
**SITE MANAGEMENT PLAN FOR OPERABLE UNIT 4
Former Texaco Research Center
Beacon (Glenham), New York**

NYSDEC Site ID #314004
EPA ID # 091894899

Prepared For:



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LIST OF ACRONYMS

bgs	Below Ground Surface
BRC	Beacon Research Center
CAMP	Community Air Monitoring Program
C&D	Construction and Demolition
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Certificate of Compliance
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
EPA	Environmental Protection Agency
EWP	Excavation Work Plan
FLTD	Fuels & Lubricants Technology Department
HASP	Health and Safety Plan
IC	Institutional Control
ICM	Interim Corrective Measure
ISS	Industrial Sewer System
NYCRR	New York Code of Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
O&M	Operations and Maintenance
OU	Operable Unit
PCB	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RMR	Rock Mass Rating
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVI	Soil Vapor Intrusion
SVOCs	Semivolatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List

LIST OF ACRONYMS (CONTINUED)

TOGS	Technical and Operational Guidance Series
TRCB	Texaco Research Center Beacon
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WWTP	Wastewater Treatment Plant

CERTIFICATION STATEMENT

I, Craig F. Butler, certify that I am currently a NYS registered professional engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Craig F. Butler, P.E.
License No. 080807

04/16/15

Date

SECTION 1

INTRODUCTION

1.1 INTRODUCTION

This document is an element of the remedial program for the Subdivision (Operable Unit-4; (OU-4)) at the former Texaco Research Center, Beacon (TRCB) New York facility (hereinafter referred to as the “Site”) under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program administered by the New York State Department of Environmental Conservation (NYSDEC). The TRCB site is located, as shown on Figure 1, in the Town of Fishkill, Dutchess County New York. The site is being investigated and remediated in accordance with Order On Consent Index # 03-1112-08-12, Site # 314004, which was executed on October 31, 2013. This Order requires Site Management Plans (SMPs), to identify and implement institutional controls (ICs) and engineering controls (ECs). The institution of these controls allows the Site or the Operational Unit (OU) to develop and implement final plans to close. It establishes, the ongoing monitoring and/or operation and maintenance of remedial measures pertaining to an OU or portion thereof. The intent of this SMP is to institute the control measures that will lead to a Decision Document for the removal of OU-4 from the identified Consent Order.

1.1.1 General

In 2013, Chevron (Chevron, also historically known as Texaco and ChevronTexaco) entered into a Consent Decree (United States District Court, Northern District of New York, 2013) with the State of New York to transition the site from a Resource Conservation and Recovery Act (RCRA) permitted facility to an Order On Consent for an inactive site, to facilitate additional site investigations and remediation. The consent order identifies four OUs for the TRCB, as shown on Figure 2 and described below:

- OU-1 consists of the majority of the Main Texaco Campus (33 acres) (OU-1A) and operating areas which include a former tank farm area (5 acres) (OU-1C), a vacant land parcel consisting of 2.06 acres (OU-1D), and a 93 acre parcel (OU-1E) located across Fishkill Creek from the Main Campus. OU-1 also includes an undeveloped parcel of land known as the “Church Property” (OU-1B) which is located northwest of the Main Research Facility, consisting of 15 acres that once contained a local church that was relocated off the Site.
- OU-2 is a 0.23 acre parcel located along and underneath Washington Avenue that has not been dedicated to the Town of Fishkill. This parcel is located outside of the fence line of the main property and is maintained by the Town of Fishkill.
- OU-3 is a 0.67 acre vacant parcel on Washington Avenue. No TRCB activities were conducted on this property.
- OU-4 is described as the “Hydroelectric Facility & Dam” in the Consent Order. The operable unit includes the hydroelectric buildings and the dam itself with access on the north side via an easement to Old Glenham Road, and on the south side via an easement to Washington Avenue.

The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement included as Appendix A of this report. This SMP is being prepared to manage remaining contamination at the OU-4 site in accordance with the requirements described in NYSDEC Division of Environmental Remediation (DER) - 10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by NYSDEC. The SMP addresses the means for implementing the ICs and ECs that are required by the Environmental Easement for the site until the Environmental Easement is extinguished in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

1.1.2 Purpose

An Environmental Easement granted by NYSDEC, and recorded with the Dutchess County Clerk, will require compliance with this SMP and all ECs/ICs placed on the site. The ECs define engineering strategies to be employed to and the ICs place restrictions on site use, and mandate operation, maintenance, monitoring and reporting measures for the property. This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the site. Once this plan has been approved by NYSDEC, compliance with this plan will be required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at OU-4 after completion of the Decision Document for this property, to be prepared by NYSDEC, including: (1) implementation and management of all Engineering and Institutional Controls; (2) soil cover monitoring; (3) operation and maintenance of the soil cover; and (4) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

To address these needs, this SMP includes two plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; and (2) a Monitoring Plan for implementation of Site Monitoring. This plan also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which are grounds for revocation of the Certificate of Completion (COC).

Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6 New York Code of Rules and Regulations (NYCRR) Part 375 and the Order On Consent for the site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC project manager. In accordance with the Environmental Easement for the site, NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

Chevron Corporation (Chevron, also historically known as Texaco and ChevronTexaco) operated a Research Center in Glenham, New York from 1931 until its closure in 2003. It has been called the TRCB, Fuels & Lubricants Technology Department (FLTD) and the Beacon Research Center (BRC). As shown on Figure 2, the subdivision/operable unit (OU-4 area) is located on a 4.033 acre parcel that consists of land on both the north and south sides of Fishkill Creek that includes Buildings 2, 3, 4, 5, a portion of the former Building 6, the hydroelectric dam facilities, and access to the south side of the dam through an undeveloped area of land on the south side of Fishkill Creek.

1.2.2 Site History

The Main Facility (a.k.a. “Main Campus”), where the northern portion of OU-4 area is located, was used as an on-shore, non-production, non-transportation laboratory complex engaged in research, development, and technical services related to petroleum products and energy. Petroleum, coal products, and solvents have been used at the property in connection with the research functions. The facility formerly included 64 buildings and structures that comprised of more than 400,000 square feet.

From 1811 until 1930, the site was the location of textile and woolen mills. Historical site documents indicated that the mills were powered by water wheels and steam engines. Blacksmith and carpentry shops were also operated in support of the mills.

After undertaking preliminary investigations, it was determined that, in order to complete a Sitewide environmental investigation, demolition of the buildings would better enable access to the subsurface soils for investigation and remediation of any contaminated environmental media at the site. NYSDEC concurred with this determination and the Sitewide Building Demolition Project was coordinated with NYSDEC oversight. Demolition of the buildings to the lowest slab or basement level began in the spring 2011.

During preparation of the overall site demolition plan, it was learned that certain buildings are interconnected with the Fishkill Creek dam structure. The removal of buildings that were interconnected with the dam would compromise the structural integrity of the dam. In addition, an opportunity was identified to preserve the existing hydroelectric facility. A portion of Building 2, Buildings 3, 4, 5, and a portion of Building 6 were preserved and rehabilitated to make weather tight.

Chevron approached the Town of Fishkill about the subdivision and determined the boundary of the OU-4 parcel at that time. The NYSDEC Bureau of Program Resources and Flood Protection – Dam Safety Section reviewed the proposed subdivision of the dam property and indicated that access to both sides of the dam needed to be obtained for maintenance purposes. Chevron then added the access easement from Washington Avenue as described above in the OU-4 description. The NYSDEC DER then required additional soil and groundwater sampling to determine if any additional contamination was present in the access easement area. All reports associated with the site can be viewed by contacting NYSDEC.

The hydroelectric facility will continue to occupy Buildings 2, 4, 5, and the remaining portion of Building 6. The machinery associated with the facility, including the turbine, are located in Building 5. Building 5 also has attached to it a trash collection rack (to gather debris in the water which is diverted back to the creek) that sits in the water at the inlet to the hydroelectric facility. Buildings 2, 4, and the remaining portion of Building 6 will be used for the storage of equipment associated with the operation of the hydroelectric facility, such as electric controls, generators and hardware items.

Building 3 is attached to Buildings 2 and 4, but Building 3 will not be used as part of the hydroelectric facility. Building 3 will remain an unoccupied shell until an overall site development plan has been prepared for the balance of the property. The hydroelectric facility is expected to produce 500,000 kWh per year. This amount of power will offset the average power requirements to electrify 275 homes per year.

The proposed subdivision also includes provisions for a future driveway to be constructed off of Washington Avenue to provide access to the south side of the creek and dam structure (Figure 3). There is also a proposed easement from Old Glenham Road to the hydroelectric facility to provide access to the north side of the dam.

1.2.3 Geologic Conditions

The site is located in the Hudson Highlands physiographic province of New York State. Elevations in the area extend from the bottom of the Hudson River (240 meters below mean sea level) to the top of Mount Beacon (405 meters above mean sea level). As shown on Figure 4, several borings (MB-1 through MB-7) were advanced at or near Buildings 3 through 6. Boring logs for these locations were submitted to NYSDEC in the Environmental and Geotechnical Investigation Report Former Mill Buildings 2 through 6 (Parsons, 2011).

Building 3 was found to have between 9 ft to 14 ft of fill above the bedrock and a crawl space 1 ft to 4 ft below ground surface (bgs) exists between the fill and the current concrete floor slab. As shown on Figure 4, three boring samples were drilled within the confines of Building 3 (MB-1 through MB-3). The fill consists of silt, sand and gravel with varying degrees of brick, concrete, tile fragments, and cinders at depth in MB-1.

Boring MB-4 was drilled within Building 4. Beneath the concrete floor slab, approximately 13.5 ft of fill was encountered. Lab results for samples indicated non-plastic silty sand with gravel, and observations included brick and tile fragments.

The southern foundation wall of Building 6 forms the retaining wall at the edge of Fishkill Creek. The ground surface to the north of Building 6 gradually grades upwards to the east, along the entire length of the building. Three boreholes (MB-5, MB-6, and MB-7) were drilled within the confines of Building 6. Boring logs indicate fill from the ground surface to the top of bedrock in all three boreholes, however observations of brick, tile, and concrete materials are fewer than in MB-1 through 4. In MB-5 and MB-6, from top of rock to approximate elevation of 200 ft, the material encountered was very dense sand and fine gravel. In MB-7, the overburden was very stiff clayey silt with sand and gravel.

The Rock Mass Rating (RMR) was used to determine the rock quality, using three field parameters; discontinuity conditions, groundwater conditions and unconfined compressive

strength. The rock mass class is considered to be fair, with the statistically low range leaning towards poor.

Groundwater monitoring data from the entire site indicates that groundwater on the north side (i.e., Main Campus area) flows south toward Fishkill Creek with a slight upward gradient of groundwater from the bedrock aquifer to the shallow overburden aquifer near Fishkill Creek, while groundwater flow on the south side (i.e., Washington Avenue Tank Farm area) flows to the north towards Fishkill Creek based on elevations collected from various well monitoring events. As shown on Figure 5, groundwater elevations have been recorded at several locations in the OU-4 area. Groundwater elevations recorded during the advancement of borings MB-1 through MB-7 under the building slabs indicated groundwater depths of approximately 6.95 to 21.00 ft bgs (north side of Fishkill Creek), while groundwater depths on the south side of the creek varied from 2.68 to 46.38 bgs .

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

As previously discussed, several site investigations were performed to characterize the nature and extent of contamination at the site. Four specific investigations assessed soil contamination, which is hereafter referred to as “remaining soil contamination,” in the OU-4 area; namely the Sitewide RCRA Facility Investigation (Parsons, 2007), Supplemental RCRA Facility Investigation (Parsons, 2009), Environmental and Geotechnical Investigation Report Former Mill Buildings 2 through 6 (Parsons, 2011), and Undeveloped Property Area Subsurface Investigation (Parsons 2012). Generally, the remedial investigations (RIs) determined that most of the soil located at the OU-4 site contains contaminant concentrations that are below the NYSDEC 6 NYCRR Part 375 Industrial Use Soil Criteria. Semi-Volatile Organic Compounds (SVOCs) and metals were detected in samples at four locations within OU-4.

Groundwater samples are generally collected and analyzed annually at a minimum throughout the TRCB to assess if concentrations of Volatile Organic Compounds (VOCs), Semi-Volatiles Organic Compounds (SVOCs) and metals exceed the NYSDEC Technical Operations Guidance Series (TOGS) Class GA Water Standard. Groundwater results are reported to NYSDEC. The most recent round of groundwater sample results (collected in November 2013) indicate that currently there is no groundwater contamination below the OU-4 property.

The results of these investigations as related to the OU-4 portion of the site are summarized below.

Soils

As shown on Figure 4, soil samples were collected from eight locations (MB-1, MB-3, MB-4, MB-5, MB-6, MB-7, SWSL-16, and SWMW-28) adjacent to and underneath Buildings 2 through 6, and submitted for laboratory analyses.

No VOCs were detected in any soil samples collected, while SVOCs were detected in one soil boring (SWSL-16 [0.5 ft – 4.0 ft]) located adjacent to Building 6, at concentrations that exceeded the NYSDEC 6NYCRR Part 375 Industrial Use Soil Criteria. Mercury was also detected in concentrations that exceeded the soil criteria at one soil boring (MB-1 [4.5 ft – 8.5 ft and 10.5 ft –12.5 ft]), located beneath the slab of Building 3. Soil samples were also collected and analyzed from 21 locations along the undeveloped property and access easement leading from the proposed subdivision property from Washington Avenue (Figure 4). Arsenic

concentrations exceeded the NYSDEC 6NYCRR Part 375 Industrial Use Soil Criteria at two locations (SWSL-69 [2 ft – 5 ft] and UDPSB-14 [0 ft – 2 ft]), while one location contained benzo (a) pyrene [UDPSB-16 (0.5 ft-1 foot)] at a concentration exceeding the NYSDEC 6NYCRR Part 375 Industrial Use Soil Criteria. Table 1 summarizes soil analytical results and soil exceedences are graphically depicted on Figure 4.

Groundwater

Groundwater samples are generally collected and analyzed annually from both overburden and bedrock wells at the site and reported to the NYSDEC. A review of the historic data collected from the vicinity of the dam buildings indicated exceedences of the Class GA groundwater standards for VOCs, SVOCs, and metals. However, the most recent round of groundwater samples collected (November 2013) indicated concentrations of site contaminants of concern are below the Class GA standards. Figures depicting the groundwater contamination plumes for contaminants of concern at the site in both the overburden and the bedrock are included as Figures 6 through 13. Groundwater will continue to be monitored through the site.

Soil Vapor

A soil vapor investigation was completed for the site in 1999 and is summarized in the Geochemical Investigation of Subsurface Hydrocarbon Gas Constituents report for the TRCB site (Exploration Technologies, Inc., 1999). Data from this report were used to the work scope for the Phase II Environmental Site Assessment (Groundwater Sciences Corp., 2005). The Phase II report concluded that no soil gas hot spots occur underneath the OU-4 buildings or property.

1.4 UNDERGROUND STORAGE TANKS REMEDIAL INVESTIGATION

Several investigations were completed as follow-up to underground storage tank (UST) removals or spills. No USTs were identified or known to be present in the boundary area of OU-4.

1.5 SUMMARY OF REMEDIAL ACTIONS

One site remedial activity was historically completed in the vicinity of the OU-4 property. The TRCB site industrial sewer system (ISS) adjacent to the OU-4 property was remediated as described in the NYSDEC-approved “Phase II RCRA Facility Assessment – Sampling Visit Interim Remedial Measure: Inactive Line Abandonment” closure report dated October 2006.

ISS remedial activities completed in the vicinity of the OU-4 portion of the site included:

1. Existing industrial sewer lines were cleaned using high pressure water to clean the pipes;
2. Sewer lines integrity was evaluated using remote video camera techniques; and
3. Grouting the industrial sewer lines in place.

1.5.1 Removal of Contaminated Materials From the Site

In addition to the ISS closure, contaminated soil from three locations that exceeded the NYSDEC 6NYCRR Part 375 Industrial Use Soil Criteria in the top 2 ft bgs will be addressed by Chevron. It is likely that an Interim Corrective Measure (ICM) will be implemented which

will consist of excavation of this material. As shown on Figure 14, soils will be removed in three 10 ft by 10 ft impacted areas around locations SWSL-16, UDPSB-14, and UDPSB-16. Excavation at SWSL-16 will extend to a depth of 5 ft to remove soils with arsenic concentrations above NYSDEC 6NYCRR Part 375.

Industrial Use Soil Criteria.

Soils will be removed to a depth of 1 ft at locations UDPSB-16 and UDPSB-14 to address benzo (a) pyrene and arsenic exceedences, respectively. The soils will be direct loaded into lined dump trucks and disposed of at a NYSDEC permitted facility. Excavations will be backfilled with clean imported soils and areas will be restored to pre-existing conditions. A Work Plan providing additional details of this ICM will be developed and submitted by Chevron to NYSDEC for approval.

1.5.2 Site-Related Treatment Systems

No long-term treatment systems will be installed as part of the site remedy.

1.5.3 Remaining Contamination

Upon completion of remedial excavations described above in Section 1.4.1, two impacted areas, both with contamination at least 2 ft bgs, pose a minimum exposure risk, and will remain onsite. Soil exceedences of the NYSDEC 6NYCRR Part 375 Industrial Use Soil Criteria remaining at the site are shown on Figure 15 and Table 2 and summarized below:

- Mercury concentrations above NYSDEC Industrial SCOs remain under Building 3 at depths of 4.5 ft – 8.5 ft and 10.5 ft – 12.5 ft bgs (location MB-1). The area is covered by a concrete slab that prevents exposure to contaminated soils. The decision document will require this contamination to be removed if such infrastructure is replaced. Removal of the contaminated soils will follow requirements noted in Section 2.4 and the excavation template included as Appendix B of this report.
- Arsenic concentrations above NYSDEC Industrial SCOs were observed at SWSL-69 at depths from 2 ft – 5 ft bgs. This location has 2 ft of non-impacted soil over top of the impacted soils and, as stated above, poses minimal threat to wildlife or human contact. The Decision Document may require removal of impacted arsenic soil in this area if re-grading or future excavations are completed in this area.

Table 1 OU-4 Soils Analytical Data Results

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	MB-1(10.5-12.5)(8-24-10)	MB-1(4.5-8.5)(8-23-10)	MB-3(2-6)(8-17-10)	MB-3(8-10)(8-17-10)	MB-4(2-8)(9-9-10)	MB-4(8-13.3)(9-9-10)	MB-5(4-2.8)(8-26-10)	MB-5(4-4.3)(8-26-10)	MB-6(0.5-2.3)(8-30-10)	MB-6(3-4)(8-30-10)	MB-7(0.5-4)(9-7-10)	MB-7(6-7.7)(9-7-10)	SWMW-28(10-16)	SWSL-16(6-4)	SWSL-69(2-5)	SWSL-70(1-5)
		Location	MB-1	MB-1	MB-3	MB-3	MB-4	MB-4	MB-5	MB-5	MB-6	MB-6	MB-7	MB-7	SWMW-28	SWSL-16	SWSL-69	SWSL-70
		Sample Depth	10.5-12.5 FT	4.5-8.5 FT	2-6 FT	8-10 FT	2-8 FT	8-13.3 FT	4-2.8 FT	4-4.3 FT	0.5-2.3 FT	3-4 FT	0.5-4 FT	6-7.7 FT	10-16 FT	0.5-4 FT	2-5 FT	1-5 FT
		Sample Date	8/24/2010	8/23/2010	8/17/2010	8/17/2010	9/9/2010	9/9/2010	8/26/2010	8/26/2010	8/30/2010	8/30/2010	9/7/2010	9/7/2010	11/30/2006	10/25/2006	10/31/2006	10/31/2006
		SDG	1209549	1209549	1208575	1208575	1211427	1211427	1209549	1209549	1210562	1210562	1211427	1211427	1016390	1011891	1012602	1012602
		Matrix	SOIL	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/kg	480000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/kg	60000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	5 U	5 U	5 U	4 U	5 U	4 U	5 U	4 U	5 U	5 U	5 U	5 U	5 U	4 U	4 U	5 U
2-Hexanone	ug/Kg	NS	4 U	4 U	4 U	3 U	4 U	3 U	3 U	3 U	3 U	4 U	3 U	4 U	4 U	3 U	3 U	3 U
4-Methyl-2-pentanone	ug/Kg	NS	4 U	4 U	4 U	3 U	4 U	3 U	3 U	3 U	3 U	4 U	3 U	4 U	4 U	3 U	3 U	3 U
Acetone	ug/kg	1000000	9 U	17 J	8 U	8 U	8 U	8 U	8 U	8 U	9 J	15 J	8 U	8 U	34 J	8 U	8 U	8 U
Benzene	ug/kg	89000	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.5 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	3 J	0.7 J	2 J	0.6 U
Bromodichloromethane	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/Kg	NS	3 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/kg	44000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 J	1 U	1 U	1 J
Chloroethane	ug/Kg	NS	3 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloroform	ug/kg	700000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J	1 U	1 U
Chloromethane	ug/Kg	NS	3 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/kg	780000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J	1 U	1 U	1 U
Ethyl-t-butylether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/kg	1000000	3 U	2 U	2 U	3 J	2 U	2 U	2 U	2 J	13	19	2 U	2 U	7	3 J	7 U	3 J
Methyl-t-butyl ether	ug/kg	1000000	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.5 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Styrene	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tertiary Butyl Alcohol	ug/kg	NS	26 U	24 U	24 U	22 U	23 U	22 U	23 U	22 U	23 U	24 U	23 U	23 U	24 U	22 U	22 U	23 U
Tetrachloroethene	ug/kg	300000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 J	2 J	8 J	2 J
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/Kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/kg	400000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/kg	27000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 J	1 U	2 J	2 J
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/Kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
1,2-Dichlorobenzene	ug/kg	1000000	220 U	200 U	130 U	120 U	38 U	330	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
1,3-Dichlorobenzene	ug/kg	560000	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
1,4-Dichlorobenzene	ug/kg	250000	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2,4,5-Trichlorophenol	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
2,4,6-Trichlorophenol	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2,4-Dichlorophenol	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2,4-Dimethylphenol	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
2,4-Dinitrophenol	ug/kg	NS	4300 U	4000 R	2500 U	2400 U	750 U	750 U	760 U	2200 U	730 U	790 U	770 U	800 U	810 U	750 U	750 U	750 U
2,4-Dinitrotoluene	ug/Kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
2,6-Dinitrotoluene	ug/Kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2-Chloronaphthalene	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2-Methyl-naphthalene	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	84 J	38 U	110 U	37 U	40 U	39 U	40 U	41 U	86 J	95 J	39 J
2-Methylphenol (o-Cresol)	ug/kg	1000000	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
3,3'-Dichlorobenzidine	ug/kg	NS	650 U	600 U	380 U	360 U	110 U	110 U	110 U	390 U	110 U	120 U	120 U	120 U	120 U	110 U	110 U	110 U
3-Nitroaniline	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	1100 U	1000 U	640 U	590 U	190 U	190 U	190 U	540 U	180 U	200 U	190 U	200 U	200 U	190 U	190 U	190 U
4-Bromophenylphenylether	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
4-Chloroaniline	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
4-Chlorophenyl phenyl ether	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
4-Nitroaniline	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 U	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
4-Nitrophenol	ug/kg	NS	1100 U	1000 U	640 U	590 U	190 U	190 U	190 U	540 U	180 U	200 U	190 U	200 U	200 U	190 U	190 U	190 U
Acenaphthene	ug/kg	1000000	220 U	200 U	130 U	120 U	38 U	180 J	50 J	110 U	37 U	40 U	39 U	40 U	41 U	580	97 J	38 U
Acenaphthylene	ug/kg	1000000	220 U	200 U	130 U	120 U	38 U	37 U	38 U	110 U	37 U	40 U	39 U	40 U	41 U	340	100 J	130 J
Anthracene	ug/kg	1000000	220 U	200 U	130 U	120 U	48 J	310	130 J	110 U	37 U	40 U	39 U	40 U	41 U	1300	260	84 J
Benzo(a)anthracene	ug/kg	11000	470 J	1200 J	310 J	120 U	160 J	570	240	110 U	78 J	40 U	39 U	40 U	100 J	2900	690	360
Benzo(a)Pyrene	ug/kg	1100	410 J	990 J														

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	MB-1(10.5-12.5)(8-24-10)	MB-1(4.5-8.5)(8-23-10)	MB-3(2-6)(8-17-10)	MB-3(8-10)(8-17-10)	MB-4(2-8)(9-9-10)	MB-4(8-13.3)(9-9-10)	MB-5(4-2.8)(8-26-10)	MB-5(4-4.3)(8-26-10)	MB-6(0.5-2.3)(8-30-10)	MB-6(3-4)(8-30-10)	MB-7(0.5-4)(9-7-10)	MB-7(6-7.7)(9-7-10)	SWMW-28(10-16)	SWSL-16(6-4)	SWSL-69(2-5)	SWSL-70(1-5)
		Location	MB-1	MB-1	MB-3	MB-3	MB-4	MB-4	MB-5	MB-5	MB-6	MB-6	MB-7	MB-7	SWMW-28	SWSL-16	SWSL-69	SWSL-70
		Sample Depth	10.5-12.5 Ft	4.5-8.5 Ft	2-6 Ft	8-10 Ft	2-8 Ft	8-13.3 Ft	4-2.8 Ft	4-4.3 Ft	0.5-2.3 Ft	3-4 Ft	0.5-4 Ft	6-7.7 Ft	10-16 Ft	0.5-4 Ft	2-5 Ft	1-5 Ft
		Sample Date	8/24/2010	8/23/2010	8/17/2010	8/17/2010	9/9/2010	9/9/2010	8/26/2010	8/26/2010	8/30/2010	8/30/2010	9/7/2010	9/7/2010	11/30/2006	10/25/2006	10/31/2006	10/31/2006
		SDG	1209549	1209549	1208575	1208575	1211427	1211427	1209549	1209549	1210562	1210562	1211427	1211427	1016390	1011891	1012602	1012602
		Matrix	SOIL	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Misc Solid Materials	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
Indeno(1,2,3-cd)pyrene	ug/kg	11000	270 J	540 J	160 J	120 U	78 J	240	100 J	110 U	37 U	40 U	39 U	40 U	66 J	1400	330	310
Isophorone	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 UJ	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
Naphthalene	ug/kg	1000000	330 J	420 J	130 U	120 U	38 U	180 J	38 U	110 U	37 U	40 U	39 U	40 U	41 U	96 J	81 J	42 J
Nitrobenzene	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 UJ	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
N-Nitrosodi-n-propylamine	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 UJ	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
N-Nitrosodiphenylamine	ug/kg	NS	220 U	200 U	130 U	120 U	38 U	37 UJ	38 U	110 U	37 UJ	220	39 U	40 U	41 U	37 U	38 U	38 U
p-Chloro-m-cresol	ug/kg	NS	430 U	400 U	250 U	240 U	75 U	75 UJ	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
p-Cresol	ug/kg	1000000	430 U	400 U	250 U	240 U	75 U	75 UJ	76 U	220 U	73 U	79 U	77 U	80 U	81 U	75 U	75 U	75 U
Pentachlorophenol	ug/kg	55000	1100 U	1000 U	640 U	590 U	190 U	190 UJ	190 U	540 U	180 U	200 U	190 U	200 U	190 U	190 U	190 U	190 U
Phenanthrene	ug/kg	1000000	620 J	2500 J	300 J	120 U	320	1500	570	110 U	84 J	40 U	39 U	40 U	130 J	4500	930	260
Phenol	ug/kg	1000000	220 U	200 U	130 U	120 U	38 U	37 UJ	38 U	110 U	37 U	40 U	39 U	40 U	41 U	37 U	38 U	38 U
Pyrene	ug/Kg	1000000	760 J	2400 J	540 J	120 U	360	1200	490	110 U	130 J	40 U	43 J	210	6300	1400	670	670
METALS																		
Aluminum	mg/kg	NS	6090	13400	13000	9970	17000	12600	11200	41.7	8820	1320	16500	10100	13400	12400	12200	13800
Antimony	mg/Kg	NS	1.29 U	1.19 U	1.25 U	1.18 U	1.23 J	1.92 J	1.13 U	0.216 U	1.1 U	1.18 U	1.96 J	1.19 U	1.08 U	1.01 U	1.02 U	0.98 U
Arsenic	mg/kg	16	10.9	8.24	6.21	3.67	3.6	3.98	3.96	0.206 U	4.76	1.59 J	7.64	5.05	13.5	3.73	16.2	10.6
Barium	mg/kg	10000	56.3	72.8	60	39.6	84	67.9	38.9	0.108 J	71.3	4.99	349	34.2	111	31.7	71.9	69.8
Beryllium	mg/kg	2700	0.613 J	0.978	0.591 U	0.629 U	0.966	1.03	0.452 J	0.0147 U	0.633	0.101 J	0.866	0.764	1.17	0.578	0.552 J	0.775
Cadmium	mg/kg	60	2.06	4.49	1.06	0.95	0.35 J	0.415 J	0.387 J	0.0303 U	1.49	0.183 J	1.51	0.346 J	0.823	0.073 U	0.0734 U	0.0705 U
Calcium	mg/kg	NS	12300 J	37900 J	52000 J	99500 J	8270	22000	97600 J	911 J	139000	184000	13500	96000	19500	1980	3780	4060
Chromium	mg/Kg	NS	366	315	85.3	55.8	17.9	15.2	13.7	0.128 U	10.6	3.49	23.4	10.7	135	13	20	27
Cobalt	mg/kg	NS	4.36	8.68	7.44	4.65	7.97	6.73	6.32	0.0411 U	5.73	0.928	50.2	4.14	8.06	7.13	9.99	9.19
Copper	mg/kg	10000	32.6	64.2	39.7	28.7	25.1	26.5	20.9	0.0517 J	17.1	10.6	30.6	17.4	43	17.3	104	43.5
IRON	mg/kg	NS	33000 J	29900 J	23200 J	15800 J	21400	21200	19900 J	40.6 J	13200	3020	26800	14900	29200	21900	21700	21500
Lead	mg/kg	3900	141	553	134	223	50.5	83.6	40.2 J	0.13 U	18.8	0.92 J	128	13.4	88.6	23.2	81.9	73.6
Magnesium	mg/kg	NS	5520 J	16700 J	20600 J	54100 J	5600	12500	53400 J	474 J	78900	104000	8030	55700	12900	4660	4540	4870
Manganese	mg/kg	10000	252	484	771	349	496	495	558	1.87	1430	119	438	530	550	323	487	431
Mercury	mg/kg	5.7	6.55	6.89	0.518	0.234	0.299	0.146	0.0142 J	0.0074 U	0.0832 J	0.0129 U	0.0586 J	0.0331 J	0.701	0.112	0.162	0.143
Nickel	mg/kg	10000	11.1	17.2	17.4	10.5	15.6	12.3	14.6	0.0411 U	15.4	1.74	17.2	12.9	19.4	13.2	19	18.8
Potassium	mg/kg	NS	618	1560	1440	1140	1310	1100	1410 J	16.6	1470	309	1400	1360	1860	922	1060	1120
Selenium	mg/kg	6800	1.91 J	1.21 J	1.22 U	1.15 U	1.07 U	1.07 U	1.11 U	0.212 U	1.08 U	1.16 U	1.17 J	1.16 U	1.17 U	1.1 U	1.6 J	1.31 J
Silver	mg/kg	6800	0.696	0.464 J	0.336 J	0.252 J	0.197 U	0.196 U	0.204 U	0.039 U	0.198 U	0.212 U	0.202 U	0.213 U	0.655	0.206 J	0.192 U	0.184 U
Sodium	mg/kg	NS	161 J	165 J	491 J	267 J	336	220	181 J	24.5 J	196	149	188	138	350	904	137	90.4 J
Thallium	mg/Kg	NS	1.87 U	1.72 U	1.81 U	1.71 U	1.59 U	1.58 U	1.64 U	0.314 U	1.59 U	1.71 U	1.63 U	1.72 U	1.58 U	1.83 J	1.5 U	1.44 U
Vanadium	mg/kg	NS	15.5	23.1	20.5	15.2	21.5	21.5	14.9	0.0554 J	17.1	5.47	22.7	14.7	25.5	16.9	18	23.5
Zinc	mg/kg	10000	605 J	881 J	169 J	74.9 J	112	113	61.4 J	0.143 UJ	41.3	17	190	39.2	318	56.2	96.6	66.4
OTHER																		
Chloride	mg/kg	NS													51.8	406	5.9	4.9
Sulfate	mg/kg	NS													84.5	51.7	18.2 J	14.6 J
Moisture	%	NS	23.3	17.3	21.5	15.8	11.3	10.8	12.6	7.8	8.9	16.1	13.5	16.5	17.7	11	11.4	11.4
Notes																		
ug/Kg = micrograms per kilogram																		
mg/Kg = milligrams per kilogram																		
NS = No Standard																		
J = Estimated Result																		
R = Rejected Result																		
U = Non Detect Result																		
UJ = Estimated Non Detect Result																		

Table 1 OU-4 Soils Analytical Data Results																		
		Field Sample ID	SWSL-71(1-5)	SWSL-72(1-4)	SWSL-73(1-5)	UDPSB-1(0-2)	UDPSB-1(0-2ft)	UDPSB-1(2-6)	UDPSB-1(4-6)	UDPSB-1(6-12)	UDPSB-101(4-6)	UDPSB-2(0-2ft)	UDPSB-2(0-2in)	UDPSB-2(2-6)	UDPSB-2(6-12)	UDPSB-2(8-10)	UDPSB-3(0-2ft)	UDPSB-3(0-2in)
		Location	SWSL-71	SWSL-72	SWSL-73	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-03	UDPSB-03
		Sample Depth	1-5 Ft	1-4 Ft	1-5 Ft	0-0.16 Ft	0-2 Ft	0.16-0.5 Ft	0-6 Ft	0.5-1 Ft	4-6 Ft	0-2 Ft	0-2 Ft	0.16-0.5 Ft	0.5-1 Ft	8-10 Ft	0-2 Ft	0-0.16 Ft
		Sample Date	10/31/2006	10/31/2006	10/31/2006	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/23/2012	5/23/2012	5/23/2012	5/23/2012	5/23/2012	5/23/2012
		SDG	1012602	1012602	1012602	1311706	1311695	1311706	1311695	1311695	1311706	1311706	1311706	1311706	1311706	1311706	1311706	1311706
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 UJ	1 UJ	1 UJ	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/Kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/kg	480000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/kg	60000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/Kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	4 U	4 U	5 U	6 U	260 U	5 U	5 U	4 U	5 U	5 U	270 U	4 U	4 U	5 U	5 U	5 U
2-Hexanone	ug/Kg	NS	3 UJ	3 UJ	4 UJ	5 U	190 U	4 U	4 U	4 U	3 U	4 U	210 U	3 U	3 U	3 U	3 U	4 U
4-Methyl-2-pentanone	ug/Kg	NS	3 UJ	3 UJ	4 UJ	5 U	190 U	4 U	4 U	4 U	3 U	4 U	210 U	3 U	3 U	3 U	3 U	4 U
Acetone	ug/kg	1000000	8 UJ	8 UJ	8 UJ	26 J	450 U	10 J	9 J	120	8 U	13 J	480 U	20 J	8 U	8 U	8 U	58
Benzene	ug/kg	89000	0.6 U	0.6 U	0.6 U	0.8 U	32 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	34 U	0.6 U	0.5 U	0.6 U	0.6 U	0.7 U
Bromodichloromethane	ug/Kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/Kg	NS	2 UJ	2 UJ	2 UJ	3 U	130 U	2 U	2 U	2 U	2 U	3 U	140 U	2 U	2 U	2 U	2 U	3 U
Carbon Disulfide	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/kg	44000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/kg	1000000	1 U	2 J	5 J	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/Kg	NS	2 UJ	2 UJ	2 UJ	3 U	130 U	2 U	2 U	2 U	2 U	3 U	140 U	2 U	2 U	2 U	2 U	3 U
Chloroform	ug/kg	700000	1 U	1 U	1 U	3 J	64 U	1 U	1 U	1 U	1 U	1 J	69 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/Kg	NS	2 U	2 U	2 U	3 U	130 U	2 U	2 U	2 U	2 U	3 U	140 U	2 U	2 U	2 U	2 U	3 U
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/kg	780000	1 U	1 U	2 J	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Ethyl-t-butylether	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/kg	1000000	2 U	2 J	2 J	4 J	130 U	2 U	10	5 J	2 U	3 U	140 U	2 U	2 U	6	2 U	3 U
Methyl-t-butyl ether	ug/kg	1000000	0.6 U	0.6 U	0.6 U	0.8 U	32 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	34 U	0.6 U	0.5 U	0.6 U	0.6 U	0.7 U
Styrene	ug/Kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Tertiary Butyl Alcohol	ug/Kg	NS	22 U	22 U	24 U	31 U	1300 U	24 U	23 U	24 U	22 U	26 U	1400 U	22 U	21 U	23 U	23 U	27 U
Tetrachloroethene	ug/kg	300000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/kg	1000000	1 U	4 J	4 J	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/Kg	NS	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/kg	400000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/kg	27000	1 U	1 U	1 U	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/kg	1000000	1 U	6	11	2 U	64 U	1 U	1 U	1 U	1 U	1 U	69 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/Kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
1,2-Dichlorobenzene	ug/kg	1000000	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
1,3-Dichlorobenzene	ug/kg	560000	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
1,4-Dichlorobenzene	ug/kg	250000	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2,4,5-Trichlorophenol	ug/kg	NS	74 U	75 U	79 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2,4,6-Trichlorophenol	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2,4-Dichlorophenol	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2,4-Dimethylphenol	ug/kg	NS	74 U	75 U	79 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2,4-Dinitrophenol	ug/kg	NS	740 U	750 U	790 U	440 U	370 U	360 U	340 U	360 U	330 U	380 U	420 U	350 U	340 U	340 U	350 U	420 U
2,4-Dinitrotoluene	ug/Kg	NS	74 U	75 U	79 U	98 U	83 U	79 U	75 U	79 U	74 U	85 U	94 U	79 U	76 U	77 U	77 U	94 U
2,6-Dinitrotoluene	ug/Kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Chloronaphthalene	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Methyl-naphththalene	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Methylphenol (o-Cresol)	ug/kg	1000000	74 U	75 U	79 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
3,3'-Dichlorobenzidine	ug/kg	NS	110 U	110 U	120 U	150 U	120 UJ	120 U	110 U	120 U	110 U	130 U	140 U	120 U	110 U	110 U	120 U	140 U
3-Nitroaniline	ug/kg	NS	74 U	75 U	79 U	98 U	83 UJ	79 U	75 U	79 U	74 U	85 U	94 U	79 U	76 U	77 U	77 U	94 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	190 U	190 U	200 U	250 U	210 U	200 U	190 U	200 U	190 U	210 U	230 U	200 U	190 U	190 U	190 U	230 U
4-Bromophenylphenylether	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
4-Chloroaniline	ug/kg	NS	74 U	75 U	79 U	98 U	83 U	79 U	75 U	79 U	74 U	85 U	94 U	79 U	76 U	77 U	77 U	94 U
4-Chlorophenyl phenyl ether	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
4-Nitroaniline	ug/kg	NS	74 U	75 U	79 U	98 U	83 U	79 U	75 U	79 U	74 U	85 U	94 U	79 U	76 U	77 U	77 U	94 U
4-Nitrophenol	ug/kg	NS	190 U	190 U	200 U	250 U	210 U	200 U	190 U	200 U	190 U	210 U	230 U	200 U	190 U	190 U	190 U	230 U
Acenaphthene	ug/kg	1000000	37 U	37 U	40 U	25 U	4 U	4 U	4 U	4 U	4 U	5 U	4 U	4 U	4 U	4 U	4 U	5 U
Acenaphthylene	ug/kg	1000000	37 U	51 J	40 U	11 J	4 U	6 J	4 U	4 U	4 U	8 J	10 J	4 U	4 U	5 J	4 U	12 J
Anthracene	ug/kg	1000000	37 U	37 U	40 U	14 J	4 U	6 J	4 U	4 U	4 U	9 J	13 J	4 U	4 U	5 J	4 U	13 J
Benzo(a)anthracene	ug/kg	11000	37 U	140 J	40 U	52	39	24	4 U	43	4 U	34	50	39	32	4 U	23	54
Benzo(a)Pyrene	ug/kg	1100	37 U															

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	SWSL-71(1-5)	SWSL-72(1-4)	SWSL-73(1-5)	UDPSB-1(0-2)	UDPSB-1(0-2ft)	UDPSB-1(2-6)	UDPSB-1(4-6)	UDPSB-1(6-12)	UDPSB-101(4-6)	UDPSB-2(0-2ft)	UDPSB-2(0-2in)	UDPSB-2(2-6)	UDPSB-2(6-12)	UDPSB-2(8-10)	UDPSB-3(0-2ft)	UDPSB-3(0-2in)
		Location	SWSL-71	SWSL-72	SWSL-73	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-01	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-02	UDPSB-03	UDPSB-03
		Sample Depth	1-5 Ft	1-4 Ft	1-5 Ft	0-0.16 Ft	0-2 Ft	0.16-0.5 Ft	4-6 Ft	0.5-1 Ft	4-6 Ft	0-2 Ft	0-2 Ft	0-0.16 Ft	0.5-1 Ft	8-10 Ft	0-2 Ft	0-0.16 Ft
		Sample Date	10/31/2006	10/31/2006	10/31/2006	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/23/2012	5/23/2012	5/24/2012	5/23/2012	5/23/2012
		SDG	1012602	1012602	1012602	1311706	1311695	1311706	1311695	1311695	1311695	1311706	1311706	1311706	1311706	1311706	1311706	1311706
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
		6 NYCRR Part 375-6.8(b) Industrial																
Parameter Name	Units																	
Indeno(1,2,3-cd)pyrene	ug/kg	11000	37 U	130 J	40 U	31	19 J	14 J	4 U	13 J	4 U	19 J	30	18 J	20	4 U	17 J	35
Isophorone	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
Naphthalene	ug/kg	1000000	37 U	37 U	40 U	25	12 J	20	4 U	10 J	4 U	21 J	17 J	17 J	19	4 U	8 J	23 J
Nitrobenzene	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
N-Nitrosodi-n-propylamine	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
N-Nitrosodiphenylamine	ug/kg	NS	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
p-Chloro-m-cresol	ug/kg	NS	74 U	75 U	79 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
p-Cresol	ug/kg	1000000	74 U	75 U	79 U	25 U	26 J	20 U	19 U	20 U	19 U	21 U	91	20 U	19 U	19 U	19 U	23 U
Pentachlorophenol	ug/kg	55000	190 U	190 U	200 U	49 U	41 U	39 U	38 U	40 U	37 U	42 U	47 U	39 U	38 U	38 U	38 U	47 U
Phenanthrene	ug/kg	1000000	37 U	78 J	40 U	67	40	44	4 U	25	4 U	51	58	45	50	4 U	30	70
Phenol	ug/kg	1000000	37 U	37 U	40 U	25 U	21 U	20 U	19 U	20 U	19 U	21 U	23 U	20 U	19 U	19 U	19 U	23 U
Pyrene	ug/Kg	1000000	37 U	260	40 U	100	65	45	4 U	28	4 U	63	87	57	58	4 U	42	100
METALS																		
Aluminum	mg/kg	NS	14900	15900	21200	19300	14100	17900	21400	20000	20700	19900	18600	18200	17800	19600	19700	19600
Antimony	mg/Kg	NS	0.985 UJ	1.01 U	1.08 U	0.946 U	1.22 J	0.758 U	0.953 J	1.02 J	0.869 J	0.84 U	0.893 U	0.762 U	0.739 U	0.724 U	0.733 UJ	0.899 U
Arsenic	mg/kg	16	6.22	6.29	4.62	8.79	7.27	6.47	1.97 J	3.94	1.27 J	8.57	8.61	7.14	7.82	5.38	7.58 J	9.48
Barium	mg/kg	10000	43.6 J	52.9	78.7	101	75.9	78.3	85.9	91.9	78.5	97.1	98	83.6	92.4	57.4	90.2 J	103
Beryllium	mg/kg	2700	0.634	0.677	0.826	1.17 J	0.712	0.971 J	0.923	0.985	0.887	1.14 J	1.09 J	1.01 J	1.03 J	0.806 J	1.07 J	1.17 J
Cadmium	mg/kg	60	0.78 J	0.0729 U	0.0775 U	0.347 J	0.572 J	0.185 J	0.402 J	0.474 J	0.405 J	0.296 J	0.364 J	0.207 J	0.238 J	0.0439 J	0.228 J	0.366 J
Calcium	mg/kg	NS	1170	9850	1670	3170 J	3560	2330 J	770	3340	814	4370 J	2840 J	2240 J	1980 J	831 J	3200 J	3620 J
Chromium	mg/Kg	NS	16.1	15.9	17.7	23.6	16.9 J	22.5	23.3	23.3	23.5	23.9	21.3	21.9	21.5	20.2	20.8 J	22.9
Cobalt	mg/kg	NS	11.5	8.79	9.66	13.7	10.1	12	15.4	14.1	13.1	14.3	13.3	11.9	13.4	12.6	14.3	13.6
Copper	mg/kg	10000	27.6	21.2	15.5	32.4	24.3	29.9	32.9	35.1	28.9	35.9	30.1	31.5	29.7	30.3	30.3	33
IRON	mg/kg	NS	28400	23700	24600	34400	25000	34200	35400	34800	34600	37100	30700	33800	32300	33300	35300	32000
Lead	mg/kg	3900	13.2 J	22.4	13.4	40.1	42.9	21.5	18	21	16.6	27.2	42.2	24.3	30.2	11.6	25.8 J	47
Magnesium	mg/kg	NS	5500	6780	4910	6270	4710	6530	6410	7390	6670	7270	5950	6730	6240	6900	6900	6640
Manganese	mg/kg	10000	694	536	730	862	682	622	1050	788	710	791	828	634	899	638	813	734
Mercury	mg/kg	5.7	0.0184 J	0.203	0.0871 J	0.219	0.0948 J	0.0767 J	0.0399 J	0.0579 J	0.0328 J	0.0436 J	0.149	0.0851 J	0.08 J	0.0532 J	0.0948 J	0.162
Nickel	mg/kg	10000	22.4	18.3	19	32.9	24.9	30.9	29	30.6	28.1	33	31.6	29.4	28.8	25.6	31.3	33.4
Potassium	mg/kg	NS	1470 J	1170	1130	3240	2260 J	2400	2310	2570	2230	3040	3370	2670	2710	1800	3060 J	3480
Selenium	mg/kg	6800	1.07 U	1.1 U	1.17 U	1.65 J	1.11 J	0.781 U	1.44 J	1.82 J	2.05 J	0.865 U	1.3 J	0.785 U	0.761 U	1.33 J	1.13 J	1.27 J
Silver	mg/kg	6800	0.185 U	0.191 U	0.203 U	0.119 U	0.31 J	0.0954 U	0.319 J	0.352 J	0.302 J	0.106 U	0.122 J	0.0958 U	0.0929 U	0.091 U	0.0922 U	0.113 U
Sodium	mg/kg	NS	44.1 J	42.8 J	48.4 J	62.2 J	44.4 J	50.3 J	36.8 J	51.8 J	37.8 J	67.2 J	67.9 J	54.5 J	55.7 J	45.6 J	65.4 J	67.9 J
Thallium	mg/Kg	NS	1.45 U	1.49 U	1.59 U	0.926 J	0.433 U	0.805 J	0.399 U	0.42 U	0.393 U	1.13 J	1.07 J	0.82 J	0.919 J	0.526 J	0.819 J	0.855 J
Vanadium	mg/kg	NS	19.1	21.6	23.9	50.2	42.1	31.3	27.2	30.5	28	37	49.4	33.4	36.7	24.5	34.4	55.6
Zinc	mg/kg	10000	71.2	62.6	67.1	103	83.5	83.5	78.6	92.2	71.1	91.1	93.2	82.2	83.4	61.4	88.8 J	102
OTHER																		
Chloride	mg/kg	NS	3.5 J	3.4 U	3.6 U	7.3 U	6.1 U	5.9 U	5.6 U	5.9 U	5.4 U	6.4 U	6.9 U	5.9 U	5.6 U	5.6 U	14.8 J	7 U
Sulfate	mg/kg	NS	6.7 U	11.4 J	15.1 J	7.3 U	6.1 U	5.9 U	5.6 U	5.9 U	5.4 U	6.4 U	6.9 U	5.9 U	5.6 U	5.9 J	6.4 J	7 U
Moisture	%	NS	10.1	10.8	16.1	32.3	20	15.5	11.5	16.8	10.2	21.4	28.9	15.1	12.4	12.3	13.4	28.7
Notes																		
ug/Kg = micrograms per kilogram																		
mg/Kg = milligrams per kilogram																		
NS = No Standard																		
J = Estimated Result																		
R = Rejected Result																		
U = Non Detect Result																		
UJ = Estimated Non Detect Result																		

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-3(12-14)	UDPSB-3(2-6)	UDPSB-3(6-12)	UDPSB-4(0-2)	UDPSB-4(0-2ft)	UDPSB-4(0-2in)	UDPSB-4(2-6)	UDPSB-4(4-6)	UDPSB-4(6-12)	UDPSB-5(0-2)	UDPSB-5(0-2ft)	UDPSB-5(0-2in)	UDPSB-5(14-15.9)	UDPSB-5(2-6)	UDPSB-5(6-12)	UDPSB-5(6-12)-052212
		Location	UDPSB-03	UDPSB-03	UDPSB-03	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05
		Sample Depth	12-14 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	4-6 Ft	0.5-1 Ft	0-0.16 Ft	0-2 Ft	0-0.16 Ft	14-15.9 Ft	0.16-0.5 Ft	0.5-1 Ft	0.5-1 Ft
		Sample Date	5/23/2012	5/23/2012	5/23/2012	6/11/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012
		SDG	1311706	1311706	1311706	1315464	1311704	1311704	1311704	1311704	1311704	1315464	1311704	1311704	1311704	1315464	1311704	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,1,2-Trichloroethane	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,1-Dichloroethane	ug/kg	480000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,1-Dichloroethene	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,2-Dichloroethane	ug/kg	60000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
1,2-Dichloropropane	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	5 U	530 U	5 U	6 U	5 U	5 U	6 U	4 U	5 U	22 J	5 U	5 U	5 U	6 U		
2-Hexanone	ug/Kg	NS	4 U	400 U	4 U	4 U	4 U	4 U	5 U	3 U	3 U	4 U	4 U	4 U	4 U	5 U		
4-Methyl-2-pentanone	ug/Kg	NS	4 U	400 U	4 U	4 U	4 U	4 U	5 U	3 U	3 U	4 U	4 U	4 U	4 U	5 U		
Acetone	ug/kg	1000000	9 U	930 U	28	11 J	33	160	8 U	8 U	8 U	57 J	8 U	8 U	32	9 U	11 U	
Benzene	ug/kg	89000	0.6 U	67 U	0.6 U	0.7 U	0.6 U	0.8 U	0.5 U	0.6 U	0.7 U	0.7 U	0.6 U	0.7 U	0.7 U	0.6 U	0.8 U	
Bromodichloromethane	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Bromoform	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Bromomethane	ug/Kg	NS	2 U	270 U	3 U	3 U	3 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	3 U	3 U	3 U	
Carbon Disulfide	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Carbon Tetrachloride	ug/kg	44000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Chlorobenzene	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Chloroethane	ug/Kg	NS	2 U	270 U	3 U	3 U	3 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	3 U	3 U	3 U	
Chloroform	ug/kg	700000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 J	
Chloromethane	ug/Kg	NS	2 U	270 U	3 U	3 U	3 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	3 U	3 U	3 U	
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
cis-1,3-Dichloropropene	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Dibromochloromethane	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Diisopropyl ether	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Ethylbenzene	ug/kg	780000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Ethyl-t-butylether	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Methylene chloride	ug/kg	1000000	10	270 U	7	3 J	3 U	4 J	5	2 U	9	6	3 J	3 U	640 J			
Methyl-t-butyl ether	ug/kg	1000000	0.6 U	67 U	0.6 U	0.7 U	0.6 U	0.8 U	0.5 U	0.6 U	0.7 U	0.7 U	0.6 U	0.7 U	0.7 U	0.6 U	0.8 U	
Styrene	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Tert-amyl methyl ether	ug/kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Tertiary Butyl Alcohol	ug/kg	NS	25 U	2700 U	25 U	29 U	25 U	32 U	22 U	23 U	29 U	24 U	26 U	25 U	31 U			
Tetrachloroethene	ug/kg	300000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Toluene	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
trans-1,3-Dichloropropene	ug/Kg	NS	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Trichloroethene	ug/kg	400000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Vinyl chloride	ug/kg	27000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
Xylenes, Total	ug/kg	1000000	1 U	130 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/Kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
1,2-Dichlorobenzene	ug/kg	1000000	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
1,3-Dichlorobenzene	ug/kg	560000	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
1,4-Dichlorobenzene	ug/kg	250000	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2,4,5-Trichlorophenol	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2,4,6-Trichlorophenol	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2,4-Dichlorophenol	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2,4-Dimethylphenol	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2,4-Dinitrophenol	ug/kg	NS	350 U	390 U	370 U		390 U	630 U	470 U	350 U	340 U		370 U	460 U	360 U	390 U		400 U
2,4-Dinitrotoluene	ug/Kg	NS	78 U	86 U	83 U		87 U	140 U	100 U	77 U	76 U		82 U	100 U	80 U	87 U		89 U
2,6-Dinitrotoluene	ug/Kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2-Chloronaphthalene	ug/kg	NS	8 U	9 U	9 U		9 U	15 U	11 U	8 U	8 U		9 U	11 U	8 U	9 U		9 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2-Methyl-naphthlalene	ug/kg	NS	4 U	7 J	4 U		5 J	24 J	5 U	4 U	4 J		5 J	21 J	4 U	4 U		4 U
2-Methylphenol (o-Cresol)	ug/kg	1000000	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
3,3'-Dichlorobenzidine	ug/kg	NS	120 U	130 U	120 U		130 U	210 U	160 U	120 U	110 U		120 U	150 U	120 U	130 U		130 U
3-Nitroaniline	ug/kg	NS	78 U	86 U	83 U		87 U	140 U	100 U	77 U	76 U		82 U	100 U	80 U	87 U		89 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	190 U	220 U	210 U		220 U	350 U	260 U	190 U	190 U		200 U	250 U	200 U	220 U		220 U
4-Bromophenylphenylether	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
4-Chloroaniline	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
4-Chlorophenyl phenyl ether	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
4-Nitroaniline	ug/kg	NS	78 U	86 U	83 U		87 U	140 U	100 U	77 U	76 U		82 U	100 U	80 U	87 U		89 U
4-Nitrophenol	ug/kg	NS	190 U	220 U	210 U		220 U	350 U	260 U	190 U	190 U		200 U	250 U	200 U	220 U		220 U
Acenaphthene	ug/kg	1000000	4 U	4 U	4 U		4 U	7 U	5 U	4 U	4 U		5 U	4 U	4 U	4 U		4 U
Acenaphthylene	ug/kg	1000000	4 U	7 J	4 U		4 U	14 J	5 U	4 U	4 U		4 U	16 J	4 U	4 U		4 U
Anthracene	ug/kg	1000000	4 U	6 J	4 U		4 U	14 J	5 U	4 U	4 U		4 U	19 J	4 U	4 U		4 U
Benzo(a)anthracene	ug/kg	11000	4 U	21 J	4 U		9 J	41	5 U	5 J	8 J		16 J	78	4 U	6 J		4 U
Benzo(a)Pyrene	ug/kg	1100	4 U	21 J	4 U		11 J	46	5 U	5 J	8 J		21	100	4 U	10 J		4 U
Benzo(b)Fluoranthene	ug/kg	11000	4 U	30	4 U		14 J	57	5 U	7 J	9 J		26	100	4 U	13 J		4 U
Benzo(g,h,i)perylene	ug/kg	1000000	4 U	18 J	4 U		9 J	41	5 U	5 J	6 J		16 J	5 U	4 U	8 J		4 U
Benzo(k)Fluoranthene	ug/kg	110000	4 U	12 J	4 U		8 J	27 J	5 U	4 U	6 J		11 J	40	4 U	6 J		4 U
bis(2-Chloroethoxy)methane	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U</			

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-3(12-14)	UDPSB-3(2-6)	UDPSB-3(6-12)	UDPSB-4(0-2)	UDPSB-4(0-2ft)	UDPSB-4(0-2in)	UDPSB-4(2-6)	UDPSB-4(4-6)	UDPSB-4(6-12)	UDPSB-5(0-2)	UDPSB-5(0-2ft)	UDPSB-5(0-2in)	UDPSB-5(14-15.9)	UDPSB-5(2-6)	UDPSB-5(6-12)	UDPSB-5(6-12)-052212
		Location	UDPSB-03	UDPSB-03	UDPSB-03	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-04	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05	UDPSB-05
		Sample Depth	12-14 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	4-6 Ft	0.5-1 Ft	0-0.16 Ft	0-2 Ft	0-0.16 Ft	14-15.9 Ft	0.16-0.5 Ft	0.5-1 Ft	0.5-1 Ft
		Sample Date	5/23/2012	5/23/2012	5/23/2012	6/11/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012
		SDG	1311706	1311706	1311706	1315464	1311704	1311704	1311704	1311704	1311704	1315464	1311704	1311704	1311704	1315464	1311704	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
		6 NYCRR Part 375-6.8(b) Industrial																
Parameter Name	Units																	
Indeno(1,2,3-cd)pyrene	ug/kg	11000	4 U	14 J	4 U		8 J	38	5 U	4 U	4 U		16 J	60	4 U	6 J		4 U
Isophorone	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
Naphthalene	ug/kg	1000000	4 U	10 J	4 U		10 J	24 J	5 U	4 U	5 J		6 J	33	4 U	4 U		4 U
Nitrobenzene	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
N-Nitrosodi-n-propylamine	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
N-Nitrosodiphenylamine	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
p-Chloro-m-cresol	ug/kg	NS	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
p-Cresol	ug/kg	1000000	19 U	22 U	21 U		22 U	35 U	26 U	19 U	19 U		20 U	25 U	20 U	22 U		22 U
Pentachlorophenol	ug/kg	55000	39 U	43 U	41 U		43 U	69 U	52 U	39 U	38 U		41 U	51 U	40 U	43 U		45 U
Phenanthrene	ug/kg	1000000	4 U	33	4 U		18 J	71	5 U	14 J	10 J		24	99	8 J	11 J		4 U
Phenol	ug/kg	1000000	19 U	22 U	21 U		22 U	35 U	26 U	19 J	19 U		20 U	25 U	20 U	22 U		22 U
Pyrene	ug/Kg	1000000	4 U	42	4 U		22	86	5 U	13 J	13 J		41	140	7 J	21 J		4 U
METALS																		
Aluminum	mg/kg	NS	22300	19700	20300		18400	30900	25500	18600	17700		18600	19200	3940	18700		20400
Antimony	mg/Kg	NS	0.745 U	0.831 U	0.811 U		0.848 U	1.33 U	1.01 U	0.74 U	0.729 U		0.798 U	0.973 U	0.888 J	0.844 U		0.861 U
Arsenic	mg/kg	16	7.64	10.2	6.62		5.11	12.4	6.67	4.78	4.43		6.77	11.8	4.21	8.59		4.14
Barium	mg/kg	10000	95.2	101	90.2		50.6	82.3	66.8	51.9	45.4		70.1	88.5	18.6	65.6		192
Beryllium	mg/kg	2700	1.21 J	1.12 J	1.11 J		0.806	1.44	1.1	0.875	0.778		1.03	1.16	0.595 U	1.21		0.911
Cadmium	mg/kg	60	0.0971 J	0.379 J	0.177 J		0.0463 J	0.16 J	0.0306 U	0.0258 J	0.0398 J		0.255 J	0.531 J	0.146 J	0.259 J		0.0705 J
Calcium	mg/kg	NS	1570 J	8330 J	9210 J		404	525	297	220	20100		20100	15300	152000	14200		14000
Chromium	mg/Kg	NS	23.5	23.1	23.4		17.5 J	30.7	25.6	20.3	16.7		19.3	22	5.7	21.3		17.9
Cobalt	mg/kg	NS	16.6	14	14.4		9.92	13.1	18.7	12.5	7.77		11.6	11.4	3.27	15		6.71
Copper	mg/kg	10000	38.2	34.3	34.3		20.1	31.5	28.8	25.4	15.8		29.9	32.8	7.57	40.3		13.1
IRON	mg/kg	NS	39100	34600	35500		24600	42800	37900	35600	23700		30000	30300	9840	35700		23700
Lead	mg/kg	3900	15.4	38.5	15.8		19.1	71.9	16	13.8	20.2		21.8	58.2	5.49	22.7		19.9
Magnesium	mg/kg	NS	6390	10200	8840		4220	6500	6780	5970	3740		16700	14400	86700	14100		10700
Manganese	mg/kg	10000	870	837	768		290	454	486	550	266		739	814	335	807		767
Mercury	mg/kg	5.7	0.0354 J	0.119 J	0.0367 J		0.178	0.783	0.257	0.0522 J	0.506		0.187	0.318	0.0081 U	0.222		1.75
Nickel	mg/kg	10000	31.6	32.4	31		20.5	34	30.5	26.2	18.2		27.7	33.9	7.38	33.1		17.5
Potassium	mg/kg	NS	2970	3360	3170		1250 J	1830	1810	1420	812		2510	2500	656	2110		1000
Selenium	mg/kg	6800	1.47 J	1.29 J	0.835 U		0.874 U	1.38 U	1.04 U	0.762 U	0.752 U		0.822 U	1 U	0.809 U	0.869 U		0.887 U
Silver	mg/kg	6800	0.0937 U	0.105 U	0.102 U		0.107 U	0.168 U	0.127 U	0.093 U	0.0917 U		0.1 U	0.177 J	0.0988 U	0.106 U		0.108 U
Sodium	mg/kg	NS	61.3 J	69.9 J	66.8 J		35.8 J	40.3 J	34.1 J	28.3 J	17.3 J		53.1 J	51.8 J	149	48.4 J		41.9 J
Thallium	mg/Kg	NS	0.791 J	1.15 J	0.915 J		0.916 J	1.15 J	1.1 J	0.964 J	0.863 J		1.14 J	1.24 J	0.753 J	1.08 J		1.38 J
Vanadium	mg/kg	NS	29.3	43.8	27.2		27	87	32.6	24.1	27.1		30.5	69.4	8.23	29		26.8
Zinc	mg/kg	10000	87.1	96.4	84.3		62.8	118	85.3	68.2	59.2		81.2	111	21.3	95.4		64.6
OTHER																		
Chloride	mg/kg	NS	5.8 U	20.2 J	6.2 U		6.5 U	10.4 U	7.7 U	5.8 U	5.7 U		6.1 U	7.5 U	5.9 U	6.4 U		6.6 U
Sulfate	mg/kg	NS	5.8 U	11.2 J	6.2 U		31.1 UJ	31.1 U	28.6 U	30.7 UJ	20.9 UJ		18.4 UJ	22.6 UJ	17.8 UJ	6.4 U		19.8 UJ
Moisture	%	NS	14	22.9	19.4	29.1	23.7	52	36	14.2	13	32.2	19.7	34.8	16.8	23.3	36	25.6
Notes																		
ug/Kg = micrograms per kilogram																		
mg/Kg = milligrams per kilogram																		
NS = No Standard																		
J = Estimated Result																		
R = Rejected Result																		
U = Non Detect Result																		
UJ = Estimated Non Detect Result																		

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-106(0-2)	UDPSB-6(0-2ft)	UDPSB-6(0-2in)	UDPSB-6(2-6)	UDPSB-6(6-12)	UDPSB-6(8-10)	UDPSB-107(20-22)	UDPSB-7(0-2ft)	UDPSB-7(0-2in)	UDPSB-7(2-6)	UDPSB-7(20-22)	UDPSB-7(6-12)	UDPSB-8(0-2)	UDPSB-8(0-2ft)	UDPSB-8(10-12)	UDPSB-8(2-6)
		Location	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-08	UDPSB-08	UDPSB-08	UDPSB-08
		Sample Depth	0-2 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	0.5-1 Ft	8-10 Ft	20-22 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	20-22 Ft	0.5-1 Ft	0-0.16 Ft	10-12 Ft	0.16-0.5 Ft	
		Sample Date	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/21/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/17/2012	5/18/2012	5/17/2012	
		SDG	1311706	1311706	1311706	1311706	1311706	1311706	1311695	1310207	1310207	1310207	1310207	1310207	1310206	1310207	1310207	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/Kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/kg	480000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/kg	60000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/Kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	5 U	6 U	330 U	5 U	5 U	4 U	5 U	5 U	5 U	5 U	5 U	220 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/Kg	NS	4 U	5 U	250 U	3 U	4 U	3 U	3 U	3 U	4 U	3 U	4 U	170 U	4 U	4 U	3 U	4 U
4-Methyl-2-pentanone	ug/Kg	NS	4 U	5 U	250 U	3 U	4 U	3 U	3 U	3 U	4 U	3 U	4 U	170 U	4 U	4 U	3 U	4 U
Acetone	ug/kg	1000000	8 U	11 U	580 U	8 U	10 U	22	15 J	17 J	9 U	8 U	12 J	390 U	100 J	9 U	22 J	25 J
Benzene	ug/kg	89000	0.6 U	0.8 U	41 U	0.6 U	0.7 U	0.5 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	28 U	0.6 U	0.6 U	0.6 U	0.6 U
Bromodichloromethane	ug/Kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Bromoform	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Bromomethane	ug/Kg	NS	2 U	3 U	160 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	110 U	2 U	2 U	2 U	2 U
Carbon Disulfide	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/kg	44000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Chloroethane	ug/Kg	NS	2 U	3 U	160 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	110 U	2 U	2 U	2 U	2 U
Chloroform	ug/kg	700000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Chloromethane	ug/Kg	NS	2 U	3 U	160 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	110 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/kg	780000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Ethyl-t-butylether	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/kg	1000000	2 U	3 U	160 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	3 U	110 U	2 U	2 U	2 U	2 U
Methyl-t-butyl ether	ug/kg	1000000	0.6 U	0.8 U	41 U	0.6 U	0.7 U	0.5 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	28 U	0.6 U	0.6 U	0.6 U	0.6 U
Styrene	ug/Kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Tertiary Butyl Alcohol	ug/Kg	NS	24 U	31 U	1600 U	23 U	27 U	22 U	23 U	25 U	23 U	26 U	1100 U	25 U	24 U	23 U	24 U	24 U
Tetrachloroethene	ug/kg	300000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Toluene	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/Kg	NS	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/kg	400000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/kg	27000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/kg	1000000	1 U	2 U	82 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	56 U	1 U	1 U	1 U	1 U
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/Kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
1,2-Dichlorobenzene	ug/kg	1000000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
1,3-Dichlorobenzene	ug/kg	560000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
1,4-Dichlorobenzene	ug/kg	250000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2,4,5-Trichlorophenol	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2,4,6-Trichlorophenol	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2,4-Dichlorophenol	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2,4-Dimethylphenol	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2,4-Dinitrophenol	ug/kg	NS	350 U	450 U	480 U	360 U	410 U	340 U	350 U	350 U	410 U	340 U	360 U	340 U	380 U	380 U	340 U	360 U
2,4-Dinitrotoluene	ug/Kg	NS	78 U	100 U	110 U	79 U	90 U	75 U	78 U	78 U	91 U	76 U	81 U	75 U	84 U	84 U	76 U	80 U
2,6-Dinitrotoluene	ug/Kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2-Chloronaphthalene	ug/kg	NS	8 U	10 U	11 U	8 U	9 U	8 U	8 U	8 U	10 U	8 U	8 U	8 U	9 U	9 U	8 U	8 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2-Methyl-naphthylene	ug/kg	NS	4 U	5 U	17 J	9 J	5 U	4 U	4 U	4 U	23	24	4 U	4 U	14 J	11 J	4 U	4 U
2-Methylphenol (o-Cresol)	ug/kg	1000000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
3,3'-Dichlorobenzidine	ug/kg	NS	120 U	150 U	160 U	120 U	140 U	110 U	120 U	120 U	140 U	110 U	120 U	110 U	130 U	130 U	110 U	120 U
3-Nitroaniline	ug/kg	NS	78 U	100 U	110 U	79 U	90 U	75 U	78 U	78 U	91 U	76 U	81 U	75 U	84 U	84 U	76 U	80 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	190 U	250 U	260 U	200 U	230 U	190 U	190 U	190 U	230 U	190 U	200 U	190 U	210 U	210 U	190 U	200 U
4-Bromophenylphenylether	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
4-Chloroaniline	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
4-Chlorophenyl phenyl ether	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
4-Nitroaniline	ug/kg	NS	78 U	100 U	110 U	79 U	90 U	75 U	78 U	78 U	91 U	76 U	81 U	75 U	84 U	84 U	76 U	80 U
4-Nitrophenol	ug/kg	NS	190 U	250 U	260 U	200 U	230 U	190 U	190 U	190 U	230 U	190 U	200 U	190 U	210 U	210 U	190 U	200 U
Acenaphthene	ug/kg	1000000	4 U	5 U	5 U	6 J	5 U	4 U	4 U	4 U	5 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Acenaphthylene	ug/kg	1000000	4 U	5 U	10 J	10 J	5 U	4 U	4 U	4 U	14 J	9 J	4 U	4 U	8 J	9 J	4 U	4 U
Anthracene	ug/kg	1000000	4 U	5 U	14 J	11 J	5 U	4 U	4 U	4 U	12 J	9 J	4 U	4 U	8 J	8 J	4 U	4 U
Benzo(a)anthracene	ug/kg	11000	16 J	5 J	30	30	5 U	4 U	4 U	5 J	49	32	4 U	4 U	31	37	4 U	10 J
Benzo(a)Pyrene	ug/kg	1100	15 J	6 J	48	22	5 U	4 U	4 U	4 U	57	32	4 U	4 U	36	40	4 U	12 J
Benzo(b)Fluoranthene	ug/kg	11000	23	5 U	84	33	5 U											

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-106(0-2)	UDPSB-6(0-2ft)	UDPSB-6(0-2in)	UDPSB-6(2-6)	UDPSB-6(6-12)	UDPSB-6(8-10)	UDPSB-107(20-22)	UDPSB-7(0-2ft)	UDPSB-7(0-2in)	UDPSB-7(2-6)	UDPSB-7(20-22)	UDPSB-7(6-12)	UDPSB-8(0-2)	UDPSB-8(0-2ft)	UDPSB-8(10-12)	UDPSB-8(2-6)
		Location	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-06	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-07	UDPSB-08	UDPSB-08	UDPSB-08	UDPSB-08
		Sample Depth	0-2 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	0.5-1 Ft	8-10 Ft	20-22 Ft	0-2 Ft	0-0.16 Ft	0.16-0.5 Ft	20-22 Ft	0.5-1 Ft	0-0.16 Ft	0-2 Ft	10-12 Ft	0.16-0.5 Ft
		Sample Date	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/21/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012	5/21/2012	5/18/2012	5/17/2012	5/18/2012	5/18/2012	5/17/2012
		SDG	1311706	1311706	1311706	1311706	1311706	1311706	1311695	1310207	1310207	1310207	1311695	1310207	1310206	1310207	1310207	1310206
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
		6 NYCRR Part 375-6.8(b) Industrial																
Parameter Name	Units																	
Indeno(1,2,3-cd)pyrene	ug/kg	11000	9 J	5 U	34	17 J	5 U	4 U	4 U	4 J	45	22	4 U	4 U	27	32	4 U	11 J
Isophorone	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	23 U	19 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
Naphthalene	ug/kg	1000000	7 J	5 U	20 J	10 J	5 U	4 U	4 U	4 U	24	18 J	4 U	4 U	15 J	12 J	4 U	5 J
Nitrobenzene	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
N-Nitrosodi-n-propylamine	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
p-Chloro-m-cresol	ug/kg	NS	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
p-Cresol	ug/kg	1000000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	23 U	19 U	20 U	19 U	21 U	21 U	19 U	20 U
Pentachlorophenol	ug/kg	55000	39 U	50 U	53 U	40 U	45 U	37 U	39 U	39 U	46 U	38 U	40 U	37 U	42 U	42 U	38 U	40 U
Phenanthrene	ug/kg	1000000	19 J	5 J	65	32	5 U	4 U	5 J	7 J	72	51	8 J	4 U	52	51	4 U	12 J
Phenol	ug/kg	1000000	19 U	25 U	27 U	20 U	23 U	19 U	19 U	19 U	180	600	20 U	19 U	21 U	30 J	19 U	39 J
Pyrene	ug/Kg	1000000	29	9 J	95	40	5 U	4 U	5 J	9 J	100	74	7 J	6 J	85	82	5 J	24
METALS																		
Aluminum	mg/kg	NS	16800	27800	23700	21700	22400	18100	9670	22500	19200	15800	13800	21200	18500	19200	21500	19500
Antimony	mg/Kg	NS	0.756 U	0.97 U	1.02 U	0.755 U	0.877 U	0.728 U	0.767 U	1.47 J	1.27 J	0.751 U	0.833 J	1.02 J	0.806 U	1.27 J	1.25 J	1.05 J
Arsenic	mg/kg	16	5.27	9.15	10.1	6.17	6.84	6.37	8.45	4.57	8.21	6.7	9.75	4.12	4.74	8.29	6.09	6.87
Barium	mg/kg	10000	64.2	119	115	87.2	91.9	73.5	35	53.9	90.5	64.4	49.7	50.8	85.1 J	82	86.7	80 J
Beryllium	mg/kg	2700	0.865 J	1.6 J	1.34 J	1.11 J	1.2 J	0.884 J	0.474 J	0.702	0.875	0.608	0.71	0.697	0.794	0.863	0.964	0.929
Cadmium	mg/kg	60	0.115 J	0.168 J	0.366 J	0.209 J	0.165 J	0.0871 J	0.438 J	0.578 U	0.686 U	0.569 U	0.565 J	0.557 U	0.753	0.617 U	0.566 U	0.36 J
Calcium	mg/kg	NS	3500 J	3180 J	4190 J	12100 J	7340 J	986 J	68200	1350	7720	47800	50900	1790	2630	2020	1400	2470
Chromium	mg/Kg	NS	18.8	31.3	27.4	25.2	25	20.3	12.4	22.2	19.1	14.7	16.1	20	23.2	23.8	22.9	
Cobalt	mg/kg	NS	12	25.9	17.4	14	14.5	12.2	6.6	12.3	9.29	6.07	8.75	13.6	13.1 J	13.4	16.6	13.1 J
Copper	mg/kg	10000	24.7	41.6	39.6	34.5	36.1	29.1	16.1	21.9	25.7	16.4	24	18.9	30.2	33.7	35	36.1
IRON	mg/kg	NS	30100	53500	40000	39700	37100	35000	20200	30200	27400	17800	27500	26700	33800	32000	35100	32900
Lead	mg/kg	3900	15.4	30.9	47.8	21.2	17.4	15.1	9.08	13.5	47.3	28.1	12.3	11.9	45.2 J	31.9	15.6	21.1 J
Magnesium	mg/kg	NS	6030	8630	7780	9340	9130	6670	47500	6610	7070	29300	34500	5800	6260	6560	6880	6920
Manganese	mg/kg	10000	583	1760	957	582	665	834	536	390	676	391	682	345	999 J	742	824	672 J
Mercury	mg/kg	5.7	0.0862 J	0.134 J	0.239	0.0786 J	0.0799 J	0.0174 J	0.012 J	1.1	0.904	0.769	0.0119 J	0.132	0.286	0.384	0.0192 J	0.166
Nickel	mg/kg	10000	26.3	42.2	39.6	34.1	32.7	27	13.7	24	26.3	16.9	19	21.4	29.9	28.3	31.7	28.4
Potassium	mg/kg	NS	2130	3090	3890	3290	3360	2310	1480	1710	1970	1550	2000	1440	2330	2610	2940	2990
Selenium	mg/kg	6800	0.991 J	1.7 J	1.32 J	0.777 U	1.56 J	1.47 J	1.32 J	0.787 U	1.21 J	0.826 J	1.23 J	0.757 U	0.83 U	0.839 U	0.77 U	1.04 J
Silver	mg/kg	6800	0.0951 U	0.122 U	0.128 U	0.0949 U	0.11 U	0.0915 U	0.0965 U	0.096 U	0.114 U	0.0944 U	0.127 J	0.0924 U	0.336 J	0.102 U	0.094 U	0.0989 U
Sodium	mg/kg	NS	48.2 J	66.4 J	76.7 J	69.1 J	72 J	49.4 J	78.2 J	40.3 J	49.6 J	65.6 J	71.1 J	37.5 J	48.1 J	50.6 J	60.7 J	59.7 J
Thallium	mg/Kg	NS	0.81 J	1.49 J	1.48 J	0.619 J	1.03 J	0.686 J	0.418 U	1.95 J	0.588 J	0.423 J	0.432 U	1.77 J	0.44 U	1.93 J	3.35 J	2.46 J
Vanadium	mg/kg	NS	25.5	39.3	58.8	33.4	30.8	22.5	15.9	26.7	60.5	36.1	21.4	24.7	44.4	39.3	27	31.6
Zinc	mg/kg	10000	71.3	102	113	86	88.2	71.2	44.2	69	120	69.2	63	61.3	88.9	92.2	88.9	84
OTHER																		
Chloride	mg/kg	NS	5.7 U	7.5 U	7.9 U	5.9 U	6.7 U	5.6 U	5.8 U	5.8 U	6.8 U	5.6 U	5.9 U	5.6 U	16.3 J	6.2 U	5.7 U	14.5
Sulfate	mg/kg	NS	5.7 U	7.5 U	7.9 U	5.9 U	6.7 U	5.6 U	5.8 U	8.5 J	44.2	9.8 J	5.9 U	5.6 U	17.4 J	27.3	16.1 J	16.4 J
Moisture	%	NS	14.4	33.3	37.1	15.9	26.2	11.1	14.8	14.4	27.1	12.1	17.5	11.1	20.5	20.5	12.6	16.9
Notes																		
ug/Kg = micrograms per kilogram																		
mg/Kg = milligrams per kilogram																		
NS = No Standard																		
J = Estimated Result																		
R = Rejected Result																		
U = Non Detect Result																		
UJ = Estimated Non Detect Result																		

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-8(6-12)	UDPSB-9(0-2)	UDPSB-9(2-6)	UDPSB-9(4-6)	UDPSB-9(6-12)	UDPSB-10(0-2ft)	UDPSB-10(0-2in)	UDPSB-10(16-18)	UDPSB-10(2-6)	UDPSB-10(6-12)	UDPSB-10(16-18)	UDPSB-11(0-2ft)	UDPSB-11(0-2in)	UDPSB-11(10-12)	UDPSB-11(2-6)	UDPSB-11(6-12)
		Location	UDPSB-08	UDPSB-09	UDPSB-09	UDPSB-09	UDPSB-09	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-11	UDPSB-11	UDPSB-11	UDPSB-11	UDPSB-11
		Sample Depth	0.5-1 Ft	0-0.16 Ft	0.16-0.5 Ft	4-6 Ft	0.5-1 Ft	0-2 Ft	0-0.16 Ft	16-18 Ft	0.16-0.5 Ft	0.5-1 Ft	16-18 Ft	0-2 Ft	0-0.16 Ft	10-12 Ft	0.16-0.5 Ft	0.5-1 Ft
		Sample Date	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012
		SDG	1310207	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field Duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/kg	480000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/kg	60000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	4 U	5 U	5 U	5 U	10 J	5 U	5 U	5 U	260 U	5 U	5 U	5 U	6 U	5 U	5 U	5 U
2-Hexanone	ug/kg	NS	3 U	4 U	4 U	4 U	3 U	4 U	4 U	4 U	190 U	3 U	3 U	4 U	5 U	3 U	4 U	4 U
4-Methyl-2-pentanone	ug/kg	NS	3 U	4 U	4 U	4 U	3 U	4 U	4 U	4 U	190 U	3 U	3 U	4 U	5 U	3 U	4 U	4 U
Acetone	ug/kg	1000000	20 J	70 J	58 J	67 J	200 J	9 U	15 J	48 J	450 U	18 J	31 J	34 J	57 J	34 J	9 U	24 J
Benzene	ug/kg	89000	0.5 U	0.7 U	0.6 U	0.7 U	0.6 U	0.6 U	0.7 U	0.6 U	32 U	0.6 U	0.6 U	0.6 U	0.8 U	0.6 U	0.6 U	0.6 U
Bromodichloromethane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Bromoform	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Bromomethane	ug/kg	NS	2 U	3 U	2 U	2 U	3 U	2 U	3 U	2 U	130 U	2 U	2 U	2 U	3 U	2 U	3 U	2 U
Carbon Disulfide	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/kg	44000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chlorobenzene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloroethane	ug/kg	NS	2 U	3 U	2 U	2 U	3 U	2 U	3 U	2 U	130 U	2 U	2 U	2 U	3 U	2 U	3 U	2 U
Chloroform	ug/kg	700000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloromethane	ug/kg	NS	2 U	3 U	2 U	2 U	3 U	2 U	3 U	2 U	130 U	2 U	2 U	2 U	3 U	2 U	3 U	2 U
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Dibromochloromethane	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Diisopropyl ether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Ethylbenzene	ug/kg	780000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Ethyl-t-butylether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Methylene chloride	ug/kg	1000000	2 U	3 U	2 U	5 J	3 U	8	3 U	2 U	130 U	2 J	9	2 U	3 U	2 J	3 U	5 J
Methyl-t-butyl ether	ug/kg	1000000	0.5 U	0.7 U	0.6 U	0.6 U	0.7 U	0.6 U	0.7 U	0.6 U	32 U	0.6 U	0.6 U	0.6 U	0.8 U	0.6 U	0.6 U	0.6 U
Styrene	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Tertiary Butyl Alcohol	ug/kg	NS	22 U	27 U	24 U	23 U	28 U	25 U	27 U	24 U	1300 U	23 U	23 U	24 U	31 U	23 U	25 U	24 U
Tetrachloroethene	ug/kg	300000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Toluene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/kg	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Trichloroethene	ug/kg	400000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Vinyl chloride	ug/kg	27000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
Xylenes, Total	ug/kg	1000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	65 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
1,2-Dichlorobenzene	ug/kg	1000000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
1,3-Dichlorobenzene	ug/kg	560000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
1,4-Dichlorobenzene	ug/kg	250000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2,4,5-Trichlorophenol	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2,4,6-Trichlorophenol	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2,4-Dichlorophenol	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2,4-Dimethylphenol	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2,4-Dinitrophenol	ug/kg	NS	340 U	390 U	360 U	350 U	400 U	380 U	400 U	360 U	390 U	350 U	350 U	350 U	430 U	340 U	370 U	350 U
2,4-Dinitrotoluene	ug/kg	NS	76 U	87 U	80 U	78 U	90 U	85 U	90 U	80 U	87 U	77 U	77 U	79 U	95 U	76 U	82 U	77 U
2,6-Dinitrotoluene	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2-Chloronaphthalene	ug/kg	NS	8 U	9 U	8 U	8 U	9 U	8 U	9 U	8 U	9 U	8 U	8 U	10 U	8 U	9 U	8 U	8 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2-Methyl-naphthalene	ug/kg	NS	4 U	7 J	4 J	4 U	4 U	13 J	4 U	4 U	10 J	4 U	4 U	4 U	21 J	4 U	21	4 U
2-Methylphenol (o-Cresol)	ug/kg	1000000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
3,3'-Dichlorobenzidine	ug/kg	NS	110 U	130 U	120 U	120 U	130 U	130 U	130 U	120 U	130 U	120 U	120 U	120 U	140 U	110 U	120 U	120 U
3-Nitroaniline	ug/kg	NS	76 U	87 U	80 U	78 U	90 U	85 U	90 U	80 U	87 U	77 U	77 U	79 U	95 U	76 U	82 U	77 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	190 U	220 U	200 U	190 U	220 U	210 U	220 U	200 U	220 U	190 U	190 U	200 U	240 U	190 U	210 U	190 U
4-Bromophenylphenylether	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
4-Chloroaniline	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
4-Chlorophenyl phenyl ether	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	22 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U
4-Nitroaniline	ug/kg	NS	76 U	87 U	80 U	78 U	90 U	85 U	90 U	80 U	87 U	77 U	77 U	79 U	95 U	76 U	82 U	77 U
4-Nitrophenol	ug/kg	NS	190 U	220 U	200 U	190 U	220 U	210 U	220 U	200 U	220 U	190 U	190 U	200 U	240 U	190 U	210 U	190 U
Acenaphthene	ug/kg	1000000	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	5 U	4 U	4 U	4 U
Acenaphthylene	ug/kg	1000000	4 U	12 J	6 J	4 U	6 J	15 J	21 J	4 U	8 J	4 U	4 U	4 U	36	4 U	4 U	4 U
Anthracene	ug/kg	1000000	4 U	14 J	7 J	4 U	5 J	5 J	28	4 U	10 J	4 U	4 U	5 J	48	4 J	7 J	4 U
Benzo(a)anthracene	ug/kg	11000	4 U	41	23	4 U	9 J	23	43	4 U	25	4 U	4 U	6 J	93	7 J	19 J	4 U
Benzo(a)Pyrene	ug/kg	1100	4 U	45	24	4 U	8 J	23	46	4 U	23	4 U	4 U	5 J	97	5 J	19 J	4 U
Benzo(b)Fluoranthene	ug/kg	11000	4 U	72	34	4 U	10 J	33	66	4 U	37							

Table 1 OU-4 Soils Analytical Data Results																				
		Field Sample ID	UDPSB-8(6-12)	UDPSB-9(0-2)	UDPSB-9(2-6)	UDPSB-9(4-6)	UDPSB-9(6-12)	UDPSB-10(0-2ft)	UDPSB-10(0-2in)	UDPSB-10(16-18)	UDPSB-10(2-6)	UDPSB-10(6-12)	UDPSB-10(16-18)	UDPSB-11(0-2ft)	UDPSB-11(0-2in)	UDPSB-11(10-12)	UDPSB-11(2-6)	UDPSB-11(6-12)		
		Location	UDPSB-08	UDPSB-09	UDPSB-09	UDPSB-09	UDPSB-09	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-10	UDPSB-11	UDPSB-11	UDPSB-11	UDPSB-11	UDPSB-11		
		Sample Depth	0.5-1 Ft	0-0.16 Ft	0.16-0.5 Ft	4-6 Ft	0.5-1 Ft	0-2 Ft	0-0.16 Ft	16-18 Ft	0.16-0.5 Ft	0.5-1 Ft	16-18 Ft	0-2 Ft	0-0.16 Ft	10-12 Ft	0.16-0.5 Ft	0.5-1 Ft		
		Sample Date	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/17/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012		
		SDG	1310207	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206	1310206		
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring		
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																		
		Indeno(1,2,3-cd)pyrene	ug/kg	11000	4 U	32	18 J	4 U	5 J	14 J	31	4 U	17 J	4 U	4 U	70	4 J	13 J	4 U	
		Isophorone	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		Naphthalene	ug/kg	1000000	4 U	11 J	5 J	4 U	4 U	11 J	22 J	4 U	11 J	4 U	4 U	38	4 U	17 J	4 U	
		Nitrobenzene	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		N-Nitrosodi-n-propylamine	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		N-Nitrosodiphenylamine	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		p-Chloro-m-cresol	ug/kg	NS	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		p-Cresol	ug/kg	1000000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		Pentachlorophenol	ug/kg	55000	38 U	44 U	40 U	39 U	45 U	43 U	45 U	40 U	39 U	39 U	39 U	48 U	38 U	41 U	39 U	
		Phenanthrene	ug/kg	1000000	6 J	70	33	4 U	27	36	130	8 J	47	8 J	7 J	20	210	21	36	4 U
		Phenol	ug/kg	1000000	19 U	22 U	20 U	19 U	22 U	21 U	22 U	20 U	19 U	19 U	20 U	24 U	19 U	21 U	19 U	
		Pyrene	ug/Kg	1000000	7 J	99	49	4 U	25	42	110	6 J	53	6 J	8 J	15 J	220	21	4 U	4 U
		METALS																		
Aluminum	mg/kg	NS	18300	16800	13200	20100	30200	22600	18900	9540	19900	20600	3750	23400	17400	16400	20900	23100		
Antimony	mg/Kg	NS	0.828 J	0.837 U	0.78 U	0.869 J	0.887 U	0.836 U	0.862 U	0.777 U	0.839 U	0.927 J	0.758 U	0.749 U	0.943 U	0.752 U	0.789 U	0.757 U		
Arsenic	mg/kg	16	6.23	7.6	6.11	2.98	3.46	5.17	6.14	6.76	6.58	2.91	5.99	2.47	7.63	3.88	5.46	1.5 J		
Barium	mg/kg	10000	74.7	76.7 J	52.6 J	78.6 J	76.1 J	71.5 J	73.2 J	40.3 J	74 J	58.6 J	16.8 J	54.5 J	70.4 J	59.5 J	68.7 J	49.9 J		
Beryllium	mg/kg	2700	0.769	0.729	0.553 J	0.859	0.962	0.695	0.659	0.581 J	0.71	0.708	0.129 J	0.714	0.597 J	0.601	0.642	0.72		
Cadmium	mg/kg	60	0.548 U	0.631 J	0.478 J	0.576	0.538 J	0.346 J	0.512 J	0.426 J	0.553 J	0.488 J	0.0976 J	0.473 J	0.669 J	0.618	0.407 J	0.544 J		
Calcium	mg/kg	NS	3570	2450	1130	635 J	4030	3490	103000	2000	798	165000	721	6300	41200	2790	810			
Chromium	mg/Kg	NS	19	23.7	16.2	22.1 J	27.4	19.5	18.6	12.4	18.9	20.6	6.71	22.5	17.1	19.9	18.6	22.7		
Cobalt	mg/kg	NS	12.9	9.43 J	7.24 J	10.9 J	14.8 J	7.31 J	7.69 J	3.14 J	7.9 J	10.7 J	1.81 J	11.3 J	6.28 J	8.9 J	6.73 J	10.3 J		
Copper	mg/kg	10000	35.6	25	17.4	32.3	26.4	11.8	17.7	12.6	17.1	23.8	4.38	14.7	28.3	12.7	20.6			
IRON	mg/kg	NS	28000	27500	22300	33100	38500	24700	25200	17500	25800	29400	31700	19900	30200	23900	33700			
Lead	mg/kg	3900	12	35.1 J	19.8 J	16.1 J	18.9 J	16.8 J	28.6 J	7.38 J	31.6 J	13.9 J	3.5 J	12.4 J	44.2 J	16.2 J	24.3 J	14.9 J		
Magnesium	mg/kg	NS	7140	4940	3760	6050	6570	5610	4980	58400	4570	5630	94900	6160	5080	29400	4790	6590		
Manganese	mg/kg	10000	686	625 J	401 J	649 J	554 J	285 J	411 J	548 J	401 J	539 J	305 J	406 J	456 J	693 J	318 J	389 J		
Mercury	mg/kg	5.7	0.0603 J	0.24	0.228	0.0328 J	0.145	0.307	0.352	0.0083 U	0.814	0.0485 J	0.0079 U	0.0081 U	0.471	0.0406 J	0.384	0.0562 J		
Nickel	mg/kg	10000	23.9	23.8	19.6	24.5	26.8	17.3	19.7	11.3	19.6	21.1	5.29	22.2	21.1	22.3	18.4	23.8		
Potassium	mg/kg	NS	2670	2360	1360	2630 J	2010	1300	1680	1920	1470	2070	861	1930	1320	2230	1310	1640		
Selenium	mg/kg	6800	0.745 U	0.862 U	0.803 U	0.768 U	0.914 U	0.861 U	0.889 U	0.8 U	0.864 U	0.782 U	0.781 U	0.772 U	0.971 U	0.774 U	0.813 U	0.78 U		
Silver	mg/kg	6800	0.0909 U	0.298 J	0.252 J	0.21 J	0.216 J	0.142 J	0.152 J	0.265 J	0.239 J	0.182 J	0.0953 U	0.156 J	0.299 J	0.175 J	0.204 J	0.185 J		
Sodium	mg/kg	NS	53.9 J	46.3 J	37.5 J	51.7 J	40.9 J	47.8 J	42.9 J	121	39.2 J	41.5 J	155	40.4 J	38.7 J	75.8 J	39.1 J	39.8 J		
Thallium	mg/Kg	NS	2.25 J	0.456 U	0.425 U	0.406 U	0.484 U	0.456 U	0.47 U	0.424 U	0.457 U	0.414 U	0.413 U	0.409 U	0.514 U	0.41 U	0.43 U	0.413 U		
Vanadium	mg/kg	NS	24.2	44.8	26.3	28.5	35.4	33.5	40.2	22.5	41.4	26.8	11.9	28.5	56.3	22	37.6	28		
Zinc	mg/kg	10000	69.5	77.2	64.1	71.6	75	66.6	96.6	40.8	84.3	59.7	16.8	65.1	80.5	60.6	67.3	65.8		
OTHER																				
Chloride	mg/kg	NS	14.4	6.5 U	5.9 U	5.8 U	6.7 U	6.4 U	6.6 U	5.9 U	6.5 U	5.8 U	5.7 U	5.8 U	7 U	5.7 U	6 U	5.8 U		
Sulfate	mg/kg	NS	10.4 J	16.4 J	8.9 J	21.8 J	10 J	7.4 J	15.1 J	17.1 J	6.5 U	5.8 U	11.7 J	5.8 U	7 U	22	6.4 J	5.8 U		
Moisture	%	NS	12.2	23.4	17	14	25.6	21.8	25.7	16.7	23.6	13.9	13.8	15.3	30	12.2	18.8	13.7		
Notes																				
ug/Kg = micrograms per kilogram																				
mg/Kg = milligrams per kilogram																				
NS = No Standard																				
J = Estimated Result																				
R = Rejected Result																				
U = Non Detect Result																				
UJ = Estimated Non Detect Result																				

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-12(0-2)	UDPSB-12(2-4)	UDPSB-12(2-6)	UDPSB-12(6-12)	UDPSB-13(0-2)	UDPSB-13(12-13.7)	UDPSB-13(2-6)	UDPSB-13(6-12)	UDPSB-14(0-2)	UDPSB-14(10-11.9)	UDPSB-14(2-6)	UDPSB-14(6-12)	UDPSB-15(0-2)	UDPSB-15(16-16.4)	UDPSB-15(2-6)	UDPSB-15(6-12)
		Location	UDPSB-12	UDPSB-12	UDPSB-12	UDPSB-12	UDPSB-13	UDPSB-13	UDPSB-13	UDPSB-13	UDPSB-14	UDPSB-14	UDPSB-14	UDPSB-14	UDPSB-15	UDPSB-15	UDPSB-15	UDPSB-15
		Sample Depth	0-0.16 Ft	2-4 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	12-13.7 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	10-11.9 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	16-16.4 Ft	0.16-0.5 Ft	0.5-1 Ft
		Sample Date	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012
		SDG	1310206	1310206	1310206	1310206	1311695	1311695	1311695	1311695	1311695	1311695	1311695	1311695	1311704	1311704	1311704	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
1,1,1-Trichloroethane	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	2 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
1,1,2-Trichloroethane	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/kg	480000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/kg	60000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	7 U	4 U	6 U	5 U	5 U	5 U	5 U	5 U	15 U	5 U	6 U	4 U	5 U	4 U	5 U	5 U
2-Hexanone	ug/Kg	NS	5 U	3 U	4 U	3 U	4 U	4 U	4 U	4 U	11 U	4 U	4 U	3 U	4 U	3 U	4 U	4 U
4-Methyl-2-pentanone	ug/Kg	NS	5 U	3 U	4 U	3 U	4 U	4 U	4 U	4 U	11 U	4 U	4 U	3 U	4 U	3 U	4 U	4 U
Acetone	ug/kg	1000000	19 J	23 J	67 J	19 J	9 U	9 U	8 U	9 U	130	9 U	10 U	8 U	9 U	8 U	9 U	10 U
Benzene	ug/kg	89000	0.9 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	2 U	0.6 U	0.7 U	0.5 U	0.6 U	0.5 U	0.6 U	0.7 U
Bromodichloromethane	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/Kg	NS	3 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U	7 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U
Carbon Disulfide	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	2 J
Carbon Tetrachloride	ug/kg	44000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/Kg	NS	3 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U	7 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U
Chloroform	ug/kg	700000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/Kg	NS	3 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U	7 U	2 U	3 U	2 U	2 U	3 U	2 U	3 U
cis-1,2-Dichloroethene	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl ether	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/kg	780000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl-t-butylether	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/kg	1000000	3 U	2 U	3 U	2 U	2 U	3 U	5 J	3 U	25	7	3 U	2 J	2 U	9	10	3 U
Methyl-t-butyl ether	ug/kg	1000000	0.9 U	0.6 U	0.7 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	2 U	0.6 U	0.7 U	0.5 U	0.6 U	0.5 U	0.6 U	0.7 U
Styrene	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tertiary Butyl Alcohol	ug/Kg	NS	35 U	22 U	28 U	23 U	25 U	26 U	24 U	26 U	74 U	25 U	28 U	22 UJ	25 U	22 UJ	26 U	27 U
Tetrachloroethene	ug/kg	300000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/Kg	NS	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/kg	400000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/kg	27000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	ug/kg	1000000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES																		
1,2,4-Trichlorobenzene	ug/Kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
1,2-Dichlorobenzene	ug/kg	1000000	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
1,3-Dichlorobenzene	ug/kg	560000	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
1,4-Dichlorobenzene	ug/kg	250000	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2,4,5-Trichlorophenol	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2,4,6-Trichlorophenol	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2,4-Dichlorophenol	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2,4-Dimethylphenol	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2,4-Dinitrophenol	ug/kg	NS	480 U	340 U	420 U	370 U	360 U	390 U	380 U	350 U	1200 U	380 U	400 U	340 U	360 U	410 U	390 U	
2,4-Dinitrotoluene	ug/kg	NS	110 U	76 U	93 U	83 U	81 U	87 U	84 U	79 U	260 U	85 U	90 U	77 U	80 U	76 U	92 U	87 U
2,6-Dinitrotoluene	ug/Kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2-Chloronaphthalene	ug/kg	NS	11 U	8 U	10 U	9 U	8 U	9 U	8 U	8 U	27 U	9 U	8 U	8 U	8 U	10 U	9 U	
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2-Methyl-naphthalene	ug/kg	NS	29	4 U	8 J	7 J	32	4 U	16 J	7 J	52 J	4 U	27	17 J	250	4 U	430	22
2-Methylphenol (o-Cresol)	ug/kg	1000000	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
3,3'-Dichlorobenzidine	ug/kg	NS	160 U	110 U	140 U	120 U	120 U	130 U	130 U	120 U	390 U	130 U	130 U	110 U	120 U	140 U	130 U	
3-Nitroaniline	ug/kg	NS	110 U	76 U	93 U	83 U	81 U	87 U	84 U	79 U	260 U	85 U	90 U	77 U	80 U	76 U	92 U	87 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	270 U	190 U	230 U	210 U	200 U	220 U	210 U	200 U	650 U	210 U	220 U	190 U	200 U	190 U	230 U	220 U
4-Bromophenylphenylether	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
4-Chloroaniline	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
4-Chlorophenyl phenyl ether	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
4-Nitroaniline	ug/kg	NS	110 U	76 U	93 U	83 U	81 U	87 U	84 U	79 U	260 U	85 U	90 U	77 U	80 U	76 U	92 U	87 U
4-Nitrophenol	ug/kg	NS	270 U	190 U	230 U	210 U	200 U	220 U	210 U	200 U	650 U	210 U	220 U	190 U	200 U	190 U	230 U	220 U
Acenaphthene	ug/kg	1000000	8 J	4 U	5 U	4 U	4 U	4 U	13 J	4 U	59 J	4 U	4 U	4 U	4 U	6 J	4 U	
Acenaphthylene	ug/kg	1000000	50	4 U	18 J	16 J	13 J	4 U	10 J	4 U	30 J	4 U	10 J	4 U	17 J	4 U	22 J	4 U
Anthracene	ug/kg	1000000	63	4 U	22 J	22	13 J	4 U	23	4 U	160	4 U	12 J	4 U	15 J	4 U	25	5 J
Benzo(a)anthracene	ug/kg	11000	130	4 U	44	27	43	4 U	48	9 J	320	4 U	39	10 J	54	4 U	89	21 J
Benzo(a)Pyrene	ug/kg	1100	160	4 U	45	24	43	4 U	50	13 J	260	4 U	45	12 J	47	4 U	74	17 J
Benzo(b)Fluoranthene	ug/kg	11000	190	4 U	58	29	60	4 U	61	14 J	360							

Table 1 OU-4 Soils Analytical Data Results																		
		Field Sample ID	UDPSB-12(0-2)	UDPSB-12(2-4)	UDPSB-12(2-6)	UDPSB-12(6-12)	UDPSB-13(0-2)	UDPSB-13(12-13.7)	UDPSB-13(2-6)	UDPSB-13(6-12)	UDPSB-14(0-2)	UDPSB-14(10-11.9)	UDPSB-14(2-6)	UDPSB-14(6-12)	UDPSB-15(0-2)	UDPSB-15(16-16.4)	UDPSB-15(2-6)	UDPSB-15(6-12)
		Location	UDPSB-12	UDPSB-12	UDPSB-12	UDPSB-12	UDPSB-13	UDPSB-13	UDPSB-13	UDPSB-13	UDPSB-14	UDPSB-14	UDPSB-14	UDPSB-14	UDPSB-15	UDPSB-15	UDPSB-15	UDPSB-15
		Sample Depth	0-0.16 Ft	2-4 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	12-13.7 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	10-11.9 Ft	0.16-0.5 Ft	0.5-1 Ft	0-0.16 Ft	16-16.4 Ft	0.16-0.5 Ft	0.5-1 Ft
		Sample Date	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012
		SDG	1310206	1310206	1310206	1310206	1311695	1311695	1311695	1311695	1311695	1311695	1311695	1311695	1311704	1311704	1311704	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
Parameter Name	Units	6 NYCRR Part 375-6.8(b) Industrial																
	ug/kg	11000	100	4 U	27	14 J	29	4 U	29	4 U	120	4 U	35	7 J	35	4 U	42	11 J
	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	1000000	62	4 U	15 J	14 J	22	4 U	24	8 J	59 J	5 J	18 J	15 J	170	4 U	300	18 J
	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	NS	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	1000000	27 U	19 U	23 U	21 U	22 J	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/kg	55000	53 U	38 U	47 U	41 U	40 U	43 U	42 U	39 U	130 U	42 U	45 U	38 U	40 U	38 U	46 U	44 U
	ug/kg	1000000	270	4 U	100	100	77	4 U	130	13 J	650	4 U	65	18 J	150	4 U	280	36
	ug/kg	1000000	27 U	19 U	23 U	21 U	20 U	22 U	21 U	20 U	65 U	21 U	22 U	19 U	20 U	19 U	23 U	22 U
	ug/Kg	1000000	330	4 U	110	71	88	4 U	110	15 J	650	4 U	80	16 J	95	4 U	140	36
METALS																		
Aluminum	mg/kg	NS	21700	20300	23500	19300	17100	28400	16500	19300	29000	16700	18800	17100	8870	9160	16900	20400
Antimony	mg/Kg	NS	1.06 U	0.73 U	0.895 U	0.809 U	1.25 J	1.27 J	1.45 J	1.07 J	3.44 J	1.06 J	1.41 J	1.31 J	0.793 U	0.735 U	0.885 U	0.85 U
Arsenic	mg/kg	16	9.55	2.98	3.45	4.91	5.47	0.697 U	6.09	3.43	21	7.04	5.83	5.06	7.78	3.91	11.4	7.85
Barium	mg/kg	10000	116 J	57.4 J	100 J	63.3 J	75.2	124	76	86.4	200	47.7	103	91	66.2	26.1	102	98.9
Beryllium	mg/kg	2700	0.886	0.701	0.974	0.636	0.738	1.99	0.735	0.899	1.5 J	1.01	0.865	0.776	0.714	0.67 U	1.07	1.2
Cadmium	mg/kg	60	0.734 J	0.487 J	0.789	0.461 J	0.502 J	0.585 J	0.439 J	0.41 J	3.36	0.525 J	0.662 J	0.547 J	0.189 J	0.179 J	0.253 J	0.18 J
Calcium	mg/kg	NS	4960	1150	5410	1520	3190	2040	6650	2210	21000	52100	4560	26200	14400	94600	3660	5960
Chromium	mg/Kg	NS	23.7	19.5	24.7	18.2	18.7	30.2	20.3	26	40.8	19.2	23.4	21.4	10.3	19.7	24.5	
Cobalt	mg/kg	NS	10.9 J	11.8 J	13.6 J	8.4 J	11.3	12	11	13.5	18.5	12.7	10.8	6.82	4.97	12.6	17.5	
Copper	mg/kg	10000	27.9	20.4	36.8	15.2	28.7	39.4	28.9	32.4	64.3	23.7	28.9	25.6	22.7	11.6	44.2	40.3
IRON	mg/kg	NS	31000	28200	39500	26000	29800	52100	30800	33700	60000	26600	33500	30200	27100	16900	34500	38900
Lead	mg/kg	3900	53.1 J	14.5 J	23.4 J	14 J	31.8	23.2	31	18.4	220	17.8	44.9	25.3	8.89	71.7	33.2	
Magnesium	mg/kg	NS	6060	5800	7950	4670	6440	10500	7980	6640	14400	35200	8120	19500	9770	58800	6240	9420
Manganese	mg/kg	10000	833 J	561 J	697 J	330 J	716	1380	683	669	1450	632	813	784	376	862	1030	
Mercury	mg/kg	5.7	0.454	0.0698 J	0.167	0.289	0.132	0.0788 J	0.16	0.0908 J	0.893	0.0235 J	0.161	0.064 J	0.296	0.0077 U	0.761	0.204
Nickel	mg/kg	10000	31	21.7	30.2	19	25.1	32.7	23.7	27.9	50.4	21.7	28.1	23.1	16.3	27.2	35.1	
Potassium	mg/kg	NS	3080	1980	3330	1530	2020	4610	2080	2370	4440	3100	2600	2370	962	1240	2020	3030
Selenium	mg/kg	6800	1.09 U	0.752 U	0.922 U	0.833 U	2.02 J	2.04 J	1.74 J	1.55 J	4.19 J	1.42 J	1.63 J	0.817 U	0.757 U	0.912 U	0.876 U	
Silver	mg/kg	6800	0.337 J	0.244 J	0.335 J	0.187 J	0.319 J	0.651	0.27 J	0.321 J	0.547 J	0.178 J	0.304 J	0.248 J	0.0997 U	0.0924 U	0.111 U	0.107 U
Sodium	mg/kg	NS	55.9 J	46 J	66.4 J	40.3 J	58.6 J	126 J	60.6 J	57 J	103 J	119 J	57 J	61.6 J	112 J	112	69 J	68.6 J
Thallium	mg/Kg	NS	0.577 U	0.398 U	0.488 U	0.441 U	0.43 U	0.456 U	0.44 U	0.413 U	1.38 U	0.458 U	0.477 U	0.408 U	1.17 J	0.86 J	1.19 J	1.25 J
Vanadium	mg/kg	NS	69.7	24.8	33.8	25.8	28.9	47.4	28.1	26	88.2	27.6	36.3	26.7	18.6	13.4	25.9	27.8
Zinc	mg/kg	10000	102	60.3	92.2	58.9	171	101	89.5	90.6	331	53.2	102	82.6	73.7	31.9	117	101
OTHER																		
Chloride	mg/kg	NS	8.6 J	5.6 U	21.6	6.1 U	14.6	23.8	13.6	6 J	19.4 U	17.6	6.7 U	5.6 U	6 U	11.3 U	6.9 U	6.5 U
Sulfate	mg/kg	NS	10 J	5.6 U	12.3 J	6.8 J	8.5 J	6.4 U	6.2 U	5.9 U	42.5 J	6.3 U	6.7 U	5.6 U	18 U	20.6 U	19.5 U	
Moisture	%	NS	37.6	12.2	28.4	19.2	18	24.1	20.6	15.4	74.6	22.1	26.8	13.5	17.6	12.8	27.6	23.9
Notes																		
ug/Kg = micrograms per kilogram																		
mg/Kg = milligrams per kilogram																		
NS = No Standard																		
J = Estimated Result																		
R = Rejected Result																		
U = Non Detect Result																		
UJ = Estimated Non Detect Result																		

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-16(0-2)	UDPSB-16(2-6)	UDPSB-16(6-12)-052212	UDPSB-16(6-12)	UDPSB-16(4-8)
		Location	UDPSB-16	UDPSB-16	UDPSB-16	UDPSB-16	UDPSB-16
		Sample Depth	0-0.16 Ft	0.16-0.5 Ft	0.5-1 Ft	0.5-1 Ft	4-8 Ft
		Sample Date	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012
		SDG	1311704	1311704	1311704	1315464	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
		6 NYCRR Part 375-6.8(b) Industrial					
Parameter Name	Units						
1,1,1-Trichloroethane	ug/kg	1000000	1 U	1 U		1 U	1 U
1,1,2,2-Tetrachloroethane	ug/kg	NS	1 UJ	1 U		1 UJ	1 U
1,1,2-Trichloroethane	ug/Kg	NS	1 U	1 U		1 U	1 U
1,1-Dichloroethane	ug/kg	480000	1 U	1 U		1 U	1 U
1,1-Dichloroethene	ug/kg	1000000	1 U	1 U		1 U	1 U
1,2-Dichloroethane	ug/kg	60000	1 U	1 U		1 U	1 U
1,2-Dichloropropane	ug/Kg	NS	1 U	1 U		1 U	1 U
2-Butanone (Methyl ethyl ketone)	ug/kg	1000000	5 U	5 U		5 U	5 U
2-Hexanone	ug/Kg	NS	4 U	4 U		4 U	4 U
4-Methyl-2-pentanone	ug/Kg	NS	4 U	4 U		4 U	4 U
Acetone	ug/kg	1000000	8 U	8 U		9 U	8 U
Benzene	ug/kg	89000	0.6 U	0.6 U		0.7 U	0.6 U
Bromodichloromethane	ug/Kg	NS	1 U	1 U		1 U	1 U
Bromoform	ug/kg	NS	1 U	1 U		1 U	1 U
Bromomethane	ug/Kg	NS	2 U	2 U		3 U	2 U
Carbon Disulfide	ug/kg	NS	1 J	1 U		1 U	1 U
Carbon Tetrachloride	ug/kg	44000	1 U	1 U		1 U	1 U
Chlorobenzene	ug/kg	1000000	1 U	1 U		1 U	1 U
Chloroethane	ug/Kg	NS	2 U	2 U		3 U	2 U
Chloroform	ug/kg	700000	2 J	1 U		1 U	1 U
Chloromethane	ug/Kg	NS	2 U	2 U		3 U	2 U
cis-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U		1 U	1 U
cis-1,3-Dichloropropene	ug/kg	NS	1 U	1 U		1 U	1 U
Dibromochloromethane	ug/Kg	NS	1 U	1 U		1 U	1 U
Diisopropyl ether	ug/kg	NS	1 U	1 U		1 U	1 U
Ethylbenzene	ug/kg	780000	1 U	1 U		1 U	1 U
Ethyl-t-butylether	ug/kg	NS	1 U	1 U		1 U	1 U
Methylene chloride	ug/kg	1000000	17	7		6 J	6 J
Methyl-t-butyl ether	ug/kg	1000000	0.6 U	0.6 U		0.7 U	0.6 U
Styrene	ug/Kg	NS	1 U	1 U		1 U	1 U
Tert-amyl methyl ether	ug/kg	NS	1 U	1 U		1 U	1 U
Tertiary Butyl Alcohol	ug/kg	NS	24 U	24 U		27 U	24 U
Tetrachloroethene	ug/kg	300000	1 U	1 U		1 U	1 U
Toluene	ug/kg	1000000	1 U	1 U		1 U	1 U
trans-1,2-Dichloroethene	ug/kg	1000000	1 U	1 U		1 U	1 U
trans-1,3-Dichloropropene	ug/Kg	NS	1 U	1 U		1 U	1 U
Trichloroethene	ug/kg	400000	1 U	1 U		1 U	1 U
Vinyl chloride	ug/kg	27000	1 U	1 U		1 U	1 U
Xylenes, Total	ug/kg	1000000	1 U	1 U		1 U	1 U
SEMIVOLATILES							
1,2,4-Trichlorobenzene	ug/Kg	NS	210 U	21 U	54 U		19 U
1,2-Dichlorobenzene	ug/kg	1000000	210 U	21 U	54 U		19 U
1,3-Dichlorobenzene	ug/kg	560000	210 U	21 U	54 U		19 U
1,4-Dichlorobenzene	ug/kg	250000	210 U	21 U	54 U		19 U
2,4,5-Trichlorophenol	ug/kg	NS	210 U	21 U	54 U		19 U
2,4,6-Trichlorophenol	ug/kg	NS	210 U	21 U	54 U		19 U
2,4-Dichlorophenol	ug/kg	NS	210 U	21 U	54 U		19 U
2,4-Dimethylphenol	ug/kg	NS	210 U	21 U	54 U		19 U
2,4-Dinitrophenol	ug/kg	NS	3800 U	380 U	970 U		340 U
2,4-Dinitrotoluene	ug/Kg	NS	830 U	83 U	220 U		77 U
2,6-Dinitrotoluene	ug/Kg	NS	210 U	21 U	54 U		19 U
2-Chloronaphthalene	ug/kg	NS	88 U	9 U	23 U		8 U
2-Chlorophenol (o-Chlorophenol)	ug/kg	NS	210 U	21 U	54 U		19 U
2-Methyl-naphthalene	ug/kg	NS	57 J	85	63		14 J
2-Methylphenol (o-Cresol)	ug/kg	1000000	210 U	21 U	54 U		19 U
2-Nitroaniline (o-Nitroaniline)	ug/kg	NS	210 U	21 U	54 U		19 U
2-Nitrophenol (o-Nitrophenol)	ug/kg	NS	210 U	21 U	54 U		19 U
3,3'-Dichlorobenzidine	ug/kg	NS	1300 U	130 U	320 U		110 U
3-Nitroaniline	ug/kg	NS	830 U	83 U	220 U		77 U
4,6-Dinitro-2-methylphenol	ug/kg	NS	2100 U	210 U	540 U		190 U
4-Bromophenylphenylether	ug/kg	NS	210 U	21 U	54 U		19 U
4-Chloroaniline	ug/kg	NS	210 U	21 U	54 U		19 U
4-Chlorophenyl phenyl ether	ug/kg	NS	210 U	21 U	54 U		19 U
4-Nitroaniline	ug/kg	NS	830 U	83 U	220 U		77 U
4-Nitrophenol	ug/kg	NS	2100 U	210 U	540 U		190 U
Acenaphthene	ug/kg	1000000	110 J	130	110		31
Acenaphthylene	ug/kg	1000000	150 J	94	250		30
Anthracene	ug/kg	1000000	370	340	490		94
Benzo(a)anthracene	ug/kg	11000	980	750	1500		260
Benzo(a)Pyrene	ug/kg	1100	810	760	1300		230
Benzo(b)Fluoranthene	ug/kg	11000	850	840	1400		250
Benzo(g,h,i)perylene	ug/kg	1000000	480	500	700		140
Benzo(k)Fluoranthene	ug/kg	110000	530	410	650		130
bis(2-Chloroethoxy)methane	ug/kg	NS	210 U	21 U	54 U		19 U
bis(2-Chloroethyl) ether	ug/kg	NS	210 U	21 U	54 U		19 U
Bis(2-chloroisopropyl) ether	ug/Kg	NS	210 U	21 U	54 U		19 U
bis(2-Ethylhexyl)phthalate	ug/kg	NS	830 U	130 J	1300		570
Butylbenzylphthalate	ug/kg	NS	830 U	83 U	220 U		77 U
Carbazole	ug/kg	NS	210 U	160	190		42
Chrysene	ug/kg	110000	980	780	1400		250
Dibenz[a,h]anthracene	ug/kg	1100	140 J	140	240		4 U
Dibenzofuran	ug/kg	1000000	210 U	120	110		20 J
Diethylphthalate	ug/kg	NS	830 U	83 U	220 U		77 U
Dimethylphthalate	ug/kg	NS	830 U	83 U	220 U		77 U
Di-n-butylphthalate	ug/kg	NS	830 U	83 U	220 U		77 U
Di-n-octylphthalate	ug/kg	NS	830 U	83 U	220 U		77 U
Fluoranthene	ug/kg	1000000	2100	1600	2800		480
Fluorene	ug/kg	1000000	130 J	140	160		30
Hexachlorobenzene	ug/kg	12000	42 U	4 U	11 U		4 U
Hexachlorobutadiene	ug/kg	NS	210 U	21 U	54 U		19 U
Hexachlorocyclopentadiene	ug/kg	NS	2100 U	210 U	540 U		190 U
Hexachloroethane	ug/kg	NS	420 U	42 U	110 U		38 U

Table 1
OU-4 Soils Analytical Data Results

		Field Sample ID	UDPSB-16(0-2)	UDPSB-16(2-6)	UDPSB-16(6-12)-052212	UDPSB-16(6-12)	UDPSB-16(4-8)
		Location	UDPSB-16	UDPSB-16	UDPSB-16	UDPSB-16	UDPSB-16
		Sample Depth	0-0.16 Ft	0.16-0.5 Ft	0.5-1 Ft	0.5-1 Ft	4-8 Ft
		Sample Date	5/22/2012	5/22/2012	5/22/2012	6/11/2012	5/22/2012
		SDG	1311704	1311704	1311704	1315464	1311704
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
		6 NYCRR Part 375-6.8(b) Industrial					
Parameter Name	Units						
Indeno(1,2,3-cd)pyrene	ug/kg	11000	480	470	670		130
Isophorone	ug/kg	NS	210 U	21 U	54 U		19 U
Naphthalene	ug/kg	1000000	130 J	170	140		26
Nitrobenzene	ug/kg	NS	210 U	21 U	54 U		19 U
N-Nitrosodi-n-propylamine	ug/kg	NS	210 U	21 U	54 U		19 U
N-Nitrosodiphenylamine	ug/kg	NS	210 U	21 U	54 U		19 U
p-Chloro-m-cresol	ug/kg	NS	210 U	21 U	54 U		19 U
p-Cresol	ug/kg	1000000	210 U	21 U	54 U		19 U
Pentachlorophenol	ug/kg	55000	420 U	42 U	110 U		38 U
Phenanthrene	ug/kg	1000000	1800	1400	2100		350
Phenol	ug/kg	1000000	210 U	21 U	54 U		19 U
Pyrene	ug/Kg	1000000	1800	1400	2600		460
METALS							
Aluminum	mg/kg	NS	6790	10600	40600		16100
Antimony	mg/Kg	NS	0.812 U	0.815 U	2.11 U		0.731 U
Arsenic	mg/kg	16	8.2	11.4	15.4		7.54
Barium	mg/kg	10000	109	118	152		76.8
Beryllium	mg/kg	2700	0.615 U	0.95	2.43		0.94
Cadmium	mg/kg	60	0.199 J	0.336 J	0.377 J		0.135 J
Calcium	mg/kg	NS	6170	3730	61200		17000
Chromium	mg/Kg	NS	5410	413	230		293
Cobalt	mg/kg	NS	5.01	11.1	21		11
Copper	mg/kg	10000	1340	187	212		109
IRON	mg/kg	NS	15800	22700	57300		30400
Lead	mg/kg	3900	514	373	176		73.9
Magnesium	mg/kg	NS	2740	4550	45000		11700
Manganese	mg/kg	10000	311	945	1140		589
Mercury	mg/kg	5.7	1.72	1.2	0.775		0.155
Nickel	mg/kg	10000	11.1	23.9	46		24.6
Potassium	mg/kg	NS	542	930	2980		2230
Selenium	mg/kg	6800	1.12 J	0.84 U	2.17 U		0.753 U
Silver	mg/kg	6800	0.503 J	0.13 J	0.265 U		0.0919 U
Sodium	mg/kg	NS	32 J	72.2 J	186 J		69.2 J
Thallium	mg/Kg	NS	0.727 J	1.4 J	3.08 J		0.957 J
Vanadium	mg/kg	NS	17.2	32.6	50.4		22.8
Zinc	mg/kg	10000	140	140	155		82.8
OTHER							
Chloride	mg/kg	NS	6.3 U	6.2 U	16.4 U		5.8 U
Sulfate	mg/kg	NS	18.8 U	18.7 U	49.1 U		35.2 U
Moisture	%	NS	20.3	20.6	69.6	25.5	13.2
Notes							
ug/Kg = micrograms per kilogram							
mg/Kg = milligrams per kilogram							
NS = No Standard							
J = Estimated Result							
R = Rejected Result							
U = Non Detect Result							
UJ = Estimated Non Detect Result							

Table 2
Remaining Exceedences of NYSDEC 6NYCRR Part 375 Industrial Use Standards
After Remedial Action

		Field Sample ID	MB-1(10.5-12.5)(8-24-10)	MB-1(4.5-8.5)(8-23-10)	SWSL-69(2-5)	
		Location	MB-1	MB-1	SWSL-69	
		Sample Depth	10.5-12.5 Ft	4.5-8.5 FT	2-5 FT	
		Sample Date	8/24/2010	8/23/2010	10/31/2006	
		SDG	1209549	1209549	1012602	
		Matrix	SOIL	Soil	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	
		Sample Type	Misc Solid Materials	Misc Solid Materials	Soil Boring	
Parameter Name	Units	6 NYCRR Part 375- 6.8(b) Industrial				
Benzo(a)Pyrene	ug/kg	1100	410 J	990 J	590	
METALS						
Arsenic	mg/kg	16	10.9	8.24	[16.2]	
Mercury	mg/kg	5.7	[6.55]	[6.89]	0.162	
Notes:						
ug/kg = microgram per kilogram						
mg/kg = milligram per kilogram						
J = Estimated Result						

SECTION 2

ENGINEERING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since remaining contaminated soil exists beneath the site, ECs and ICs are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

This plan provides:

- A description of all EC/ICs on the site;
- The basic implementation and intended role of each EC/IC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the features to be evaluated during each required inspection and periodic review; and
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Excavation Work Plan (EWP) for the proper handling of remaining contamination that may be disturbed during future maintenance or redevelopment work on the site.

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

Soil Cover

Exposure to remaining contamination in soil/fill at the site is prevented by the existing cover over the site. This cover system is comprised of a minimum of 24 inches of clean soil or concrete building slabs. The EWP that appears in Appendix A outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of this SMP.

Groundwater

No groundwater remedial systems are being implemented at this site.

Soil Vapor Extraction Systems

No soil vapor remedial systems are being implemented at this site.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

No remedial systems are being implemented at this site. Groundwater monitoring activities to assess site groundwater contamination and/or natural attenuation will continue, as determined by NYSDEC, until residual groundwater concentrations are found to have met NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

2.3 INSTITUTIONAL CONTROLS

A series of ICs is required to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to industrial uses only. Adherence to these ICs is required by the OU-4 Environmental Easement and will be implemented under this OU-4 SMP. These ICs are:

- Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- Allows the use and development of the controlled property for industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department Of Health (NYSDOH) or County Department Of Health;
- Requires compliance with the NYSDEC approved SMP;
- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified;
- All ECs on the OU-4 must be inspected at the specified frequency and in the manner defined; and
- Information pertinent to site management of the controlled property must be reported at the specified frequency.

Note: With the approval of the NYSDEC, ICs may be modified, added or deleted from this list as warranted by site-specific conditions.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may not be used for a higher level of use, such as unrestricted residential, restricted residential, or commercial, without approval of the NYSDEC;

- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Vegetable gardens and farming on the property are prohibited; and
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that NYSDEC finds acceptable.

2.3.1 Excavation Work Plan (EWP)

Future intrusive work that will encounter or disturb the remaining contamination will be performed in compliance with the EWP template that is attached as Appendix B to this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with all applicable Federal, State, and local regulations.

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation water, control of runoff from open excavations, and for structures that may be affected by excavations (such as building foundations). The site owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

All sampling events at OU-4 indicate that there are no known sources of VOCs. Prior to the construction of any additional enclosed structures located over areas that contain remaining contamination, a soil vapor intrusion (SVI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH “Guidance for Evaluating Vapor Intrusion in the State of New York”. Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. If any indoor air test results exceed NYSDOH guidelines, relevant NYSDOH fact sheets will be provided to all tenants and occupants of the property within 15 days of receipt of validated data. Any SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of the existing soil cover at the site will be conducted at the frequency specified. A comprehensive site-wide inspection of the soil cover will be conducted and reported to the NYSDEC, as described in Section 5. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- If site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

Inspections will be conducted in accordance with the procedures set forth in Section 3. The reporting requirements are outlined in the Section 5.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the site will be conducted within five days of the event to verify the effectiveness of the EC/ICs implemented at the site by a qualified environmental professional as determined by NYSDEC.

2.4.2 Notifications

Notifications will be submitted by the property owner to NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use as required under the terms of the Order on Consent.
- Fifteen day advance notice of any proposed ground-intrusive activities pursuant to the EWP.
- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other ECs and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within seven days that includes a summary

of actions taken, or to be taken, and the potential impact to the environment and the public.

- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Order On Consent, and all approved work plans and reports including this SMP.
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing by the new owner.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions. A written contingency plan must be prepared by the property owner to establish specific procedures to be taken whenever these events occur or appear imminent. This contingency plan should include the applicable contact information to be utilized in response to various unplanned or emergency situations, as well as the applicable response timeframes (e.g., environmental spills must be reported within 2 hours), the conditions triggering a response action, and any follow-up actions.

SECTION 3

SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

Site monitoring at the OU-4 property will include provisions for soil cover systems, groundwater monitoring, and dam monitoring, as summarized below and detailed in Sections 4 and 5 of this SMP.

3.2 SOIL COVER SYSTEM MONITORING

The soil cover monitoring system is a passive component and includes areas where a sufficient layer of non-impacted soil material is in place and serves as a protective barrier cap over an impacted area, as well as the portion of the building slab in Building 3 that serves as a cap over another subsurface impacted area. The frequency and reporting requirements are specified in Sections 4 & 5.

3.3 MEDIA MONITORING PROGRAM

3.3.1 Groundwater Monitoring

Groundwater monitoring will be conducted in adjoining parcels as part of the overall remedial efforts of the site. No additional groundwater monitoring is required for the OU-4 property is anticipated at this time. However, groundwater monitoring of wells within the OU-4 area will be initiated if the results of groundwater monitoring in the property adjacent to OU-4 indicates the potential for groundwater impacts to the OU-4 parcel. Any monitoring wells remaining on OU-4 will be monitored, maintained, repaired, replaced, or decommissioned in accordance with the overall remedial actions for the TRCB site.

3.4 FACILITY DAM MONITORING

The OU-4 property dam is subject to all regulatory requirements of the NYSDEC Dam Safety Division.

SECTION 4

OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

The site remedy does 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. No concentration of VOCs above the standards have been detected within the boundary of OU-4. Any newly constructed enclosures must undergo soil vapor intrusion evaluation as described in Section 2.3.2. The operation and maintenance of such components is not included in this SMP.

Information on passive ECs (i.e. soil cover system) is provided in Section 3 - Engineering and Institutional Control Plan. A copy of this Operation and Maintenance Plan, along with the complete SMP, will be kept at the site. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of the SMP.

4.2 ENGINEERING CONTROL SYSTEM OPERATION AND MAINTENANCE

There are no engineering control systems in operation at the OU-4 site besides the soil cover system described in Section 2.2.

4.3 ENGINEERING CONTROL SYSTEM PERFORMANCE MONITORING

There are no engineering control systems in operation at the OU-4 site besides the soil cover system described in Section 2.2. The soil cover system includes the portion of the Building 3 slab overlying the localized area of soil impacted with mercury. As such, particular attention of the building slab should be focused on the upper northwest portion of the building slab to ensure that there is no undermining and/or settlement of the building slab in that area, that could potentially lead to soil movement.

4.4 MAINTENANCE AND PERFORMANCE MONITORING REPORTING REQUIREMENTS

There are no engineering control systems in operation at the OU-4 site besides the soil cover system described in Section 2.2. Site inspections of the cover will only be required as discussed in Section 5.

4.5 FACILITY DAM MAINTENANCE, MONITORING AND REPORTING

The facility dam and appurtenant structures are registered and regulated by the NYSDEC Dam Safety Division. The facility must be maintained and monitored, in accordance with the regulatory requirements.

SECTION 5

INSPECTIONS, REPORTING, AND CERTIFICATIONS

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

The annual inspection program of OU-4 will consist of two inspections, performed not more than six months apart. Inspections of soil cover systems will also be conducted whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

A general site-wide inspection form included in Appendix D of this report, will be completed during the site-wide inspection. All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format in the Periodic Review Report that will be submitted annually to NYSDEC.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and any site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items; and
- The site remedy continues to be protective of public health and the environment.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

After the last inspection of the annual reporting period, a qualified environmental professional or Professional Engineer licensed to practice in New York State will prepare the Periodic Review with the following certification:

For each EC/IC identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- 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 the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;

- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- 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;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- 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;
- The information presented in this report is accurate and complete;
- The report must include the following text “I certify that all information and statements in this certification form 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, [name], of [business address], am certifying as [Owner or Owner’s Designated Site Representative] (if the site consists of multiple properties, add the following: [and I have been authorized and designated by all site owners to sign this certification] for the site); and
- The signed certification will be included in the Periodic Review Report described below.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to NYSDEC every year, beginning eighteen months after the Decision Document and/or the Certification of Closure is issued. In the event that the site is subdivided into separate parcels with different ownership, multiple Periodic Review Reports will be prepared that addresses the specific conditions associated with each site, such as the Environmental Easement described in Appendix A (Metes and Bounds section). This requirement will also be included in any Purchase & Sale Agreements associated with these property transfers. The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Any media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the Decision Document;
 - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;

- Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
- Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in hard-copy format, to the NYSDEC Central Office and Region 3 Office in New Paltz and in electronic format to NYSDEC Central Office, Region 3 Office and the NYSDOH Bureau of Environmental Exposure Investigation Regional Office in Oneonta.

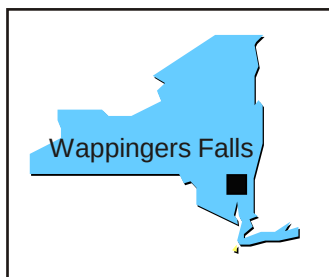
5.4 CORRECTIVE MEASURES PLAN

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by NYSDEC.

FIGURES



FIGURE 1



New York Quadrangle



SOURCE: U.S.G.S.
WAPPINGERS FALLS
QUADRANGLE

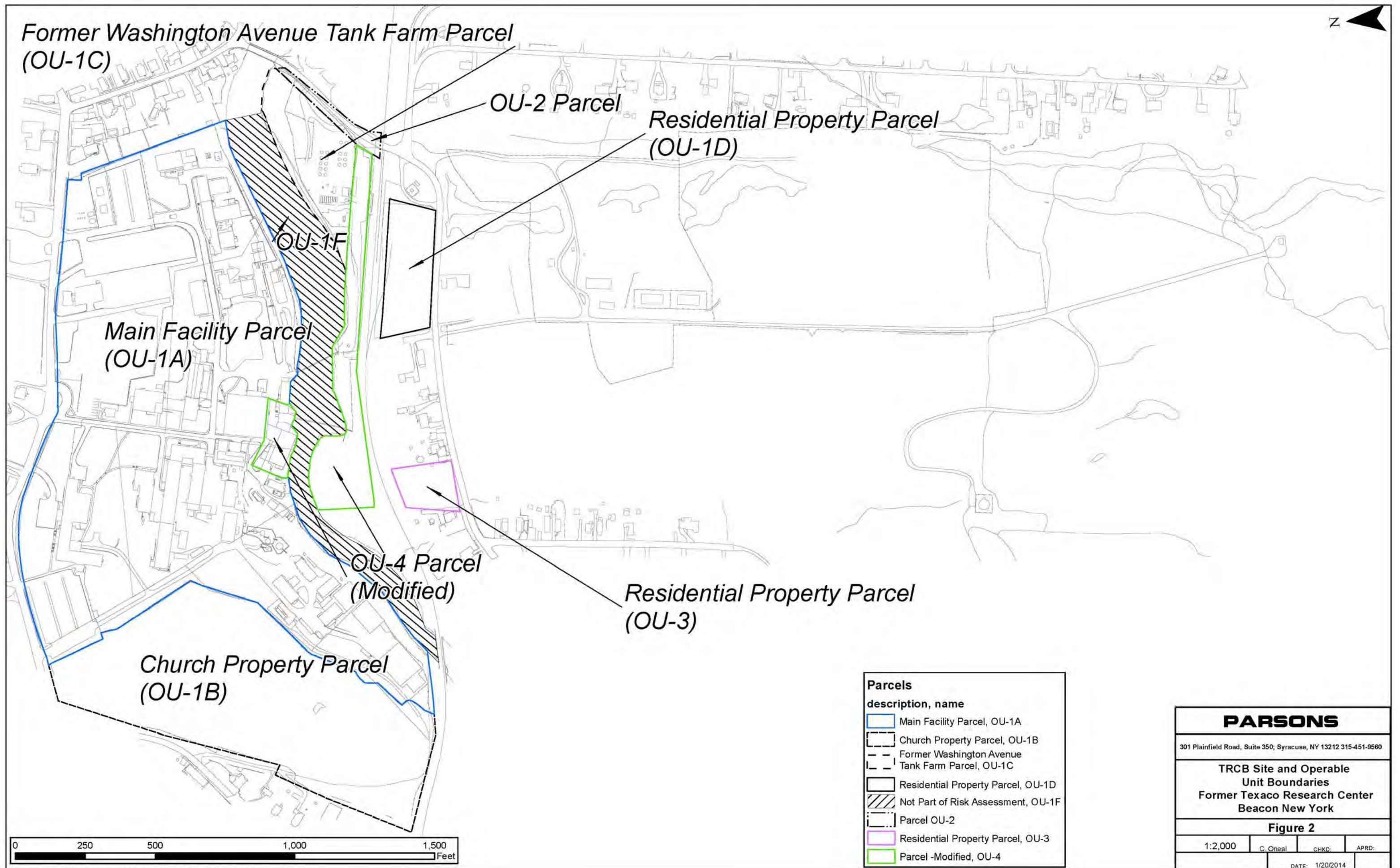


Chevron Environmental Management Company
(EMC)
Former Texaco Research Facility
Beacon, New York

SITE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD * SUITE 350 * SYRACUSE, NY 13212 PHONE: (315) 451-9560



Path: G:\GIS\Chevron\MXD\2014\UO PARCEL.mxd

PARSONS

301 Plainfield Road, Suite 350; Syracuse, NY 13212 315-451-9560

**TRCB Site and Operable
Unit Boundaries
Former Texaco Research Center
Beacon New York**

Figure 2

1:2,000

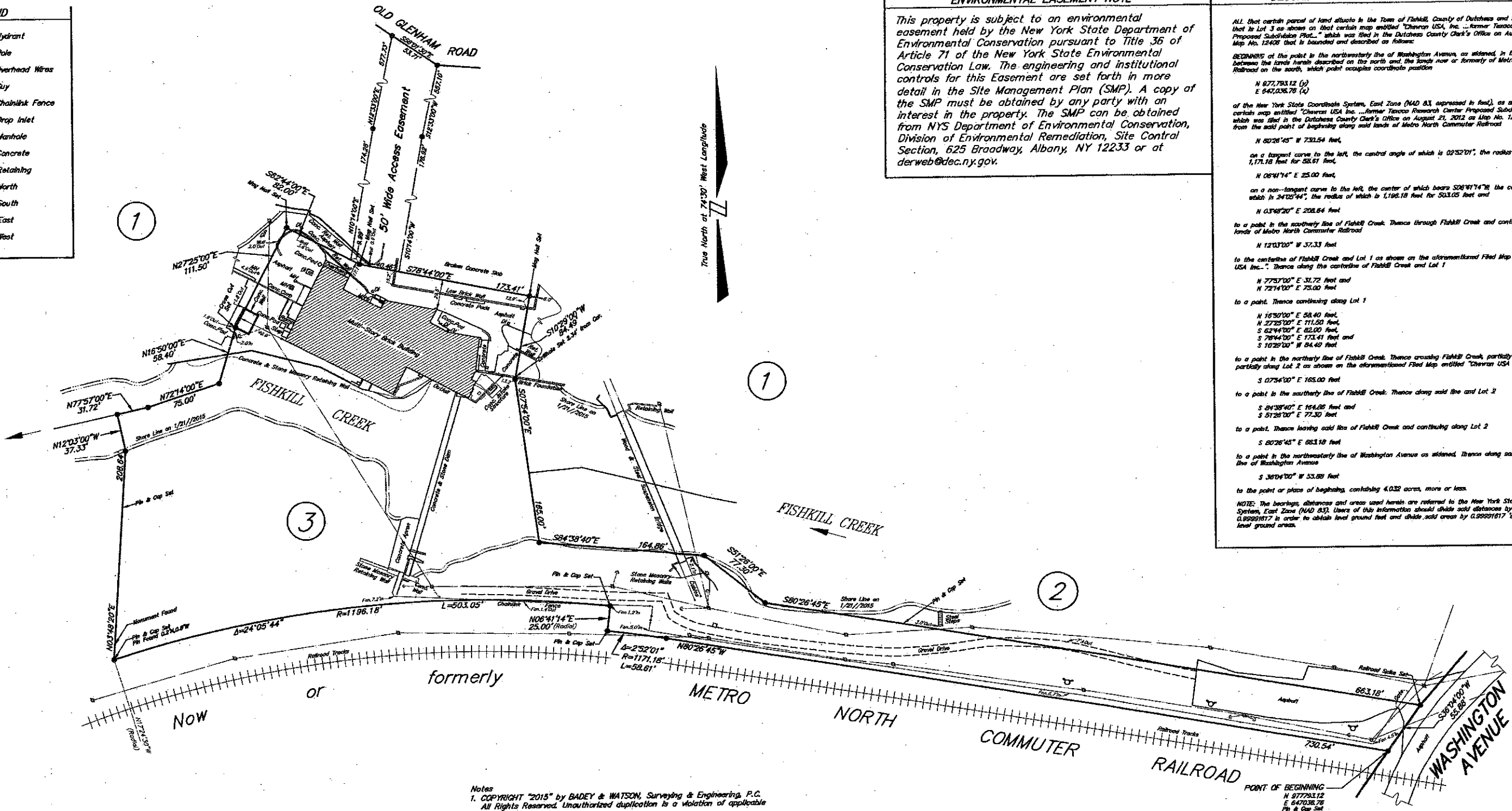
C. O'neal

CHKD:

APRD:

DATE: 1/20/2014

LEGEND	
	Hydrant
	Pole
	Overhead Wires
	Guy
	Chainlink Fence
	Drop Inlet
	Manhole
	Concrete
	Retaining
	North
	South
	East
	West



This property is subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York State Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@dec.ny.gov.

All that certain parcel of land situated in the Town of Fishkill, County of Dutchess and State of New York that is shown on that certain map entitled "Chevron USA, Inc. Former Texaco Research Center Proposed Subdivision Plat..." which was filed in the Dutchess County Clerk's Office on August 21, 2012 as Map No. 12406 that is bounded and described as follows:

BEGINS at the point in the northerly line of Washington Avenue, as shown, in the station line between the lands herein described on the north and the lands now or formerly of Metro North Commuter Railroad on the south, which point occupies coordinate position

N 87°53'12" E 647°03'78" (2)

of the New York State Coordinate System, East Zone (NAD 83), as shown on that certain map entitled "Chevron USA, Inc. Former Texaco Research Center Proposed Subdivision Plat..." which was filed in the Dutchess County Clerk's Office on August 21, 2012 as Map No. 12406. THENCE from the said point of beginning along said lands of Metro North Commuter Railroad

N 06°26'45" W 730.54 feet,

on a tangent curve to the left, the central angle of which is 02°52'01", the radius of which is 1,171.18 feet for 55.67 feet,

N 06°41'14" E 25.00 feet,

on a non-tangent curve to the left, the center of which bears S08°41'14" W the central angle of which is 24°05'44", the radius of which is 1,196.18 feet for 503.05 feet and

N 03°48'20" E 208.64 feet

to a point in the southerly line of Fishkill Creek. Thence through Fishkill Creek and continuing along said lands of Metro North Commuter Railroad

N 12°03'00" W 57.33 feet

to the centerline of Fishkill Creek and Lot 1 as shown on the aforementioned Filed Map entitled "Chevron USA, Inc.", Thence along the centerline of Fishkill Creek and Lot 1

N 77°53'00" E 31.72 feet and
N 72°14'00" E 75.00 feet

to a point. Thence continuing along Lot 1

N 10°30'00" E 58.40 feet,
N 27°25'00" E 111.50 feet,
S 02°44'00" E 62.00 feet,
S 78°14'00" E 173.61 feet and
S 10°29'00" W 84.49 feet

to a point in the northerly line of Fishkill Creek. Thence crossing Fishkill Creek, partially along Lot 1 and partially along Lot 2 as shown on the aforementioned Filed Map entitled "Chevron USA, Inc.",

S 07°54'00" E 165.00 feet

to a point in the southerly line of Fishkill Creek. Thence along said line and Lot 2

S 84°38'40" E 164.06 feet and
S 51°28'00" E 77.30 feet

to a point. Thence leaving said line of Fishkill Creek and continuing along Lot 2

S 80°26'45" E 663.18 feet

to a point in the northwesterly line of Washington Avenue as shown, Thence along said northwesterly line of Washington Avenue

S 38°04'00" W 53.89 feet

to the point or place of beginning, containing 4.032 acres, more or less.

NOTE: The bearings, distances and areas used herein are referred to the New York State Coordinate System, East Zone (NAD 83). Users of this information should divide said distances by a scale factor of 0.99991617 in order to obtain level ground feet and divide said areas by 0.99991617 squared to obtain level ground acres.

- Notes
1. COPYRIGHT "2015" by BADEY & WATSON, Surveying & Engineering, P.C. All Rights Reserved. Unauthorized duplication is a violation of applicable laws.
 2. Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
 3. All certifications are valid for this map and copies thereof only if said map or copies bear the embossed seal of the surveyor whose signature appears hereon.
 4. If underground improvements, easements, or encroachments exist and are neither visible during normal field survey operations nor described in instruments provided to these surveyors, they may not be shown on this map.
 5. This property may be affected by instruments which have not been provided to these surveyors. Users of this map should verify title with their attorney or a qualified title examiner.
 6. The premises hereon is Lot 3 as shown on that certain map entitled "Chevron U.S.A., Inc. Former Texaco Research Center Proposed Subdivision Plat..." which was filed in the Dutchess County Clerk's Office on August 21, 2012 as Map No. 12406.
 7. The area, meridian, distances and coordinate values shown hereon refer to the New York Coordinate System, East Zone (NAD 83), expressed in feet. The distances shown on this map are grid distances. They have been scaled by a grid factor (scale factor x sea level factor) of 0.99991617. To obtain ground distances divide the distances on this map by the grid factor. To obtain ground area divide the area on this map by the square of the grid factor.
 8. The premises hereon includes, and is subject to, various access, parking, drainage, public access, environmental investigation and remediation easements as described on Filed Map No. 12406.
 9. Various monitoring wells were witnessed on the subject premises at the time of the survey. These wells are not shown hereon.
 10. Revised February 10, 2015. Added graphic scale and dated shore location.
 11. Revised February 11, 2015. Revised and reformatored Environmental Easement Note. Reformatored legend. Revise title and certifications.

Area = 4.032 Acres

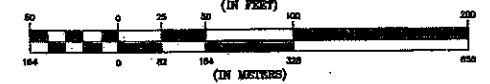
This map was prepared for the exclusive use of and is certified only to:
CHEVRON U.S.A. INC.
THE PEOPLE OF THE STATE OF NEW YORK
Acting through their Commissioner of Environmental Conservation

Prepared by:

BADEY & WATSON, Surveying & Engineering, P.C.
3063 Route 9, Cold Spring, NY 10516
(845) 265-9217
(845) 265-4428 (Fax)
(977) 3.141593 Toll-Free
www.BADEY-WATSON.com

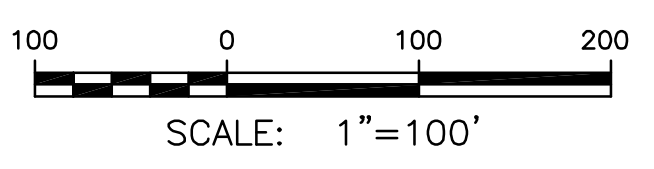
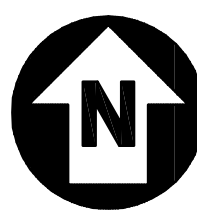
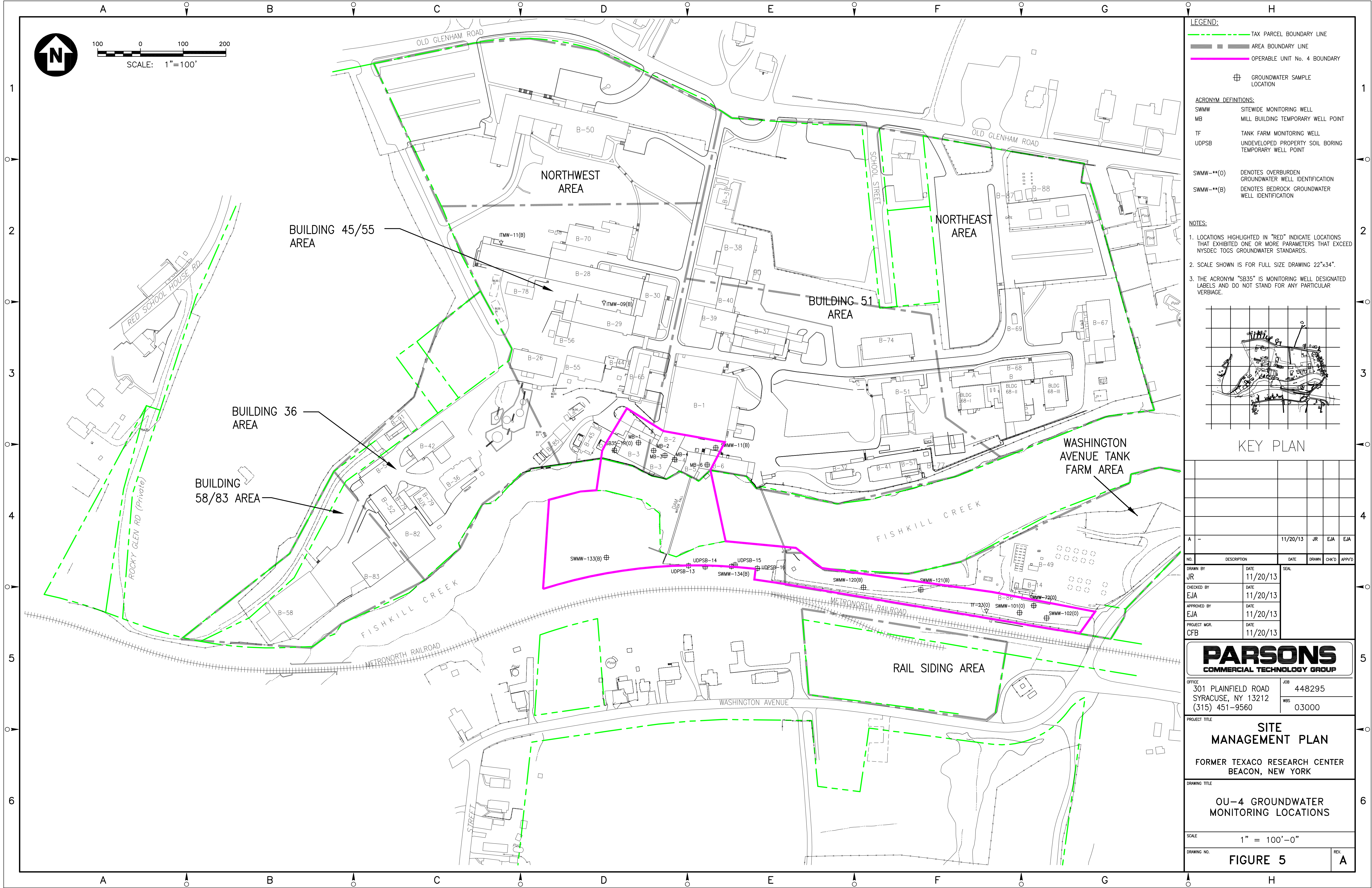
SURVEY OF ENVIRONMENTAL EASEMENT
PREPARED FOR
CHEVRON U.S.A. INC.
SITUATE IN THE
**TOWN OF FISHKILL
DUTCHESS COUNTY
NEW YORK**
SCALE 1 in. = 50 ft. JANUARY 21, 2015

We hereby certify that the survey shown hereon was completed by us on January 21, 2015 that this map was completed on February 9, 2015, and that this survey has been prepared in accordance with the existing Code of Practice for Land Surveys adopted by The New York State Association of Professional Land Surveyors, Inc. Revised February 10, 2015. See Note 10. Revised February 11, 2015. See Note 11.



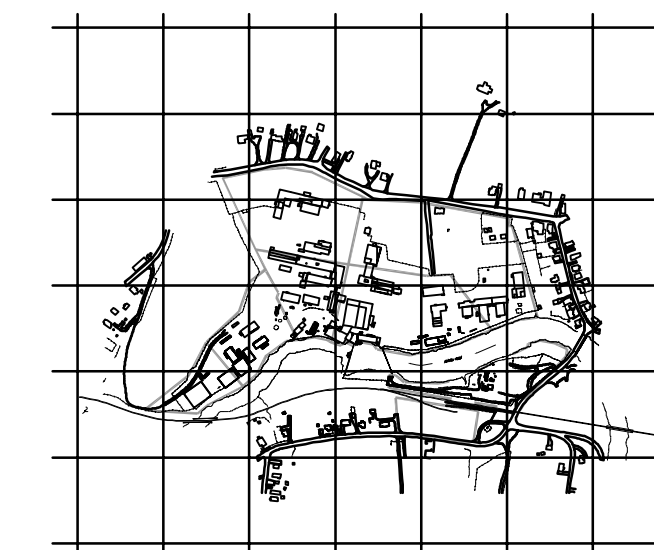
BADEY & WATSON
SURVEYING & ENGINEERING, P.C.
by
NEW YORK STATE LICENSED LAND SURVEYOR
LICENSE No. 49789





- LEGEND:**
- TAX PARCEL BOUNDARY LINE
 - AREA BOUNDARY LINE
 - OPERABLE UNIT No. 4 BOUNDARY
 - GROUNDWATER SAMPLE LOCATION
- ACRONYM DEFINITIONS:**
- SWMW SITEWIDE MONITORING WELL
 - MB MILL BUILDING TEMPORARY WELL POINT
 - TF TANK FARM MONITORING WELL
 - UDPSB UNDEVELOPED PROPERTY SOIL BORING TEMPORARY WELL POINT
- SWMW-**(O) DENOTES OVERBURDEN GROUNDWATER WELL IDENTIFICATION
- SWMW-**(B) DENOTES BEDROCK GROUNDWATER WELL IDENTIFICATION

- NOTES:**
- LOCATIONS HIGHLIGHTED IN "RED" INDICATE LOCATIONS THAT EXHIBITED ONE OR MORE PARAMETERS THAT EXCEED NYSDEC TOGS GROUNDWATER STANDARDS.
 - SCALE SHOWN IS FOR FULL SIZE DRAWING 22"x34".
 - THE ACRONYM "SB35" IS MONITORING WELL DESIGNATED LABELS AND DO NOT STAND FOR ANY PARTICULAR VERBIAGE.



KEY PLAN

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'VD
1	DRAWN BY	DATE	SEAL		
2	CHECKED BY	DATE			
3	APPROVED BY	DATE			
4	PROJECT MGR.	DATE			
5	JR	11/20/13			
6	EJA	11/20/13			
7	EJA	11/20/13			
8	CFB	11/20/13			

OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB
448295
WBS
03000

SITE MANAGEMENT PLAN

FORMER TEXACO RESEARCH CENTER
BEACON, NEW YORK

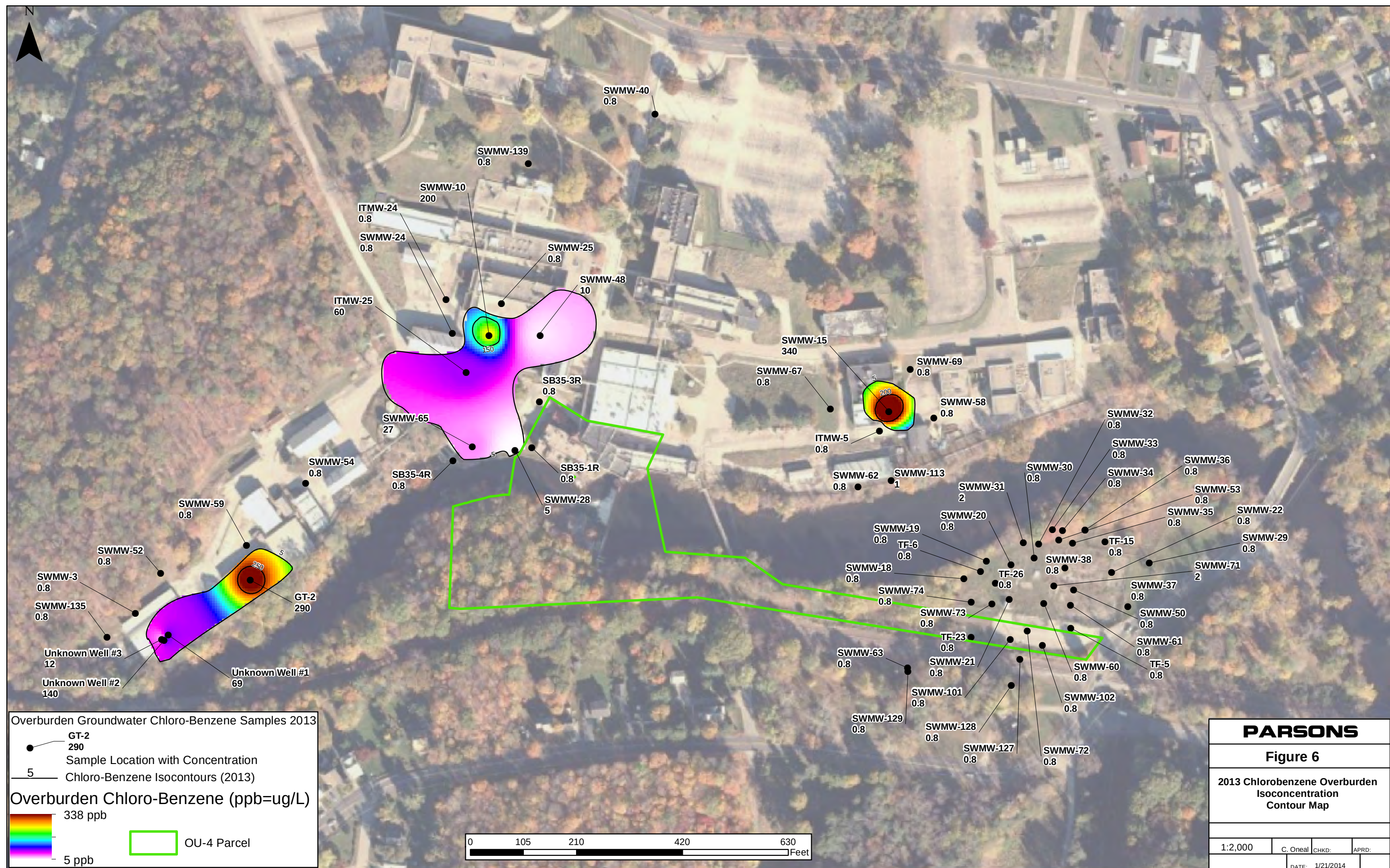
DRAWING TITLE

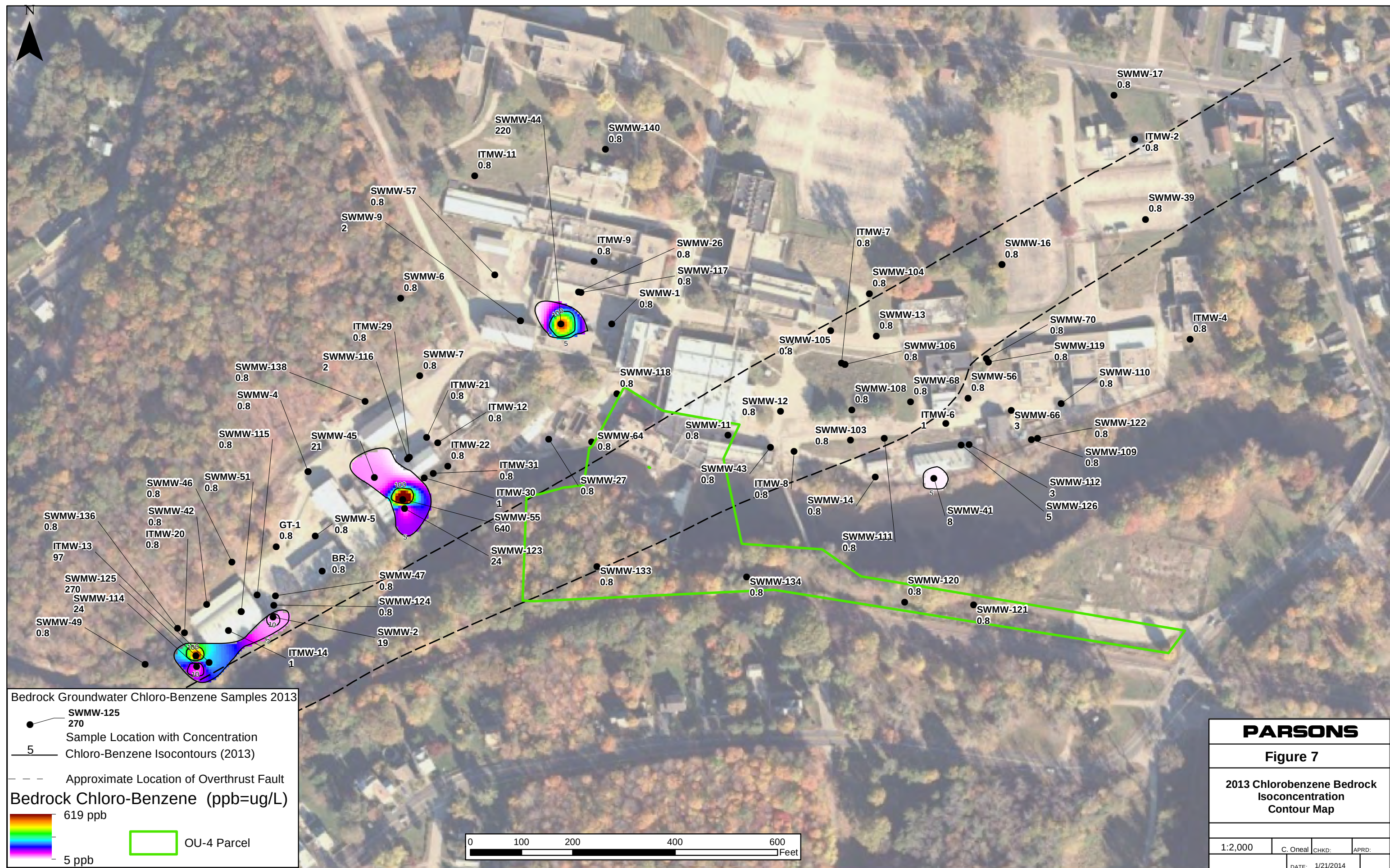
OU-4 GROUNDWATER MONITORING LOCATIONS

SCALE
1" = 100'-0"

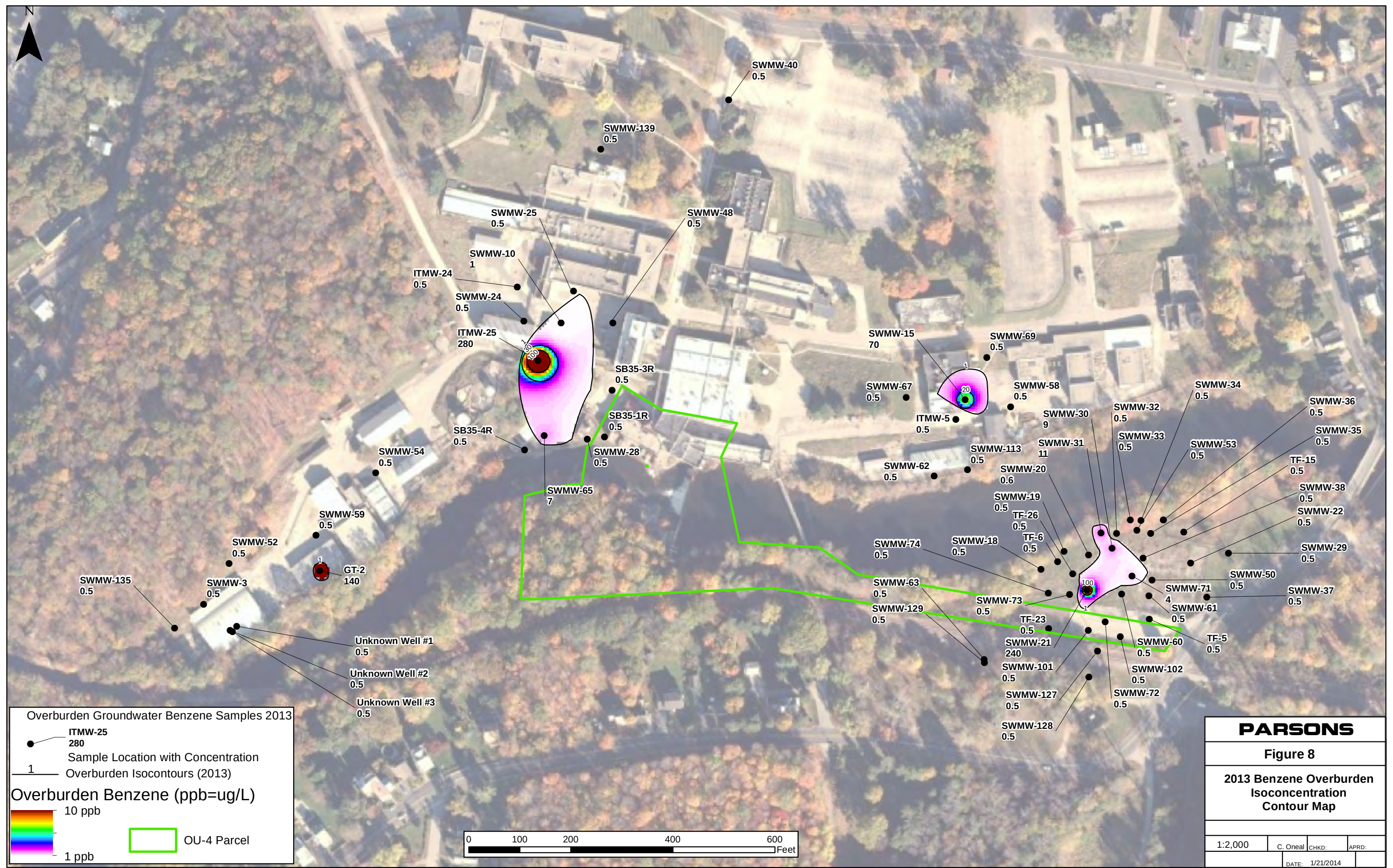
DRAWING NO.
FIGURE 5

REV.
A





Path: G:\GIS\Chevron\MXD\2014\CB_BR_2013v2.mxd



Overburden Groundwater Benzene Samples 2013

● ITMW-25
280

— 1 — Sample Location with Concentration

Overburden Isocontours (2013)

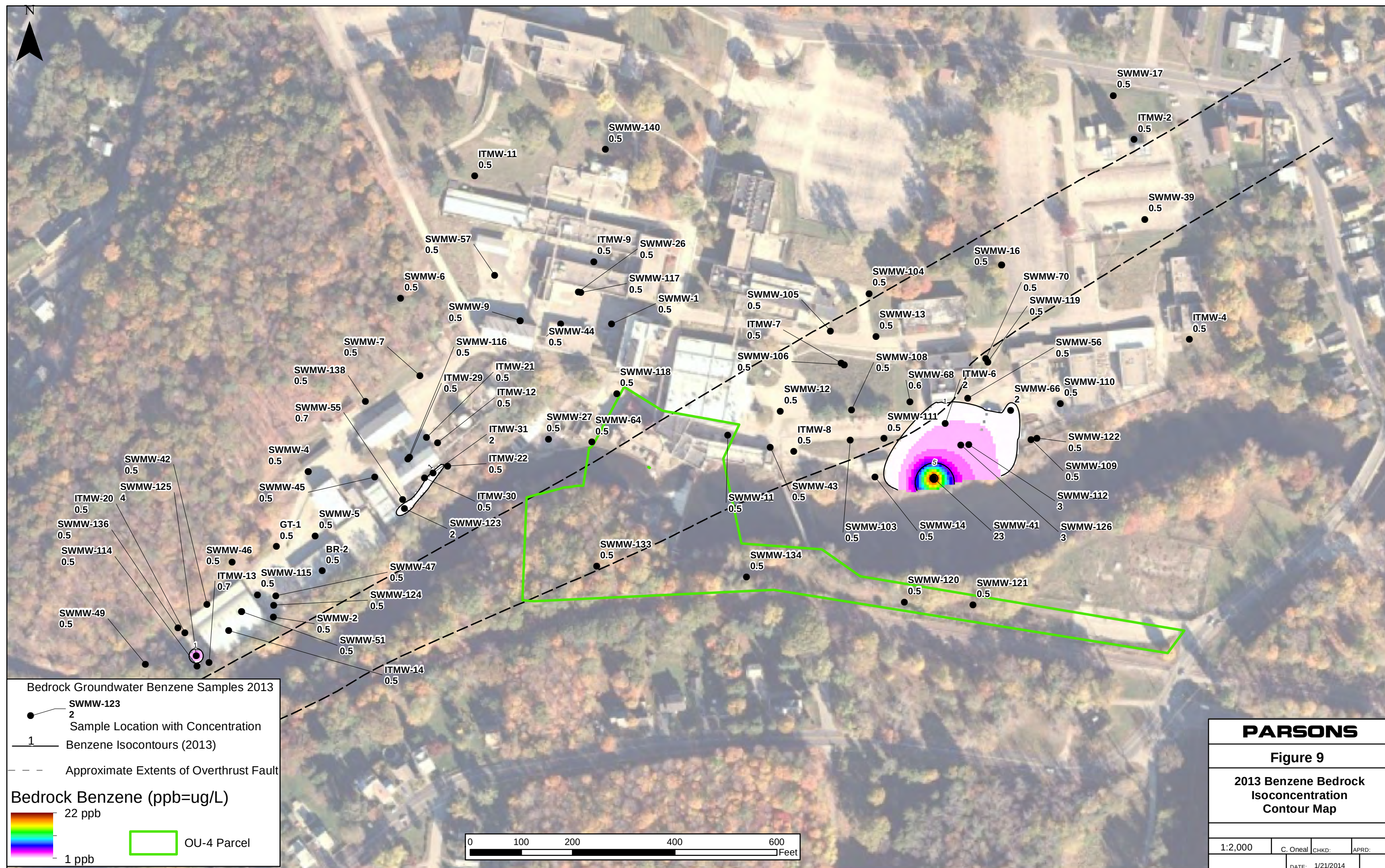
Overburden Benzene (ppb=ug/L)

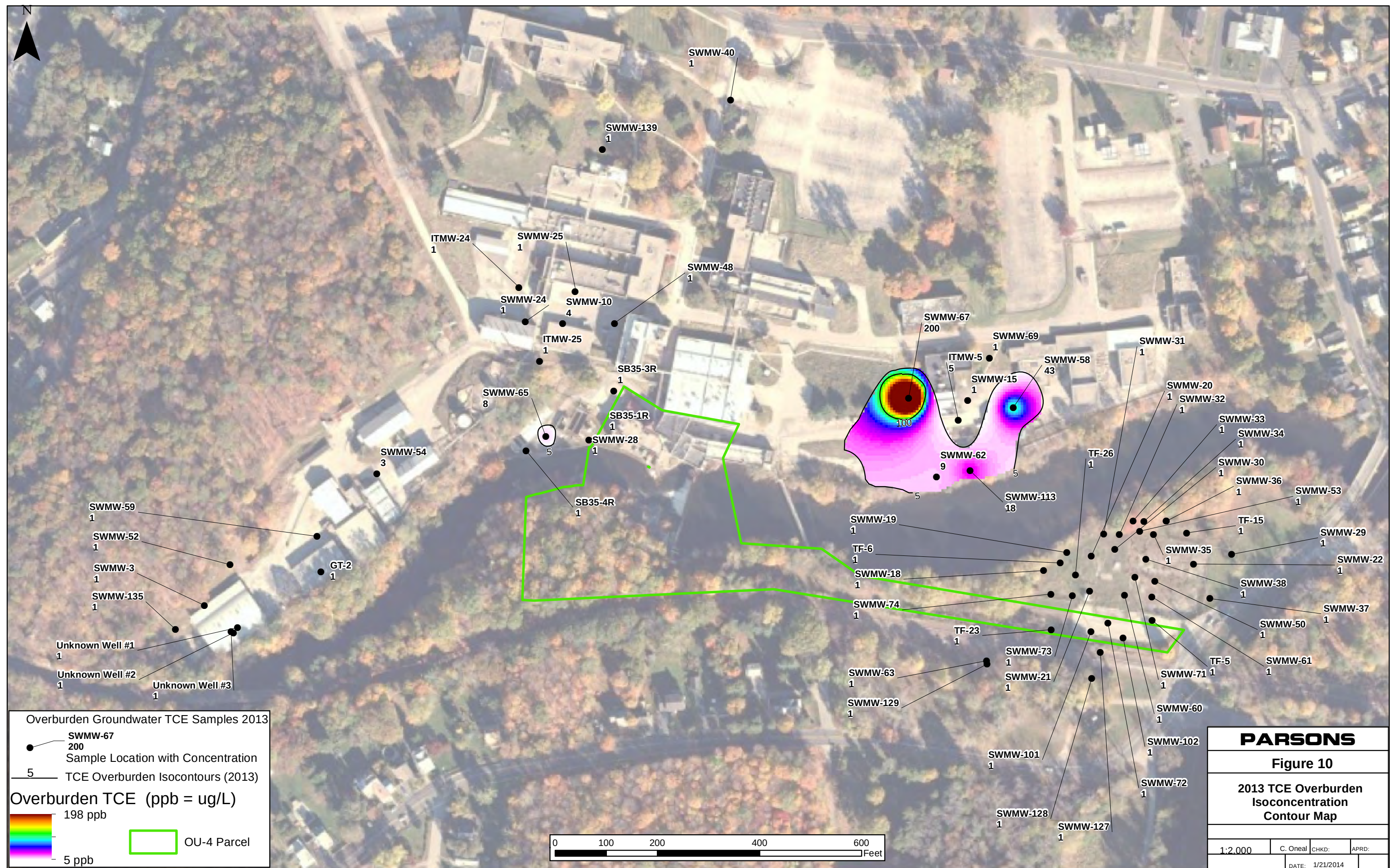
10 ppb

1 ppb

OU-4 Parcel

PARSONS			
Figure 8			
2013 Benzene Overburden Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
DATE: 1/21/2014			





Overburden Groundwater TCE Samples 2013

● SWMW-67
200
Sample Location with Concentration

5 TCE Overburden Isocontours (2013)

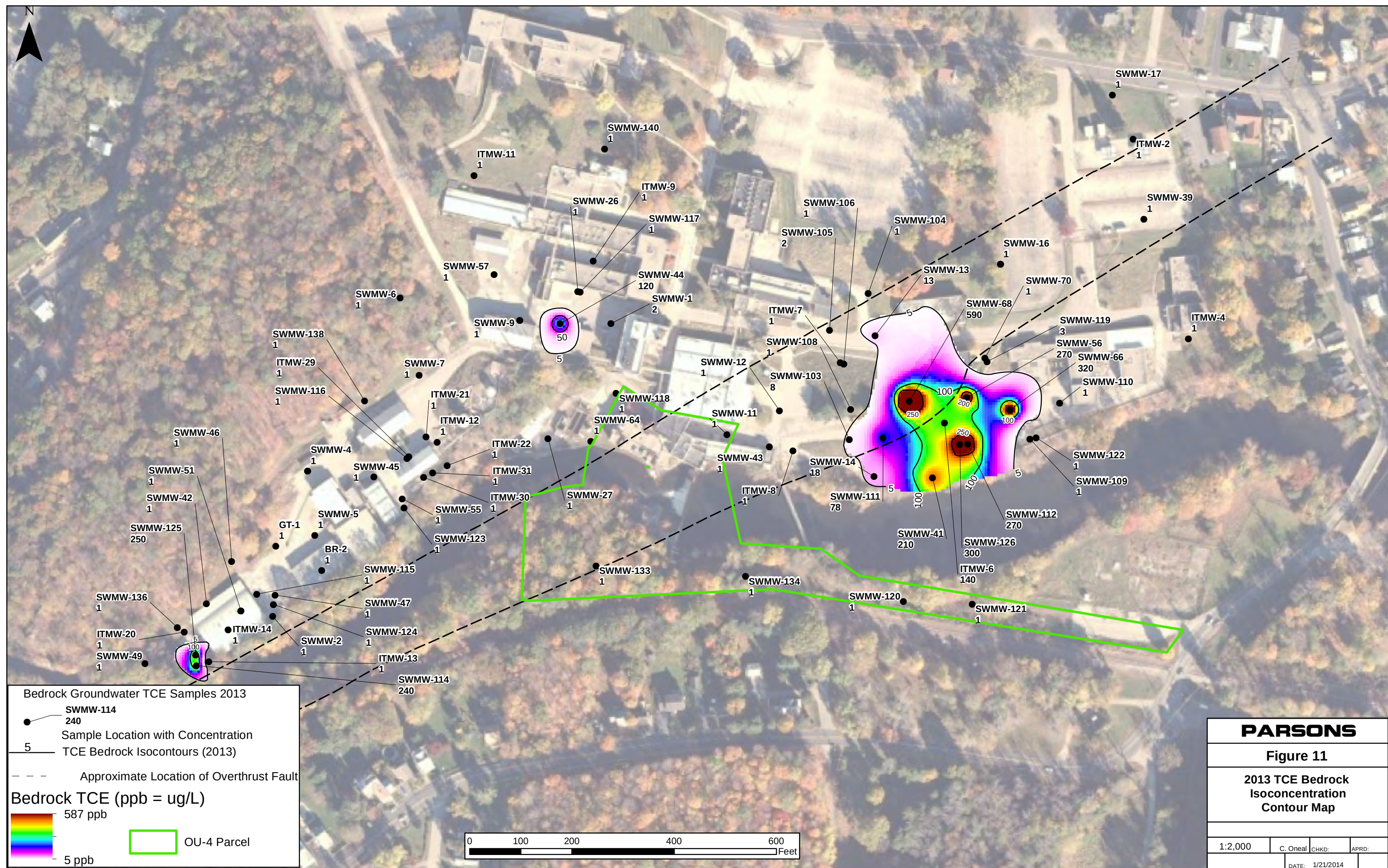
Overburden TCE (ppb = ug/L)

198 ppb

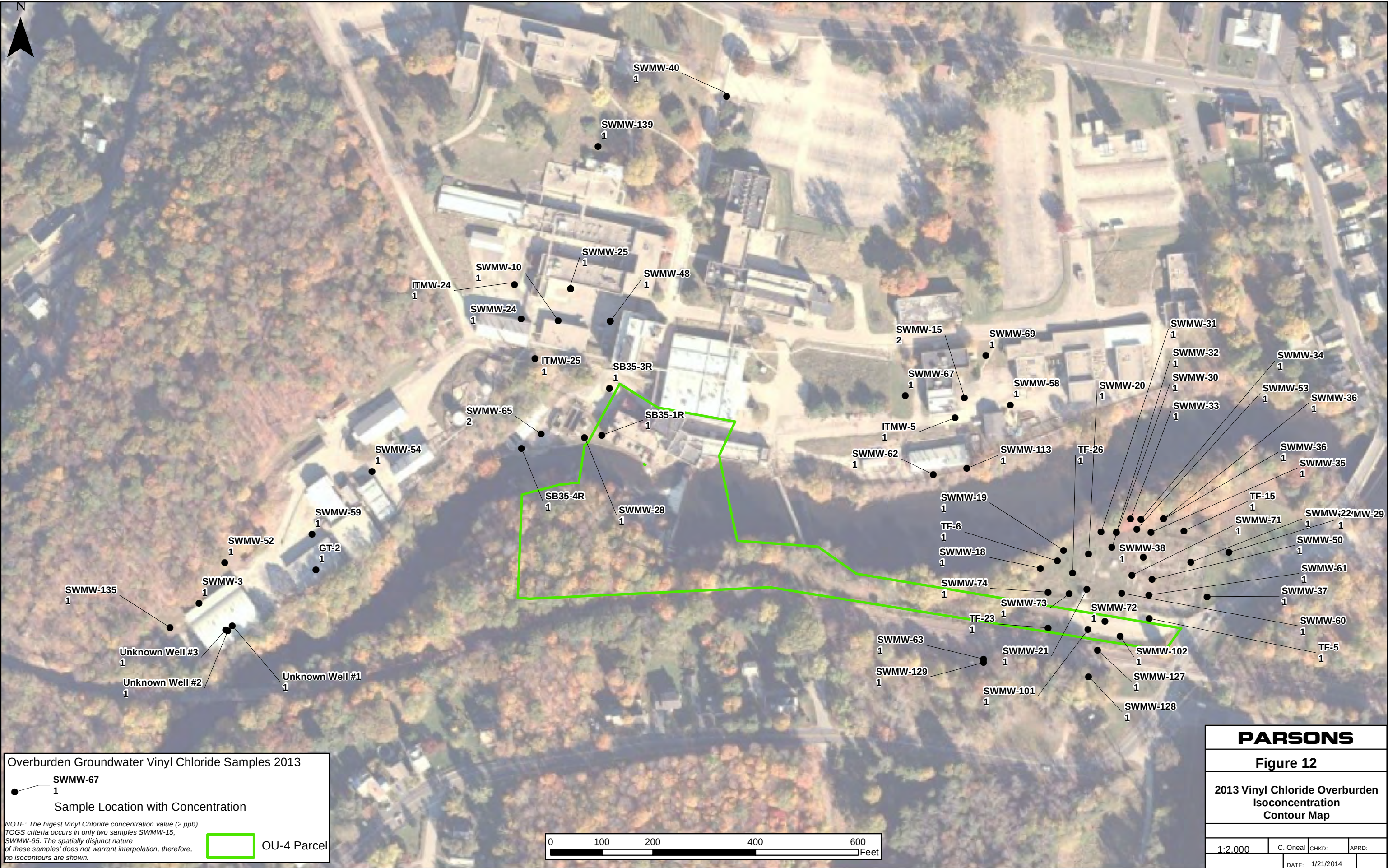
5 ppb

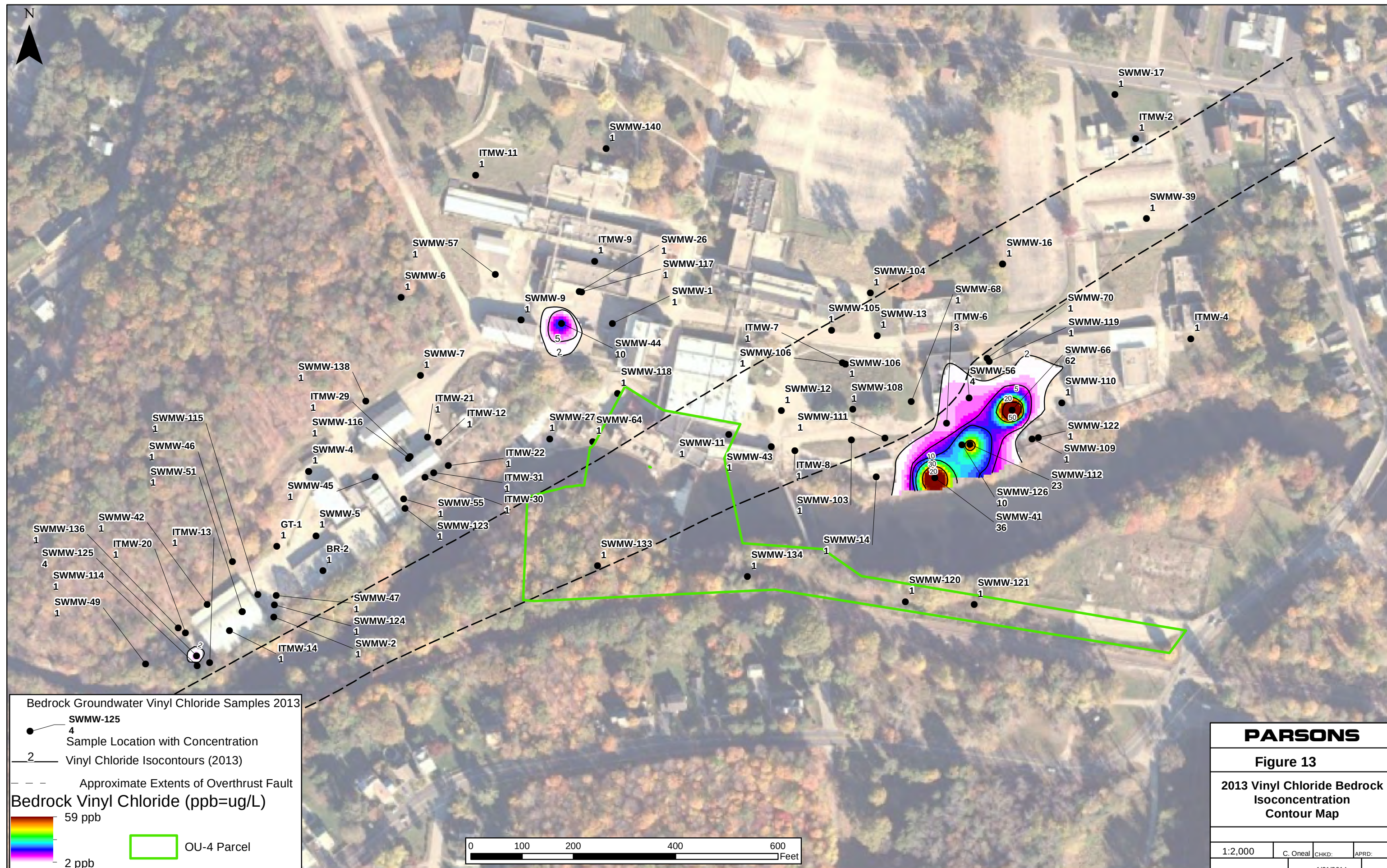
OU-4 Parcel

PARSONS			
Figure 10			
2013 TCE Overburden Isoconcentration Contour Map			
1:2,000	C. Oneal	CHKD:	APRD:
DATE: 1/21/2014			

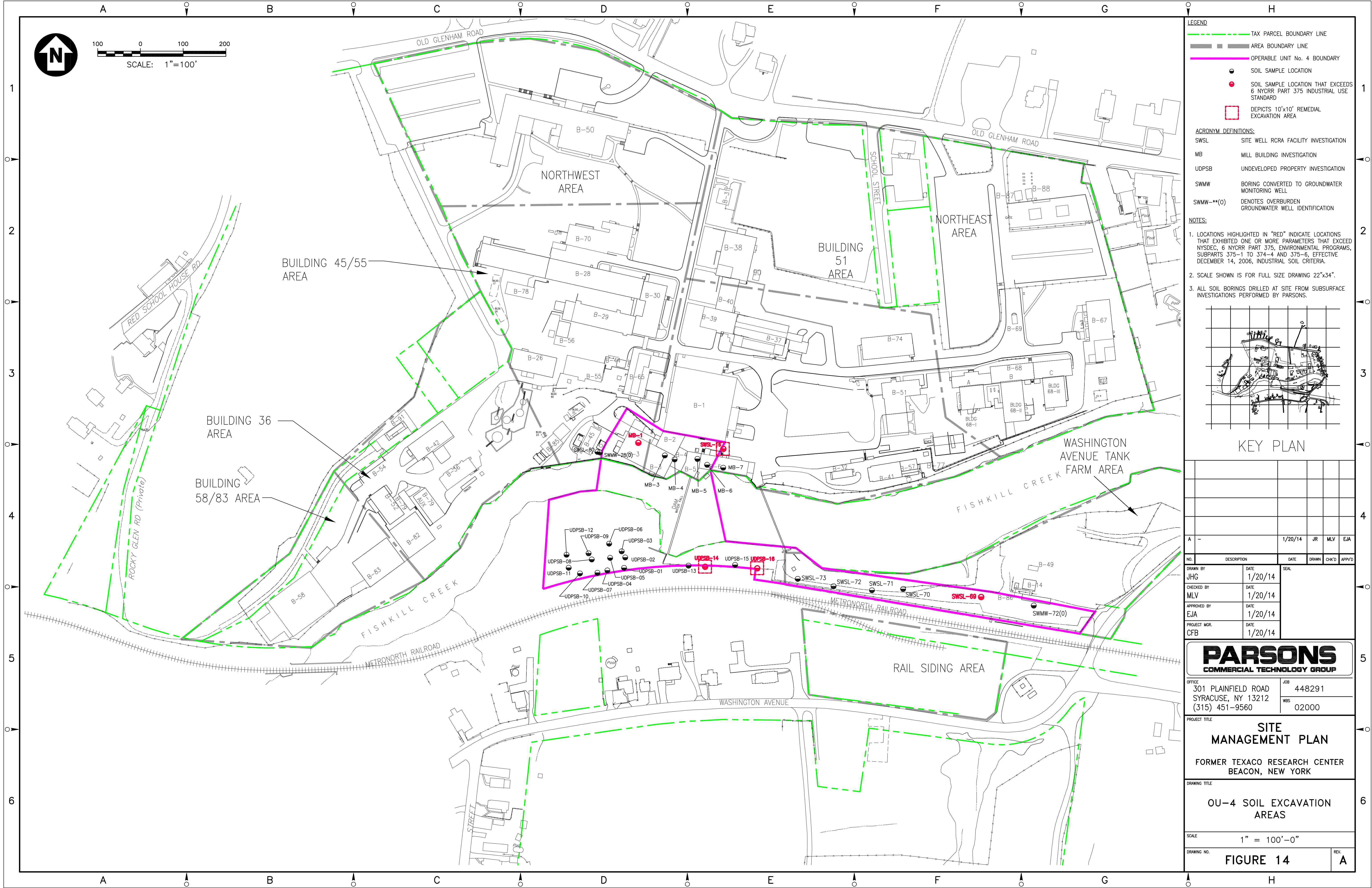


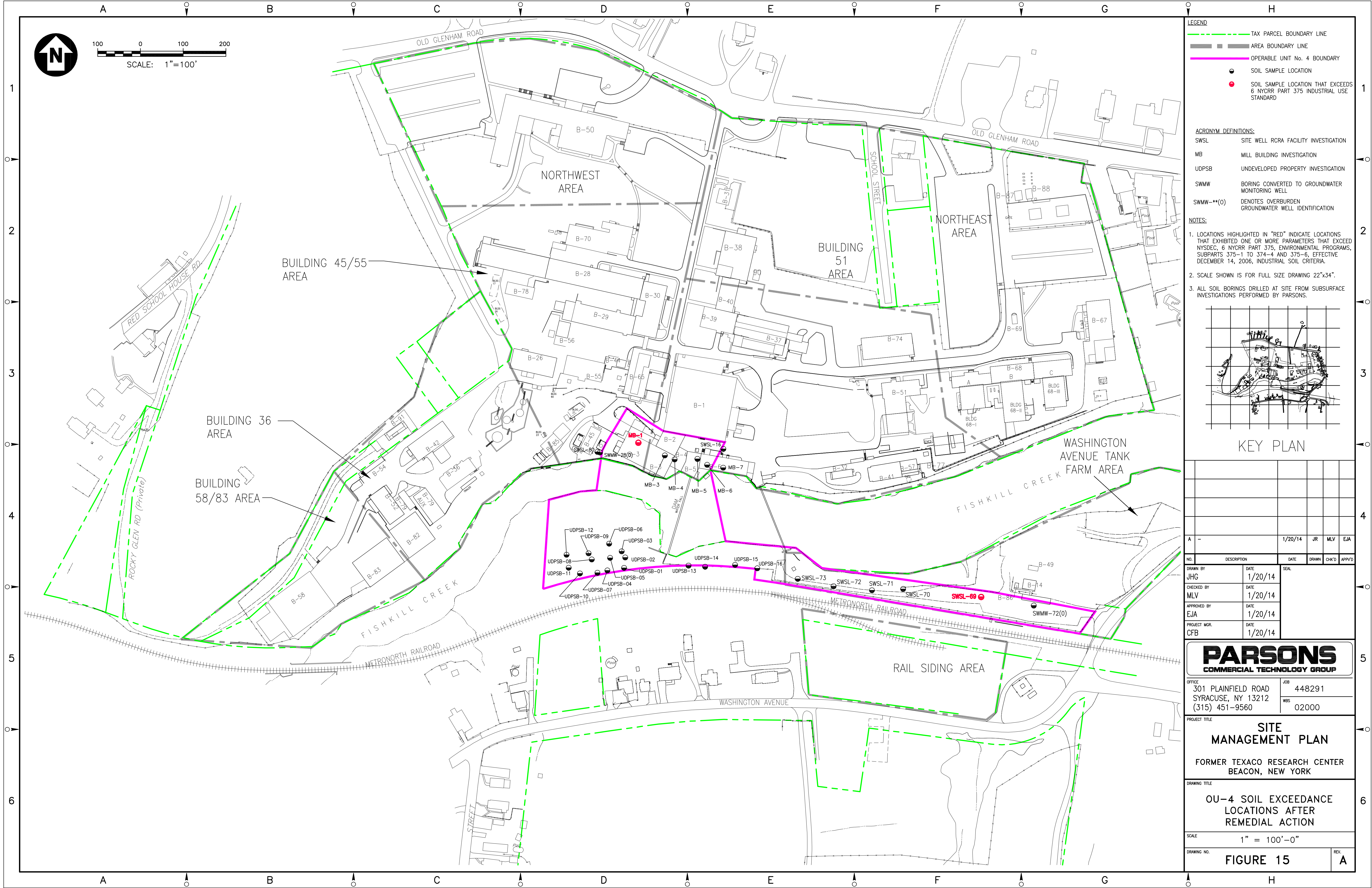
Path: G:\GIS\Chevron\MXD\2014\TCE_BEDROCK_2013.mxd





Path: G:\GIS\Chevron\MXD\2014\VC_BEDROCK_2013.mxd





APPENDIX A

ENVIRONMENTAL EASEMENT

APPENDIX A

ENVIRONMENTAL EASEMENT

KEANE & BEANE P.C.
ATTORNEYS AT LAW

■ Main Office
445 Hamilton Avenue
White Plains, NY 10601
Phone 914.946.4777
Fax 914.946.6868

■ Mid-Hudson Office
200 Westage Business Center
Fishkill, NY 12524
Phone 845.896.0120

February 13, 2015

***VIA OVERNIGHT COURIER
AND VIA EMAIL (COVER LETTER
AND CERTAIN ATTACHMENTS IN
ELECTRONIC FORMAT)***

Andrew Guglielmi, Esq.
Office of General Counsel
NYS Dept. of Environmental Conservation
625 Broadway
14th Floor
Albany, New York 12233-1500

Re: Environmental Easement for
Former Chevron/Texaco Beacon (a/k/a Texaco
Research Center)
Site ID No. 314004
NYSDEC Part 373 No. 3-1330-00048/16/0

NICHOLAS M. WARD-WILLIS
Principal Member
nward-willis@kblaw.com
Also Admitted in CT

Dear Andy:

As you are aware, the above-referenced Site requires an Environmental Easement as part of the remediation process. All documentation required as part of NYSDEC's Environmental Easement package is attached. For ease of your convenience I have identified below each document being submitted and indicated the supporting exhibit labelling.

The following documents are submitted:

Exhibit A – Environmental Easement Checklist -
Certification signed by a representative of the owner and
myself as attorney for the owner.

Exhibit B – last owner search conducted by National
Real Estate Services, Inc. confirming that title is vested
in Chevron U.S.A. Inc. which acquired title by Deed
from Texaco, Inc. dated December 31, 2001 and
recorded December 31, 2001 in the Dutchess County
Clerk's Office in Document No. 02-2002-12588. Please

Andrew Guglielmi, Esq.
February 13, 2015
Page 2

note this Deed covers Lot 3 and more, as Lot 3 was created pursuant to subdivision granted by the Town of Fishkill as reflected on the subdivision plat filed on August 21, 2012 in the Dutchess County Clerk's Office as Map No. 12406.

Exhibit C - A copy of the relevant portion of the tax map relating to the subject property and property card for this parcel is attached. The Dutchess County tax map is also viewable online by visiting geoaccess.co.dutchess.ny.us/parcelaccess and then searching the subject Tax ID No. (812290) within the search function for the Town of Fishkill.

Exhibit D - Two original easements of the NYSDEC approved form environmental easement, signed by Brian J. Kelly, Real Property Officer of Chevron U.S.A., Inc., are enclosed and an electronic version is being conveyed along with the transmittal of a copy of this letter being sent via electronic mail to you and Mr. Patel, the Project Manager.

Exhibit E - I have attached the following legal organizational documents as required in Item 2 of the Checklist: 1) the Authority Certificate for Brian J. Kelly dated December 16, 2014 as well as 2) the restated Articles of Incorporation for Chevron U.S.A., Inc.

Exhibit F - The legal description of the easement area in Word format is being sent via electronic mail transmission of this submission as well as a hard copy included in this exhibit.

Exhibit G - One full sized copy of the signed survey in accordance with the NYSDEC survey requirements is being transmitted to you and Mr. Patel in the packet being submitted via overnight mail as well as one copy being transmitted as an attachment (as an Auto Cad and 600 DPI scan files) to the letter being transmitted via email.

Andrew Guglielmi, Esq.
February 13, 2015
Page 3

Exhibit H – Lot 3 is located entirely within the Town of Fishkill, Dutchess County and the draft notice to the Town of Fishkill Town Supervisor with appropriate site – specific provisions is attached for the Department's review and comment.

Exhibit I – The New York State Transfer Form TP-584 duly signed by Mr. Kelly on behalf of Chevron is attached.

The draft Site Management Plan is being submitted to Mr. Patel by Craig Butler of Parsons under cover of separate letter. We appreciate your Department's prompt attention to the review of this matter and issuance of acceptance of the SMP and the Environmental Easement along with the Assurance Letter that will be issued to Chevron that can be used in connection with the transfer of Lot 3 to the Purchaser.

Upon your review of the attached documents, kindly contact me should you require any additional information or have any questions. Thank you for your attention.

Very truly yours,



Nicholas M. Ward-Willis

NMW/sj

ecc: Paul Patel (via electronic mail and overnight delivery)
Leon Drozd, Esq.
Armistead D. Burks
Mark Hendrickson
Monica Heavey
Craig Butler

EXHIBIT A

**ENVIRONMENTAL EASEMENT
CHECKLIST/CERTIFICATION**

SITE No. 314004

The following requirements and attachments must be included as part of the submission to the Department for an Environmental Easement. Upon completion of the review, an attorney must sign the certification certifying that they have fully completed the checklist. The Department will not accept submissions which have not been signed and certified as complete by both the Remedial Party and Remedial Party's Attorney.

1) Special Circumstances

The last owner search was completed and the deed transfer is by Quit Claim or other restricted transfer deed ☐ Yes ☒ No

The property in the Brownfield Cleanup Agreement includes lands under water ☐ Yes ☒ No

The property has multiple owners ☐ Yes ☒ No

If you answered "Yes" to any of these items, contact the Department's Environmental Easement contact person for a determination as to whether further title work is necessary.

2) Verification of ownership of the property

- ☒ Submitted documentation (such as a corporate resolution) that the signatory on the easement has the authority to sign the Easement.
- ☒ Current Deed has been reviewed and correct name of owner has been verified.
- ☒ Ownership of the property matches the current deed.
- ☒ Updated copies of legal organizational documents have been reviewed and are included. Examples of the appropriate documentation will include, for:
 - corporations: articles of incorporation, organizational agreements, minutes of annual meetings, resolutions, authorities for signature;
 - partnerships: a copy of the partnership agreement; verification that necessary parties are participating in the Easement;
 - trusts: trust agreement, affidavit of no change in the trust; and
 - estates: estate letters, powers of attorney.

3) Verification of Property Subject to Easement

- ☒ Description of the property in the Easement and DEC Agreement/Order/SAC matches description of property in the deed (Separate submittal must be included to explain to the satisfaction of the Department why there is any discrepancy).
- ☒ The Tax Map Section, Block and Lot (SBL) matches on all documents.

4) Survey Review

- ☒ Survey includes metes and bounds description.

- ☒ Survey includes a graphic scale.
- ☒ Survey includes Tax Map Section, Block and Lot.
- ☒ Survey includes physical address and is consistent with the DEC Agreement/Order/SAC.
- ☒ The survey must bear the name, address, telephone number, signature and certification of the professional land surveyor who performed the survey, his or her official seal and registration number, the date the survey was completed, the dates of all of the surveyor's revisions.
- ☒ The survey boundaries must be drawn to a convenient scale, with that scale clearly indicated. A graphic scale, shown in feet and meters, must be included.
- ☒ The symbols and abbreviations that are used on the survey must be identified by the use of a legend.
- ☒ Diagrams must be accurately presented.
- ☒ The point of beginning of the legal description must be shown.
- ☒ The legal description must be correct.
- ☒ The legal description must state the acreage.
- ☒ If the deed(s) description differs from the measured bearings/angles/distances, both must be indicated on the survey.
- ☒ The survey must show the location of all buildings/monuments/overlaps/encroachments upon the surveyed property with their locations defined by measurement perpendicular to the nearest perimeter boundaries.
- ☒ The survey must depict the location of visible improvements within five feet of each side of boundary lines.
- ☒ The survey must show ponds, lakes, springs, rivers or a natural water boundary bordering on or running through the surveyed property; the survey must measure the location of the natural water boundary and note on the survey the date of the measurement.
- ☒ The survey must correctly depict the environmental easement area with corresponding metes and bounds description and acreage, and include the following sentence: *"This property is subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@dec.ny.gov".* This reference must be located on the face of the survey and be in at least 15-point type.
- ☒ If the survey consists of more than one sheet, sheets must be numbered and the total number of sheets must be indicated on each sheet.
- ☒ In addition to county-specific requirements, submittal of the approved survey to the Department must include the following:
 - A "D" sized copy (24" x 36") of the final signed, stamped map
 - A 600 DPI scan of the final signed, stamped map
 - An Autocad .dwg or exported .dxf file of the polyline (at a minimum) of the final survey

5) Review of Easement

- ☒ Attorney certifies Easement is in the form provided by the Department and that entries have been made only in those sections where authorized.
- ☒ Verification that the proper party has signed the Easement.

- ☒ Acknowledgement is in the proper form, notary stamp is clear and has a current expiration date.
- ☒ Name, property address, SBL, engineering controls/institutional controls, SMP references and any information that was inserted into the Easement form has been verified as correct and accurate.
- ☒ Two original Easements have been signed by the proper party.

6) Submissions

- ☒ The Environmental Easement Package being submitted to the Department includes the applicable documents set forth in Attachment A.

PLEASE READ THE FOLLOWING CAREFULLY

The Remedial Party and the Remedial Party's attorney understand and acknowledge that the New York State Department of Environmental Conservation will rely on each and every answer in this statement: (1) to determine whether the Easement Package can be reviewed in a timely fashion; and (2) to determine whether the Easement Package should be approved. The Remedial Party and the Remedial Party's attorney understand and acknowledge that any false statement or misrepresentation herein will constitute cause for the revocation of the Certificate of Compliance issued in reliance on this checklist and accompanying documentation. The Remedial Party and the Remedial Party's attorney further acknowledge that the failure to provide the Department with valid and enforceable Environmental Easement on the property may be grounds for the Department to revoke any Certificate of Completion for the site.

Statement of Certification and Signatures

1) By Remedial Party:

I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I further acknowledge that the failure to provide the Department with valid and enforceable Environmental Easement on the property may be grounds for the Department to revoke any Certificate of Completion for the site.

Date: 1/26/15 Signature: Brian J. Kelly

Print Name: Brian J. Kelly

2) By Remedial Party's Attorney:

I hereby affirm that I am the attorney for Chevron U.S.A. Inc. (entity); that I am authorized by that entity to make this certification; that this certification was prepared by me or under my supervision and direction; and that information provided on this form and its attachments is true and complete to the best of my knowledge and belief.

Date: 2/11/15 Signature: Nicholas M. Ward-Willis

Print Name: Nicholas M. Ward-Willis

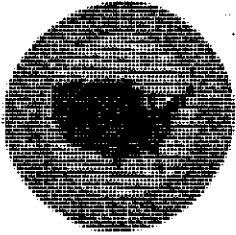
Attachment

Attachment A

Documents required for a complete Environmental Easement package:

- 1) Copy(ies) of current deed(s) and supporting title documentation (see Department Title Requirements).
- 2) Copy of Tax map.
- 3) Two original easements and an electronic version submitted to both the project manager and project attorney.
- 4) Proof of authority to obligate owner of property as set forth in "Verification of ownership of property" on the Easement checklist.
- 5) Legal description of the easement area in a Department approved electronic form (i.e., Word).
- 6) Signed Survey, one full size copy and an electronic survey for review to both the project manager and project attorney.
- 7) A draft Notice to Municipality, with appropriate site-specific provisions.
- 8) Easement Checklist with certification signed by Remedial Party and Remedial Party's attorney.
- 9) Signed transfer tax forms (TP-584 or ACRIS forms)

EXHIBIT B



NATIONAL REAL ESTATE SERVICES, INC.

222 Bloomingdale Road, Suite 306 • White Plains, NY 10605
914-328-1515 Fax: 914-686-1440

JOSEPH S. PETRILLO, ESQ.
President

JOHN M. MARTIN, ESQ.
Vice President and
General Counsel

January 15, 2015

Nicholas M. Ward-Willis, Esq.
Keane & Beane, P.C.
445 Hamilton Avenue
Suite 1500
White Plains, NY 10601

Re: ACC-5448
Owner: Chevron U.S.A. Inc.
Premises: Town of Fishkill, County of Dutchess
Section: 6055 Block: 16 Lot: 812290

Dear Mr. Ward-Willis:

As per your request, this company has conducted a Last Owner search in the Dutchess County Clerk's Office in connection with the above and finds as follows:

TITLE VESTED IN:

CHEVRON U.S.A. INC. having acquired title by deed from Texaco, Inc. dated December 31, 2001 and recorded December 31, 2001 in Document No. 02-2002-12588 (covers premises herein and more)

Effective dated of this search is December 15, 2014.

The limit of liability is limited to the amount paid for the search.

Also enclosed, please find our bill for this search.

Should you have any questions, kindly contact the undersigned.

Very Truly Yours,

All New York Title Agency, Inc.

By:

Augustine A. Arena
Augustine A. Arena

Encls

AAA/pg

DUTCHESS COUNTY CLERK RECORDING PAGE

RECORD & RETURN TO:

KEANE & BEANE PC
ONE NORTH BROADWAY
WHITE PLAINS NY 10601

RECORDED: 12/31/2002

AT: 09:40:27

DOCUMENT #: 02 2002 12588

RECEIVED FROM: KEANE & BEANE

GRANTOR: TEXACO INC
GRANTEE: CHEVRON USA INC

RECORDED IN: DEED
INSTRUMENT TYPE:

TAX
DISTRICT: FISHKILL

EXAMINED AND CHARGED AS FOLLOWS:

RECORDING CHARGE: 192.00

NUMBER OF PAGES: 45

TRANSFER TAX AMOUNT:

TRANSFER TAX NUMBER: #004127

E & A FORM: Y

TP-584: Y

*** DO NOT DETACH THIS
*** PAGE
*** THIS IS NOT A BILL

COUNTY CLERK BY: DRK /
RECEIPT NO: E93782
BATCH RECORD: B00127

Richard W. Anderson
RICHARD W. ANDERSON
County Clerk



**BARGAIN AND SALE DEED WITH COVENANT AGAINST GRANTOR'S
ACTS (INDIVIDUAL OR CORPORATION)**

FORM 8007

CAUTION: THIS AGREEMENT SHOULD BE PREPARED BY AN ATTORNEY AND REVIEWED BY ATTORNEYS FOR SELLER AND
PURCHASER BEFORE SIGNING.

THIS INDENTURE, made as of December 31, 2002,

between

TEXACO INC., with an address of c/o Chevron/Texaco Business and Real Estate Services, Attention:
Steven A. Berg, 2613 Camino Ramon, 2nd Floor, San Ramon, CA 94583-4289

party of the first part, and

CHEVRON U.S.A. INC., with an address of c/o Chevron/Texaco Business and Real Estate Services,
Attention: J.J. Ely, 2613 Camino Ramon, 2nd Floor, San Ramon, CA 94583-4289

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and No Cents
(\$10.00), lawful money of the United States, paid by the party of the second part, does hereby grant and
release unto the party of the second part, the heirs or successors and assigns of the party of the second part
forever,

ALL that certain plot, piece or parcel of land with the buildings and improvements thereon erected,
situate, lying and being in the Town of Fishkill, Dutchess County, State of New York and more
particularly described on Schedule "A" attached hereto and made a part hereof,

BEING and intended to be the same premises acquired by the party of the first part by deeds recorded
in the Dutchess County Clerk's Office and as more particularly shown on Schedule "B" attached hereto
and made a part hereof, excepting therefrom any part to which the party of the first part no longer has any
right, title and interest,

BEING and intended to be all of the party of the first part's land with the buildings and
improvements thereon erected, situate, lying and being in the Town of Fishkill, Dutchess County, State of
New York.

The above described property does not constitute all, or substantially all, of the assets of the party of
the first part.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets
and roads abutting the above described premises to the center lines thereof,

TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to
said premises,

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or
successors and assigns of the party of the second part forever.

AND the party of the first part, covenants that the party of the first part has not done or suffered
anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the
party of the first part will receive the consideration for this conveyance and will hold the right to receive
such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement
and will apply the same first to the payment of the cost of the improvement before using any part of the
total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this Indenture so
requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed as of the day and
year first above written.

TEXACO INC.

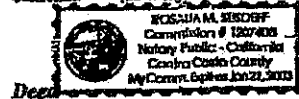
By: J. A. Berg
Name: S.A. Berg
Title: Assistant Secretary

Acknowledgment by a Person Outside New York State (RPL § 309-b)

STATE OF CALIFORNIA

COUNTY OF CONTRA COSTA

On the 18th day of December in the year 2002 before me, the undersigned, personally appeared S.A. Berg personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in San Ramon, California (insert city or political subdivision and state or county or other place acknowledgment taken)



Rosalia M. Mendez
Signature and office of individual taking acknowledgment)

Title No. n/a

TEXACO INC.

To

CHEVRON U.S.A. INC.

Section: 6053
Block: 16
Lot(s): 839339, 908283, 879250 & 795253
Town: Fishkill
Street Address: Old Glenham Road
Washington Avenue

Section: 6155
Block: 03
Lot(s): p/o 140293
Town: Fishkill
Street Address: Washington Avenue

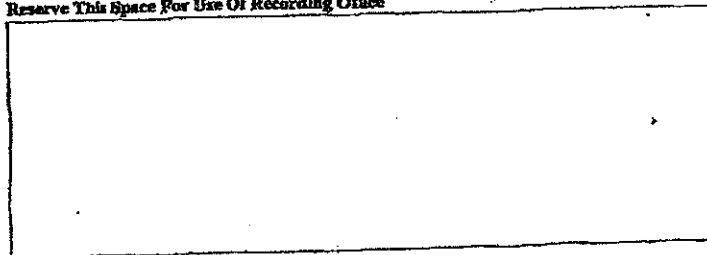
Section: 6055
Block: 15
Lot(s): 730327 & 686282
Town: Fishkill
Street Address: Old Glenham Road

Section: 6055
Block: 20
Lot(s): 835088
Town: Fishkill
Street Address: 591 Washington Avenue

Return By Mail To:

Patrick J. O'Sullivan, Esq.
Keane & Beane, P.C.
One North Broadway
White Plains, New York 10601

Reserve This Space For Use Of Recording Office



Stewart Title
Insurance Company

Title No: 02A-18651-D

Schedule A Description

ALL those certain plots, pieces or parcel of land situate, lying and being in the Town of Fishkill, County of Dutchess and State of New York bounded and described as follows:

PARCEL 1

ALL that tract or parcel of land shown on the Hopkins map as Parcel No. 1, beginning at a concrete monument, MON. No. 1, on the south side of the road leading from Beacon to Fishkill, former State Road, at the northeast corner of lands now or formerly of the Church of St. John the Baptist; and

RUNNING THENCE along said road, North 78 degrees 59 minutes 50 seconds East 324.22 feet to lands of the Dutch Reformed Church;

THENCE South 6 degrees 29 minutes 30 seconds East 221.69 feet;

THENCE North 82 degrees 40 minutes 40 seconds East 198.41 feet;

THENCE North 5 degrees 45 minutes 35 seconds West 210.57 feet, said course passing through a concrete monument, MON. No. 2, located 10 feet south of the southerly side of the road from Beacon to Fishkill, former State Road;

THENCE South 65 degrees 09 minutes 50 seconds East along said road 71.27 feet, said course passing through a concrete monument, MON. No. 2A, located 10 feet east of said lands of the Dutch Reformed Church,

South 55 degrees 09 minutes 50 seconds East 65.12 feet;
South 64 degrees 06 minutes 40 seconds East 207.13 feet;
South 36 degrees 13 minutes 20 seconds East 29.43 feet;
South 2 degrees 45 minutes 30 seconds East 26.39 feet;

THENCE South 13 degrees 23 minutes 40 seconds West along the west side of Store Lane, 340.76 feet to the north side of New Street;

Schedule A Description, Page 1

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

542

**Stewart Title
Insurance Company**

THENCE along the north side of New Street, North 83 degrees 38 minutes 00 seconds West 366.61 feet to an iron pin, MON. No. 9;

THENCE South 1 degree 12 minutes 10 seconds West 232.40 feet to an iron pin, MON. No. 10, on the north side of Church Street;

THENCE along the north side of Church Street, South 73 degrees 26 minutes 50 seconds West 77.64 feet to a concrete monument, MON. No. 11, in the north side of Church Street and to the said lands now or formerly of the Church of St. John the Baptist;

THENCE along said lands,
North 28 degrees 11 minutes 10 seconds West 135.46 feet;
North 27 degrees 16 minutes 30 seconds West 112.84 feet;
North 21 degrees 11 minutes 50 seconds West 110.98 feet;
North 24 degrees 51 minutes 00 seconds West 390.10 feet to the south side of the road leading from Beacon to Fishkill former State Road the place of BEGINNING.

EXCEPTING from the above all that portion decded by The Texas Company to The Town of Fishkill by deed in Liber 797 Page 46.

Schedule A Description, Page 2

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

345

**Stewart Title
Insurance Company**

PARCEL 1A

BEGINNING at a brass marker set in concrete at the point of intersection of the westerly line of St. John Street with the southerly line of Main Street, said marker being identified as MON. No. 1 on a map filed in the Dutchess County Clerk's Office on June 5, 1958 as Map No. 2811; and

RUNNING THENCE along said westerly line of St. John Street, the following:

South 24 degrees 51 minutes 00 seconds East 390.10 feet;
South 21 degrees 11 minutes 50 seconds East 110.38 feet;
South 27 degrees 16 minutes 30 seconds East 112.84 feet; and
South 28 degrees 11 minutes 10 seconds East 135.46 feet to a brass marker set in concrete, said marker being identified as MON. No. 11 on aforesaid Map No. 2811;

THENCE crossing St. John Street, North 71 degrees 10 minutes 45 seconds East 50.68 feet;

THENCE along the easterly line of St. John Street, the following:

North 28 degrees 11 minutes 10 seconds West 143.31 feet;
North 27 degrees 16 minutes 30 seconds West 109.79 feet;
North 21 degrees 11 minutes 50 seconds West 109.32 feet;
North 24 degrees 51 minutes 00 seconds West 379.37 feet to the southerly line of Main Street;

THENCE along the southerly line of Main Street, South 78 degrees 59 minutes 50 seconds West 51.50 feet to the point of **BEGINNING**.

Schedule A Description, Page 3

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises:

Stewart Title
Insurance Company

348

PARCEL 2

ALL that tract or parcel of land shown on the Hopkins' map as Parcel No. 2,

BEGINNING at a concrete monument MON. No. 13, on the southwest corner of New Street and Store Lane;
and

RUNNING THENCE South 13 degrees 23 minutes 40 seconds West 155.90 along the Church Street;

THENCE North 89 degrees 06 minutes 07 seconds West along the north side of Church Street 292.35 feet to an
iron pin MON. No. 15;

THENCE North 1 degree 12 minutes 10 seconds East 182.52 feet to a concrete monument, MON. No. 12 on
the south side of New Street;

THENCE South 83 degrees 38 minutes 00 seconds East along the south side of New Street 326.42 feet to the
point of BEGINNING.

Schedule A Description, Page 4

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any,
of, in and to the land lying in the street in front of and adjoining said premises.

54B

Stewart Title
Insurance Company

PARCEL 3

ALL that lot or parcel of land shown on the Hopkins' map as Parcel No. 3,

BEGINNING at a concrete monument, MON. No. 30 in the north side of the Central New England Railway Company's land at a station 1871+26.44 at the southwest corner of lands now or formerly of the Church of St. John the Baptist; and

RUNNING THENCE North 69 degrees 08 minutes 00 seconds West 2.42 feet to the point of beginning of a curve to the left in the north side of Central New England Railway Company's land, having a radius of 1005.37 feet;

THENCE along said curve 147.58 feet;

THENCE North 28 degrees 53 minutes 30 seconds East 501.97 feet;

THENCE South 15 degrees 44 minutes 40 seconds West along an old wall 202.24 feet;

THENCE South 8 degrees 42 minutes 40 seconds West 291.33 feet to the point of BEGINNING.

Schedule A Description, Page 5

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

548

**Stewart Title
Insurance Company**

PARCEL 4

ALL that lot or parcel of land shown on the Hopkins' map as Parcel No. 4 on the south side of the lands of Central New England Railway Company and the north side of Washington Avenue,

BEGINNING at a concrete monument, MON. No. 43 at the northeast corner of Bridge Street and said Washington Avenue; and

RUNNING North 4 degrees 12 minutes 19 seconds West along the east side of Bridge Street 175.47 feet to the south side of the lands of the Central New England Railway Company;

THENCE South 79 degrees 57 minutes 03 seconds East along lands of the said Central New England Railway Company 631.18 feet;

THENCE South 34 degrees 48 minutes 50 seconds West 166.20 feet to an iron pin in the edge of the pavement, MON. No. 45, in the north side of said Washington Avenue;

THENCE North 82 degrees 03 minutes 30 seconds West along the North side of said Washington Avenue 369.58 feet, North 82 degrees 27 minutes 10 seconds West 148.92 feet to the place of **BEGINNING**.

EXCEPTING from the above all that portion deeded to the Town of Fishkill by deed in Liber 797 Page 46 and Liber 1790 Page 325.

Schedule A Description, Page 6

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

548

Stewart Title
Insurance Company

PARCEL 5

BEGINNING at a point on the southerly line of Washington Avenue, said point being the intersection of the southerly line of Washington Avenue with the westerly line of lands now or formerly Central Hudson Gas & Electric Corporation, said point of beginning being marked by a 1/4 inch iron pin;

THENCE along lands now or formerly Central Hudson Gas & Electric Corporation and passing over eleven 1/4 inch diameter re-bar pins set at 300 foot intervals, South 08 degrees 12 minutes 39 seconds West for a total distance of 3,460.30 feet to a 1/4 inch diameter re-bar pin;

THENCE along the lands now or formerly the Unadilla Provinciate and generally along a stone wall,

North 82 degrees 04 minutes 22 seconds West 536.20 feet to a 1/4 inch diameter re-bar pin; and
North 82 degrees 45 minutes 29 seconds West 662.86 feet to an iron bar found in a stone wall corner;

THENCE along lands now or formerly the Fairview Cemetery Association and generally along a stone wall,

North 07 degrees 10 minutes 01 second East 761.80 feet to a 1/4 inch diameter re-bar pin; and
North 07 degrees 20 minutes 11 seconds East 429.29 feet to a 1/4 inch diameter re-bar pin;

THENCE still along lands now or formerly the Fairview Cemetery Association,

North 06 degrees 20 minutes 41 seconds East 462.98 feet to a 1/4 inch diameter re-bar pin,
North 06 degrees 31 minutes 11 seconds East 333.74 feet to a 1/4 inch diameter re-bar pin; and
North 06 degrees 23 minutes 51 seconds East 146.81 feet to a 1/4 inch diameter re-bar pin;

THENCE still along lands now or formerly Fairview Cemetery Association and lands now or formerly Bueti, Liber 1321 cp 438, North 07 degrees 35 minutes 11 seconds East 215.36 feet to a 1/4 inch diameter re-bar pin;

THENCE still along lands now or formerly Bueti, Liber 1321 cp 438, and along other lands now or formerly Bueti, Liber 1321 cp 433, North 06 degrees 42 minutes 11 seconds East 121.00 feet to a 1/4 inch diameter re-bar pin;

Schedule A Description, Page 7

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

387

**Stewart Title
Insurance Company**

THENCE still along lands now or formerly Bueti, Liber 1321 cp 433, and along lands now or formerly Kelly, Liber 1473 cp 491, and along lands now or formerly Racie, Liber 724 cp 148, North 07 degrees 52 minutes 09 seconds East 121.46 feet to a ¾ inch diameter re-bar pin;

THENCE still along lands now or formerly Racie, Liber 724 cp 148, and along lands now or formerly Austin, Liber 1434 cp 846, and along lands now or formerly VanDewater, Liber 1107 cp 432, and along lands now or formerly Pollicello, Liber 979 cp 570 and along lands now or formerly Wyant, Liber 1440 cp 885 and along lands now or formerly Carroll, Liber 990 cp 493 and along lands now or formerly Haight, Liber 1252 cp 182, and along lands now or formerly Haight, Liber 1546 cp 521, North 06 degrees 47 minutes 11 seconds East 605.53 feet to a ¾ inch diameter re-bar pin;

THENCE along the southerly line of Washington Avenue the following:

North 82 degrees 18 minutes 51 seconds East 181.80 feet to a ¾ inch diameter re-bar pin,
North 82 degrees 33 minutes 01 second East 118.30 feet to a ¾ inch diameter re-bar;
North 85 degrees 20 minutes 44 seconds East 75.01 feet to a ¾ inch diameter re-bar pin;
North 87 degrees 41 minutes 22 seconds East 78.86 feet to a ¾ inch diameter re-bar pin; and
South 88 degrees 45 minutes 08 seconds East 205.28 feet to a ¾ inch diameter re-bar pin;

THENCE along the lands now or formerly Mortensen, Liber 787 cp 247, South 04 degrees 45 minutes 51 seconds East 154.78 feet to a ¾ inch diameter re-bar pin;

THENCE still along lands now or formerly Mortensen, Liber 787 cp 247, and along lands now or formerly Sereda, Liber 1546 cp 894, South 82 degrees 26 minutes 39 seconds East 99.60 feet to a ¾ inch diameter re-bar pin;

THENCE still along lands now or formerly Sereda, Liber 1546, cp 894, North 08 degrees 34 minutes 41 seconds East 150.05 feet to a ¾ inch diameter re-bar pin;

THENCE along the southerly line of Washington Avenue, the following:

North 82 degrees 00 minutes 29 seconds East 289.75 feet to a ¾ inch diameter re-bar pin, along a curve to the left and having a radius of 189.93 feet, and for distance of 209.26 feet to a ¾ inch diameter re-bar pin, and along a curve to the right having a radius of 75.00 feet and for a distance of 47.49 feet to the point or place of BEGINNING.

Schedule A Description, Page 3

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

598

**Stewart Title
Insurance Company**

PARCEL 6

ALL that lot or parcel of land shown on the Hopkins' map as Parcel No. 6,

BEGINNING on the north side of said Washington Avenue at the southeast corner of said lands now or formerly of Knapp at a corner of state; and

RUNNING THENCE North 4 degrees 18 minutes 02 seconds East 188.63 feet to the south line of lands of the Central New England Railway Company;

THENCE along said Railway Company's lands easterly on a curve to the right with a radius of 1095.13 feet, a distance of 140.00 feet to lands now or formerly of J.J. Murphy;

THENCE along said Murphy's land, South 3 degrees 57 minutes 28 seconds East 203.42 feet to the north side of said road and post at the west end of the state;

THENCE along said road, South 82 degrees 16 minutes 00 seconds West 164.59 feet to the place of **BEGINNING**.

Schedule A Description, Page 9

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

543

**Stewart Title
Insurance Company**

PARCEL 9

ALL that tract or parcel of land as shown on the Hopkins' map as Parcel No. 9,

BEGINNING at a corner in the north side of the lands of the Central New England Railway Company where a line projected in a northerly direction from the concrete monument, MON. No. 41, through concrete monument MON. No. 31, intersects with said north side of Central New England Railway Company's lands;

THENCE North 4 degrees 18 minutes 02 seconds East 217.8 feet more or less, and passing through said concrete monument MON. No. 31, located 15 feet north of the said corner of beginning;

THENCE eastwardly along the southerly bank of Fishkill Creek as it winds and turns 1,850 feet more or less at a corner where a line projected in a direction, North 14 degrees 24 minutes 50 seconds East from a concrete monument MON. No. 36, located on the northeasterly side of a road projected from Washington Avenue;

RUNNING in a northeasterly direction to a public bridge across Fishkill Creek intersects with the southerly bank of said Creek;

THENCE South 14 degrees 24 minutes 50 seconds West 48.6 feet more or less to said concrete monument MON. No. 36;

THENCE South 50 degrees 54 minutes 20 seconds West 359.46 feet to a concrete monument, MON. No. 35, located at a turn in the said road on the northwesterly side thereof and the northerly side of the land of the Central New England Railway Company;

THENCE North 79 degrees 57 minutes 03 seconds West 350.95 feet to a concrete monument, MON. No. 34;

THENCE South 10 degrees 2 minutes 57 seconds West 50 feet to an iron pin, MON. No. 13;

THENCE North 79 degrees 57 minutes 03 seconds West continuing along the north side of the lands of the Central New England Railway Company 409.52 feet to an iron pin, MON. No. 32;

THENCE continuing westerly along the north side of said Railway Company's land on a curve to the left with a radius of 1,195.13 feet, a distance of 562.95 feet to the place of BEGINNING.

Schedule A Description, Page 18

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

548

**Stewart Title
Insurance Company**

PARCEL 10

ALL that tract or parcel of land, as shown on Hopkins' map as Parcel No. 10 with certain exceptions therein as contained in the following description, beginning at a concrete monument MON. No. 23, located at the southeast corner of Store Lane and the road from Fishkill to Beason, former State Road;

THENCE along said road,
South 85 degrees 12 minutes 05 seconds East 203.91 feet;
South 88 degrees 36 minutes 33 seconds East 100.73 feet to a concrete monument, MON. No. 25, at the southwest corner of Dart Street and said road;

THENCE South 5 degrees 01 minute 13 seconds East along the westerly side of Dart Street 105.00 feet to lands of the Union Free School;

THENCE South 84 degrees 33 minutes 57 seconds West 100.00 feet;

THENCE South 5 degrees 06 minutes 15 seconds East along land of the Union Free School 490.51 feet;

THENCE North 84 degrees 52 minutes 00 seconds East along the south side of Thorne Street 139.97 feet;

THENCE South 5 degrees 11 minutes 46 seconds East 100.04 feet;

THENCE North 84 degrees 48 minutes 20 seconds East 10.79 feet;

THENCE South 7 degrees 16 minutes 20 seconds East passing through an iron pin, MON. No. 46, 162.5 feet more or less to the northerly bank of Fishkill Creek;

THENCE westerly down and along said Creek as it winds and turns 1,610 feet more or less to a point on the north side of the lands of the Central New England Railway Company where it intersects the northwesterly bank of said Creek; and

RUNNING THENCE South 88 degrees 16 minutes 00 seconds West 62.3 feet more or less along the said Railway Company's lands to a point of curve;

Schedule A Description, Page 11

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

CAB

**Stewart Title
Insurance Company**

THENCE still along said Railway Company's lands on a curve to the right with a radius of 903.32 feet a distance of 200.63 feet to a concrete monument, MON. No. 16, at a point where the north side of the said Railway Company's lands intersects with the southeasterly side of Church Street;

THENCE North 63 degrees 30 minutes 30 seconds East 125.41 feet along the southeasterly side of Church Street; and

CONTINUING along North 48 degrees 54 minutes 20 seconds East 141.14 feet;
North 28 degrees 42 minutes 50 seconds East 255.99 feet;
North 54 degrees 04 minutes 00 seconds East 437.10 feet;
North 71 degrees 59 minutes 40 seconds East 114.78 feet and passing through a concrete monument MON. No. 21, 10 feet west of succeeding angle point;
South 89 degrees 06 minutes 07 seconds East 317.29 feet, and passing through a concrete monument MON. No. 21A located 10 feet east of the preceding angle point;

THENCE North 13 degrees 23 minutes 40 seconds East along the east side of Store Lane 569.49 feet to the place of BEGINNING.

Schedule A Description, Page 12

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

514

**Stewart Title
Insurance Company**

PARCEL 11

BEGINNING at an iron pin located in the southerly line of Thorne Street and the easterly property line of the Texas Company;

THENCE along the southerly line of Thorne Street, North 84 degrees 52 minutes 00 seconds E, a distance of fifty and twenty-nine hundredths (50.29) feet to an iron pin in lands of Flynn;

THENCE along line of lands of Flynn, South 4 degrees 52 minutes 33 seconds East a distance of ninety-nine and seventy-seven hundredths (99.77) feet to a point;

THENCE still along line of lands of Flynn, South 84 degrees 29 minutes 19 seconds West a distance of thirty-eight and ninety-four hundredths (38.94) feet to an iron pin in lands of The Texas Company;

THENCE along lands of The Texas Company, South 84 degrees 48 minutes 28 seconds West a distance of ten and seventy-nine hundredths (10.79) feet to a point;

THENCE still along lands of The Texas Company, North 5 degrees 11 minutes 46 seconds a distance of one hundred and four hundredths (100.04) feet to the place of **BEGINNING**.

Schedule A Description, Page 13

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

Stewart Title
Insurance Company

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PARCEL 12

ALL those certain plots, pieces or parcels of land being shown and designated as Store Lane and New Street on a certain map entitled: "Land Map Beacon Research Laboratory Glensham-New York," dated April 19, 1938 and filed in the Dutchess County Clerk's Office on May 18, 1938 as Map No. 1770.

Schedule A Description, Page 14

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

518

**Stewart Title
Insurance Company**

PARCEL 13

BEGINNING at a point on the southerly side of Main Street on the road leading from Beacon to Fishkill, at the division line between the premises herein described and lands now or formerly of Miller;

THENCE southerly along the lands of Miller, the following two courses and distances:

South 8 degrees 00 minutes 40 seconds West 165.6 feet and South 83 degrees 32 minutes East 214.24 feet to an iron pipe and land now or formerly of Canbray;

THENCE along the land now or formerly of Canbray along a stone fence South 14 degrees 22 minutes 30 seconds East 143.64 feet to an iron pipe and land now or formerly of Bolaskrey;

THENCE along land now or formerly of Bolaskrey, along a stone fence, South 15 degrees 22 minutes 50 seconds East 215.36 feet to an iron pipe and lands now or formerly of Ramsey;

THENCE along lands now or formerly of Ramsey and now or formerly of Estabrooke South 17 degrees 26 minutes 30 seconds East 71.36 feet to the north bank of Fishkill Creek;

THENCE along the north bank of Fishkill Creek South 84 degrees 09 minutes 40 seconds West 124.53 feet and South 70 degrees 31 minutes 50 seconds West 261.55 feet to land of The Texas Company;

THENCE along land of the Texas Company, the following two courses and distances:

North 54 degrees 53 minutes West 242 feet and South 84 degrees 52 minutes West 100 feet to land now or formerly of Flynn;

THENCE along the land now or formerly of Flynn, of Walsh, of Doyle, of Champlin, of Thorne Estate and of Doyle, and along the line of post and wire fence, North 5 degrees 02 minutes 40 seconds West 516 feet to a post on the south side of Main Street, which post is distant 103.85 feet southeasterly from the corner formed by the intersection of the south side of Main Street, and the east side of Dart Street;

THENCE along the southerly side of Main Street South 79 degrees 24 minutes 10 seconds East 236.13 feet to the point or place of **BEGINNING**.

Schedule A Description, Page 15

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

548

Stewart Title
Insurance Company

PARCEL 14B

ALL those tracts and parcels of land situate in the Town of Fishkill, Dutchess County, New York, bounded and described as follows:

TRACT ONE

PARCEL ONE

BEGINNING on the northerly side of Main Street at the westerly side of a post and running thence with land formerly of James Marsh North nineteen degrees fifty minutes East two hundred eighty-one feet;

THENCE North thirty-four degrees thirty-seven minutes East two hundred three feet nine inches to other land of Thorne;

THENCE with his land South fifty-one degrees thirty minutes East forty-seven feet;

THENCE South fifty-eight degrees fifteen minutes five chains forty-eight links to the northwesterly corner of land formerly of Van Amburgh;

THENCE with that land South twenty degrees thirty minutes West one chain seventy-seven links;

THENCE South twelve degrees forty minutes West one chain thirty-two links;

THENCE South thirty degrees fifteen minutes West one chain fifty-three links;

THENCE South twenty-eight degrees West one chain nine links to the aforesaid road and to the middle of the same;

THENCE along through the said road westerly to the place of **BEGINNING**. Containing four and sixty-one one-hundredths acres.

Being the same premises conveyed by James Marsh and Annie Marsh, his wife, to John H. Thorne, by deed dated November 1, 1882, and recorded in Dutchess County Clerk's Office February 19, 1883, in Liber 217 of Deeds at Page 21.

Schedule A Description, Page 16

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

545

**Stewart Title
Insurance Company**

Subject to any and all rights, if any, of the public in and to Main Street running through a part of said premises.

PARCEL TWO

BEGINNING on the northerly side of Main Street at the southwesterly corner of land and Thorne and running thence with said Main Street North seventy degrees and eight minutes West seventy-three links;

THENCE North seventy-two degrees twenty-three minutes West one chain sixty-three links;

THENCE with lands formerly of Marsh North twenty-eight degrees thirty minutes East eight chains six links;

THENCE with land formerly of Schryver South fifty-one degrees fifteen minutes East two chains four links to the northwesterly corner of the aforesaid land of Thorne;

THENCE with the same South thirty-four degrees thirty-seven minutes West three chains eight links;

THENCE South nineteen degrees fifty-two minutes West four chains twenty-six links to the point or place of **BEGINNING**.

Being the same premises conveyed by James Marsh and Annie, his wife, to John H. Thorne, by deed dated December 11, 1884, and recorded in the Dutchess County Clerk's Office May 3, 1886 in Liber 225 of deeds at page 302.

PARCEL THREE

BEGINNING on the northerly side of Main Street at the southwesterly corner of land conveyed by Marsh to Thorne by deed dated December 11, 1884 and recorded in Dutchess County Clerk's Office in Book 225 of Deeds at page 302, and running thence along said street westerly eleven links;

THENCE for a division line North twenty-nine degrees thirty minutes East along the easterly side of a street or lane of forty feet in width, said division line being parallel to and forty feet distant, easterly from the easterly line of a lot heretofore conveyed by Marsh to one Thomas Alexander, six chains eight links until it intersects the westerly line of lands of Thorne as described in the aforesaid deed;

THENCE with that line South twenty-eight degrees thirty minutes West to the place of **BEGINNING**.

Schedule A Description, Page 17

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

518

**Stewart Title
Insurance Company**

Being the same premises conveyed by James Marsh and Anna Marsh his wife to John H. Thorne by deed dated September 9, 1887 and recorded in Dutchess County Clerk's Office in Liber 237 of Deeds at Page 370.

TRACT TWO

BEGINNING at a point on the northerly side of Thorne Street as on the subdivision map of James T. Thorne, made by Sidney Scofield, dated November 1869, and filed in the Dutchess County Clerk's Office at the division line between the premises herein described and land of McCutcheon;

RUNNING THENCE South four degrees fifty-three minutes East two hundred seventy seven feet to the northerly bank of Fishkill Creek;

THENCE along the northerly bank of Fishkill Creek North sixty-five degrees thirty minutes East one hundred five and seven tenths feet to other lands of McCutcheon;

THENCE North four degrees fifty-three minutes West two hundred forty-two feet to an angle in said McCutcheon's land;

THENCE South eighty-four degrees fifty-two minutes West and along said McCutcheon's land one hundred feet to the point of **BEGINNING**.

TOGETHER with all right, title and interest of the grantors of, in and to any and all strips and gores of land and in and to any land lying in the bed of any street, road or avenue open or proposed, in and to any land lying in the bed of any creek stream or body of water, running through, lying within or adjacent or appurtenant to or abutting the said tracts and parcels of land or any of them.

EXCEPTING therefrom all those properties sold by deeds in Liber 718 Page 474; Liber 756 Page 123; Liber 747 Page 129; Liber 1307 Page 536; Liber 1828 Page 571 and Liber 2017 Page 69.

Schedule A Description, Page 18

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

SAB

**Stewart Title
Insurance Company**

PARCEL 15

BEGINNING at a point on the southerly side of Main Street, being the road leading from Beacon to Fishkill Village, at the division line between the premises herein described and the lands of The Texas Company at a stake set in the southerly side of such road;

THENCE along the southerly side of said road the following two courses and distances:

1. North 83 degrees 00 minutes East 129.83 feet;
2. South 88 degrees 58 minutes 30 seconds East 71.87 feet to a stake and other lands of The Texas Company;

THENCE along other lands of The Texas Company and along a line of old posts and through Monument No. 2 South 5 degrees 45 minutes 35 seconds East 210.57 feet to an old post;

THENCE along a post and wire fence and along lands of The Texas Company South 82 degrees 40 minutes 40 seconds West 198.41 feet to an old post and lands of The Texas Company;

THENCE along a line of old posts and lands of The Texas Company, North 6 degrees 29 minutes 30 seconds West 221.69 feet to a stake on the south side of Main street at the point or place of **BEGINNING**.

EXCEPTING from the above all that portion deed by The Texas Company to the Town of Fishkill by deed in Liber 797 Page 46.

Schedule A Description, Page 19

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

568

**Stewart Title
Insurance Company**

PARCEL 17

BEGINNING at a point on the northeasterly side of Washington Avenue near the southerly right-of-way line of the New York, New Haven and Hartford Railroad at the southwesterly end of the present Parcel No. 5 property line curving having a radius of 75.00 feet and length of 85.39 feet being the same curve shown on Map No. 1770, filed in the Dutchess County Clerk's Office May, 1938;

THENCE from the said westerly end of said curve in a southwesterly direction along a simple curve to the right, having a radius of 189.93 feet, for a distance of 209.26 feet;

THENCE South 82 degrees 3 minutes 30 seconds East 116.68 feet;

THENCE North 34 degrees 48 minutes 50 seconds East 116.68 feet to the point of **BEGINNING**.

Schedule A Description, Page 20

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

5A 6

**Stewart Title
Insurance Company**

PARCEL 1B

BEGINNING at a point on the westerly side of Washington Avenue near the southerly side of Flatkill Creek at The Texas Company's property marker called Monument No. 36 on Map No. 1770, filed in the Dutchess County Clerk's Office May, 1938;

THENCE South 45 degrees 6 minutes 2 seconds West 332.11 feet;

THENCE North 79 degrees 57 minutes 3 seconds West 44.41 feet to The Texas Company's property marker called Monument No. 35 on the aforesaid Map No. 1770;

THENCE North 50 degrees 54 minutes 20 seconds East 359.46 feet to the aforesaid Monument No. 36, the point of **BEGINNING**.

Schedule A Description, Page 21

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

506

**Stewart Title
Insurance Company**

PARCEL 19

BEGINNING at a point on the southeasterly side of Church Street in Glenham, which point is called Mon. No. 20 on Map No. 1770, filed in Dutchess County Clerk's Office May, 1938;

THENCE from said Mon. No. 20 (a brass marker set in concrete) North 71 degrees 59 minutes 40 seconds East 57.29 feet;

THENCE North 28 degrees 11 minutes 10 seconds West 33.27 feet;

THENCE South 13 degrees 5 minutes 40 seconds West 27.72 feet;

THENCE South 54 degrees 4 minutes West 38.90 feet to said Mon. No. 20, the point of **BEGINNING**.

Schedule A Description, Page 22

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

418

**Stewart Title
Insurance Company**

PARCEL 20

BEGINNING at a point on the southerly side of Main Street, said point being the westerly corner of land of Pendleton and running thence along the southerly side of Main Street and along an ornamental iron fence, North eighty degrees nineteen minutes fifty seconds West one hundred forty six and seven tenths feet to a wood corner post;

THENCE South eight degrees no minutes forty seconds West along a post and wire fence one hundred sixty five and six tenths feet to a fence corner;

THENCE South eighty three degrees thirty two minutes East along a post and wire fence two hundred fourteen and twenty four hundredths feet to a fence corner with a stone wall;

THENCE North fifteen degrees twenty seven minutes West along an old stone wall one hundred nineteen and six tenths feet;

THENCE North eighty degrees nineteen minutes fifty seconds West twenty one and twenty three hundredths feet and thence North nine degrees thirty minutes ten seconds East forty five and twenty seven hundredths feet to the place of **BEGINNING**.

Schedule A Description, Page 23

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

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**Stewart Title
Insurance Company**

PARCELS 21 and 22

FIRST PARCEL: BEGINNING at the intersection of the northerly side of Thorne Street with the easterly side of Dart Street, and running thence easterly along the northerly side of Thorne Street one hundred feet;

THENCE northerly along line of lot number sixty three, twenty five feet;

THENCE westerly along line of lot number twenty four and parallel with Thorne Street one hundred feet to the easterly side of Dart Street and thence southerly along the easterly side of Dart Street twenty five feet to the place of **BEGINNING**.

Being known as lot number twenty three on a map of land of James T. Thorne dated November 1869, and filed in the Dutchess County Clerk's Office as Map No. 222.

SECOND PARCEL: BEGINNING on the easterly side of Dart Street at the northwest corner of lot number twenty-three, above described, and running thence along the east side of Dart Street northerly twenty five feet;

THENCE easterly and parallel with Thorne Street and fifty feet therefrom one hundred feet;

THENCE southerly parallel with Dart Street twenty five feet to the northeast corner of lot first herein described and thence with said lot westerly one hundred feet to the place of **BEGINNING**.

Being lot twenty four on a map of lands of James T. Thorne dated November 1869, and filed in the Dutchess County Clerk's Office as Map No. 222.

THIRD PARCEL: Two lots situate on the southerly side of Thorne Street, and designated as lots numbers sixty eight and sixty nine on said Map of lands of James T. Thorne, dated November 1869, and filed in the Dutchess County Clerk's Office as Map No. 222. Each of said lots being twenty five feet front and rear by one hundred feet deep.

FOURTH PARCEL: BEGINNING at the southerly corner of land formerly of Lavinia Jaycox and running thence easterly along her south line fifty feet;

THENCE parallel with the old fence to the creek;

Schedule A Description, Page 24

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

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Stewart Title
Insurance Company

THENCE along the creek to land formerly of A.T. Stewart & Co., and thence along its line northerly to the place of BEGINNING.

FIFTH PARCEL: BEGINNING at the northeasterly corner of other land formerly of Patrick Flynn and Ellen, his wife, and one hundred feet distant from Thorne Street and running thence at right angles to Thorne Street one hundred twenty five feet more or less to the Fishkill Creek;

THENCE southwesterly along the creek to land formerly of A.T. Stewart & Co.;

THENCE along its land to land lately of Lavina Jaycox and thence northeasterly along her land and other land formerly of Patrick Flynn and Ellen Flynn, his wife, ninety two feet more or less to the place of BEGINNING.

Schedule A Description, Page 25

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

543

**Stewart Title
Insurance Company**

PARCEL 23

ALL those certain lots, of land, situated at Glenham, in the said Town of Fishkill, numbered from five to twenty two, both inclusive, (being eighteen lots) on a map of lands of said James T. Thome, made by Sidney Seefield, Surveyor, and filed in the Office of the Clerk of Dutchess County, said lots being together bounded and described as follows, to wit:

BEGINNING on the west line of Dart Street, as laid down on said map, at a point one hundred and five feet southwardly from the south side of the road leading from Fishkill Landing to Fishkill Village, and running thence southwardly, along the west line of Dart Street, four hundred and fifty feet to the north line of Thome Street as laid down on said map;

THENCE westwardly, along the north line of Thome Street, one hundred feet to lands of the Glenham Company;

THENCE northwardly along said Glenham's Company's land and parallel with Dart Street, four hundred and fifty feet; and

THENCE eastwardly, parallel with Thome Street, one hundred feet to the west line of Dart Street and the place of **BEGINNING**.

Schedule A Description, Page 16

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

346

**Stewart Title
Insurance Company**

PARCEL 24

BEGINNING at a point in the southeasterly line of Thome Street in the Village of Glenham, which point is called Mon. No. 27 on Map No. 1770 filed in the Dutchess County Clerk's Office May 1938;

THENCE from said Mon. No. 27 (a brass marker set in concrete) North five degrees six minutes fifteen seconds West forty feet;

THENCE North eighty four degrees fifty two minutes East two hundred forty and six hundredths feet;

THENCE South four degrees fifty three minutes East forty feet and thence South eighty four degrees fifty two minutes West two hundred forty and twenty six hundredths feet to the point of **BEGINNING**.

Schedule A Description, Page 27

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

208

**Stewart Title
Insurance Company**

PARCEL 25

PARCEL I: ALL that tract or parcel of land situate in the Town of Fishkill aforesaid at Glenham, and marked Lot Number (26) Twenty Six on a certain map of lands of James T. Thorne, which map was filed in the Clerk's Office of said County of Dutchess on the 29th day of January, A.D. 1870. Said lot being twenty five feet front and rear by one hundred feet in depth, and situate on the easterly side of Dart Street, seventy five feet northerly from Thorne Street and being same lot as conveyed by James T. Thorne to Sarah Thompson by deed bearing date April 20th 1880.

ALSO ALL that tract or parcel of land situate in the Village of Glenham in the Town of Fishkill aforesaid. Being a lot of twenty five feet front and rear by one hundred feet deep, situate on east side of Dart Street and marked No. (25) twenty five, on a certain map of lands of James T. Thorne, which map was duly filed in Dutchess County Clerk's Office on the 29th day of January, 1870, and being same property as conveyed by John H. Thorne and Henry C. Johnston, executors of the last will and testament of James T. Thorne, deceased, to Sarah Thompson aforesaid bearing date the seventeenth day of May, 1882.

PARCEL II: ALL that lot of land, situate on the east side of Dart Street at Glenham, in the Town of Fishkill, Dutchess County, New York, and known and designated as Lot Number twenty seven (27) on a map made of the lands of James T. Thorne at Glenham aforesaid, which map was duly filed in the Dutchess County Clerk's Office Jan. 29, 1870. Said lot being 25 feet in front and rear by 100 feet deep.

Schedule A Description, Page 28

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

34B

**Stewart Title
Insurance Company**

PARCEL 26

BEGINNING at the point of intersection of the easterly side of Dart Street with the northerly side of Thome Street, as shown on titled "Map of Lots at Grahams, New York, the Property of Jas. T. Thome" which map is dated November 1869, and filed in the Dutchess County Clerk's Office as Map No. 222, and running thence along the easterly side of said Dart Street North five degrees two minutes forty seconds West fifty feet;

THENCE continuing along the easterly side of Dart Street North five degrees nine minutes twenty four seconds West seventy five feet to the northwesterly corner of Lot No. 27, as shown on the aforementioned map;

THENCE crossing Dart Street South eighty four degrees fifty one minutes twenty two seconds West forty and four one hundredths feet to the line of lands of the party of the second part thereto;

THENCE running with said line of lands of the party of the second part hereto, South five degrees six minutes fifteen seconds East one hundred twenty five feet;

THENCE North eighty four degrees fifty two minutes East forty and six one hundredths feet to the point or place of **BEGINNING**.

Schedule A Description, Page 29

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

508

**Stewart Title
Insurance Company**

PARCEL 17

BEGINNING at a point at the southeasterly corner of the herein described premises, said point being distant 25 feet northeasterly of and measured at right angles from Station 1847 + 10.71 of the monumented center line of the railroad formerly leading from Stissing Junction to Dutchess Junction, New York;

THENCE northwesterly, parallel with and distant 25 feet northeasterly of and measured at right angles from said monumented center line, bounding southwesterly on remaining railroad land 787.11 feet to a point of curvature opposite P.C. Station 1854 + 97.82;

THENCE in a general northwesterly direction by a curve to the left having a radius of 1171.28 feet concentric with and distant 25 feet northeasterly of and measured radially from said monumented center line, bounding southwesterly on said remaining railroad land 58.61 feet to a point opposite Station 1855 + 55.17;

THENCE northeasterly measured radially from Station 1855 + 55.17, bounding northwesterly on said remaining railroad land 25 feet to a point;

THENCE in a general southeasterly direction by a curve to the right having a radius of 1196.28 feet concentric with and distant 50 feet northeasterly of and measured radially from said monumented center line, bounding northeasterly on land of the Releasee 59.87 feet to a point of tangency marked by a monument set in the ground opposite P.C. Station 1854 + 97.82;

THENCE southeasterly, parallel with and distant 50 feet northeasterly of and measured at right angles from said monumented center line bounding northeasterly on said land of the Releasee 409.52 feet to a point marked by a monument set in the ground opposite Station 1850 + 88.30;

THENCE northeasterly at right angles to the last described line bounding northwesterly on said land of the Releasee 50.0 feet to a point marked by a monument set in the ground;

THENCE southeasterly at right angles to the last described line, parallel with and distant 100 feet northeasterly of and measured at right angles from said monumented center line, bounding northeasterly on said land of the Releasee and a highway (Glenham Road) each in part 400.00 feet to a point opposite Station 1846 + 88.30;

Schedule A Description, Page 30

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

SAB

**Stewart Title
Insurance Company**

THENCE southwesterly at right angles to the last described line bounding southeasterly on said highway (Glenham Road) 19.73 feet to a point marked by a monument set in the ground, distant 80.27 feet northeasterly of and measured at right angles from Station 1846 + 88.30 of said monumented center line;

THENCE again southwesterly, bounding southeasterly on said remaining railroad land 59.64 feet to the point or place of BEGINNING.

Schedule A Description, Page 31

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying to the street in front of and adjoining said premises.

KAB

**Stewart Title
Insurance Company**

PARCEL 2B

BEGINNING at a point, said point being the intersection of the southerly line of Main Street with the westerly line of St. John Street and running thence along said westerly line of St. John Street, the following:

South 24 degrees 51 minutes 00 seconds East 390.10 feet,
South 21 degrees 11 minutes 30 seconds East 110.38 feet,
South 27 degrees 16 minutes 30 seconds East 112.84 feet, and
South 28 degrees 11 minutes 10 seconds East 135.46 feet;

THENCE along the northerly line of Church Street, the following:

South 54 degrees 04 minutes 00 seconds West 456.66 feet,
South 28 degrees 43 minutes 44 seconds West 218.46 feet, and
South 52 degrees 19 minutes 09 seconds West 318.81 feet;

THENCE along the northerly line of land now or formerly Consolidated Rail Corp., the following, along a curve to the right and having a radius of 905.87 feet, and being distance westerly 112.81 feet, and North 69 degrees 08 minutes 00 seconds West 34.51 feet;

THENCE along the easterly line of an old roadway formerly known as Rocky Glen Road, the following:

North 04 degrees 55 minutes 34 seconds East 292.41 feet,
North 18 degrees 57 minutes 48 seconds East 176.32 feet, and
North 18 degrees 04 minutes 00 seconds East 308.22 feet;

THENCE still along a portion of the easterly line of Rocky Glen Road, along the easterly and southerly line of Main Street, the following:

North 24 degrees 07 minutes 21 seconds East 231.66 feet,
North 16 degrees 44 minutes 37 seconds East 273.00 feet,
North 35 degrees 12 minutes 54 seconds East 25.98 feet, and
North 77 degrees 32 minutes 14 seconds East 185.50 feet to the point of **BEGINNING**.

Schedule A Description, Page 32

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

548

**Stewart Title
Insurance Company**

PARCEL 29

BEGINNING at aforesaid Mon. No. 11 and running thence along the northerly line of Church Street, the following:

South 54 degrees 04 minutes 00 seconds West 456.66 feet,
South 28 degrees 43 minutes 44 seconds West 218.46 feet, and
South 52 degrees 19 minutes 09 seconds West 318.81 feet;

THENCE along the northerly line of land now or formerly of Consolidated Rail Corp., along a curve to the left and having a radius of 905.87 feet, and being distant easterly 42.69 feet, the chord of said curve bearing South 78 degrees 08 minutes 21 seconds East, to a brass marker set in concrete, said marker being identified as Mon. No. 16 on aforesaid Map No. 2811;

THENCE along the southerly line of Church Street, the following:

North 63 degrees 30 minutes 30 seconds East 125.41 feet,
North 48 degrees 54 minutes 28 seconds East 141.14 feet,
North 28 degrees 42 minutes 50 seconds East 255.99 feet,
North 54 degrees 04 minutes 00 seconds East 476.00 feet, and
North 13 degrees 05 minutes 40 seconds East 27.72 feet;

THENCE crossing St. John Street, South 71 degrees 10 minutes 45 seconds West 50.68 feet to the point of **BEGINNING**.

Schedule A Description, Page 33

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

289

Stewart Title
Insurance Company

PARCEL 36

BEGINNING at a brass marker set in concrete at the point of intersection of the westerly line of an old roadway formerly known as Rocky Glen Road and the northerly line of land now or formerly of Consolidated Rail Corp., said marker being identified as Mon. No. 30 on aforesaid Map No. 2811;

THENCE along the westerly line of Rocky Glen Road, the following:

North 8 degrees 42 minutes 40 seconds East 291.33 feet, and
North 15 degrees 44 minutes 40 seconds East 202.24 feet;

THENCE crossing Rocky Glen Road, South 71 degrees 56 minutes 00 seconds East 33.97 feet;

THENCE along the easterly line of Rocky Glen Road, the following:

South 18 degrees 04 minutes 00 seconds West 30.53 feet,
South 18 degrees 57 minutes 48 seconds West 176.32 feet, and
South 4 degrees 55 minutes 34 seconds West 292.41 feet;

THENCE along the northerly line of land now or formerly of Consolidated Rail Corp., North 69 degrees 08 minutes 00 seconds West 42.19 feet to the point of **BEGINNING**.

Schedule A Description, Page 34

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

546

**Stewart Title
Insurance Company**

PARCEL 31

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Fishkill, County of Dutchess and State of New York known as Lots 28 through 36 inclusive, as shown on a certain Map entitled "Map of Lots at Glenham, New York, the property of James T. Thomas, dated November, 1869, made by Sidney Spoonfield, C.E.", and filed in the Dutchess County Clerk's Office, as filed Map No. 722.

Schedule A Description, Page 35

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

5A6

**Stewart Title
Insurance Company**

PARCEL 32

ALL that certain plot, piece or parcel of land situate, lying and being in the Town of Fishkill, County of Dutchess and State of New York and known as Lot Numbers 28 through 31 inclusive, as shown on a certain map entitled "Map of Lots at Gleanham, New York, the property of James T. Thome, dated November 1869, made by Sidney Scofield, C.E.", and filed in the Office of the Dutchess County Clerk as Map No. 222.

Schedule A Description, Page 36

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

946

**Stewart Title
Insurance Company**

PARCEL 33

ALL that certain plot, piece or parcel of land situate, lying and being in the Town of Fishkill, County of Dutchess and State of New York and known as Lot Numbers 34, 35 and 36 as shown on a certain map entitled, "Map of Lots at Glenham, New York, the property of James T. Thorne, dated November 1869, made by Sidney Scofield, C.E.", and filed in the Office of the Dutchess County Clerk as Map No. 222.

Schedule A Description, Page 37

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, out, in and to the land lying in the street in front of and adjoining said premises.

587

**Stewart Title
Insurance Company**

PARCEL 34

ALL that certain plot, piece or parcel of land, situate, lying and being in the Hamlet of Glenham, Town of Fishkill, County of Dutchess and State of New York;

BEING the easterly half of Lots sixty-five, sixty-six, sixty-seven, and sixty-eight as laid down on a Map of Land of the Glenham Company made by John D. Fouquet in the year Eighteen Hundred and Seventy, and filed in the Office of the Clerk of Dutchess County; said half of lots being on the southerly side of Glenham Avenue, commencing at a point sixty-seven feet six inches easterly from the easterly line of Bridge Street;

RUNNING THENCE easterly sixty-seven feet six inches;

THENCE southerly about one hundred and fifty feet;

THENCE westerly about fifty feet to the land of Jonas Northrop;

THENCE northerly about one hundred fifty-two feet to the place of **BEGINNING**.

The aforementioned premises are further described, in a survey dated 11/24/93, prepared by Peter R. Hostis, as follows:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Fishkill, County of Dutchess and State of New York, being bounded and described as follows:

BEGINNING at the point of intersection of the southerly line of Washington Avenue and the easterly line of lands now or formerly Mortensen (Liber 787 up 247);

RUNNING THENCE along said southerly line of Washington Avenue, South 81 degrees 56 minutes 26 seconds East 67.50 feet to a point on the westerly line of lands now or formerly Texaco Inc.;

RUNNING THENCE along same, South 08 degrees 34 minutes 41 seconds West 150.05 feet to a point on the northerly line of lands now or formerly of Texaco Inc.;

RUNNING THENCE along same South 82 degrees 26 minutes 39 seconds West 49.80 feet to a point on the easterly line of lands now or formerly of Mortensen;

Schedule A Description, Page 38

FOR CONVEYANCING ONLY; TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

**Stewart Title
Insurance Company**

RUNNING THENCE along same, North 01 degree 51 minutes 36 seconds East 151.96 feet to the point or place of **BEGINNING**.

Schedule A Description, Page 39

FOR CONVEYANCING ONLY: TOGETHER with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

579

**Stewart Title
Insurance Company**

PARCEL 35

BEGINNING at the southeast corner of Glenham Avenue and Bridge Street;

RUNNING THENCE along Glenham Avenue about 67 feet 6 inches in an easterly direction;

THENCE southerly in a line dividing said lots equally about 152 feet;

THENCE westerly about 50 feet to the easterly line of Bridge Street;

THENCE northerly along the easterly line of Bridge Street about 154 feet to the place of **BEGINNING**.

There are no parcels 7, 8, 14 and 16 referenced above as these parcels have been previously transferred by the party of the first part.

TOGETHER with all right, title and interest of the party of the first part in and to Stone Street, Now Street, Church Street and Thorne Street.

SUBJECT to covenants, restrictions, easements and reservations of record.

Schedule A Description, Page 40

FOR CONVEYANCING ONLY: **TOGETHER** with all the rights, title and interest of the party of the first part, if any, of, in and to the land lying in the street in front of and adjoining said premises.

SCHEDULE B

As to Parcels 1, 2, 3, 4, 5, 6, 9 and 10, title acquired under deed dated 1/29/31 recorded 2/20/31 in Liber 512 cp 159 made by MECHANICS SAVINGS BANK OF BEACON, NEW YORK, to THE TEXAS COMPANY, as corrected by deed made by BEACON SAVINGS BANK, successor by merger to MECHANICS SAVINGS BANK and THE MANHATTAN SAVINGS BANK OF BEACON, NY to THE TEXAS COMPANY, dated 2/10/38 recorded 3/24/38 in Liber 565, cp 505 as corrected by Correction Deed dated 05/03/93 recorded 05/13/93 in Liber 1928 cp 21, made by TEXACO, INC., given to correct the description of Parcel 5 in Liber 565 cp 505.

As to Parcel 11, title acquired under deed dated 10/28/37 recorded 10/28/37 in Liber 563 cp 263 made by KATHERINE KOHRHAMER to THE TEXAS COMPANY.

As to Parcel 12, title acquired pursuant to Resolution of the Town of Fishkill dated 2/6/39 abandoning Stone Street, New Street, Church Street and Thorne Street.

As to Parcel 13, title acquired under deed dated 4/30/49 recorded 6/8/49 in Liber 718 cp 470 made by ALBERT E. McCUTCHEON and MABEL McCUTCHEON, his wife, to THE TEXAS COMPANY.

As to Parcel 14B, title acquired under deed dated 03/15/48 recorded 4/11/48 in Liber 685 cp 181 made by JENNY P. THORNE, INDIVIDUALLY AND AS EXECUTRIX OF THE LAST WILL AND TESTAMENT OF JOHN H. THORNE, SR., DECEASED, SOPHIA A. ALLEY AND ANNA C. TOWNSEND to THE TEXAS COMPANY.

As to Parcel 15, title acquired under deed dated 12/12/50 recorded 1/22/51 in Liber 797 cp 46 made by THE CONSISTORY OF THE REFORMED DUTCH CHURCH AT GLENHAM, NY to THE TEXAS COMPANY.

As to Parcels 17 and 18, title acquired under deed dated 9/29/51 recorded 3/6/52 in Liber 797 cp 40 made by THE TOWN OF FISHKILL to THE TEXAS COMPANY.

As to Parcel 19, title acquired under deed dated 9/29/51 recorded 3/6/52 in Liber 797 cp 43 made by THE TOWN OF FISHKILL to THE TEXAS COMPANY.

As to Parcel 20, title acquired under deed dated 6/21/55 recorded 6/23/55 in Liber 891 cp 500 made by ELIZABETH MILLER.

As to Parcels 21 and 22, title acquired under deed dated 6/14/57 recorded 8/15/57 in Liber 951 cp 47 made by MARTIN H. FLYNN to THE TEXAS COMPANY.

As to Parcel 23, title acquired under deed dated 6/19/57 recorded 7/5/57 in Liber 947 cp 446 made by BOARD OF EDUCATION OF UNION FREE SCHOOL DISTRICT NO. 3 OF THE TOWN OF FISHKILL and THE TRUSTEES OF UNION FREE SCHOOL DISTRICT NO. 3 OF THE TOWN OF FISHKILL to THE TEXAS COMPANY.

SCHEDULE B (Continued)

As to Parcel 24, title acquired under deed dated 12/18/57 recorded 2/20/58 in Liber 964 cp 346 made by THE TOWN OF FISHKILL to THE TEXAS COMPANY.

As to Parcel 25, title acquired under deed dated 9/24/58 recorded 10/6/58 in Liber 980 cp 383 made by MARY A. WALSH and CATHERINE A. WALSH to THE TEXAS COMPANY.

As to Parcel 26, title acquired under deed dated 3/21/59 recorded 5/4/59 in Liber 994 cp 376 made by the TOWN OF FISHKILL to THE TEXAS COMPANY.

As to Parcel 27, title acquired under deed dated 9/2/64 recorded 9/21/64 in Liber 1149 cp 174 made by TRUSTEES OF THE NEW YORK, NEW HAVEN and HARTFORD RAILROAD COMPANY to TEXACO INC.

As to Parcel 28, title acquired under deed dated 1/25/83 recorded 1/31/83 in Liber 1595 cp 78 made by PHILADELPHIA NATIONAL BANK to TEXACO, INC.

As to Parcels 29, 30 and 1A, title acquired under deed dated 3/24/88 recorded 6/10/88 in Liber 1799 cp 614 made by TOWN OF FISHKILL to TEXACO INC.

As to Parcel 31, title acquired under deed dated 8/26/91 (acknowledgment date) recorded 9/6/91 in Liber 1899 cp 147 made by JOSETTE M. CIARDULLO to TEXACO INC.

As to Parcel 32, title acquired under deed dated 8/26/91 recorded 9/6/91 in Liber 1899 cp 150 made by JAMES MOSEMAN and BARBARA MOSEMAN, his wife, JEFFREY S. MOSEMAN and JAMES F. MOSEMAN, JR. to TEXACO INC.

As to Parcel 33, title acquired under deed dated 8/26/91 recorded 9/6/91 in Liber 1899 cp 149 made by BARBARA C. MAC MULLEN as sole devisee under the Last Will and Testament of CLIFFORD MAC MULLEN to TEXACO INC.

As to Parcel 34, title acquired under deed dated 12/15/93 recorded 12/28/93 in Liber 1938 cp 53 made by SERENA L. OLSEN as Executrix of the Last Will and Testament of VICTOR J. SERRIDA, deceased, to TEXACO INC.

As to Parcel 35, title acquired under deed dated 11/28/94 recorded 11/28/94 in Liber 1954 cp 229 made by CARL W. MORTENSEN and JEAN M. MORTENSEN to TEXACO INC.

There are no Parcels 7, 8, 14 and 16 on the Schedule A Description.

EXHIBIT C

**Final Roll**

Parcel Grid Identification #:
133089-6055-16-812290-0000
Municipality: Fishkill

Parcel Location
Washington Ave

Owner Name on March 1
Chevron U S A Inc , (P)

Primary (P) Owner Mail Address

PO Box 285
Houston TX 770010000

Parcel Details

Size (acres): 4.03 ac (s) Land Use Class: (710) Industrial: Manufacturing and Processing
File Map: Agri. Dist.: (0)
File Lot #: School District: (130200) Beacon City School District
Split Town

Assessment Information (Current)

<u>Land:</u>	<u>Total:</u>	<u>County Taxable:</u>	<u>Town Taxable:</u>	<u>School Taxable:</u>	<u>Village Taxable:</u>
\$75000	\$200000	\$200000	\$200000	\$200000	\$0

<u>Tax Code:</u>	<u>Roll Section:</u>	<u>Uniform %:</u>	<u>Full Market Value:</u>
N: Non-Homestead	1	100	\$ 200000

<u>Tent. Roll:</u>	<u>Final. Roll:</u>	<u>Valuation:</u>
5/1/2014	7/1/2014	7/1/2013

Last Sale/Transfer

<u>Sales Price:</u>	<u>Sale Date:</u>	<u>Deed Book:</u>	<u>Deed Page:</u>	<u>Sale Condition:</u>	<u>No. Parcels:</u>
\$0	0	22002	12588	()	0

ABSOLUTELY NO ACCURACY OR COMPLETENESS GUARANTEE IS IMPLIED OR INTENDED. ALL INFORMATION ON THIS MAP IS SUBJECT TO CHANGE BASED ON A COMPLETE TITLE SEARCH OR FIELD SURVEY.

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EXHIBIT D

**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 26th day of January, 2015 between Owner(s) Chevron U.S.A. Inc., having an office at P.O. Box 509, Beacon, New York 12508, County of Dutchess, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of (no number) Washington Avenue in the Town of Fishkill, County of Dutchess and State of New York, known and designated on the tax map of the County Clerk of Dutchess as tax map parcel numbers: Section 6055 Block 16 Lot 812290, being the same as that property conveyed to Grantor by deed dated December 31, 2001 and recorded in the Dutchess County Clerk's Office in Liber and Page 22002, 12588. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 4.032 +/- acres, and is hereinafter more fully described in the Land Title Survey dated January 21, 2015 prepared by Badey & Watson Surveying & Engineering, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: -3-1112-08-12, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Dutchess County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential, Restricted Residential or Commercial purposes as defined in 6NYCRR 375-1.8(g)(i), (ii) and (iii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

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

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by

Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 314004
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Chevron U.S.A. Inc.:

By: Brian J. Kelly

Print Name: Brian J. Kelly

Title: Real Property Date: January 26, 2015
Officer

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF *RO*)

On the 15 day of June, in the year 20 15, before me, the undersigned, personally appeared James S. [Signature], personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Orange)On January 26, 2015 before me, Robin K Rodriguez (Notary Public)

Date

Here Insert Name and Title of the Officer

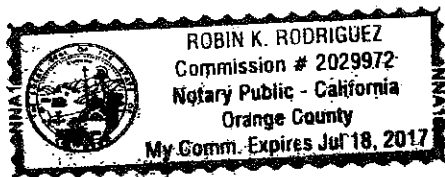
personally appeared Brian John Kelly

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Robin K Rodriguez
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____

Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the _____ day of _____, in the year 20__, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public - State of New York

File No. 06-147
W.O. No. 22275

Doc. No. EE09FB15BD.lwp
Created: February 9, 2015
Revised: February 9, 2015
Printed: February 9, 2015
Figure No(s.) 130
Author: SRM

**DESCRIPTION OF
ENVIRONMENTAL EASEMENT
prepared for
Chevron U.S.A. Inc.**

ALL that certain parcel of land situate in the Town of Fishkill, County of Dutchess and State of New York that is Lot 3 as shown on that certain map entitled "Chevron USA Inc. ...Former Texaco Research Center Proposed Subdivision Plat..." which was filed in the Dutchess County Clerk's Office on August 21, 2012 as Map No. 12406 that is bounded and described as follows:

BEGINNING at the point in the northwesterly line of Washington Avenue, as widened, in the division line between the lands herein described on the north and the lands now or formerly of Metro North Commuter Railroad on the south, which point occupies coordinate position

N 977,793.12 (y)
E 647,036.76 (x)

of the New York State Coordinate System, East Zone (NAD 83, expressed in feet), as shown on that certain map entitled "Chevron USA Inc. ...former Texaco Research Center Proposed Subdivision Plat..." which was filed in the Dutchess County Clerk's Office on August 21, 2012 as Map No. 12406. **THENCE** from the said point of beginning along said lands of Metro North Commuter Railroad

N 80°26'45" W 730.54 feet,

on a tangent curve to the left, the central angle of which is $02^{\circ}52'01''$, the radius of which is 1,171.18 feet for 58.61 feet,

N $06^{\circ}41'14''$ E 25.00 feet,

on a non-tangent curve to the left, the center of which bears $S06^{\circ}41'14''W$, the central angle of which is $24^{\circ}05'44''$, the radius of which is 1,196.18 feet for 503.05 feet and

N $03^{\circ}48'20''$ E 208.64 feet

to a point in the southerly line of Fishkill Creek. Thence through Fishkill Creek and continuing along said lands of Metro North Commuter Railroad

N $12^{\circ}03'00''$ W 37.33 feet

to the centerline of Fishkill Creek and Lot 1 as shown on the aforementioned Filed Map entitled "Chevron USA Inc...". Thence along the centerline of Fishkill Creek and Lot 1

N $77^{\circ}57'00''$ E 31.72 feet and

N $72^{\circ}14'00''$ E 75.00 feet

to a point. Thence continuing along Lot 1

N $16^{\circ}50'00''$ E 58.40 feet,

N $27^{\circ}25'00''$ E 111.50 feet,

S $62^{\circ}44'00''$ E 82.00 feet,

S $78^{\circ}44'00''$ E 173.41 feet and

S $10^{\circ}29'00''$ W 84.49 feet

to a point in the northerly line of Fishkill Creek. Thence crossing Fishkill Creek, partially along Lot 1 and partially along Lot 2 as shown on the aforementioned Filed Map entitled "Chevron USA Inc..."

S $07^{\circ}54'00''$ E 165.00 feet

to a point in the southerly line of Fishkill Creek. Thence along said line and Lot 2

S 84°38'40" E 164.86 feet and
S 51°26'00" E 77.30 feet

to a point. Thence leaving said line of Fishkill Creek and continuing along Lot 2

S 80°26'45" E 663.18 feet

to a point in the northwesterly line of Washington Avenue as widened. Thence
along said northwesterly line of Washington Avenue

S 36°04'00" W 55.88 feet

to the point or place of beginning, containing 4.032 acres, more or less.

NOTE: The bearings, distances and areas used herein are referred to the New York State Coordinate System, East Zone (NAD 83). Users of this information should divide said distances by a scale factor of 0.99991617 in order to obtain level ground feet and divide said areas by 0.99991617 'squared' to obtain level ground areas.

Prepared by
BADEY & WATSON
Surveying & Engineering, P.C.
U.S. Route 9
Cold Spring, New York 10516
(845)265-9217(V)
(845)265-4428(F)

EXHIBIT E

**CHEVRON BUSINESS AND REAL ESTATE SERVICES,
A DIVISION OF CHEVRON U.S.A. INC.
CERTIFICATE OF ASSISTANT SECRETARY**

I, Michael W. Woody, Assistant Secretary of Chevron Business and Real Estate Services, a division of Chevron U.S.A. Inc., a Pennsylvania Corporation, with an office address of 6001 Bollinger Canyon Road, San Ramon, California 94583, United States of America (the "Corporation") DO HEREBY CERTIFY that the below named person has been duly elected, has duly qualified, and this day is an officer of the Chevron Business and Real Estate Services (a Chevron U.S.A. Inc. division) holding the office as set forth opposite his name and being empowered to sign all the documents on behalf of Corporation:

Name

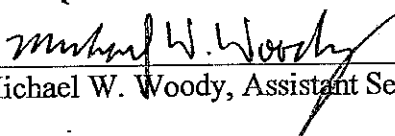
Brian J. Kelly

Title

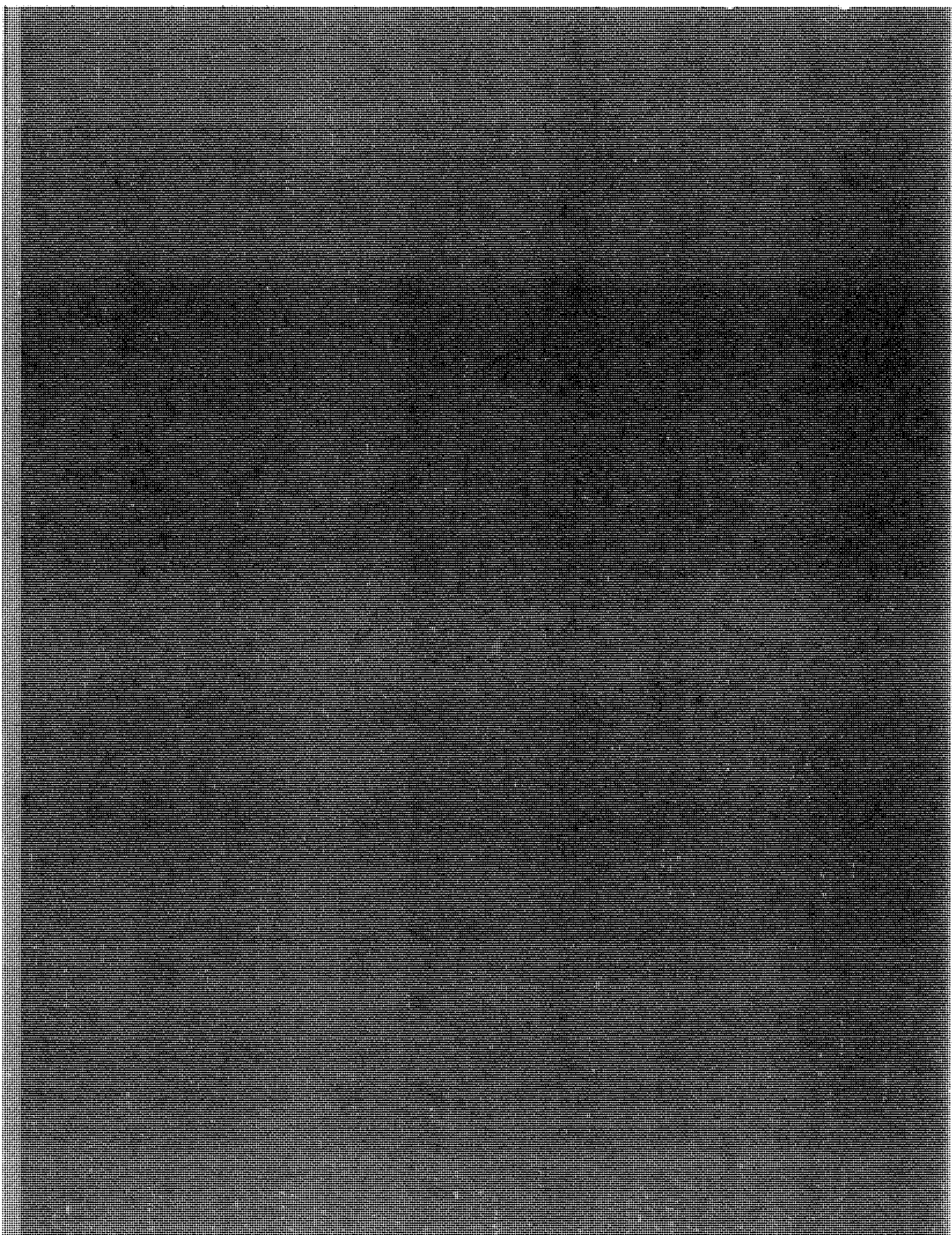
Real Property Officer

WITNESS my hand and of said Corporation this 16th day of December, 2014.





Michael W. Woody, Assistant Secretary



**PENNSYLVANIA DEPARTMENT OF STATE
BUREAU OF CORPORATIONS AND CHARITABLE ORGANIZATIONS**

Articles of Amendment-Domestic Corporation
(15 Pa.C.S.)

☒ Business Corporation (§ 1915)
☐ Nonprofit Corporation (§ 5915)

Name		
Address		
City	State	Zip Code

Document will be returned to the name and address you enter to the left.

Fee: \$70

In compliance with the requirements of the applicable provisions (relating to articles of amendment), the undersigned, desiring to amend its articles, hereby states that:

1. The name of the corporation is:
Chevron U.S.A. Inc.

2. The (a) address of this corporation's current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

(a) Number and Street	City	State	Zip	County
2595 Interstate Drive Suite 103,	Harrisburg,	PA,	17110,	Dauphin

(b) Name of Commercial Registered Office Provider	County
c/o Corporation Service Company	

3. The statute by or under which it was incorporated: PA Business Corporation Law

4. The date of its incorporation: 8/9/22

5. Check, and if appropriate complete, one of the following:

☐ The amendment shall be effective upon filing these Articles of Amendment in the Department of State.

☒ The amendment shall be effective on: 12/31/13 at 11:59 p.m.
Date Hour

6. Check one of the following:

☒ The amendment was adopted by the shareholders or members pursuant to 15 Pa.C.S. § 1914(a) and (b) or § 5914(a).

☐ The amendment was adopted by the board of directors pursuant to 15 Pa. C.S. § 1914(c) or § 5914(b).

7. Check, and if appropriate, complete one of the following:

☐ The amendment adopted by the corporation, set forth in full, is as follows

☒ The amendment adopted by the corporation is set forth in full in Exhibit A attached hereto and made a part hereof.

8. Check if the amendment restates the Articles:

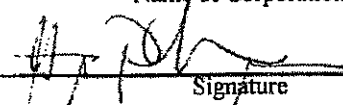
☒ The restated Articles of Incorporation supersede the original articles and all amendments thereto.

IN TESTIMONY WHEREOF, the undersigned corporation has caused these Articles of Amendment to be signed by a duly authorized officer thereof this

31st day of December,
2013.

Chevron U.S.A. Inc.

Name of Corporation



Signature

Grace P. Nerona, Assistant Secretary

Title

Exhibit A

Amended December 31, 2013

Amended and Restated Articles of Incorporation
of
Chevron U.S.A. Inc.

FIRST: The name of the corporation is Chevron U.S.A. Inc.

SECOND: The current registered office of the corporation is c/o Corporation Service Company, Dauphin County.

THIRD: The corporation was incorporated under the Act of April 29, 1874, as amended, and exists under the Business Corporation Law of 1988, as amended.

FOURTH: The aggregate number of shares which the corporation shall have authority to issue is 2,000 shares, of which 1,000 shares will initially be common shares without par value. Holders of common shares (other than shares owned directly or indirectly by the corporation) shall be entitled to receive such dividends or distributions as are lawfully declared on the shares; to have notice of any authorized meeting of shareholders; and to one vote for each share on all matters which are properly submitted to a vote of the shareholders. The board of directors of the corporation shall have the full authority permitted by law to classify the authorized shares into one or more classes and into series within any class and to determine the designation and number of shares of each class or series (within the total number of shares authorized by these articles), and to fix by resolution full, limited, multiple or fractional, or no voting rights, and such preferences, limitations and special rights, if any, of shares of any class or series.

FIFTH: The business of the corporation shall be conducted through one or more divisions, each of which may conduct its separate business under its own fictitious name. The names of the divisions, the businesses in which they may engage, and the assets of the corporation which they will manage will be set forth in the by-laws of the corporation, as amended from time to time. The by-laws may be amended by the shareholders of the corporation and, to the extent permitted by law, by the board of directors of the corporation. Except as expressly set forth herein or in the by-laws of the corporation, the officers of each division shall be solely responsible for directing the management of the affairs of the division. The board of directors of the corporation annually shall elect the officers of the corporation and its divisions. All officers shall have such authority and duties as may be set forth in the by-laws of the corporation or a resolution adopted by the board of directors of the corporation. The board of directors of the corporation shall elect the president of the corporation and the board of directors or the president of the corporation may appoint other designated officers for the corporation and its divisions as vacancies may arise. All officers shall have such authority and duties as may be set forth in the by-laws of the corporation or a resolution adopted by the board of directors of the corporation.

SIXTH: The shareholders of the corporation shall elect a board of directors of the corporation. The following actions shall require the approval of the board of directors and the shareholders of the corporation: (i) the issuance or repurchase of any securities of the corporation, other than promissory notes or other instruments of indebtedness entered into in the ordinary course of business of a division and which do not involve a mortgage, pledge, grant of a security interest or dedication of property to the repayment of indebtedness other than property under the management of the division; (ii) the adoption of any amendment to the articles of incorporation of the corporation or any plan of merger, consolidation, division, conversion or voluntary dissolution of the corporation; or (iii) any matter required by law or the by-laws of the corporation to be submitted by the board of directors to the shareholders for approval.

EXHIBIT F



February 27, 2012

Beacon Technology Center Dam (Texaco)
Chevron USA
PO Box 509
Beacon, NY 12508

Re: Beacon Technology Center Dam
NY File No. 212-5185

Dear NY-EMO (State Police EMO):

The Chevron Corporation has revised the Emergency Action Plan for the Beacon Technology Center Dam located within the Town of Fishkill, Dutchess County. The EAP is a public safety regulatory required document. The 2012 revisions are minor and include updates to phone numbers and contact names of contacts and responders.

Please acknowledge your receipt of your controlled copy distribution by discarding the previous copy and returning the undersigned with the attached acknowledgment, signed and dated.

We appreciate your continued cooperation in the revisions of the EAP. Should you have any recommendations or questions regarding the EAP, please do not hesitate to contact the undersigned.

Sincerely,

Michael W. Lawler
Contractor to Chevron USA

I acknowledge receipt of the (revision date) revision to the Beacon Technology Center Dam EAP and have inserted the revision pages in my controlled copy. This EAP will be maintained at the designated location for use in the event of a drill or actual emergency declaration.

Controlled Document holder name: _____ Document
No: _____

Signature: _____ Date: _____



February 27, 2012

Beacon Technology Center Dam (Texaco)
Chevron USA
PO Box 509
Beacon, NY 12508

Re: Beacon Technology Center Dam
NY File No. 212-5185

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Controlled Document holder name: _____ Document
No: _____

Signature: _____ Date: _____

APPENDIX B

EXCAVATION WORK PLAN TEMPLATE

APPENDIX B

EXCAVATION WORK PLAN TEMPLATE

B-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Regional Hazardous Waste Remediation Engineer

NYSDEC Region 3 Regional Office

21 South Putt Corners Road

New Paltz, NY 12561

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this Excavation Work Plan (EWP),

Simple excavations may only require compliance with a portion of the EWP. For example, excavation of a small volume of soil from above the water table that is directly loaded for off-site disposal would not require the stockpiling or fluids management provisions of this template.

- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format; Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

B-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

B-3 STOCKPILE METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence or other means to prevent sediment runoff. Hay bales or snake bags will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. It is anticipated that soil stockpiles will be maintained on site for no more than sixty (60) days, prior to off-site transportation and disposal at a licensed disposal facility as described in Section B-6 that follows.

B-4 MATERIALS EXCAVATION AND LOAD OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department Of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

A truck wash may be operated on-site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

B-5 MATERIALS TRANSPORT OFF-SITE

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

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Truck transport routes will be determined based on the characteristics of the contaminated soil, and the location of the applicable disposal facility. All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This will be the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport; [(g) community input [where necessary]]

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

B-6 MATERIALS DISPOSAL OFF-SITE

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, Construction and Demolition (C&D) recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted Soil Cleanup Objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

B-7 MATERIALS REUSE ON-SITE

In the event that excavated materials are considered for reuse on site, a materials reuse plan must be submitted and approved by NYSDEC.. The following topics should be covered in this plan:

- Procedure for determining if reuse is appropriate:
 - Sampling (methods and analytical)
 - Chemical limits for on-site reuse
 - o Table of chemical limits for reuse
- Stockpile segregation scheme for on-site reuse
 - Size of stockpiles, location (figure)

Chemical criteria for on-site reuse of material have been approved by NYSDEC. The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

B-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a State Pollutant Discharge Elimination System (SPDES) permit.

B-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the NYSDEC Decision Document. The demarcation layer, consisting of orange snow fencing material or equivalent material will be replaced to provide a visual reference to the top of the ‘Remaining Contamination Zone’, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the ‘Remaining Contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the SMP.

B-10 BACKFILL FROM OFF-SITE SOURCES

This section should describe all methods to be followed for the import, handling and placement of backfill material from off-site. The following topics should be covered:

- Source area approval process
 - Sources of backfill material
 - o Past use of site
 - o Source area background check

- o NYSDOT Certification
- Chemical sampling
 - o Analytes
 - o Frequency
- Imported Soil Chemical Quality Standards
 - o Applicability of protection of groundwater SCOs
 - o Applicability of protection of ecological resources SCOs
- Procedure for determining if reuse is appropriate
 - Sampling (methods and analytical)
- Stockpile procedures for imported backfill material
 - Size of stockpiles, cover, etc.

The following text should be included somewhere in this section:

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table [x]. Soils that meet ‘exempt’ fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

B-11 STORMWATER POLLUTION PREVENTION

For larger excavations, procedures for stormwater pollution prevention should be specified. For construction projects exceeding 1 acre, this is required. A summary of the Stormwater Pollution Prevention Plan that conforms to the requirements of NYSDEC Division of Water guidelines and NYS regulations should be included here. This plan may be included as an Appendix. The following text should appear somewhere in this section:

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Silt fencing, hay bales, or other means will be installed around the entire perimeter of the construction area.

B-12 CONTINGENCY PLAN

A contingency plan will be developed to describe the procedures to be followed upon discovery of an unknown source of contamination that may require remediation (USTs, stained soil, drums, etc.). This should include procedures for suspending excavation work, pumping fluids from tanks or containers, and reporting to the spill hotline. Include the following text:

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (Target Analyte List (TAL) metals; Target Compound List (TCL) volatiles and semi-volatiles, TCL pesticides and polychlorinated biphenyls (PCBs)), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

B-13 COMMUNITY AIR MONITORING PLAN

In the event that excavation activities generate potentially hazardous dust or particulate matter, a Community Air Monitoring Plan (CAMP) must be submitted and approved by NYSDEC. Guidance for CAMP development and implementation can be obtained in Appendix 1A of DER-10, Generic Community Air Monitoring Plan. At a minimum, this section must include:

- Details of the perimeter air monitoring program;
- Action levels to be used;
- Methods for air monitoring ;

- Analytes measured and instrumentation to be used;
- A figure of the location(s) of all air monitoring instrumentation. A figure showing specific locations must be presented for monitoring stations based on generally prevailing wind conditions, with a note that the exact locations to be monitored on a given day will be established based on the daily wind direction.

A figure showing the location of air sampling stations based on generally prevailing wind conditions is shown will be submitted along with the excavation plan. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations. If a sensitive receptor, such as a school, day care or residential area is adjacent to the site, a fixed monitoring station should be located at that site perimeter, regardless of wind direction, and discussed in the text.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

B-14 ODOR CONTROL PLAN

An odor control plan will be required if excavation activities encounter materials that generate nuisance odors both off-site and on the property. This odor control plan will be capable of controlling emissions of nuisance odors off-site [and on-site, if there are residents or tenants on the property]. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

B-15 DUST CONTROL PLAN

Prior to any excavation activities, a dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger areas will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on unpaved roadways to provide a clean and dust-free road surface.
- On-site, unpaved roads will be limited in total area to minimize the area required for water truck sprinkling.

B-16 OTHER NUISANCES

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

APPENDIX C

**INSPECTION AND MAINTENANCE PLAN,
BEACON TECHNOLOGY CENTER DAM**

**New York State Department of Environmental Conservation
Bureau of Flood Protection and Dam Safety**



Visual Observations

DAM NAME Texaco Research Center Dam
STATE ID 212-5185 **SECTION** C **HAZARD CODE** C
COUNTY Dutchess **INSPECTION DATE** 4/23/2014
NEAREST DS CITY/TOWN Fishkill **INSPECTOR(S)** DJH/BXG
OWNER'S NAME CHEVRON/TEXACO RESEARCH & DEVELOPMENT CENTER
DOWNSTREAM HAZARD High **TOWNSHIP** Town of Fishkill

WATER LEVEL BEHIND DAM Approx 12" over spillway

DRAIN OPERATION Operational, exercised. All 7 stop logs installed

DEFICIENCIES

☐
☐
☐

1) Seepage
2) Slope Stability
3) Undesirable Growth

☐
☐
☐

4) Maintenance
5) Surficial Deterioration
6) Voids

☐
☐
☐

7) Cracking
8) Movement/Misalignment
9) Data

—No deficiencies observed

New York State Department of Environmental Conservation
Division of Water
Bureau of Flood Protection and Dam Safety, 4th Floor
625 Broadway, Albany, New York 12233-3504
Phone: (518) 402-8185 • FAX: (518) 402-9029
Website: www.dec.ny.gov



May 2, 2014

Mr. Michael Lawler, Site Coordinator
Staffmark
P.O. Box 509
Beacon, New York 12508

Re: Texaco Research Center Dam
DEC Dam ID #: 212-5185
Town of Beacon, Dutchess County

Dear Mr. Lawler:

I conducted a routine visual inspection at the above referenced dam on April 23, 2014 as part of the Department of Environmental Conservation's (Department) ongoing Dam Safety program. I am writing to you because it is my understanding that you are, or represent, the owner of this structure. A copy of my Visual Observations is enclosed for your information.

The left/right nomenclature used in this letter and in the enclosed Visual Observation Report is based on looking downstream from the center of the service spillway at the dam's crest.

In general, the dam appears to be in good condition with no observed deficiencies. The dam appears to be well maintained.

The Compliance Status Table below details the dam's current compliance status for those sections of the regulations that had or have specific deadlines for compliance.

Compliance Status Table:

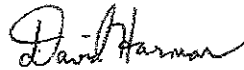
<u>Citation</u>	<u>Requirement</u>	<u>Status</u>
673.6	Develop and implement a written Inspection & Maintenance Plan (I&M Plan) by or before August 19, 2010. Owner to retain the Plan in good order and certify annually to the Department that it is complete. Guidance can be found at http://www.dec.ny.gov/lands/4991.html .	None certified to as complete on an annual basis on Annual Certification Form for 2013.
673.7	Develop and distribute to the local emergency responders an Emergency Action Plan (EAP). EAP should be updated on an annual basis.	EAP has not been updated since January 2012.
673.8	Submit an Annual Certification to the Department January 31 of each year (certification is for the previous year). An annual certification form can be found at: http://www.dec.ny.gov/lands/58691.html .	No 2013 Annual Certification received.

673.13	Complete and submit to the Department an Engineering Assessment (EA) by August 19, 2014 (small C dam). EA must be performed by a New York State Professional Engineer. The EA must be updated every 10 years after the initial submittal. EA guidance is available at: http://www.dec.ny.gov/docs/water_pdf/damfencarpt.pdf	The permit application dated March 2011 fulfills the requirement of the first EA. The Next EA is due in 2021.
--------	---	---

Please keep in mind that any repair or construction activities related to the dam may require permits from Department. Well before beginning work on the dam, please check with the Regional Permit Administrator at the Department's Region 3 – New Paltz office at (845-256-3054) to see if any permits are required.

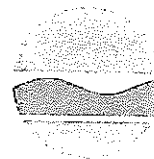
If you have any questions regarding this letter, or the Dam Safety program in general, please contact me at (518) 402-8185.

Sincerely,



David Harmon, P.E.
Environmental Engineer 2
Dam Safety Section

cc w/ enc: Robert LaColla, Supervisor, Town of Fishkill
cc w/ enc: Berhanu Gonfa, PE, NYSDEC Region 3, Dam Safety Representative
Patrick Ferracane, NYSDEC Region 3, White Plains
ec w/o enc: William Beale, Dutchess County Department of Emergency Response



Dam Safety Annual Certification Form

6 NYCRR Part 673.8 requires that Owners of Class C - High Hazard and Class B -Intermediate Hazard dams submit an annual certification to the NYSDEC - Dam Safety Section by January 31 of each year. Please refer to 6 NYCRR Part 673 which governs the definitions and provides additional detail on the questions listed below.

Reporting Year: 2013

Dam Name: Texaco Research Center Dam

Dam Location: County: Dutchess

Town/City: Fishkill

NYS Dam ID No.: #212-5185

Hazard Class: (circle one)

B-Intermediate

C-High

Location (deg/min/sec): Latitude: 41 56' 0.0"W Longitude: 73 31' 0.0"N

1. Owner Name: Chevron

Owner Address: 100 Chevron Way, Room 61-1676, Richmond, CA 94802

Owner Telephone Number: (845) 440-0037 email: mqvw@chevron.com

2. Do you have a written Inspection and Maintenance Plan, in compliance with Part 673, that is being implemented?

☒ Yes

No

If no, provide date it will be completed/implemented: _____

3. Do you have a written Emergency Action Plan (EAP) in compliance with Part 673?

☒ Yes

No

4. Has an annual EAP review been completed for the reporting year?

☒ Yes

No

(If changes occurred, attach the updated pages)

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

This Certification must be signed by an individual on his or her own behalf, or by either a principal executive officer or ranking elected official, or duly authorized representative of the dam owner.

Name: Michael W. Lawler

Title: Site Coordinator

Company: Chevron/Staffmark

Signature: Michael W. Lawler

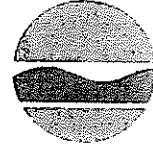
Date: 5/6/14

Send Form and Attachments to:

NYSDEC - Dam Safety Section
625 Broadway, 4th Floor
Albany, New York 12233-3504
Phone: (518) 402-8151
Fax: (518) 402-9029

Note: Please keep in mind the Dam Owner may have other reporting requirements as identified in Part 673 including, but not limited to, reporting: i) flow in an erodible auxiliary spillway, ii) change in ownership, and iii) an engineering assessment every 10 years, following initial assessment.





Dam Safety Annual Certification Form

6 NYCRR Part 673.8 requires that Owners of Class C - High Hazard and Class B -Intermediate Hazard dams submit an annual certification to the NYSDEC - Dam Safety Section by January 31 of each year. Please refer to 6 NYCRR Part 673 which governs the definitions and provides additional detail on the questions listed below.

Reporting Year: 2014

Dam Name: Texaco Research Center Dam

Dam Location: County: Dutchess Town/City: Fishkill

NYS Dam ID No.: 212-5185

Hazard Class: (select one) ☐ B-Intermediate ☒ C-High

Location (deg/min/sec): Latitude: 41 56'0.0"W Longitude: 73 31'0.0"N

1. **Owner Name:** Chevron

Owner Address: 100 Chevron Way, Room 61-1676, Richmond, CA 94802

Owner Telephone Number: (845) 380-6819

eMail: mqvw@chevron.com

2. Do you have a written Inspection and Maintenance Plan, in compliance with Part 673, that is being implemented? ☒ Yes ☐ No

If no, provide date it will be completed/implemented: _____

3. Do you have a written Emergency Action Plan (EAP) in compliance with Part 673? ☒ Yes ☐ No

4. Has an annual EAP review been completed for the reporting year? ☒ Yes ☐ No
(If changes occurred, attach the updated pages)

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

This Certification must be signed by an individual on his or her own behalf, or by either a principal executive officer or ranking elected official, or duly authorized representative of the dam owner.

Name: Michael W Lawler

Title: Site Coordinator

Company: Chevron/Staffmark

Signature: Michael W Lawler

Date: 03/31/15

Send Form and Attachments to:

NYSDEC - Dam Safety Section
625 Broadway, 4th Floor
Albany, New York 12233-3504
Phone: (518) 402-8151
Fax: (518) 402-9029

Note: Please keep in mind the Dam Owner may have other reporting requirements as identified in Part 673 including, but not limited to, reporting: i) flow in an erodible auxiliary spillway, ii) change in ownership, and iii) an engineering assessment every 10 years, following initial assessment.



February 27, 2012

Beacon Technology Center Dam (Texaco)
Chevron USA
PO Box 509
Beacon, NY 12508

Re: Beacon Technology Center Dam
NY File No. 212-5185

Dear NY-EMO (State Police EMO):

The Chevron Corporation has revised the Emergency Action Plan for the Beacon Technology Center Dam located within the Town of Fishkill, Dutchess County. The EAP is a public safety regulatory required document. The 2012 revisions are minor and include updates to phone numbers and contact names of contacts and responders.

Please acknowledge your receipt of your controlled copy distribution by discarding the previous copy and returning the undersigned with the attached acknowledgment, signed and dated.

We appreciate your continued cooperation in the revisions of the EAP. Should you have any recommendations or questions regarding the EAP, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael W. Lawler".

Michael W. Lawler
Contractor to Chevron USA

I acknowledge receipt of the (revision date) revision to the Beacon Technology Center Dam EAP and have inserted the revision pages in my controlled copy. This EAP will be maintained at the designated location for use in the event of a drill or actual emergency declaration.

Controlled Document holder name: _____ Document
No: _____

Signature: _____ Date: _____

Safety Procedure & Equipment Used
To Raise Logs From Dam At Chevron Beacon Site

Attach climbing line (Samson Blue ½ inch thick 7700 pound strength rope) with CMI or Petzl (10000 or 7000 pound tested) locking carabiner to crane. Then attach another line of the same rope to another anchor point other than crane. Secure another rope to my Buckingham climbing saddle with locking carabiner, then attach the rope that's attached to crane to Petzl descender to lower myself to logs. To ascend I use CMI ascenders (10000 pound tested strength) with locking carabiner to raise myself up. I use third point of attachment with micro-ascender. Carry Spyder Co. serrated folding knife for emergency line removal. For head protection I use Petzl climbing helmet with 6 point suspension and chin strap, safety glasses, and for the body a reflection vest. Have another person as spotter with cell phone and 2way radio. Steel-toe boots and 2500 pound Last Chance survival belt also are in use.

If there is anything you need clarification on, please call me at 914-456-4737.

Thank You,
Glenn Hayton

July, 14th 2011

To: Mike Lawler
Re: Crane Over Dam Operating Procedures When Removing Stop Logs

Safety Procedure & Equipment Used
A Brief Summary of Operating Model# 5124 Daurt Cranes

- A) Start with pre-use inspection of the cables, anchor points, and welds.
 - B) Position the boom's center line over the load.
 - C) Attach the safety line and climb line to the end of the boom on the crane.
 - D) Have a spotter with cell phone and safety line stand by to assist in any emergency that might arise.
 - E) Start by removing the top log that has 4" of water flowing over it.
 - F) Crane operator lowers the cable and climber descends onto the log. Climber rigs the locking device onto the first log. Crane operator lifts up and booms the log over to the left side of the crane where the climber and crane operator will unhook the log.
 - G) Reset the boom over the next log and repeat log-locking procedure and removal.
- Repeat until the desired amount of logs are removed.

If there is anything you need clarification on, please call me at 914-456-4737.

Thank You,
Glenn Hayton

Chevron Business and Real Estate Services

100 Chevron Way, Room 61-1676

Richmond, CA 94802

Inspection and Maintenance Plan

Beacon Technology Center Dam Beacon, New York

New York State Dam Inventory No. 212-5185

National Inventory of Dams Identification No. NY14845

January 2011



Report Prepared By:

Malcolm Pirnie, Inc.

855 Route 146, Suite 210
Clifton Park, New York 12065
518-250-7300

4267005

**MALCOLM
PIRNIÉ**

REVISION SHEET

[illegible]

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- D. Completed Formal Inspection Reports (By Engineer)
- E. Bibliography

1. Introduction

This Dam Safety Inspection and Maintenance Plan has been prepared for Chevron Business and Real Estate Services (CBRES), by Malcolm Pirnie, Inc. (Pirnie) in general conformance with the New York State Department of Environmental Conservation's (NYSDEC) guidelines titled "*An Owners Guidance Manual for the Inspection and Maintenance of Dams in the State of New York*", dated June 1987.

Pursuant to NYSDEC Conservation Law Article 15-0507 and New York Codes, Rules and Regulations Title 6, Chapter 10, Part 673.3(a): **Dam owners shall at all times operate and maintain their dam and all appurtenant works in a safe condition.** Owners of dams above permitting thresholds Part 673.4 must develop, keep current, and fully implement a written dam safety Inspection and Maintenance Plan (I&M Plan).

This I&M Plan contains descriptions of monitoring, routine inspection, maintenance, training, notification and public safety procedures associated with the Beacon Technology Center Dam.

1.1. Dam Safety Inspection & Maintenance Plan Format

The I&M Plan has been prepared to be maintained in a three ring binder. The use of a binder will allow for space for the CBRES to include such items as past inspection reports and correspondence, current inspection observations, operation and maintenance records, plans, and other construction records, if available, and any other information pertinent to the dam collected by CBRES personnel, NYSDEC dam safety personnel or outside consultants. This Plan should provide a means whereby the CBRES can keep accurate and up-to-date records of the dam. **We recommend duplicate copies of records added to the file be stored at a different location from the original.**

The I&M Plan should be periodically reviewed and modified to reflect operational, structural, watershed, and inundation area changes. In addition, throughout this I&M Plan there are recommendations to contact an engineer experienced with dams when certain observations are made. **Dams are critical life structures that resist large hydrostatic and seepage forces and therefore require the expertise and experience of qualified personnel to identify the onset and implement the appropriate remedies to mitigate potential safety issues.**

2. Description of Dam Components

Information of the specific components of the Beacon Technology Center Dam is provided below. These components include the:

- Concrete gravity dam (Section 2.1.1);
- Overflow Spillway Section (Section 2.1.2);
- Low Level Outlet (LLO) structure (Section 2.1.3); and
- Right Appurtenance Segment (Section 2.1.4).

Table 2-1 in Section 2.1.5 provides a summary of the physical characteristics of the Dam. Descriptions of “left” and “right” refer to the direction if the viewer was standing on the dam looking downstream.

2.1. Beacon Technology Center Dam

2.1.1. Concrete Gravity Dam

Beacon Technology Center Dam is a run-of-river, concrete gravity and rubble masonry dam along the Fishkill Creek. The dam has the following characteristics/features:

- Access is via School Street off of Old Glenham Road;
- The dam includes a right appurtenance segment (RAS) (Building No. 5 and operations platform) and a 206 foot long concrete gravity structure that includes 186 feet of spillway and 20 feet of non-overflow section on the left side.
- At the overflow section the dam is 22 feet high and founded on bedrock;
- The overflow spillway of the dam is elevation 195.8 and is approximately 4 feet wide;
- The left side non-overflow section includes a low level outlet stop log structure that is 5 feet wide at invert elevation 189.9 feet.

2.1.2. Overflow Spillway Section

The spillway is a broad-crested, ungated, concrete structure founded on bedrock. The overflow spillway section of the dam which spans 186 feet from the RAS to the Low Level Outlet stop log section serves as the primary spillway at elevation 195.8. This concrete gravity structure has a sloped upstream face and a vertical downstream face. The downstream channel immediately below the spillway section is an exposed bedrock creek channel. Within 15 to 30 feet from the toe of the dam the stream channel becomes fully submerged.

2.1.3. Low Level Outlet Structure

The LLO structure consists of a stop log structure with a rectangular flow section that is 5 feet wide. Stop log guides formed into the concrete sidewalls support aluminum stop logs. A permanently mounted hoist on the left sidewall is used to manually remove the stop logs when necessary. This section of the dam was rehabilitated in 2005 and includes a reinforced concrete training wall on the left dam abutment.

2.1.4. Right Appurtenance Segment

The RAS is a complex concrete section of the dam that is currently under redesign and rehabilitation. This segment of the dam will have two operating sluice ways for potential hydroelectric generation. The operation of two head gates will be from the operating platform in front of Building, No. 5. The head gates will be 48 inches by 48 inches and 60 inches by 60 inches with manual crank operation.

2.1.5. Characteristics of the Beacon Technology Center Dam

Table 2-1 summarizes the general data and owner's information for Beacon Technology Center Dam. Table 2-2 summarizes the physical characteristics of the Impoundment and the Beacon Technology Center Dam.

Table 2-1:
General Data for Beacon Technology Center Dam

General Dam Data	
Dam Name	Beacon Technology Center Dam
Dam State Identification Number	212-5185
Dam Hazard Classification	Class C -- High Hazard
Date of Last Hazard Class Verification	August 2009 Inspection
Dam County Location	Dutchess
Town/CBRES/Village	Beacon
Longitude	73° 56' 0.0" W
Latitude	41° 31' 0.0" N
Year of Original Construction	1860
Year of Last Construction Activity	Approximately 2005
Name of Last Engineer and Builder	Unknown
Dam Use	Fire Suppression and Hydroelectric
Dam Owner Name	Chevron Business and Real Estate Services

General Dam Data	
Dam Owner Primary Contact	Carl G. Kellar Property Manager
Dam Owner Mailing Address	100 Chevron Way, Room 61-1676 Richmond, CA 94802
Dam Owner Telephone Number	845-440-0037
Dam Owner Facsimile Number	
Dam Owner E-Mail	mqvw@chevron.com
Primary Person Responsible for Dam Operations	Michael W. Lawler
Contributory Streams	Fishkill Creek
Impoundment Inflow	Varies with Fishkill Creek flow.
Impoundment Outflow	Varies with Fishkill Creek flow.
Special Concerns	Stability of RAS of dam.

**Table 2-2:
Physical Characteristics of Beacon Technology Center Dam**

General Physical Characteristics	
Type of Dam	Concrete gravity and rubble masonry
Height of Dam	22± feet
Length of Dam	206 feet
Width of Dam Crest (overflow section)	Approximately 4 feet
Elev. of Dam Crest (overflow section)	Reportedly 195.8 ± feet
Slope of Upstream Face	Concrete sloped at approx. 1H:1V
Slope of Downstream Face	Concrete/Masonry vertical
Impoundment Normal Pool	Elevation: 196± feet Surface Area: Approximately 7 acres Volume: 50.5± acre-feet
Capacity Table for Impoundment	Unavailable
Spillway Characteristics	
Type of Spillway	Un-gated broad crested weir
Top of Spillway Elevation	195.8 feet
Crest Width	Approximately 4 feet

Section 2
Description of Dam Components

General Physical Characteristics	
Crest Length	186 feet
Spillway Capacity	26,140 cfs
Discharge Tables for Spillway	Unavailable
Counties/ Towns/ Cities/ Villages within Inundation Area	City of Beacon
Low Level Outlet Characteristics	
Type, Size and Configuration	• Aluminum stop log structure accessible from the left abutment. • Removed using a permanently mounted crane on the left sidewall.

3. CBRES Personnel Responsibilities

3.1. Property Manager

Under CBRES organizational structure the **Property Manager** provides overall operational direction for the impoundment (pond level targets, water source selection, operational changes, etc.). It will be the responsibility of the **Property Manager** or his/her designee to:

- Follow New York State Department of Health (NYSDOH) and NYSDEC mandates pertaining to the maintenance and operation of the impoundment;
- Apply for permits required by the NYSDEC or submit the appropriate information to NYSDOH or NYSDEC;
- Direct lowering or raising the water level in the impoundment in response to problems that occur; and

Only the **Property Manager** or his/her designee is authorized to order the emptying of a impoundment. The **Property Manager** or his/her designee shall notify the NYSDEC and the NYSDOH prior to emptying of the impoundment.

3.2. Site Manager

Under the CBRES organizational structure the **Site Manager** will serve as the dam operator. It will be the responsibility of the **Site Manager** or his/her designee to:

- Follow the directions from the **Property Manager** pertaining to the maintenance and operation of the impoundment;
- Notify the **Property Manager** or his/her designee of problems which will require lowering or raising the water level in the impoundment.

3.3. Maintenance Personnel

It will be the responsibility of the **maintenance personnel** under the supervision of the **Site Manager** to maintain, repair (as necessary), clean, and lubricate mechanical equipment (e.g., control valves, sluice gates, etc.) at the dam structure or other appurtenance structures. The maintenance personnel will work with the **Site Manager** or his/her designee to ensure that the dam is operated safely.

3.4. Training of Existing and New Personnel

This I&M Plan has been formatted so that existing dam operating personnel can confirm that they are performing required tasks at the required frequencies and covering the required observations. New employees will conduct tasks along with experienced operators until the employees are familiar with all components of the dam, previous inspection observations, and required frequencies of inspections.

4. Dam Safety Operational Instructions for LLO

Proper operational procedures are important for maintaining a safe dam structure. Outlined below are instructions for operating the components of the dam and impoundment that are critical to maintaining a safe facility.

4.1. Approval to Lower the Impoundment

The lowering or emptying of the impoundment requires approval from the **Property Manager or his/her designee**. A written description of the reason to lower or empty the impoundment must be prepared and given to the **Property Manager** or his/her designee. The written record will be kept on file and appended to this document.

If work has to be performed as an emergency response, then the **Property Manager** or his/her designee will notify the NYSDEC and the NYSDOH.

4.2. Procedures to Lower the Impoundment

- 1. It is not the function of the RAS sluice ways to provide the primary means of lowering the level of the impoundment.**

Impoundment lowering will be achieved by removing the stoplogs from the **LLO Structure at the left (south) side of the dam**. The LLO stop logs are manually removed by using the hand operated hoist attached to the left sidewall which is accessible from the catwalk extending from the left abutment.

5. Inspections

Section 5.0 designates who, how frequent, and what is involved during dam inspections. In order to formalize inspections, a schedule of routine tasks including both weekly tasks and tasks performed less frequently is provided below. The frequency of the required tasks is in part based upon the hazard classification of the dams and in part based on observations made by Malcolm Pirnie, Inc., following the 2010 dam inspection.

Forms are included in Appendix B which can be used to record observations of items at the dam. Using the same inspection form for each inspection allows for ease of tracking changing conditions and formal reporting.

Sections 5.1 through 5.6 provides a general description of selected activities that are to be performed as part of the inspection and maintenance of the dam. Table 5.1 – *Inspection Frequencies for an Embankment Dam* identifies the required inspection and maintenance tasks and the frequency that each task should be performed.

5.1. Daily Tasks

No daily inspections of the dam components are currently required.

Should a condition (e.g., immediately placing the dam in danger of failure) be observed by the **Site Manager** during a required monthly task, an assessment by a qualified engineer of this condition will be performed and then the **Site Manager** may be required to monitor the condition on a daily basis or as recommended by the engineer. The daily monitoring will continue until a corrective measure has been developed by the qualified engineer and the dam safety condition is remediated.

5.2. Weekly Tasks

No weekly inspections of the dam components are currently required.

Should a condition (e.g., accelerating deterioration or water seepage) be observed by the **Site Manager** during a required monthly task, an assessment by a qualified engineer of this condition will be performed and then the **Site Manager** may be required to monitor the condition on a weekly basis or as recommended by the engineer. The weekly monitoring will continue until a corrective measure has been developed by the qualified engineer and the dam safety condition is remediated.

5.3. Monthly Tasks

Monthly tasks performed by the **Site Manager** include: the inspection of the LLO structure for damage or blockage, and that the stop log manual hoist operates freely; the visual inspection of the overflow spillway section for general condition and changes such as loss of concrete and deterioration of the spillway crest; inspection of the RAS head gates and sluice way for damage or deterioration.

The **Site Manager** shall familiarize himself/herself with the previous month's inspection report prior to making current inspections. Following the current observations the **Site Manager** shall closely compare the observations of the past inspections to determine if a change has occurred which could indicate that a more serious condition is developing.

5.4. Quarterly Tasks

Quarterly tasks performed by the **Site Manager** include the inspection of various components of the dam including the abutments, inner and outer turbine chambers, inner and outer fire suppression chambers, intake head gates, the overflow spillway, auxiliary structures (i.e., arched gallery), and upstream and downstream areas.

As with the monthly and past quarterly inspections, the **Site Manager** shall familiarize himself/herself with the previous inspection observations and closely compare the observations of the past inspections to determine if a change has occurred.

5.5. Semi-Annual Tasks

No semi-annual inspections of the dam components are currently required.

5.6. Annual Tasks

Annually, the LLO structure shall be tested. The stop logs shall be inspected for damage and unusual wearing when removed. The RAS intake head gates shall be exercised and cleared of debris. During this inspection an assessment of the upstream watershed and downstream floodway should be made to note changes from human activity.

5.7. Safety Inspections

Every two (2) years the CBRES's **dam safety engineer** will perform a dam safety inspection. The frequency of this inspection is based on the Class C hazard classification of the dam. The dam safety engineer will prepare a dam safety inspection report for the CBRES files and submission to the NYSDEC Dam Safety Division.

5.8. Engineering Assessment

Every ten (10) years following the completion of the pending 2011 rehabilitation of the RAS, CBRES will contract with an **engineer** specializing in dam safety to perform an

Engineering Assessment. The frequency of this assessment is based on the Class C hazard classification of the dam. The consulting engineer will prepare an assessment report for the CBRES's files and submission to the NYSDEC Dam Safety Division.

5.9. Inspections Immediately After Heavy Rainfall & Earthquakes

The **Site Manager** is to perform a surveillance inspection of the dam following heavy rain events. The spillway will be observed after heavy rainfall events to assess if flow over the spillway section has scoured exposed bedrock immediately downstream of the toe of the dam or has damaged the spillway crest. Heavy rainfall shall be considered more than two inches of rainfall occurring in 24-hours.

The **Site Manager** is to perform a surveillance inspection of the dam following earthquakes greater than a Magnitude 3.5 within 50 miles of the site. The overflow spillway crest and downstream dam face will be observed after the event to assess if lateral or horizontal deformation of the concrete structure has occurred and if cracking, crumbling, or structural failure has occurred in the three segments of the dam.

**Table 5-1:
Inspection Frequencies for Concrete Gravity Dam**

Dam Feature	Alignment	Animal Burrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement & Slides	Vegetation
Dam (non-overflow section RAS)												
Upstream	Q		Q	M	Q							
Downstream			Q	M	Q							
Abutments			Q				M	M				
Arched Raceway	Q		Q	M								
Overflow Spillway Section												
Crest	Q		Q	M	Q							
Downstream Face				Q				Q				
Apron/Exposed Bedrock				Q	Q	Q						
Low Level Outlet Structure												
Outlet Structure	Q			M			M	M				

Section 5
Inspections

Dam Feature	Alignment	Animal Burrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement & Slides	Vegetation
Discharge Apron				Q		Q						
Stop logs	A				A		A	A				
General Areas												
Impoundment Surface							M					
Shoreline								Q			Q	Q
Mechanical Systems				Q	Q		Q	Q				
Upstream Watershed							A					
Downstream Floodway							A					
Security Devices					Q		Q					
Legend: M – Monthly Inspection Q – Quarterly Inspection A – Annual Inspection												
Notes: Leakage – Uncontrolled loss of water by flow through a hole or crack. Seepage – The interstitial movement of water that may take place through a dam, its foundation, or its abutments.												

6. Instrumentation and Monitoring Guidelines

6.1. Beacon Technology Center Dam

There are no active instruments at the Beacon Technology Center Dam for measurement or monitoring of the dam. Pending the completion of the RAS rehabilitation in 2011 monitoring wells and tie-down anchor load cells will require monitoring.

6.2. Monitoring of Leakage and Seepage

Pending the completion of the RAS rehabilitation in 2011 the seepage locations within the RAS noted in the August 2009 inspection of the dam will be remediated. These locations will be sealed with injection grout and a new wall will be cast.

Where present, monitoring leakage and seepage discharge will follow the procedures below:

- Samples of seepage will be collected in clean, clear, glass sampling jars with water-tight lids;
- The lids of the sample jars should be clearly labeled with the date and time sampled and the sample location;
- Record the approximate flow rate and appearance (i.e. water clarity and color at time of sampling) of the discharge on the inspection form;
- Store samples in a secure location where they will be undisturbed for a minimum of 24-hours. Following the 24-hour equilibration period check samples for the presence of sediment and note qualitative amount on the sample form; and
- Samples containing sediment should be retained for inspection by the CBRES's engineer.

Monitoring shall be conducted at the frequencies outlined in Table 5-1.

7. Maintenance Operations Guidelines

7.1. Maintenance Priorities

Following each inspection, items noted as requiring maintenance are to be reviewed to determine if they need immediate, scheduled, or continuing maintenance.

7.1.1. Immediate Maintenance

Immediate maintenance will be performed when the observed condition is critical (i.e. jeopardize the safety of the dam or auxiliary structures) and calls for immediate attention. The **Property Manager** will be notified for authorization of immediate maintenance items. Examples of conditions at the dam which would require immediate maintenance include:

- Movement or change in the alignment of the dam;
- Development of a sink or scour hole in the left abutment;
- The non-overflow section (RAS) of the dam is about to be overtopped or is being overtopped;
- The dam is about to be breached;
- A blocked overflow spillway;
- Excessive seepage or change in seepage flow rate or clarity is noted; and
- New Concrete spalls larger than 1-inch thick are observed.

7.1.2. Scheduled Maintenance

Scheduled maintenance will be performed **as soon as possible** after the defective condition is observed. Examples of defective conditions at the dam which would require maintenance include:

- Misalignment of the LLO stop logs;
- Cracking of the concrete or masonry structure walls; and
- Gates and/or valves not operating smoothly or sticking.

7.1.3. Continuing Maintenance

There are several maintenance tasks that will be performed on a continuing basis. These tasks include, but are not limited to:

- Debris removal;

- Scour protection (concrete apron) repair;
- Lubricating mechanical parts; and
- Cleaning of trash racks.

7.2. Specific Maintenance Items

7.2.1. Concrete Maintenance

Deterioration of the surfaces of a concrete gravity dam may occur for several reasons, such as weathering, concrete alkaline reaction, and uncontrolled spalling from a freeze thaw and environmental exposure. Damage of this nature will be repaired on a **continuing basis**.

For **minor concrete repairs** the following procedure will be followed:

- Contract a concrete patching and grouting expert for repairing;
- Before placement of concrete repair materials, prepare the repair area by removing all loose and spalled material. Box out areas for repair so the new material can be placed and effectively bonded to competent concrete;

The above repair procedure is not intended to solve **serious concrete problems**. Conditions such as structural cracking, and loosened masonry threaten the immediate safety of the dam and require immediate repair under the direction of a qualified engineer.

7.2.2. Vegetation Maintenance

The entire dam will be kept clear of unwanted vegetation such as brush or trees on a **continual basis**. Excessive growth can: obscure the surface of the dam and prevent a thorough inspection.

7.2.3. Mechanical Maintenance

Proper operation of the dam's LLO structure is essential to the safe and satisfactory operation of the dam. If routine inspection of the LLO structure indicates the need for maintenance, the work will be performed **as soon as possible**. In order to ensure smooth operation of the LLO structure, all stop logs will be fully removed **annually**. This maintenance should be scheduled during periods of low impoundment storage and inflow.

Upon completion of the pending rehabilitation of the RAS the intake gates will require maintenance and will need to be exercised.

7.2.4. Maintaining Security of Operating Equipment

Maintenance to security devices for operating equipment (i.e., lock on LLO structure manual hoist, locked entrance to site, perimeter fencing) will be performed **as soon as possible** should a deficiency be observed.

8. Emergency Operations Guidelines

8.1. Observation of an Emergency Condition at the Dam

Should an emergency condition be observed during an inspection or while maintenance is being performed the following individuals must be contacted immediately:

Michael W. Lawler, Site Coordinator, Office 845-440-0037
Cell 845-380-6819

Monica K. Heavey, Site Manager Office 845-440-0045
Cell 845-527-3533

Emergency Procedures

Refer to Section 4.1 and 4.2 for procedures on how the impoundment level is to be lowered in the event of an emergency.

The NYSDEC shall be notified in writing within 24-hours of any occurrence that requires activating the EAP. Activities which may affect the current hazard classification will also be brought to the NYSDEC's attention.

9. Recordkeeping

Operating a dam includes keeping accurate records of the following:

9.1. Observations

Immediately following an inspection, observations should be compared with previous records to see if there are any trends that may indicate developing problems. If a questionable change or trend is noted, and failure is not imminent, the CBRES should contact a qualified engineer experienced in dam safety.

All observations should be recorded and a copy of the observation form kept in Appendix C of the I&M Plan. Periodic observations of seepage are particularly important. Photographs are valuable for recording observations and documenting changes, and should also be included in Appendix C with the associated inspection form.

9.2. Maintenance

Written records of maintenance and major repairs are important for evaluating the safety of the dams. All such records should be kept in Appendix C of the I&M Plan.

9.3. Rainfall and Water Levels

A record of the date, time, and maximum elevation of extremely high water and associated rainfall or run-off is useful in evaluating the performance of the dams. Maintain records in Appendix C.

9.4. Leakage and Seepage

A record of the date, time, and visual observations of leakage or seepage at the dam or appurtenance structures is useful in evaluating if changes are occurring along the paths within the dam, and determining if an adverse condition may be developing. The leakage and seepage monitoring will be important in evaluating the performance of the dam as part of the Engineering Assessment. Maintain records in Appendix C

9.5. Drawdown

A record of the amount, rate, and reason for pool level drawdown is to be kept on file for each dam. A form for recording this information is provided in Appendix B. Completed forms shall be maintained in Appendix C.

9.6. Development Downstream

Accurate documentation of all development downstream of the dams (within the current inundation zone as shown on the inundation maps) shall be maintained. The updated information should be reviewed on an **annual basis** to determine if the EAP needs to be updated to ensure appropriate notification of downstream residences and/or property owners to reduce the risk of loss of life and property damage should failure occur. A form for recording this information is provided in Appendix B. Completed forms shall be maintained in Appendix C.

9.7. Development in Watershed

Documentation of any development in the watersheds that could affect the volume of flow into the impoundments shall be maintained. The updated information should be reviewed on an **annual basis** to determine if the hydrologic and hydraulic assessments need to be updated. A form for recording this information is provided in Appendix B. Completed forms shall be maintained in Appendix C.

10. Closure

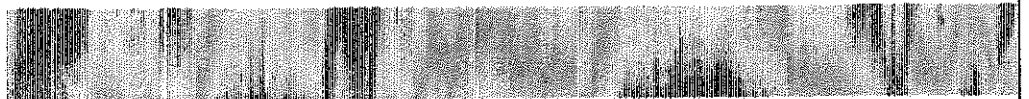
The inspection and maintenance guidelines presented in this document are based, in part, on the impoundment conditions documented in the August 3, 2009 Phase 1 – Letter Report Prepared by LMD, LLC., information available at the time this document was prepared, and in accordance with generally accepted dam engineering practices. No other warranty, expressed or implied, is made. Should there be substantial changes in the impoundments condition, major new construction or repairs made to the impoundments, or a change in how the impoundments are utilized, the operational procedures and maintenance guidelines should be re-examined as necessary.

Chevron Business and Real Estate Services
Inspection and Maintenance Plan
Beacon Technology Center Dam

Appendix

A

Figures



New York State Inventory of Dams

Name of Dam: Texaco Research Center Dam

State ID: 212-5185

Hazard Code: C

See below for hazard code definition

Year Completed: 1860

Most Recent Inspection: 3/26/2008

Location Information:				
County	Municipality	River or Stream	Latitude	Longitude
Dutchess	Unknown	FISHKILL CREEK	41° 31' 0.0" N	73° 56' 0.0" W

Type:	
Type of Construction	Purpose
CN - Concrete Gravity, MS - Masonry	Fire Protection, Stock, Or Small Farm Pond

Technical Information:	
Federal ID Number	NY14845
Dam Length (feet)	206
Dam Height (feet)	22
Spillway Width (feet)	186
Maximum Discharge (cubic feet per second)	16870
Maximum Storage (acre-feet)	0
Normal Storage (acre-feet)	50.5
Reservoir Surface Area (acres)	0
Drainage Area (square miles)	180
Basin	LOWER HUDSON
Date of Data Update	10/19/2009

Note – The Hazard Code denotes the downstream hazard potential in the event of a dam failure:

C = High Hazard

B = Intermediate Hazard

A = Low Hazard

0 = Null; No hazard code assigned

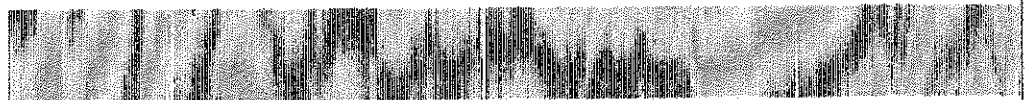
APPENDIX B

Chevron Business and Real Estate Services
Inspection and Maintenance Plan
Beacon Technology Center Dam

Appendix

B

Blank Forms



Beacon Technology Center Dam

Monthly Inspection Form

Date _____

Time _____

Weather Conditions _____

Temperature (°F) _____

Reason for Monitoring (schedule, rain event, seismic) _____

Inspector Initials: _____

Reservoir Elevation _____

Photos Taken (Y or N) _____

Embankment Dam

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Upstream													
Downstream													
Abutments													
Arched Raceway													

Spillway

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Crest													
Discharge Channel													
Apron/Exposed Bedrock													

Low Level Outlet Structure

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Outlet Structure													
Discharge Apron													
Stoplogs													

General Areas

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Impoundment Surface													
Shoreline													
Mechanical Systems													
Upstream Watershed													
Downstream Flood Plains													
Security Devices													

Additional Observations (e.g., immediate maintenance concerns, recent maintenance activities, unusual events or observations, etc.)

**RECORD OF MAINTENANCE AT
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Date/Time of Maintenance	Description of Maintenance	Was the Reservoir Level Lowered for Maintenance?	Are There Manufacturer's Guidelines/Instructions as Part of the Repair? (If so, File in O&M Plan)	Name/Title of Individual Performing Maintenance	Name/Title of Individual Making Record

**RECORD OF RAINFALL AND WATER LEVELS AT
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Date of Storm Event	Amount of Precipitation Received During Storm Event	Time Water Level Was Observed	Maximum Elevation of Reservoir	Name/Title of Individual Making Record

Note: The peak water level may occur many hours after the precipitation event is over. Heavy rainfall events (more than 2 inches of rainfall in 24 hours or more than 1 inch of rainfall within 1 hour) shall be recorded on this form. In addition, on a seasonal basis (at least 4 times a year) storm events on the order of 2 inch of rainfall in 24 hours should be recorded.

**RECORD OF RAINFALL AND WATER LEVELS AT
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Date of Storm Event	Amount of Precipitation Received During Storm Event	Time Water Level Was Observed	Maximum Elevation of Reservoir	Name/Title of Individual Making Record

Note: The peak water level may occur many hours after the precipitation event is over. Heavy rainfall events (more than 2 inches of rainfall in 24 hours or more than 1 inch of rainfall within 1 hour) shall be recorded on this form. In addition, on a seasonal basis (at least 4 times a year) storm events on the order of 2 inch of rainfall in 24 hours should be recorded.

**RECORD OF RESERVOIR EMPTYING AT
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Dates of Drawdown	Amount of Drawdown	Rate of Drawdown	Reason for Emptying	Name/Title of Individual Making Record

Note: To insure the integrity of the earthen impoundment structure, drawdown of the reservoirs will be at the rate of one foot per hour or less.

**DEVELOPMENT UPSTREAM OF THE
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Date Development Upstream Observed	Type of Development (e.g. road, housing, commercial)	Does the H&H assessment need to be updated based on the development?	Name/Title of Individual Making Record

**DEVELOPMENT DOWNSTREAM OF THE
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR _____

Date Development Downstream Observed	Type of Development (e.g. road, housing, commercial)	Development Within Inundation Mapping Limits?	Does the EAP/inundation mapping and lists of impacted parcels need to be updated?	Name/Title of Individual Making Record

**RECORD OF RAINFALL AND WATER LEVELS AT
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

CALENDAR YEAR 2011

Date of Storm Event	Amount of Precipitation Received During Storm Event	Time Water Level Was Observed	Maximum Elevation of Reservoir	Name/Title of Individual Making Record
8/28/11	7" RAIN	0700 AM on 8/29/11	36" BELOW B-5 RICHMOND DECK	Mike Javelle BEACON SITE CORP.

Note: The peak water level may occur many hours after the precipitation event is over. Heavy rainfall events (more than 2 inches of rainfall in 24 hours or more than 1 inch of rainfall within 1 hour) shall be recorded on this form. In addition, on a seasonal basis (at least 4 times a year) storm events on the order of 2 inch of rainfall in 24 hours should be recorded.

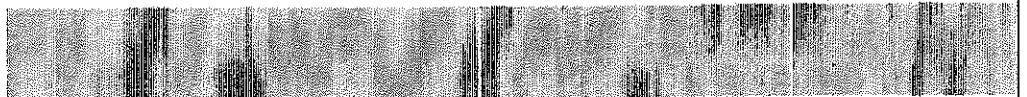
- NOTE: AUGUST 2011 RECEIVED 18 IN OF RAINFALL

Chevron Business and Real Estate Services
Inspection and Maintenance Plan
Beacon Technology Center Dam

Appendix

C

**Completed Forms from Previous
Informal Inspections**



Beacon Technology Center Dam Monthly Inspection Form

Date 4/19/11 Time 9:45 AM
 Weather Conditions LT RAIN Temperature (°F) 54°
 Reason for Monitoring (schedule, rain event, seismic) SCHEDULE Inspector Initials: MNL
 Reservoir Elevation _____ Photos Taken (Y or N) _____

Embankment Dam

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Upstream				N									DEBRIS ON THE TRASH
Downstream				N									RACK TO THE ARCHNOY
Abutments							N						
Arched Raceway				Y									

Spillway

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Crest				N									
Discharge Channel													
Apron/Exposed Bedrock													

Low Level Outlet Structure

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Outlet Structure				Y			N	N					CLOSE THE ROD HUNT GATE
Discharge Apron													TO CLEAN THE TRASH RACK
Stoplogs													CLEAN THE TRASH RACK

General Areas

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Impoundment Surface							N						
Shoreline													
Mechanical Systems													
Upstream Watershed													
Downstream Flood Plains													
Security Devices													

Additional Observations (e.g., immediate maintenance concerns, recent maintenance activities, unusual events or observations, etc.)

Beacon Technology Center Dam

Monthly Inspection Form

Date: 5/17/11 Time: 8:30 AM
 Weather Conditions: 3" RAIN Temperature (°F): 65°
 Reason for Monitoring (schedule, rain event, seismic): SCHEDULE - RAIN Inspector Initials: MNL
 Reservoir Elevation: FULL Photos Taken (Y or N):

Embankment Dam

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrowes	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Upstream				N									
Downstream				N									
Abutments							N						
Arched Raceway				N									

Spillway

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrowes	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Crest				N									
Discharge Channel													
Apron/Exposed bedrock													

Low Level Outlet Structure

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrowes	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Outlet Structure				N			N	N					3 DAYS OF RAIN, 8" OF WATER GOING OVER THE TOP OF THE SLUICE GATES
Discharge Apron													
Stoplogs													

General Areas

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrowes	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Impoundment Surface							N						
Shoreline													
Mechanical Systems													
Upstream Watershed													
Downstream Flood Plains													
Security Devices													

Additional Observations (e.g., immediate maintenance concerns, recent maintenance activities, unusual events or observations, etc.)

Beacon Technology Center Dam Quarterly Inspection Form

Date 6/24/11 Time 9:30 AM
Weather Conditions CLOUDY Temperature (°F) 76°
Reason for Monitoring (schedule, rain event, seismic) SCHEDULE Inspector Initials: MHL
Reservoir Elevation _____ Photos Taken (Y or N) YES

Embankment Dam

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Upstream	N		N		N								
Downstream			N		N								
Abutments			N										
Arched Raceway	N		N										

Spillway

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Crest	Y		N		N								Y - CREST IS 5" HIGHER FROM 2 DAY 2" TOTAL RAINFALL
Discharge Channel				N	N			N					
Apron/Exposed Bedrock				N	N	N							

Low Level Outlet Structure

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Outlet Structure	N												
Discharge Apron				N		N							
Stoplogs													

General Areas

Feature (mark "Y" for yes if change observed, "N" for no change observed)	Alignment	Animal Borrows	Cracks	Debris	Deterioration	Bedrock Scour	Human Activity	Leakage	Muddy Water	Seepage	Settlement and Slides	Vegetation	Comments
Impoundment Surface													
Shoreline								N			N		SMALL DEBRIS ALL AROUND TRASH ROCK FOR TURBINE INLET
Mechanical Systems				Y	Y		N	N					TRASH ROCKS ARE PUSHED IN
Upstream Watershed													
Downstream Flood Plains													
Security Devices					N		N						

Additional Observations (e.g., immediate maintenance concerns, recent maintenance activities, unusual events or observations, etc.)

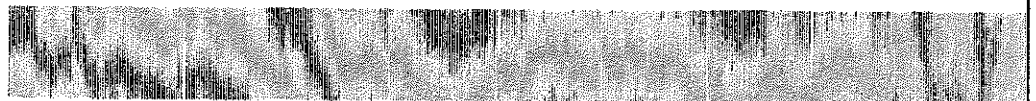
APPENDIX D

Chevron Business and Real Estate Services
Inspection and Maintenance Plan
Beacon Technology Center Dam

Appendix

D

**Completed Formal Inspection
Reports (By Engineer)**





**Beacon Technology Center Dam
Glenham, New York
Visual Inspection and Site Survey**

Phase 1 – Letter Report

03-August-2009

Presented by:





August 3, 2009

Mr. Carl G. Kellar
Property Manager
North American Real Estate Services
Chevron Business and Real Estate Services
145 S. State College Blvd., Rm. 4017
Brea, California 92821

Re: Phase 1 – Visual Inspection and Site Survey
Investigation of Beacon Technology
Center Dam (DEC Dam ID: 212-5185)

File: LmD Job Number 09110.00

Dear Mr. Kellar:

LmD LLC (LmD) is pleased to present this Phase 1 report to Chevron Business and Real Estate Services (Chevron) related to a visual inspection of the Beacon Technology Center Dam. These services and project deliverables were performed in accordance with LmD's proposal to Chevron dated May 08, 2009.

GENERAL

LmD has teamed with O'Brien & Gere Engineers, Inc (O'Brien & Gere) as a part of this Phase 1 effort. LmD understands that Chevron plans to prepare the former Beacon Technology Center (Site) for redevelopment by completing the environmental remediation of the Site and demolishing the Site buildings, including Buildings 4, 5 and 6 which are located adjacent to the Beacon Technology Center Dam. Chevron has raised concerns regarding the effect that the proposed demolition will have on the integrity of the dam and has retained the services of LmD to investigate the existing condition of the dam, potential effects of building demolition on the structure and the possibility of lowering or removing the dam.

SITE MEETING AND VISUAL INSPECTION

A meeting was held at the Site on June 17, 2009 with representatives from Chevron, Parsons, LmD, and O'Brien & Gere. Existing conditions and future plans for the site were discussed, as was the scope of services to be provided by the LmD team. Following the meeting, the LmD team performed a visual inspection of portions of the dam and adjacent buildings. A summary of the inspection is presented below. The primary focus of the inspection was the turbine intake chamber and two (2) of the buildings slated for removal; Buildings 5 and 6. A summary of the inspection is presented below. Photos taken during the inspection and three Figures (1, 2, and 3) that present some of the notable observations made during the inspection are attached.

Intake and Turbine Chambers

Two (2) O'Brien & Gere engineers inspected the interior of the intake and turbine chamber on June 17, 2009. Based on their visual observations, the chambers appear to be in overall fair condition, with some significant deterioration observed in isolated locations. The findings of the inspection are presented below.

North Intake Chamber Wall

Some of the most significant deterioration observed during the inspection was at the joints between the original wingwalls that formed the intake to the turbine chamber and the new intake chamber walls that were constructed in the early 1950's (Photos 3 & 4). Deterioration of the base of the original concrete wall was also observed (Photo 5). It appears that the concrete wingwall was cast directly over bedrock and was probably more of a veneer at the base; this veneer has cracked and fallen away from the wall. The exposed bedrock is highly fractured. Significant seepage was observed flowing from the joint between the concrete sections, approximately twelve feet above the chamber floor (3.2 feet below the water surface elevation in the Fishkill Creek). This indicates that the source of the seepage is likely the Creek, although this should be verified through additional investigations.

Upstream Intake Chamber Wall

The upstream intake chamber wall is in fair condition, however, some seepage and deterioration of the joints has occurred and some honeycombing of the concrete wall was observed (Photos 6 - 8). The most significant deterioration was found at the joint between the upstream and separator walls. Two seeps were observed at the joint, located approximately two and three feet above the chamber floor. The concrete in this area was found to exhibit surface pitting and has spalled due to cement paste deterioration to a depth of approximately two inches over an approximate eight-inch length (Photo 8). The deterioration and seepage at the joint between the north and upstream intake chamber walls was less significant and the concrete appeared to be in better condition (Photo 7). The downstream face and frame of the 60" x 60" sluice gate appeared to be in overall fair to good condition, given its age. A minor amount of seepage was observed and some rusting was evident at the base of the gate. The concrete around the gate frame, however, has experienced some deterioration.

Separator Wall

The separator wall between the intake chamber and the fire protection pump well chamber also appears to be in fair condition (Photo 9). Deterioration of the joint between the upstream and separator walls was discussed above. A minor seep was observed in the wall approximately ten feet above the chamber floor. However, significant seepage discharges from a 16" x 24" sluice gate housed in the wall. Visible flow is occurring from the top and bottom of the gate (Photo 6). The rate of discharge appears to have increased since an inspection performed by O'Brien & Gere in 2002. Chevron personnel also reported an increase in the amount of flow. A small section of deterioration at the base of the wall, in-line with the seepage and approximately two inches deep, was also observed.

Turbine Chamber

As shown in Photos 10 through 13, significant concrete deterioration was observed immediately downstream ("inside") of the entrance to the turbine chamber. Several seeps were noted on both the north and south walls, but the seeps on the north wall were more numerous and had greater discharge. Sections of the north wall concrete were found to be soft, similar to the weakening of the concrete found on the upstream intake chamber wall (Photos 10 & 11). A steel beam grill with concrete infill forms the ceiling of the chamber. Surface erosion of the concrete and heavy rust on the steel flange was observed. Stalactites and efflorescence of the ceiling concrete were also observed (Photo 13). Seepage was also noted at the exterior wall of the turbine chamber, behind the wooden slide gate (Photo 13). The seepage appeared to exit from a joint approximately twelve to eighteen inches above the chamber ceiling, although the exact location could not be verified due to the position of the gate in front of the wall. The wooden slide gate that was previously positioned at the entrance to the turbine chamber has been raised and may be inoperable; however, the gate rack appears to be in fair to good condition. A gate valve is located near the north corner of the downstream turbine chamber wall. This gate is left in the open position to allow for the seepage into the chamber to exit into the arched gallery located below Building 5.

Building 5/Arched Gallery

The "Arched Gallery" is located below Building 5. The turbine and fire protection pump well discharge into this area. The gallery can be accessed by boat from the Fishkill Creek downstream of the Beacon Technology Center Dam, through an arched entrance during low flow conditions. The high flow in the Fishkill at the time of the inspection, however, prevented access into the gallery. A hatch in the floor of Building 5 does permit a cursory visual inspection of the interior of the chamber. As shown in Photos 14 and 15, the interior of the arched gallery appears to be in good condition. The foundation for the walls consists of large stone masonry blocks to a height of approximately eight to ten feet above the Fishkill Creek. The west (downstream) wall is constructed of bricks above the masonry foundation section while the north and east walls appear to be concrete, although it is not known if the walls are a composite of brick and concrete.

Dam and Abutments

Due to recent rainfall, above-average flow in the Fishkill Creek prevented a visual inspection of most of the structure (Photos 1 & 2). The recently (2005) installed low-level outlet and concrete training walls located near and at the south abutment of the dam (Photo 17) appeared to be in good condition. No significant seepage through the stoplogs was observed. Chevron personnel reported that raising the logs can be complicated by the logs being moved by in the river current and becoming jammed in their guides; therefore, the stoplogs were not raised during the inspection. No cracking, spalling, efflorescence or other evidence of deterioration of the concrete walls was observed.

The interior of Building 5, above the arched gallery and turbine chamber, was inspected. A small chamber is located below the old generator, above the turbine chamber. The chamber walls are concrete and masonry and appeared to be in fair condition. Water was observed seeping into the chamber (Photo 16). The source of the seepage is assumed to be groundwater since the chamber appears to be at an elevation above the Fishkill Creek. The heads of two rock bolts are visible on the west (upstream) wall of this chamber. It is not known

what led to the installation of these bolts. It may have been a preventative measure against vibrations from the turbine/generator, or the wall may have experienced a localized failure at this location.

REVIEW OF REPORTS

As part of Phase 1 of the investigation of the Beacon Technology Dam, The LmD/O'Brien & Gere team reviewed Parson's memorandum entitled "Pre-Demolition Survey of Buildings 2, 3, 4, 5 and 6" dated May 27, 2009. The memorandum summarizes results from their pre-demolition survey and provides recommendations for precautionary measures to be taken following removal of the buildings. Of particular interest to this project are the surveys and the recommendations for Buildings 5 and 6. The memorandum notes that knowledge of the building construction, particularly as it relates to the tie-ins with the dam, is extremely limited. The potential effects of building demolition on the stability of the dam are not analyzed as part of the memorandum, although preliminary concepts for investigating the interrelationship between the structures and for stabilizing the remaining foundations of the buildings are presented.

INVESTIGATE LOWERING OF DAM

In addition to demolition of the buildings on the Site, Chevron is interested in partial or full removal of the Beacon Technology Center Dam as part of the redevelopment process. Previously, Parsons prepared a report entitled "Preliminary Feasibility Evaluation - Removal of Dam on Fishkill Creek, Former Chevron Research Center". This report presents a thorough compilation of New York State regulations that may be applicable in the dam removal and permitting process. The list was comprehensive and appears to cover all anticipated permitting.

The LmD team contacted Mr. Dave Harmon of the NYSDEC Dam Safety Section (DSS) to discuss technical, logistical and permitting issues pertaining to removal of the dam. Mr. Harmon stated that the DSS is generally supportive of dam removal projects and that their permitting requirements are relatively minor (compared to permitting requirements for dam rehabilitation); however, additional submittals would be required for a partial removal than for a full removal of the structure. Additionally, he agreed that the more complicated portion of the permitting process for a dam removal/lowering project would involve the environmental impacts and potential public objections.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions concerning the Beacon Technology Center Dam and its appurtenances are based on the visual inspection, review of available data, and past experience:

- The intake chamber appears to be in overall fair condition. Some seepage through, and deterioration of, the concrete walls was observed throughout the chamber.
- The downstream face and frame of the 60" x 60" sluice gate that controls flow into the chamber appears to be in fair to good condition.
- The turbine chamber appears to be in fair to poor condition with deterioration of the concrete walls and ceiling observed throughout the chamber.

Mr. Carl G. Kellar - Chevron
August 3, 2009
Page 5

- A thorough visual inspection of the arched gallery could not be performed; however, based on observations through an access hatch, the gallery walls and foundation appear to be in good condition.
- The low-level outlet and concrete wall repairs completed for the dam in 2005 appear to remain in good condition. The condition of the run-of-river dam structure itself could not be inspected due to flow conditions in the Fishkill Creek.

The following investigations and analyses related to the dam and appurtenant structures are recommended prior to demolition of Buildings 5 and 6:

- Perform destructive and non-destructive testing to determine the thickness of the concrete walls and floor and the condition of the underlying bedrock within the intake and turbine chambers.
- Perform destructive and non-destructive testing to determine the type and thickness of the Building 5 and 6 foundation walls.
- Retain the services of a professional diving contractor to perform an underwater inspection of the upstream and downstream faces of the dam, the outboard side of the Building 6 foundation wall, the upstream face and the sluice gates of the intake and fire protection pump well chambers, the interior of the fire protection pump well chamber, the interior of the arched gallery.
- Perform stability analyses of the dam abutment features.
- Evaluate potential effects of seepage conditions in the chambers on the demolition/removal of Buildings 5 and 6 as well as future plans for the Site.

The LmD team appreciates this opportunity to provide engineering services to Chevron. If you have any questions or comments related to this letter report, please do not hesitate to contact me at 610.246.4296.

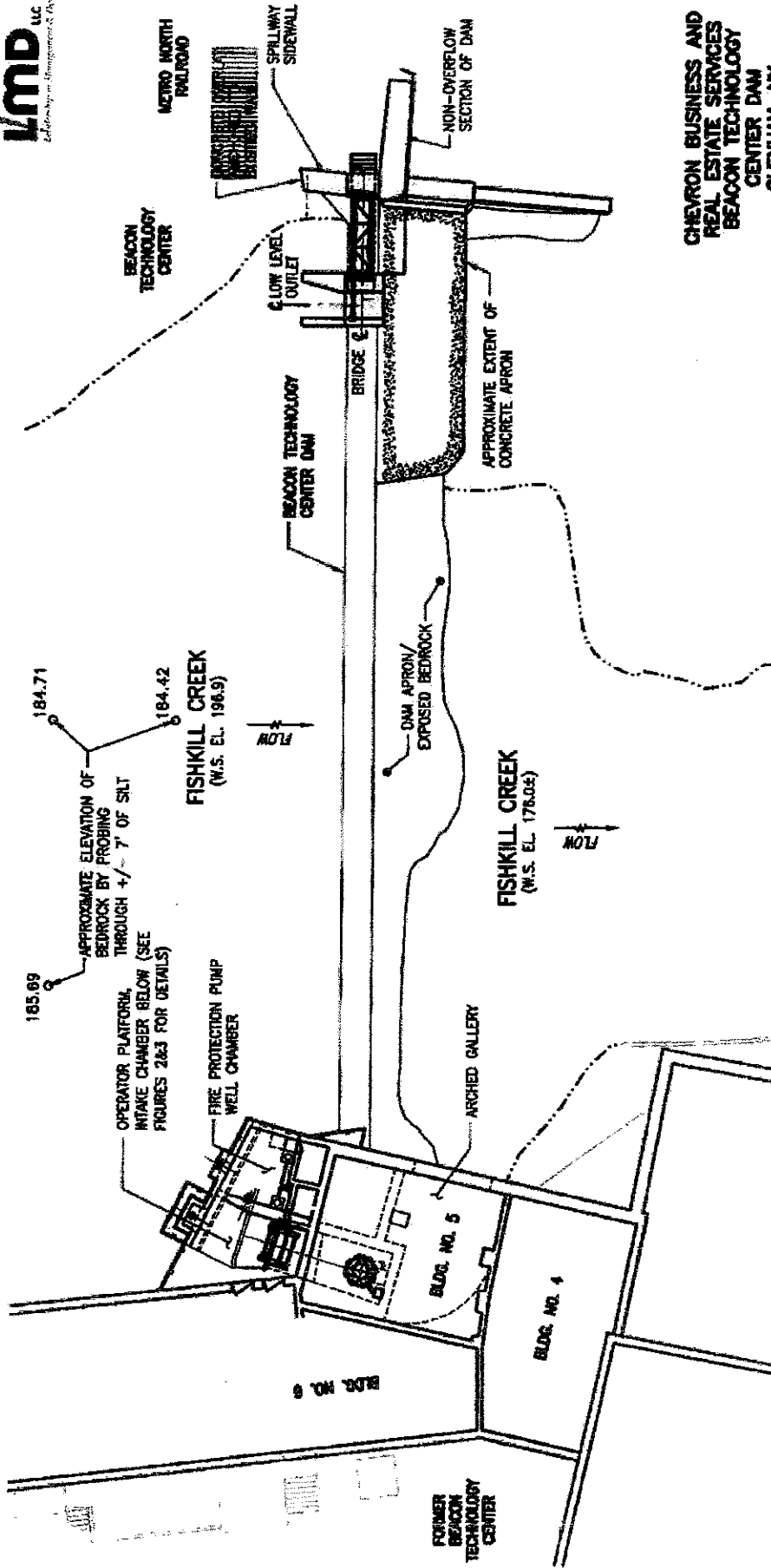
Very truly yours,

LmD LLC

Luke M. Demo, P.E.

cc. WJP/LmD
RRB/OBG
EGD/OBG
GBE/OBG

FIGURE 1



CHEVRON BUSINESS AND
REAL ESTATE SERVICES
BEACON TECHNOLOGY
CENTER DAM
GLENHAM, NY

BEACON TECHNOLOGY
CENTER DAM
SITE PLAN



FILE NO. LMD-LLC 44861-F01.DWG
JULY 2009



FIGURE 2



CHEVRON BUSINESS AND
REAL ESTATE SERVICES
BEACON TECHNOLOGY
CENTER DAM
GLENHAM, NY

INTAKE AND TURBINE
CHAMBERS
EXISTING CONDITIONS AND
INSPECTION NOTES



FILE NO. LMD-LLC 44861-052.DWG
JULY 2009

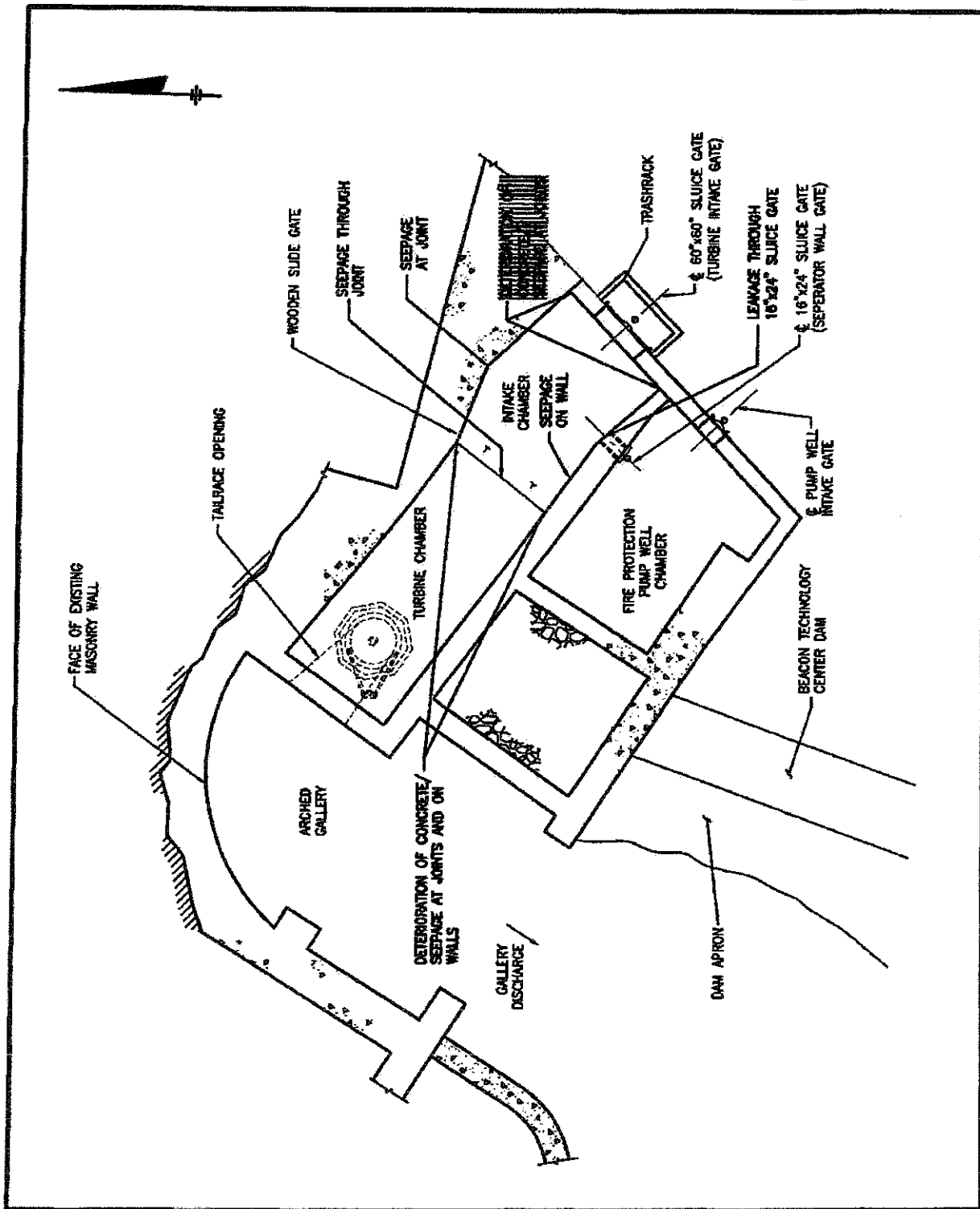
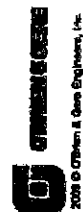


FIGURE 3

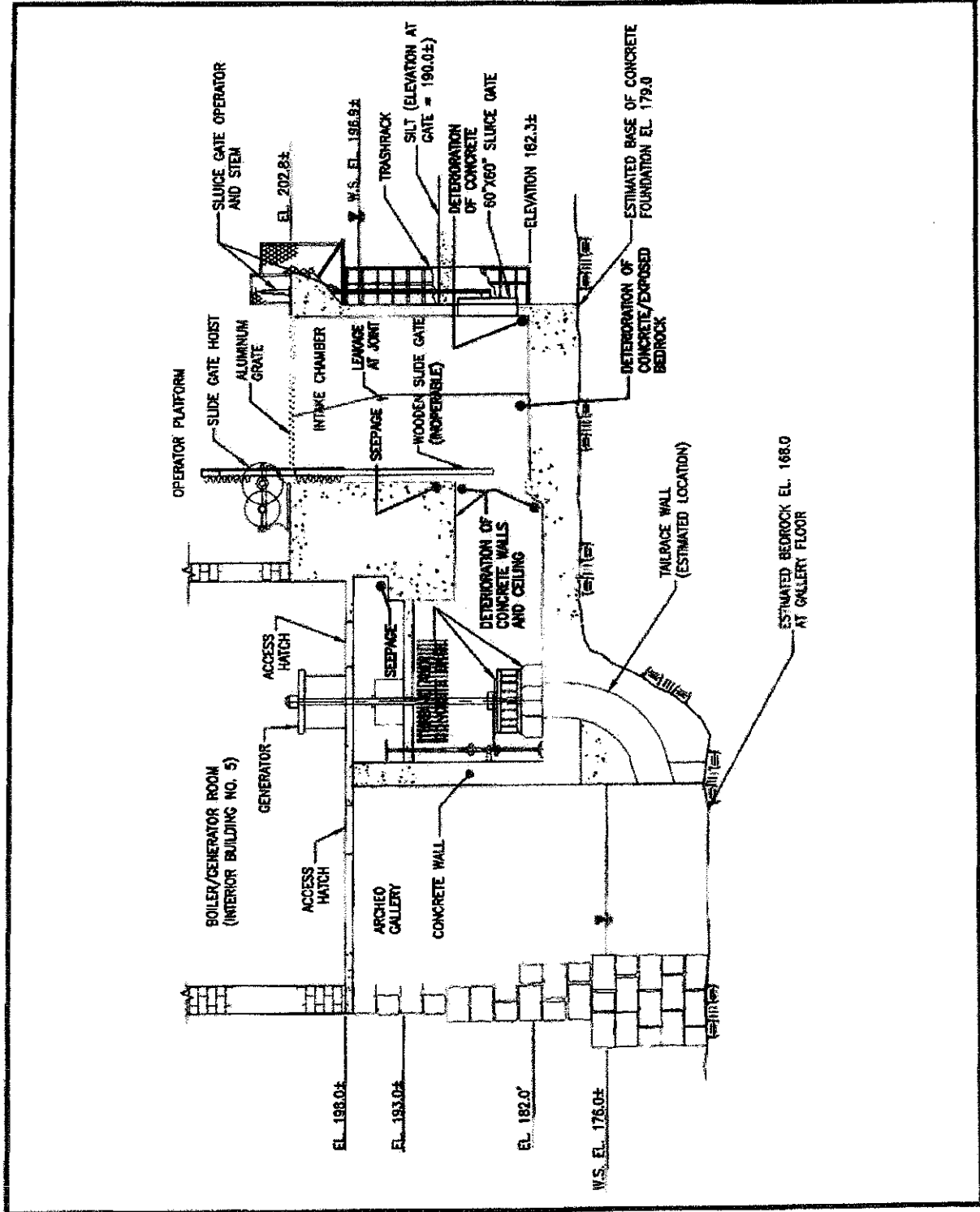


CHEVRON BUSINESS AND
REAL ESTATE SERVICES
BEACON TECHNOLOGY
CENTER DAM
GLENHAM, NY

ARCHED GALLERY
AND CHAMBERS
EXISTING CONDITIONS AND
INSPECTION NOTES



FILE NO. LMD-LLC 44681-P03.DWG
JULY 2009



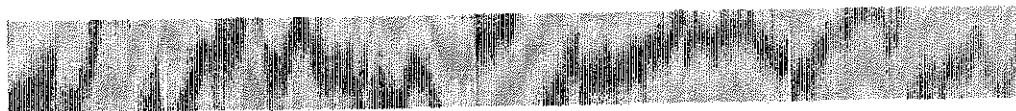
APPENDIX E

Chevron Business and Real Estate Services
Inspection and Maintenance Plan
Beacon Technology Center Dam

Appendix

E

Bibliography



**BIBLIOGRAPHY FOR THE
BEACON TECHNOLOGY CENTER DAM
GLENHAM, NY**

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New York State Department of Environmental Conservation, <i>Guidelines for the Design of Dams</i> , January 1989
Title 6 of the New York Code of Rules and Regulations (NYCRR) Part 673: Dam Safety Regulations,
Dam Specific Reports
Beacon Technology Cent Dam, Glenham, New York, Visual Inspection and Site Survey, phase 1 – letter Report, dated August 3, 2009 buy LMD, LLC.
Underwater Inspection, Subsurface Investigation and Preliminary Structural Evaluation Beacon Technology Center Dam. Phase III- LmD Summary Report, dated May 2010, by LmD, LLC and O'Brien & Gere.

APPENDIX D

INSPECTION FORM TEMPLATE

Inspection Form

Project Name:			
Permit Number:			
Date of Authorization:			
Name of Operator:			
Prime Contractor:			
Date of Inspection:			
1. <u>Maintaining Water Quality:</u>			
Yes	No	NA	
☐	☐	☐	Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐	☐	☐	Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐	☐	☐	All disturbance is within the limits of the approved plans.
☐	☐	☐	Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?
2. <u>Housekeeping:</u>			
a. General Site Conditions			
Yes	No	NA	
☐	☐	☐	Is construction site litter and debris appropriately managed?
☐	☐	☐	Are facilities and equipment necessary for implementation or erosion and sediment control in working order and/or properly maintained?
☐	☐	☐	Is construction impacting the adjacent property?
☐	☐	☐	Is dust adequately controlled?
b. Temporary Stream Crossing –			
3. <u>Runoff Control Practices:</u>			
a. Excavation Dewatering –			
b. Level Spreader –			
c. Interceptor Dikes and Swales –			
d. Stone Check Dam –			
e. Rock Outlet Protection –			

4. Soil Stabilization:**a. Topsoil and Spoil Stockpiles**

Yes	No	NA	
☐	☐	☐	Stockpiles are stabilized with vegetation and/or mulch.
☐	☐	☐	Sediment control is installed at the toe of the slope.

b. Revegetation

Yes	No	NA	
☐	☐	☐	Temporary seedings and mulch have been applied to idle area.
☐	☐	☐	4-inches minimum of topsoil has been applied under permanent seedings.

5. Sediment Control Practices:**a. Stabilized Construction Entrance**

Yes	No	NA	
☐	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☐	☐	☐	Installed per standards and specifications?
☐	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☐	☐	☐	Is adequate drainage provided to prevent ponding at entrance?
☐	☐	☐	Are rumble strips installed and per standards and specifications?
☐	☐	☐	Is a tire wash installed and is all wash water/sediment being contained adequately?
☐	☐	☐	Sediment accumulation is ____ % of design capacity.

b. Silt Fencing and Snake Bags

Yes	No	NA	
☐	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☐	☐	☐	Fabric buried 6 inches minimum.
☐	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.
☐	☐	☐	Are Snake bags being used?
☐	☐	☐	Snake bags filled with SWPPP specified material.
☐	☐	☐	Sediment accumulation is ____ % of design capacity.

c. Storm Drain Inlet Protection -

Yes	No	NA	
☐	☐	☐	Installed Ultra-Drainguards or equivalent storm drain insert in storm drain and held in place by vault inlet grate.
☐	☐	☐	Snake bags installed around perimeter of storm drain to form a continuous berm around inlet filter.
☐	☐	☐	Snake bags filled with SWPPP specified material.
☐	☐	☐	Drainage area is 1 acre or less.
☐	☐	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☐	Placed wire screen between No. 3 crushed stone and concrete blocks.
☐	☐	☐	Excavated area is 900 cubic feet.
☐	☐	☐	Excavated side slopes should be 2:1.

☐	☐	☐	2-inch x 4-inch frame is constructed and structurally sound.
☐	☐	☐	Posts 3-foot maximum spacing between posts.
☐	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at maximum 8-inch spacing.
☐	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.
☐	☐	☐	Sediment accumulation is ___ % of design capacity.
d. Temporary Sediment Trap –			
e. Temporary Sediment Basin –			
6. <u>General Construction Practices/Site Conditions:</u>			
Yes	No	NA	
☐	☐	☐	Identified areas that were disturbed or currently being disturbed.
☐	☐	☐	Are traffic routes, parking, equipment/supply storage restricted to designated areas?
☐	☐	☐	Are temporary soil stockpiles and construction materials located in designated areas?
☐	☐	☐	Is secondary containment provided for all contractor-supplied petroleum, chemicals, etc.?
☐	☐	☐	Is there evidence of spills/leaks of petroleum and chemical products? If so, are resulting cleanup procedures acceptable?
☐	☐	☐	Is there any evidence of offsite sediment discharge from the storm water run-offs?
☐	☐	☐	Describe the condition of Creek adjacent to the storm water outfalls.
☐	☐	☐	Is there evidence of off-site sedimentation?
☐	☐	☐	Is there evidence of erosion anywhere onsite?
☐	☐	☐	Is sediment being tracked outside of the construction area?
7. <u>Soil Stabilization Measures:</u>			
Yes	No	NA	
☐	☐	☐	Identified areas that will be temporarily or permanently stabilized.
☐	☐	☐	Are temporary stabilization measures necessary (i.e., will construction resume within 15 days)?
☐	☐	☐	Where installed, are temporary stabilization measures intact and functioning properly?
☐	☐	☐	Are site activities complete to allow installation of permanent stabilization measures?
☐	☐	☐	Are permanently stabilized areas growing and healthy? Is there a need for watering, fertilizer, or additional stabilization measures such as erosion control fabrics?