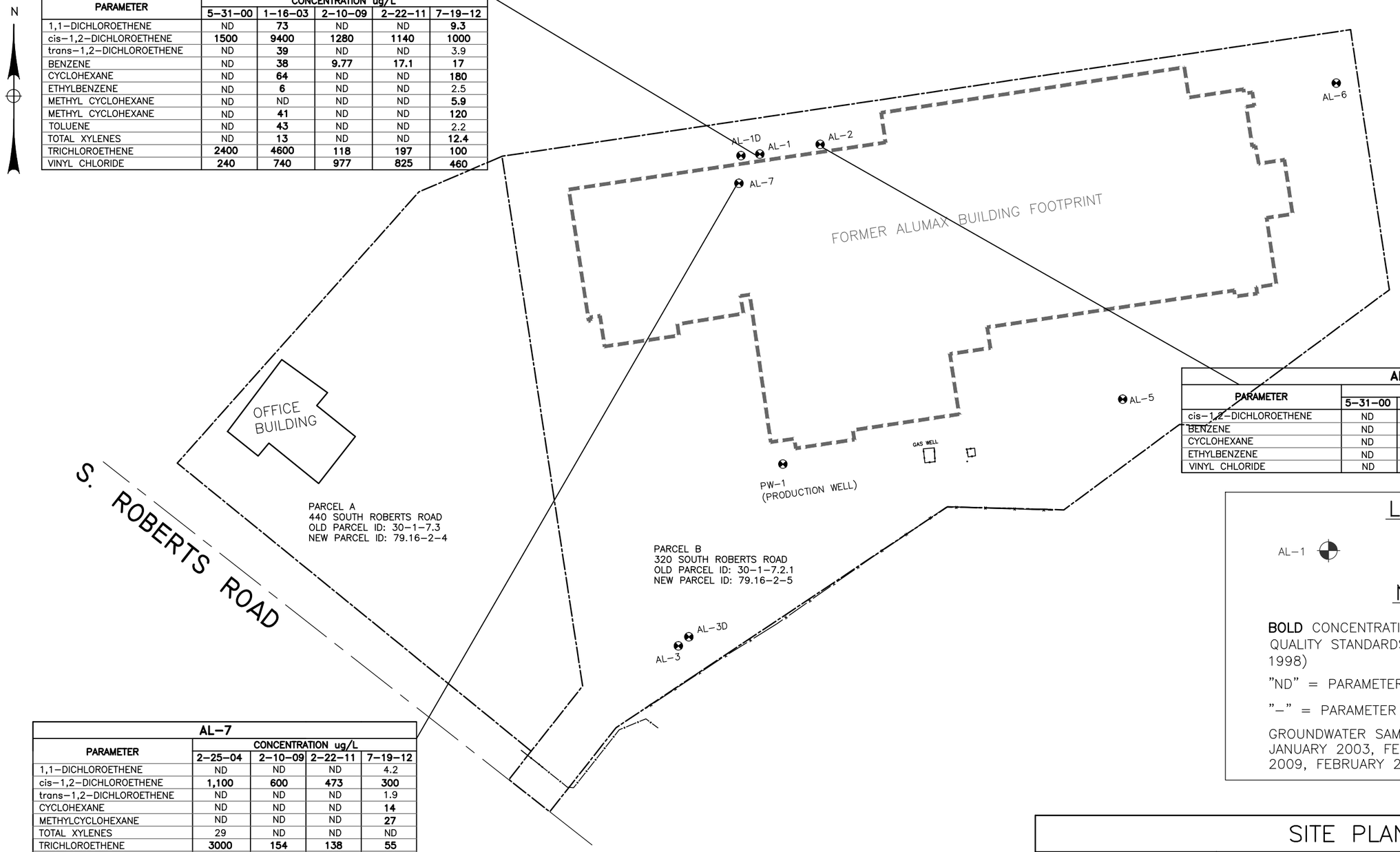
PROJ. NO. 2010.0128.05	SCALE: 1" = 2000'	DATE: AUGUST 2012	FIGURE NO. 1

File: N:\2010 Projects\2010.0128.05 Alumax 2012 Reporting\4 - Technical Data\CADD Drawings\FIGURE 1 ALUMAX LOCATION MAP.dwg, Plot Date: 8/28/2012, By: BENKLEMAN ANDREW T., Plot Style: FULL-BLACK.CTB

AL-1					
PARAMETER	CONCENTRATION ug/L				
	5-31-00	1-16-03	2-10-09	2-22-11	7-19-12
1,1-DICHLOROETHENE	ND	**73**	ND	ND	**9.3**
cis-1,2-DICHLOROETHENE	**1500**	**9400**	**1280**	**1140**	**1000**
trans-1,2-DICHLOROETHENE	ND	**39**	ND	ND	3.9
BENZENE	ND	**38**	**9.77**	**17.1**	**17**
CYCLOHEXANE	ND	**64**	ND	ND	**180**
ETHYLBENZENE	ND	**6**	ND	ND	2.5
METHYL CYCLOHEXANE	ND	ND	ND	ND	**5.9**
METHYL CYCLOHEXANE	ND	**41**	ND	ND	**120**
TOLUENE	ND	**43**	ND	ND	2.2
TOTAL XYLENES	ND	**13**	ND	ND	**12.4**
TRICHLOROETHENE	**2400**	**4600**	**118**	**197**	**100**
VINYL CHLORIDE	**240**	**740**	**977**	**825**	**460**

AL-2					
PARAMETER	CONCENTRATION ug/L				
	5-31-00	1-16-03	2-10-09	2-22-11	7-19-12
cis-1,2-DICHLOROETHENE	ND	ND	**9.36**	**6.94**	2.3
BENZENE	ND	**12**	**6.1**	**16.1**	**13**
CYCLOHEXANE	ND	2	ND	ND	**34**
ETHYLBENZENE	ND	4	ND	ND	ND
VINYL CHLORIDE	ND	ND	**3.7**	ND	ND

AL-7				
PARAMETER	CONCENTRATION ug/L			
	2-25-04	2-10-09	2-22-11	7-19-12
1,1-DICHLOROETHENE	ND	ND	ND	4.2
cis-1,2-DICHLOROETHENE	**1,100**	**600**	**473**	**300**
trans-1,2-DICHLOROETHENE	ND	ND	ND	1.9
CYCLOHEXANE	ND	ND	ND	**14**
METHYLCYCLOHEXANE	ND	ND	ND	**27**
TOTAL XYLENES	29	ND	ND	ND
TRICHLOROETHENE	**3000**	**154**	**138**	**55**
VINYL CHLORIDE	**160**	**331**	**271**	**190**



LEGEND

AL-1 ⊕ INTERFACE GROUNDWATER MONITORING WELL

NOTES

BOLD CONCENTRATIONS EXCEED THE WATER QUALITY STANDARDS LISTED IN TOGS 1.1.1(JUNE 1998)

"ND" = PARAMETER WAS BELOW DETECTION LIMIT

"-" = PARAMETER WAS NOT ANALYZED

GROUNDWATER SAMPLING WAS PERFORMED JANUARY 2003, FEBRUARY, 2004, FEBRUARY 2009, FEBRUARY 2011 AND JULY 2012.

SITE PLAN

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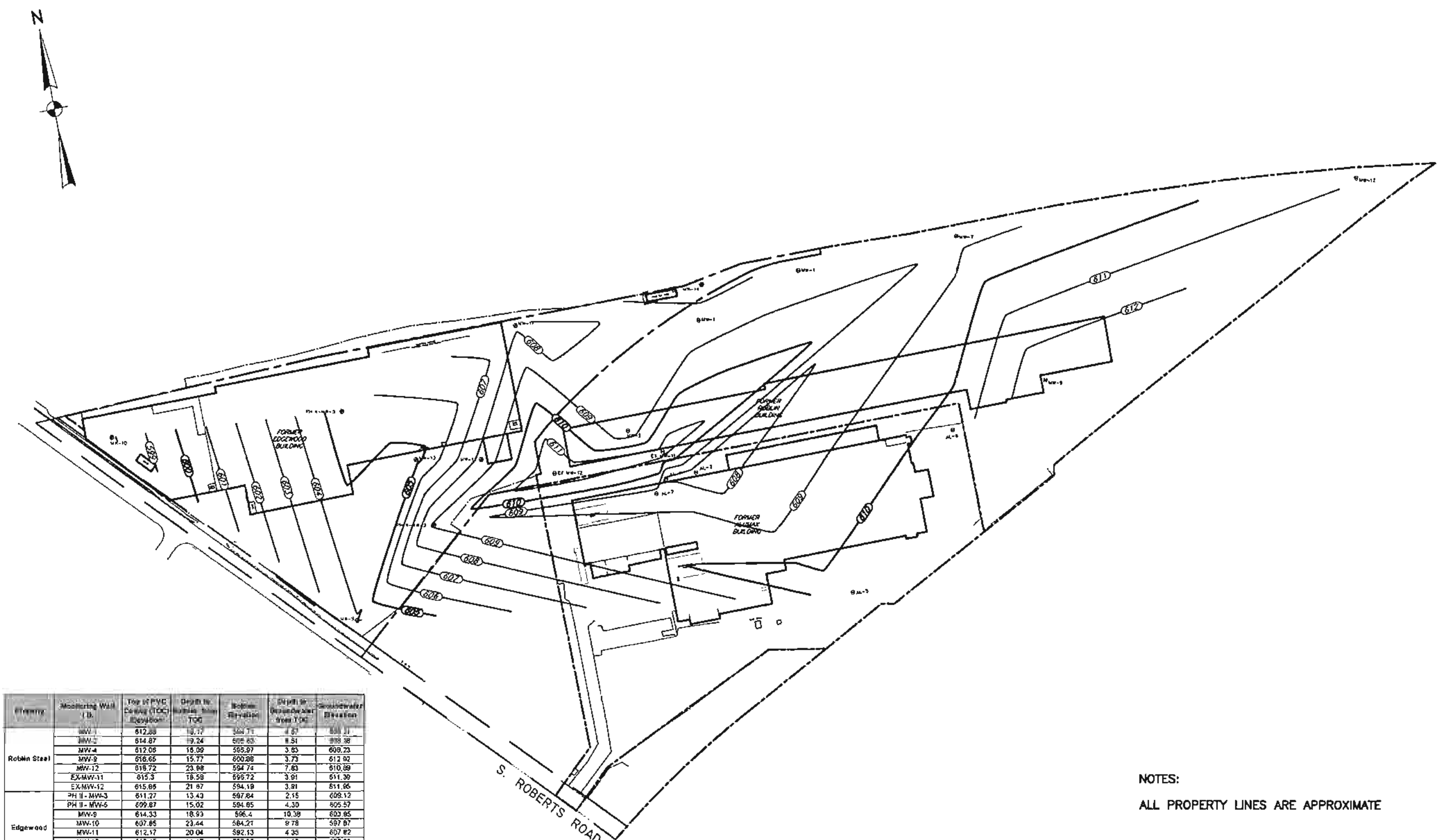
DUNKIRK, CHAUTAUQUA CO., N.Y.

PROJ. NO. 2010.0128.05 | SCALE: 1" = 100' | DATE: AUGUST 2012 | FIGURE NO. 2



Property	Monitoring Well I.D.	Top of PVC Casing (TOC) Elevation	Depth to Bottom from TOC	Bottom Elevation	Depth to Groundwater from TOC	Groundwater Elevation
Roblin Steel	MW-1	612.88	18.17	594.71	4.57	608.31
	MW-2	614.87	19.24	595.63	6.51	608.36
	MW-4	612.06	16.09	595.97	3.83	608.23
	MW-9	616.65	15.77	600.88	3.73	612.92
	MW-12	618.72	23.98	594.74	7.83	610.89
	EX-MW-11	615.3	18.58	596.72	3.91	611.39
	EX-MW-12	615.86	21.67	594.19	3.91	611.95
Edgewood	PH II - MW-3	611.27	13.43	597.84	2.15	609.12
	PH II - MW-5	609.87	15.02	594.85	4.30	605.57
	MW-9	614.33	18.93	595.4	10.38	603.95
	MW-10	607.65	23.44	584.21	9.78	597.87
	MW-11	612.17	20.04	592.13	4.35	607.82
	MW-12	612.45	14.47	597.98	4.12	608.33
	MW-13	612.46	16.51	595.95	7.76	604.70
	MW-14	612.96	15.40	597.56	3.12	609.84
Alumax	AL-1	614.99	19.86	595.13	7.15	607.84
	AL-2	615.33	19.91	595.42	7.87	607.46
	AL-5	615.6	19.25	596.35	5.02	610.58
	AL-6	614.78	19.41	595.37	4.38	610.40
	AL-7	611.27	11.28	599.99	2.63	608.64

Notes:
1. All measurements [illegible] in feet.
2. TOC = Top of PVC casing
3. Elevations are based on [illegible] datum of [illegible] obtained from the [illegible] of a fire hydrant located [illegible] corner of Talbot Street and South Roberts Road
4. Groundwater measurements recorded on February 11, 2009
5. [illegible]

200' 100' 0 200'
SCALE: 1" = 200'

NOTES:

ALL PROPERTY LINES ARE APPROXIMATE

LEGEND

MW-11	MONITORING WELL
— — —	APPROXIMATE PROPERTY LINE
— · —	FENCE

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NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY, DRAWING, DESIGN, SPECIFICATION, PLAN OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

TVGA CONSULTANTS
620 MAIN STREET
BUFFALO, NEW YORK 14202-1906
P. 716.849.8739
F. 716.856.0981
www.tvga.com

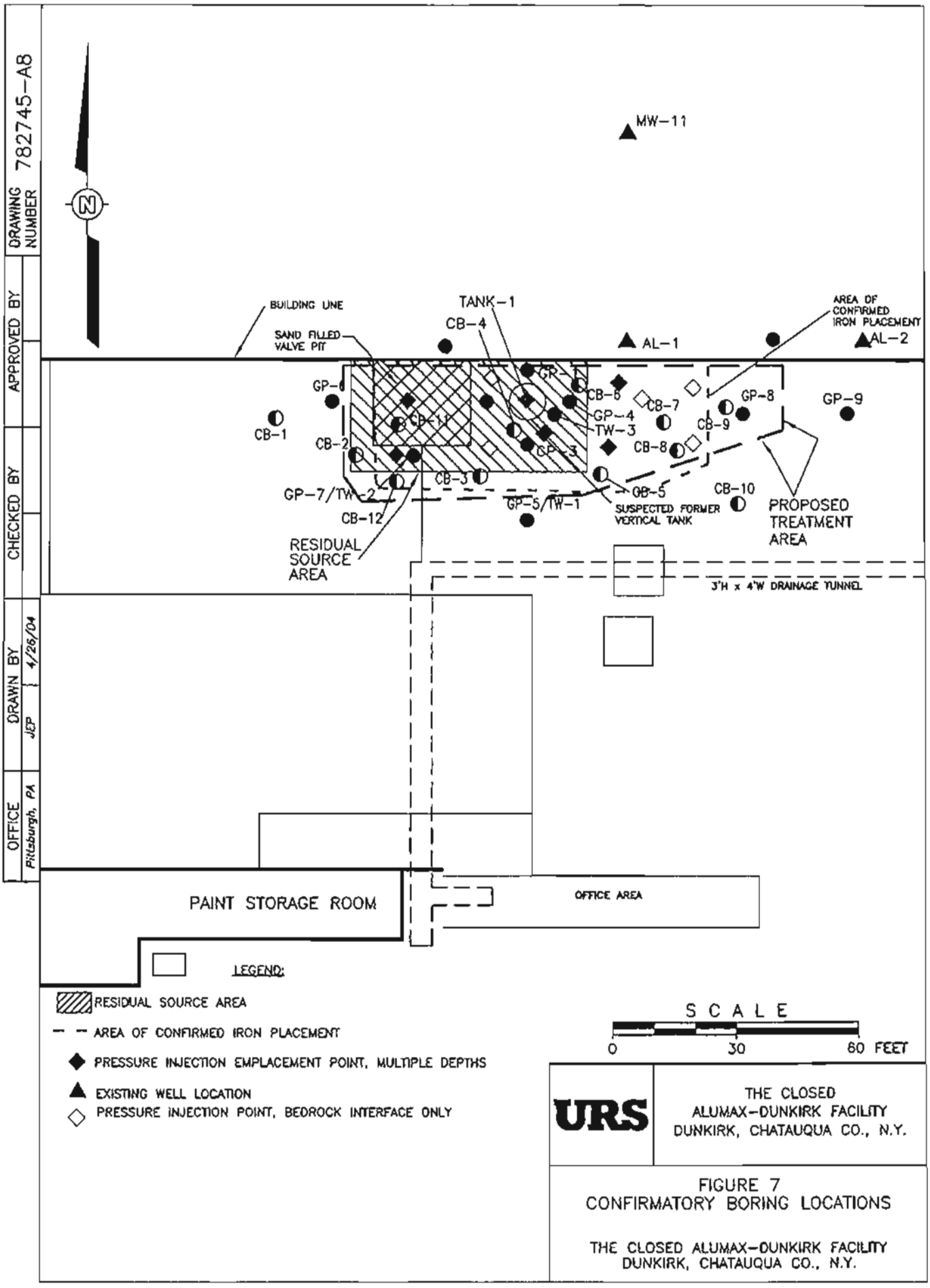
Designed by: TSD	Date: AUGUST 2011
Drawn by: TSD	Job No. 2008.0009.00
Checked by: SJR	Drawing File No.
Dwg Scale: Horiz: 1" = 200' Vert:	File Name: DWG\CADD\COMBINED\COMBINED SITE

CITY OF DUNKIRK NEW YORK

GROUNDWATER CONTOUR MAP

SHEET REFERENCE NUMBER:

FIGURE 3


DRAWING NUMBER 782745-A8
APPROVED BY
CHECKED BY
DRAWN BY JEP 4/26/04
OFFICE Pittsburgh, PA
MW-11
BUILDING LINE
SAND FILLED VALVE PIT
TANK-1
CB-4
AL-1
AREA OF CONFIRMED IRON PLACEMENT
AL-2
GP-6
CB-1
CB-2
CB-11
GP-1
GP-2
GP-3
GP-4
TW-3
CB-6
CB-7
CB-8
CB-9
GP-8
GP-9
CB-3
GP-7/TW-2
CB-12
GP-5/TW-1
GB-5
SUSPECTED FORMER VERTICAL TANK
CB-10
PROPOSED TREATMENT AREA
RESIDUAL SOURCE AREA
3'H x 4'W DRAINAGE TUNNEL
PAINT STORAGE ROOM
OFFICE AREA
LEGEND:
RESIDUAL SOURCE AREA
AREA OF CONFIRMED IRON PLACEMENT
PRESSURE INJECTION EMPLACEMENT POINT, MULTIPLE DEPTHS
EXISTING WELL LOCATION
PRESSURE INJECTION POINT, BEDROCK INTERFACE ONLY
SCALE
0
30
60 FEET
URS
THE CLOSED ALUMAX-DUNKIRK FACILITY
DUNKIRK, CHATAUQUA CO., N.Y.
FIGURE 7
CONFIRMATORY BORING LOCATIONS
THE CLOSED ALUMAX-DUNKIRK FACILITY
DUNKIRK, CHATAUQUA CO., N.Y.

APPENDIX A

NOVEMBER 2004 DEED RESTRICTIONS / PROPERTY INFORMATION

Chautauqua County Clerk

Return To:

PUBLIC ABSTRACT CORPORATION
DEFAULT SERVICES
31 E MAIN ST 3RD FL
ROCHESTER NY 14614

Index DEED BOOK

Book 02560 Page 0509

No. Pages 0007

Instrument DECLAR-DEEDS

Date : 11/22/2004

Time : 2:20:53

Control # 200411220133

INST# DE 2004 007426

ALCOA INC

NEW YORK STATE DEPARTMENT OF E
NVIRONMENTAL CONSERV ATION

Employee ID LORENZOT

COUNTY	$	27.00
	$	.00
ST ED DEPT	$	4.75
	$	.00
	$	.00
	$	.00
	$	.00
CEA	$	14.25
	$	.00
Total:	$	46.00

STATE OF NEW YORK
Chautauqua County Clerk

WARNING: THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT, REQUIRED BY SECTION 316-a(5) & SECTION 319 OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK. DO NOT DETACH.

Sandra K. Sopak
County Clerk

TRANSFER TAX

CONSIDERATN $ .00

Transfer Tax $ .00

D025600509

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 3rd day of November 2004, by ALCOA INC., a Pennsylvania corporation, as successor in interest to Alumax Inc., a Delaware corporation, whose address is Alcoa Corporate Center, 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858 ("Alcoa").

WHEREAS Alcoa is the subject of Voluntary Agreement Index No. B9-0616-02-06, dated 08 August 2002 (the "Agreement") executed by Robert S. Bear (on behalf of Alcoa) and Susan I. Taluto, Deputy Commissioner – NYSDEC Water Quality and Environmental Remediation as part of the New York State Department of Environmental Conservation's (the "Department's) Voluntary Cleanup Program, namely that parcel of real property located at 320 South Roberts Road in the City of Dunkirk, County of Chautauqua, State of New York, which is part of lands conveyed by:

Warranty Deed made by Alumax Inc. to Alcoa, dated November 3, 2004 and recorded on November 22, 2004 in Liber 2510 of Deeds at page 505;

and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, Alcoa, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof, and consists of:

PARCEL A

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING on the centerline of Roberts Road at the point located 601.13

feet northwesterly along said centerline from the northerly line of lands of the Norfolk and Western Railroad, (former New York, Chicago and St. Louis Railroad); thence north 40° 28' east (assumed bearing) a distance of 396.0 feet to a point; thence north 81° 31' east a distance of 95.9 feet to a point; thence south 8° 39' east a distance of 514.37 feet to an iron pin; thence south 38° 16' west a distance of 114.28 feet to said centerline of Roberts Road; thence north 51° 44' west a distance of 456.6 feet along said centerline to the point or place of beginning.

PARCEL B

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING in the center line of the existing 30.3 foot pavement in Roberts Road at a point located 94.53 feet northwesterly along said centerline from the northwesterly line of lands of the New York, Chicago & St. Louis Railroad Company; thence north 51° 44' west along said centerline a distance of 50 feet to a point on line of lands now or formerly of Plymouth Tube Company; thence north 38° 16' east a distance of 114.28 feet to an iron pin and passing through an iron pin located 33 feet northeasterly along the last described course from the centerline of Roberts Road; thence north 8° 39' west a distance of 514.37 feet to an iron pin on point of lands now or formerly of Roblin Industries, Inc.; thence continuing along line of lands of Roblin Industries, north 81° 31' east a distance of 822 feet to an iron pin and south 8° 29' east 251.95 feet to a point on line of lands now or formerly of said Railroad Company; thence south 53° 33' west 219.15 feet to a monument; thence north 87° 18' west 24.88 feet to a monument; thence south 53° 33' west 137.59 feet to an iron pin; thence north 88° 30' west 111.6 feet to an iron pin; thence south 56° 19' 32" west 381.7 feet to a monument; thence south 38° 16' west, 102.49 feet to the point or place of beginning, and passing through an iron pin located 33 feet northeasterly along the last described course from the place of beginning.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, there shall be no construction, use or occupancy; disturbance or excavation of the Property that is inconsistent with the approved "Combined Institutional Control Plan and Operations and Maintenance Plan – Former Alumax Extrusions Site," Site No. V00589-9 (Combined Plan) and that results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall be responsible to implement the Combined Plan or implementing any modifications to the Combined Plan after obtaining the written approval of the Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for restricted industrial or restricted commercial use without the express written waiver of such prohibition by the Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Sixth, the owner of the Property shall continue in full force and effect the prohibition against uses other than restricted commercial and/or industrial uses, and shall assure that any construction, use, occupancy, disturbance or excavation on the property shall be in conformance with the "Combined Plan" as institutional and engineering controls required under the Agreement, and shall continue to implement and annually report on the status, results and effectiveness of the operation, monitoring and maintenance requirements to the Relevant Agency unless the owner first obtains permission to discontinue to do so.

Seventh, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Relevant Agency of the prohibitions, restrictions and requirements set out in this Covenant, the Agreement, and the Combined Plan, and hereby covenant not to contest the authority of the Relevant Agency to seek enforcement.

Eighth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day first above written.

ALCOA INC.

By: _____ Date: November 3, 2004

Russell W. Porter, Jr.
Vice President

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF ALLEGHENY)

Personally appeared before me, the undersigned authority in and for the said county and state, on this 3rd day of November, 2004, within my jurisdiction, the within named Russell W. Porter, Jr., who acknowledged that he is a Vice President of Alcoa Inc., a Pennsylvania corporation, and that for and on behalf of the said corporation, and as its act and deed, he executed the above and foregoing instrument, after first having been duly authorized by said corporation so to do.

Notary Public

My Commission Expires:

Notarial Seal
Jacqueline L. Murtha, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Jan. 24, 2007
Member, Pennsylvania Association Of Notaries

(SEAL)

APPENDIX "A"

PARCEL A

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING on the centerline of Roberts Road at the point located 601.13 feet northwesterly along said centerline from the northerly line of lands of the Norfolk and Western Railroad, (former New York, Chicago and St. Louis Railroad); thence north 40° 28' east (assumed bearing) a distance of 396.0 feet to a point; thence north 81° 31' east a distance of 95.9 feet to a point; thence south 8° 39' east a distance of 514.37 feet to an iron pin; thence south 38° 16' west a distance of 114.28 feet to said centerline of Roberts Road; thence north 51° 44' west a distance of 456.6 feet along said centerline to the point or place of beginning.

PARCEL B

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

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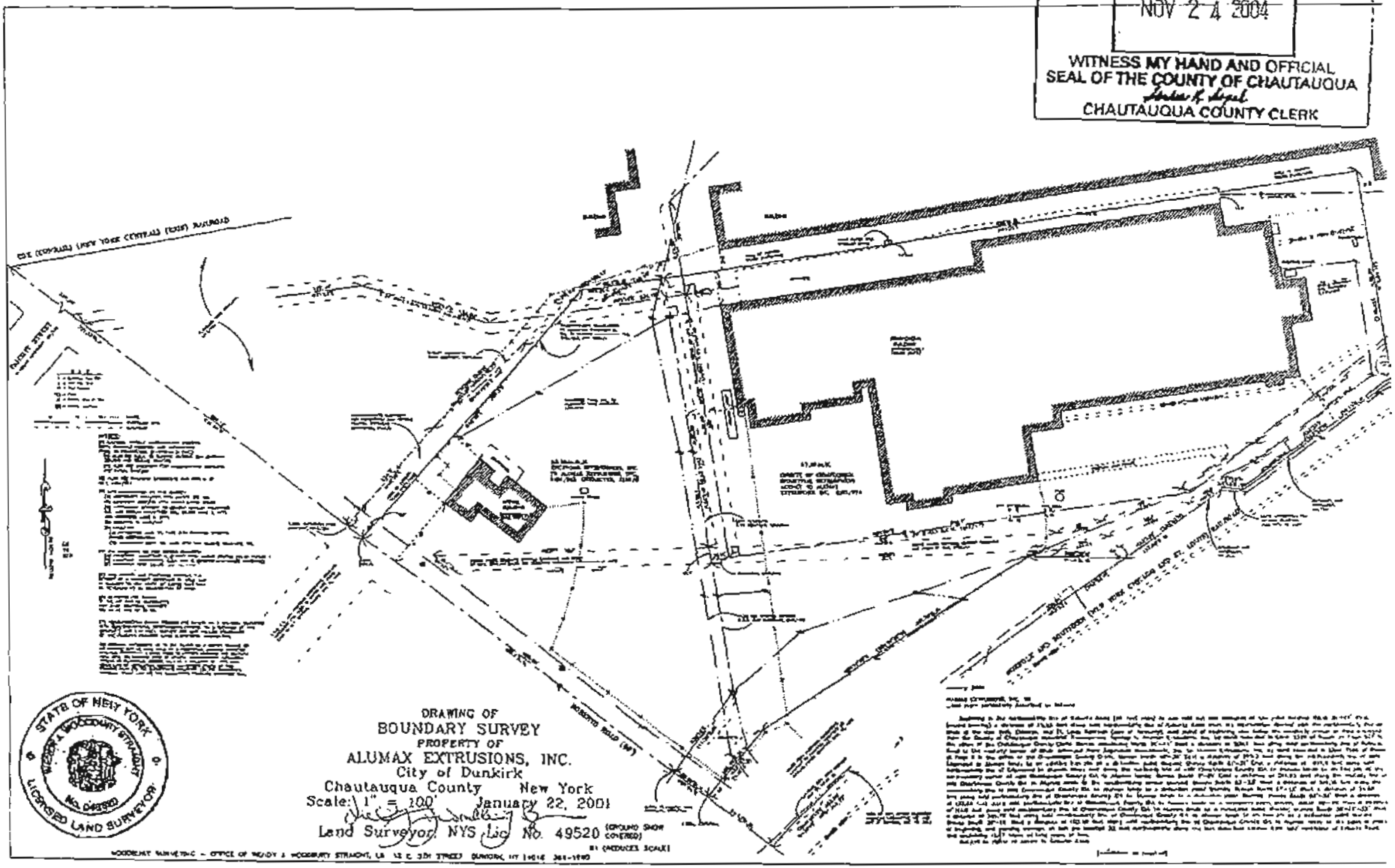
STATE OF NEW YORK, COUNTY OF CHAUTAUQUA, A TRUE COPY OF THE ORIGINAL FILED OR RECORDED IN THIS OFFICE

NOV 24 2004

WITNESS MY HAND AND OFFICIAL SEAL OF THE COUNTY OF CHAUTAUQUA

CHAUTAUQUA COUNTY CLERK



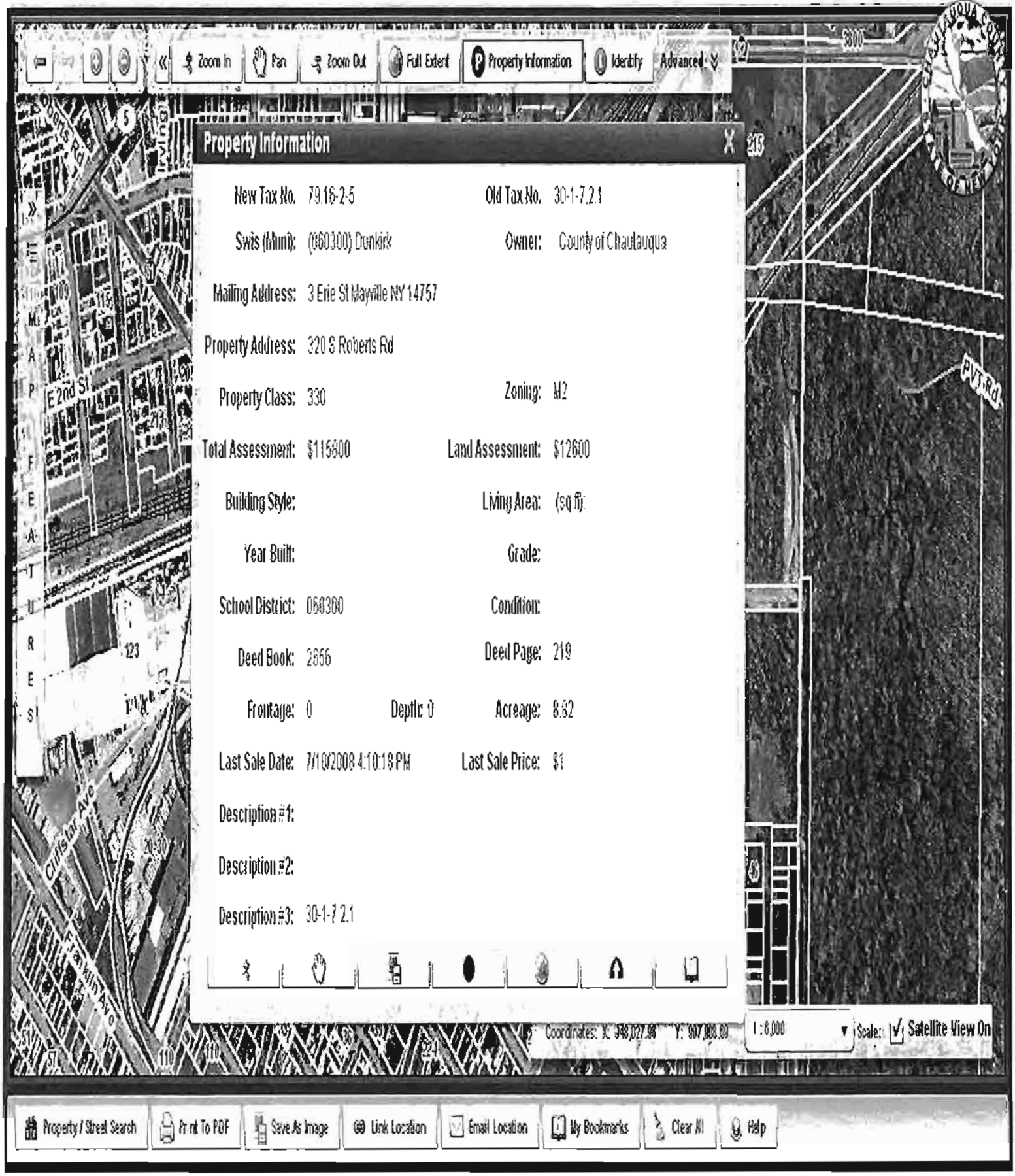
DRAWING OF
BOUNDARY SURVEY
PROPERTY OF
ALUMAX EXTRUSIONS, INC.
City of Dunkirk
Chautauqua County New York
Scale: 1" = 100' January 22, 2001

Land Surveyor, NYS Lic. No. 49520 (GROUND SHOW COVERED)

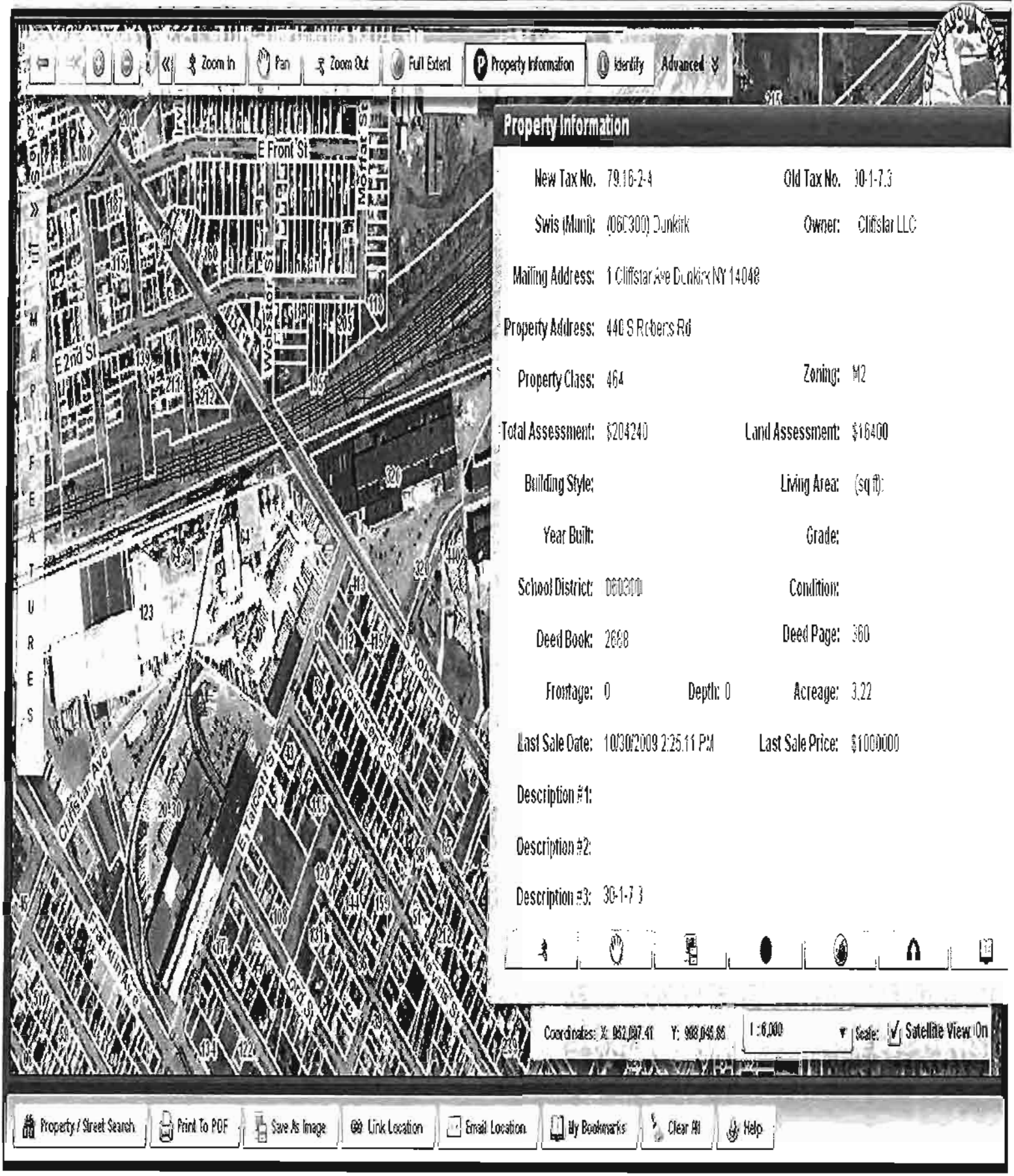
STATE OF NEW YORK
WESLEY J. HOOSBURY STRAIGHT
No. 049520
LICENSED LAND SURVEYOR

HOOSBURY SURVEYING - OFFICE OF WESLEY J. HOOSBURY STRAIGHT, LS 12 E. 3RD STREET DUNKIRK, NY 14048 366-1990

Chautauqua County, NEW YORK Web Mapping



Chautauqua County, NEW YORK Web Mapping



Online Assessment Roll System

Created By: PROSERVE

City of Dunkirk, NY

OARS Main Page

- Click to go to GIS map
- Photo of property is available, click to view.

Improvements
Exemptions
Tax Bill

**** Commercial Property ****

PROPERTY INFORMATION

Current Owner Name	CLIFFSTAR LLC	**Section, Block Lot #**	79.16-2-4
Property Address	440 ROBERTS RD	**Neighborhood Code**	200
Town Name	Dunkirk	**School District**	60300
Total Assessed Value (85.44% of Market Value)	$204,240	**Swiss Code**	060300
		Parcel Status	Active
Full Market Value	$239,000	**County Taxable**	$204,240
Land Assessed Value	$16,400	**Town Taxable**	$204,240
Property Type	464 - Office bldg.	**School Taxable**	$204,240
Lot Size	Acres: 3.22 Front: 0 Depth: 0	**Village Taxable**	$0
Mailing Address 1	1 CLIFFSTAR AVE	**Tax Code**	
Mailing Address 2		**Bank Code**	
Mailing City, State	DUNKIRK, NY		
Mailing Zip Code	14048		

PHYSICAL INFORMATION

# of Bedrooms	0
# of Baths	0
# of Fireplaces	0
# of Kitchens	0

HISTORICAL SALE INFORMATION

Owner History	Deed Book	Deed Page	Sale Date	Valid Sale	Sale Price
CLIFFSTAR LLC	2705	426	8/17/2010	NO	$1
Cliffstar Corporation,	2688	360	10/30/2009	NO	$1,000,000
Star Wine LLC,	2587	453	11/16/2005	YES	$400,000

COMMERCIAL INFORMATION

Property Class	464 - Office bldg.
Building Sq. Footage	5,902
Assessment Per Sq. Foot	$34.61

Property Use	**USED AS**	**RENTABLE SQ. FT.**
	E03 - Profssnl off	5,902
	F04 - Cold storage	5,902

Site No.	1	**Actual Year Built**	1990
Bldg No.	1	**Effective Year Built**	0

Site No.	1	**Rent Type**	-
Use No.	1	**Lease Begin**	
Used As	E03 - Profssnl off	**Lease Length**	0 yrs
Acres	3.22	**Total Eff / 1 Bed Sq. Ft.**	
Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	5,902	**Total 2 Bedroom Sq. Ft.**	
Unit Code	-	**Number Of 2 Bed Units**	
Total Number Of Units		**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

Site No.	1	**Rent Type**	-
Use No.	2	**Lease Begin**	
Used As	F04 - Cold storage	**Lease Length**	0 yrs
Acres	3.22	**Total Eff / 1 Bed Sq. Ft.**	
Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	5,902	**Total 2 Bedroom Sq. Ft.**	
Unit Code	-	**Number Of 2 Bed Units**	
Total Number Of Units		**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

Created By:

PROSERVE

Online Assessment Roll System

City of Dunkirk, NY

OARS Main Page

- Click to go to GIS map
- Photo of property is available, click to view.

Improvements
Exemptions
Tax Bill

**** Commercial Property ****

PROPERTY INFORMATION

Current Owner Name COUNTY OF CHAUTAUQUA
Property Address 320 ROBERTS RD
Town Name Dunkirk
Total Assessed Value $115,800
(85.44% of Market Value)
Full Market Value $135,500
Land Assessed Value $12,600
Property Type 330 - Vacant comm
Lot Size Acres: 8.82 Front: 0 Depth: 0
Mailing Address 1 3 ERIE ST
Mailing Address 2
Mailing City, State MAYVILLE, NY
Mailing Zip Code 14757

Section, Block Lot # 79.16-2-5
Neighborhood Code 200
School District 60300
Swiss Code 060300
Parcel Status Active
County Taxable $0
Town Taxable $0
School Taxable $0
Village Taxable $0
Tax Code
Bank Code

PHYSICAL INFORMATION

# of Bedrooms 0
# of Baths 0
# of Fireplaces 0
# of Kitchens 0

HISTORICAL SALE INFORMATION

Owner History	Deed Book	Deed Page	Sale Date	Valid Sale	Sale Price
COUNTY OF CHAUTAUQUA	2656	219	7/10/2008	NO	$1
Alcoa, Inc.,	2560	505	11/3/2004	YES	$700,000

COMMERCIAL INFORMATION

Property Class 330 - Vacant comm
Building Sq. Footage
Assessment Per Sq. Foot $0.00

Property Use	USED AS	RENTABLE SQ. FT.
	F09 - Light mfg	153,993

Site No. 1
Use No. 1
Used As F09 - Light mfg
Acres 8.82

Rent Type -
Lease Begin
Lease Length 0 yrs
Total Eff / 1 Bed Sq. Ft.

Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	153,993	**Total 2 Bedroom Sq. Ft.**	
Unit Code	10 - Bays	**Number Of 2 Bed Units**	
Total Number Of Units	12	**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

APPENDIX B

PHOTOGRAPHS

Photograph 1: Northwest corner of 79.16-2-5 property facing south

Photograph 2: Southern portion of 79.16-2-5 property facing north.

Photograph 3: Southeast corner of 79.16-2-5 property facing northwest

Photograph 4: Northern edge of 79.16-2-5 property facing southwest

Photograph 5: 79.16-2-4 property facing northeast from South Roberts Road

Photograph 6: Northern portion of 79.16-2-4 property facing north

APPENDIX C

SITE MANAGEMENT PERIODIC REVIEW REPORT NOTICE – INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00589

Site Name Closed Alumax Extrusions, Inc. Facility

Site Address: 320 South Roberts Road Zip Code: 14048-
City/Town: Dunkirk (C)
County: Chautauqua
Site Acreage: 12.0

Reporting Period: August 02, 2011 to August 02, 2012

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. V00589 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
~~30-1-7.2.1~~ 79.16-2-5	Chautauqua County	Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan Soil Management Plan
~~30-1-7.3~~ 79.16-2-4	Cliffstar Corp.	Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan Soil Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
~~30-1-7.2.1~~ 79.16-2-5	Cover System Vapor Mitigation
~~30-1-7.3~~ 79.16-2-4	Cover System Vapor Mitigation

Engineering Control Details for Site No. V00589

Parcel: ~~30-1-7.2.1~~ 79.16-2-5

Combined Institutional Control Plan/ Operations and Maintenance Plan (6/23/~~2003~~ 2004) and Deed Restriction (filed ~~12/3/2004~~ 11/3/2004):

1) Landuse Restiction: Restricted Industrial or Restricted Commercial.
2) Ground water use restriction.
3) Soils Management Plan.
4) Surface Cover System.
5) Ground water monitoring.
6) Sub-Slab venting system. (NOT APPLICABLE, BUILDING DEMOLISHED 2009)

Parcel: ~~30-1-7.3~~ 79.16-2-4

Combined Institutional Control Plan/ Operations and Maintenance Plan (6/23/~~2003~~ 2004) and Deed Restriction (filed ~~12/3/2004~~ 11/3/2004):

1) Landuse Restiction: Restricted Industrial or Restricted Commercial.
2) Ground water use restriction.
3) Soils Management Plan.
4) Surface Cover System.
5) Ground water monitoring.
6) Sub-Slab venting system. (NOT APPLICABLE, LIMITED TO RESIDUAL SOURCE AREA ON PARCEL 79.16-2-5)

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

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

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00589

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James C. Manzella, CHMM at 620 Main Street, Buffalo NY 14202,
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

James C. Manzella 8-28-11
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James C. Manzella, CHMM at 620 Main Street, Buffalo NY 14202,
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
James C. Manzella	—	8-28-12

APPENDIX D

CHANGE OF USE NOTIFICATION LETTER TO NYSDEC: APRIL 12, 2011

TVGA CONSULTANTS
ENGINEERING · LAND SURVEY · ARCHITECTURE · ENVIRONMENTAL
WE DESIGN WITH CONSCIENCE · WE ACT WITH PURPOSE

2006.0006.00
April 12, 2011

New York State Dept. of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Attn: Martin L. Doster, P.E.

Re: Change of Use Notification
Former Alumax Site, 320 S. Roberts Road, Dunkirk, NY
NYSDEC Site No. V00589

Dear Mr. Doster:

This letter has been prepared on behalf of the County of Chautauqua to notify the New York State Department of Environmental Conservation (NYSDEC) of a planned change of use relative to the former Alumax Site referenced above. The County has contracted with Lakeshore Paving to complete the reconstruction of Progress Drive, which is located 2,500-feet to the northeast of the former Alumax site (see Figure 1), and intends to direct the contractor to stockpile asphalt millings and gravel sub-base material generated from the Progress Drive reconstruction project on the Alumax site.

TVGA estimates that approximately 3,000 cubic yards of asphalt millings and gravel sub-base material will be generated from the Progress Drive reconstruction project between April 15, 2011 and the scheduled completion of the project on December 1, 2011. Only asphalt millings and gravel sub-base material generated by the Progress Drive reconstruction project will be stockpiled on the Alumax site. These materials will be transported to the Alumax site via licensed dump trucks and placed on the concrete slab within the former Alumax building footprint. The location and approximate limits of the stockpile are shown on Figure 2.

The County intends to utilize the stockpiled millings and gravel in the construction of the Millennium Parkway, which will extend from South Roberts Road across the former Alumax site to the western terminus of the reconstructed Progress Drive. The reuse of these materials will reduce the consumption of natural resources and energy associated with these highway projects, which are intended to better service existing businesses and spur economic development in the Dunkirk area.

The Millennium Parkway project is scheduled for a 48-month construction duration beginning in 2012. Therefore, the County intends to remove all stockpiled millings and gravel from the Alumax site and incorporate them in the construction of the Millennium Parkway by June 30, 2014. In the event that the Millennium Parkway project is not constructed, the County will remove the stockpiled millings and gravel from the Alumax site.

The asphalt millings to be temporarily stored on the Alumax site will be placed on and restricted to the existing concrete pad located on the site. Furthermore, the Progress Drive reconstruction contract requires the contractor to comply with NYSDEC regulations for the prevention and control of erosion and sedimentation for all off-site stockpiled materials. Methods to be utilized by the contractor include, but are not limited to soil stabilization and silt fence containment. These measures will minimize the interaction of this material with the environment, effectively separate it from existing soil/fill located on the Alumax site and facilitate the straightforward and complete removal of the material from the site. Consequently, the County has determined that the temporary stockpiling of the asphalt millings and gravel sub-base material on the Alumax site will not impact the institutional or engineering controls at the Alumax site, nor will it interfere with the groundwater monitoring well network on the site.

Should you have any questions or comments concerning this notification, please do not hesitate to contact the undersigned.

Very truly yours,

TVGA CONSULTANTS

Robert R. Napieralski, C.P.G.
Principal
RRN/jmo

cc: John Bremmer, CCDPF

N:\2006.0006.00-Millennium Parkway\Engineering\02CorrespTO\02Letters\To NYSDEC\110412_Change of Use Notification

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PROGRESS DRIVE RECONSTRUCTION
CITY OF DUNKIRK
TOWNS OF DUNKIRK AND SHERIDAN
CHAUTAUQUA COUNTY

FIGURE 1

APRIL 13, 2011 - N.T.S.

N

PROPOSED STOCKPILE LOCATION

FORMER ALUMAX PROPERTY BOUNDARY

APPROXIMATE LIMITS OF REMAINING CONCRETE PAD ON FORMER ALUMAX SITE

FUTURE MILLENNIUM PARKWAY

S. ROBERTS ROAD / COUNTY ROUTE-81

0 50 100

SCALE 1:1100 (METERS)

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PROGRESS DRIVE RECONSTRUCTION
CITY OF DUNKIRK
TOWNS OF DUNKIRK AND SHERIDAN
CHAUTAUQUA COUNTY

FIGURE 2

APRIL 13, 2011

File: N:\2006\0006.00-Millennium Parkway\Engineering\CAD\FIGURES\final design report\fig2_OTC.dwg, Plot Date: 4/13/2011, By: O'DONOGHUE, TIMOTHY S., Plot Style: ----

APPENDIX E

GROUNDWATER SAMPLING LOGS

TVGA CONSULTANTS

WELL SAMPLING LOG

WELL ID: **AL-1**

Project Name: Annual Sampling for the Alumax Site
Project Location: South Roberts Road, Dunkirk NY

Project No: **2010.0128.05**
Date: 7/19/2012

Purge Information: [Well Riser=Casing (C); all measurements to TOC] Casing Diameter (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 19.9 Water Level (ft): 8.21 Height of Water Column (ft): 11.69

1 Well Volume [WV] (gal): 1.87 3 Well Volumes (gal): 5.61

Method of Purging: Bailer / Submersible / Peristaltic w/ dedicated tubing / Other:

Purge Field Parameters Purge Start Time: 1130

Volume (gal) / WV	ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-115	8.38	21.21	0.933	47.9	Clear V. Slight sulfer odor
1.87 / 1	-91	8.09	17.83	0.878	206	Turbid V. Slight sulfer odor
2.74 / 2	-59	7.93	20.20	0.891	593	"
/ 3		DRY	@	2.75		

Total *Volume* Purged (gal): 2.75 Purge Complete Time: 1200 [Water Level (ft.): —]

Sampling Information: Date: 7/19/12

Sample Time: 1300 Water Level(ft): — Sample Analysis: **TCL VOCs** No. of Bottles: **2**

Sampling Method: **Bailer-** VOCs ; All // **Peristaltic w/dedicated tubing-** Remainder ; All //
Submersible- Remainder ; All // **Manual grab w/-** S/S Pitcher ; Sample Cont's

Sample Field Parameters

ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-29	7.87	19.66	0.822	130	Turbid

Other Comments:

Sampler's Signature: Jessica Gostomski

TVGA CONSULTANTS

WELL SAMPLING LOG

WELL ID: AL-2

Project Name: Annual Sampling for the Alumax Site
Project Location: South Roberts Road, Dunkirk NY

Project No: **2010.0128.05**
Date: **7 / 19 /2012**

Purge Information: [Well Riser=Casing (C); all measurements to TOC] Casing Diameter (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 19.5 Water Level (ft): 8.37 Height of Water Column (ft): 11.13

1 Well Volume [WV] (gal): 1.78 3 Well Volumes (gal): 5.34

Method of Purging: Bailer / Submersible / Peristaltic w/ dedicated tubing / Other:

Purge Field Parameters Purge Start Time: 1220

Volume (gal) / WV	ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-58	8.11	22.16	0.715	57.3	Clear - Slight sulfur odor
1.78 / 1	-62	7.95	19.5	0.809	89.5	"
2.56 / 2	-166	7.92	19.99	0.795	125	Slightly turbid "
/ 3	DRY @			2.60		

Total Volume Purged (gal): 2.60 Purge Complete Time: 1250 [Water Level (ft.): -]

Sampling Information: Date: 7/19/12

Sample Time: 1315 Water Level(ft): - Sample Analysis: **TCL VOCs** No. of Bottles: **2**

Sampling Method: **Bailer-** VOCs ; All // **Peristaltic w/dedicated tubing-** Remainder ; All //
Submersible- Remainder ; All // **Manual grab w/-** S/S Pitcher ; Sample Cont's

Sample Field Parameters

ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-84	8.05	20.47	0.810	140	Slightly turbid

Other Comments:

Sampler's Signature: Jessica Gostomski

TVGA CONSULTANTS

WELL SAMPLING LOG

WELL ID: AL-7

Project Name: Annual Sampling for the Alumax Site
Project Location: South Roberts Road, Dunkirk NY

Project No: **2010.0128.05**
Date: **7/ 19 /2012**

Purge Information: [Well Riser=Casing (C); all measurements to TOC] Casing Diameter (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 11.3 Water Level (ft): 4.5 Height of Water Column (ft): 6.8

1 Well Volume [WV] (gal): 1.08 3 Well Volumes (gal): 3.26

Method of Purging: Bailer / Submersible / Peristaltic w/ dedicated tubing / Other:

Purge Field Parameters Purge Start Time: 1345

Volume (gal) / WV	ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-94	8.59	19.20	0.229	47.1	Clear
1.08 / 1	-90	8.72	19.27	0.227	31.9	Turbid
/ 2	DRY @		1.1			
/ 3						

Total Volume Purged (gal): 1.1 Purge Complete Time: 1410 [Water Level (ft.): -]

Sampling Information: Date: 7/19/12

Sample Time: 1430 Water Level(ft): - Sample Analysis: **TCL VOCs** No. of Bottles: **2**

Sampling Method: **Baller-** VOCs ; All // **Peristaltic w/dedicated tubing-** Remainder ; All //
Submersible- Remainder ; All // **Manual grab w/-** S/S Pitcher ; Sample Cont's

Sample Field Parameters

ORP/Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
Not Enough volume for field parameters					

Other Comments: well was buried under soil pile - excavator had to remove soil to get to well. Collected Dup here.

Sampler's Signature: Jessica Gostomski

APPENDIX F

CHAIN- OF- CUSTODY/LABORATORY ANALYTICAL RESULTS

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-1
Lab Order:	U1207507	**Collection Date:**	7/19/2012 1:00:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-001	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,1,2-Trichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
1,1-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
1,1-Dichloroethene	9.3	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2,4-Trichlorobenzene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,2-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
1,4-Dioxane	ND	100		µg/L	1	7/26/2012 12:21:00 AM
2-Butanone	ND	10		µg/L	1	7/26/2012 12:21:00 AM
2-Hexanone	ND	10		µg/L	1	7/26/2012 12:21:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2012 12:21:00 AM
Acetone	ND	10		µg/L	1	7/26/2012 12:21:00 AM
Benzene	17	5.0		µg/L	1	7/26/2012 12:21:00 AM
Bromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Bromodichloromethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Bromoform	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Bromomethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Carbon disulfide	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Chlorobenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Chloroethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Chloroform	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Chloromethane	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
cis-1,2-Dichloroethene	1000	50		µg/L	10	7/26/2012 8:57:00 PM
cis-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Cyclohexane	180	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Dibromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Dichlorodifluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-1
Lab Order:	U1207507	**Collection Date:**	7/19/2012 1:00:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-001	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Ethylbenzene	2.5	5.0	J	µg/L	1	7/26/2012 12:21:00 AM
Freon-113	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Isopropylbenzene	5.9	5.0		µg/L	1	7/26/2012 12:21:00 AM
m,p-Xylene	4.5	5.0	J	µg/L	1	7/26/2012 12:21:00 AM
Methyl Acetate	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Methyl tert-butyl ether	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Methylcyclohexane	120	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Methylene chloride	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
n-Butylbenzene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
n-Propylbenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
o-Xylene	7.9	5.0		µg/L	1	7/26/2012 12:21:00 AM
sec-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Styrene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
tert-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 12:21:00 AM
Tetrachloroethene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Toluene	2.2	5.0	J	µg/L	1	7/26/2012 12:21:00 AM
trans-1,2-Dichloroethene	3.9	5.0	J	µg/L	1	7/26/2012 12:21:00 AM
trans-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Trichloroethene	100	5.0		µg/L	1	7/26/2012 12:21:00 AM
Trichlorofluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 12:21:00 AM
Vinyl chloride	460	50		µg/L	10	7/26/2012 8:57:00 PM

NOTES:
The reporting limits were raised due to the high concentration of target compounds.

Approved By: **Date:**

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-2
Lab Order:	U1207507	**Collection Date:**	7/19/2012 1:15:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-002	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,1,2-Trichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
1,1-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2,4-Trichlorobenzene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,2-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
1,4-Dioxane	ND	100		µg/L	1	7/26/2012 1:08:00 AM
2-Butanone	ND	10		µg/L	1	7/26/2012 1:08:00 AM
2-Hexanone	ND	10		µg/L	1	7/26/2012 1:08:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2012 1:08:00 AM
Acetone	ND	10		µg/L	1	7/26/2012 1:08:00 AM
Benzene	13	5.0		µg/L	1	7/26/2012 1:08:00 AM
Bromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Bromodichloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Bromoform	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Bromomethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Carbon disulfide	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Chlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Chloroethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Chloroform	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Chloromethane	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
cis-1,2-Dichloroethene	2.3	5.0	J	µg/L	1	7/26/2012 1:08:00 AM
cis-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Cyclohexane	34	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Dibromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Dichlorodifluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-2
Lab Order:	U1207507	**Collection Date:**	7/19/2012 1:15:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-002	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Ethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Freon-113	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
m,p-Xylene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Methyl Acetate	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Methyl tert-butyl ether	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Methylcyclohexane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Methylene chloride	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
n-Butylbenzene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
n-Propylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
o-Xylene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
sec-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Styrene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
tert-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Tetrachloroethene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Toluene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
trans-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM
Trichlorofluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:08:00 AM
Vinyl chloride	ND	5.0		µg/L	1	7/26/2012 1:08:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-7
Lab Order:	U1207507	**Collection Date:**	7/19/2012 2:30:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-003	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,1,2-Trichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
1,1-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
1,1-Dichloroethene	4.2	5.0	J	µg/L	1	7/26/2012 1:54:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,2,4-Trichlorobenzene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,2-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
1,4-Dioxane	ND	100		µg/L	1	7/26/2012 1:54:00 AM
2-Butanone	ND	10		µg/L	1	7/26/2012 1:54:00 AM
2-Hexanone	ND	10		µg/L	1	7/26/2012 1:54:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2012 1:54:00 AM
Acetone	ND	10		µg/L	1	7/26/2012 1:54:00 AM
Benzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Bromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Bromodichloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Bromoform	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Bromomethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Carbon disulfide	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Chlorobenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Chloroethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Chloroform	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Chloromethane	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
cis-1,2-Dichloroethene	300	25		µg/L	5	7/26/2012 9:35:00 PM
cis-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Cyclohexane	14	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Dibromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Dichlorodifluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	AL-7
Lab Order:	U1207507	**Collection Date:**	7/19/2012 2:30:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-003	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Ethylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Freon-113	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
m,p-Xylene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Methyl Acetate	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Methyl tert-butyl ether	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Methylcyclohexane	27	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Methylene chloride	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
n-Butylbenzene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
n-Propylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
o-Xylene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
sec-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Styrene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
tert-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
Tetrachloroethene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Toluene	ND	5.0		µg/L	1	7/26/2012 1:54:00 AM
trans-1,2-Dichloroethene	1.9	5.0	J	µg/L	1	7/26/2012 1:54:00 AM
trans-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Trichloroethene	55	5.0		µg/L	1	7/26/2012 1:54:00 AM
Trichlorofluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 1:54:00 AM
Vinyl chloride	190	5.0		µg/L	1	7/26/2012 1:54:00 AM

NOTES:
The reporting limits were raised due to the high concentration of target compounds.

Approved By: **Date:**

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	Dup
Lab Order:	U1207507	**Collection Date:**	7/19/2012 3:00:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-004	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,1,2-Trichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
1,1-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
1,1-Dichloroethene	3.8	5.0	J	µg/L	1	7/26/2012 2:41:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,2,4-Trichlorobenzene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,2-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
1,4-Dioxane	ND	100		µg/L	1	7/26/2012 2:41:00 AM
2-Butanone	ND	10		µg/L	1	7/26/2012 2:41:00 AM
2-Hexanone	ND	10		µg/L	1	7/26/2012 2:41:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2012 2:41:00 AM
Acetone	ND	10		µg/L	1	7/26/2012 2:41:00 AM
Benzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Bromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Bromodichloromethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Bromoform	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Bromomethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Carbon disulfide	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Chlorobenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Chloroethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Chloroform	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Chloromethane	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
cis-1,2-Dichloroethene	440	25		µg/L	5	7/26/2012 10:13:00 PM
cis-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Cyclohexane	12	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Dibromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Dichlorodifluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	Dup
Lab Order:	U1207507	**Collection Date:**	7/19/2012 3:00:00 PM
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-004	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Ethylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Freon-113	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
m,p-Xylene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Methyl Acetate	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Methyl tert-butyl ether	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Methylcyclohexane	23	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Methylene chloride	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
n-Butylbenzene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
n-Propylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
o-Xylene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
sec-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Styrene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
tert-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
Tetrachloroethene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Toluene	ND	5.0		µg/L	1	7/26/2012 2:41:00 AM
trans-1,2-Dichloroethene	2.1	5.0	J	µg/L	1	7/26/2012 2:41:00 AM
trans-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Trichloroethene	57	5.0		µg/L	1	7/26/2012 2:41:00 AM
Trichlorofluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 2:41:00 AM
Vinyl chloride	180	5.0		µg/L	1	7/26/2012 2:41:00 AM

NOTES:
The reporting limits were raised due to the high concentration of target compounds.

Approved By: **Date:**

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	ULI Trip Blank
Lab Order:	U1207507	**Collection Date:**	7/19/2012
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-005	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,1,2-Trichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
1,1-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2,4-Trichlorobenzene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,2-Dichloroethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
1,4-Dioxane	ND	100		µg/L	1	7/26/2012 3:27:00 AM
2-Butanone	ND	10		µg/L	1	7/26/2012 3:27:00 AM
2-Hexanone	ND	10		µg/L	1	7/26/2012 3:27:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2012 3:27:00 AM
Acetone	ND	10		µg/L	1	7/26/2012 3:27:00 AM
Benzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Bromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Bromodichloromethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Bromoform	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Bromomethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Carbon disulfide	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Chlorobenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Chloroethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Chloroform	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Chloromethane	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
cis-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Cyclohexane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Dibromochloromethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Dichlorodifluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM

Approved By: _____ **Date:** _____

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *08-Aug-12*

CLIENT:	TVGA	**Client Sample ID:**	ULI Trip Blank
Lab Order:	U1207507	**Collection Date:**	7/19/2012
Project:	Dunkirk Alumeux Fac.		
Lab ID:	U1207507-005	**Matrix:**	WATER

METHOD 5030/8260B 2005 LIST VOLATILES - WATER Lab Code: **8260_05_W** Analyst: **EMZ**

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Ethylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Freon-113	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
m,p-Xylene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Methyl Acetate	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Methyl tert-butyl ether	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Methylcyclohexane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Methylene chloride	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
n-Butylbenzene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
n-Propylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
o-Xylene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
sec-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Styrene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
tert-Butylbenzene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Tetrachloroethene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Toluene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
trans-1,3-Dichloropropene	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM
Trichlorofluoromethane	ND	5.0	Q	µg/L	1	7/26/2012 3:27:00 AM
Vinyl chloride	ND	5.0		µg/L	1	7/26/2012 3:27:00 AM

Approved By: **Date:**

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

Client	Client Project # / Project Name	Special Turnaround Time
TVGA Consultants	320 Roberts Rd Dunkirk Aluminum Fac	Std. (Lab Notification required)

Client Contact	Phone #	Site Location (city/state)
James Manzella	716-849-8739	Dunkirk, New York

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Con-tainers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
AL-1	7/19/12	1300		Grab		2	X										
AL-2	7/19/12	1315		Grab		2	X										
AL-7	7/19/12	1430		Grab		2	X										
Dup	7/19/12	1500		Grab		2	X										
Trip Blank			Aq	~~Aq.~~		1	X										

parameter and method	sample bottle:	type	size	pres.
1) TCL VOCs		Glass	40mL	1:1 HCl
2) Trip Blank		Glass	40mL	–
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Jessica L. Gostomski

Company: TVGA Consultants

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☐ Dropoff
☐ CC _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Jessica L Gostomski	7/19/12	1550	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature)