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Mr. Ed Hampston
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

Subject:
Final Site Management Plan
Golden Road Disposal Site
Site No. 8-28-021
Chili, New York
Administrative Settlement Agreement and Order on Consent
Index #B8-0449-03-07

Date:
June 14, 2011

Contact:
William T. McCune

Phone:
315.671.9172

Email:
william.mccune@arcadis-us.com

Our ref:
B0046479.0000

Dear Mr. Hampston:

On behalf of Chevron Environmental Management Company, ARCADIS is submitting this *Final Site Management Plan* (SMP) for the Golden Road Disposal Site located in Chili, New York (site) to be implemented by others as indicated in this SMP. This SMP reflects revisions to the Draft SMP previously submitted to the New York State Department of Environmental Conservation (NYSDEC) based on ARCADIS' communications with the NYSDEC during their review process. This SMP is subject to final NYSDEC approval.

Please contact David Kingsley at 585.385.0090, ext. 17 if you have any questions or concerns.

Sincerely,

ARCADIS

William T. McCune
Principal Geologist

Copies:
Mr. Richard T. Hughes, Chevron USA, Inc., Law Department
Ms. Caryl Weekley, P.G., Chevron Environmental Management Company
Mr. David Kingsley, ARCADIS
Mr. Joseph Molina III, P.E., ARCADIS

Golden Road Disposal Site

CHILI, NEW YORK

Final Site Management Plan

NYSDEC Site Number: 08-28-021

Prepared for:

Chevron Environmental Management Company
6111 Bollinger Canyon Road
San Ramon, California

Prepared by:

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Revisions to Final Approved Site Management Plan:

Revision #	Submitted Date	Summary of Revision	DEC Approval Date

JUNE 2011

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SITE MANAGEMENT PLAN

1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at the south parcel of the Golden Road Disposal Site (Site # 08-28-021) located at 189 Golden Road (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 Site was remediated in accordance with the Record of Decision (ROD), dated October 2002, and Order on Consent Index #B8-0449-03-07, which was executed on September 7, 2006, and amended on October 28, 2008, with the issuance of an Explanation of Significant Differences (ESD).

1.1.1 General

Chevron U.S.A, Inc. (CUSA) and Chevron Environmental Management Company (CEMC) entered into an Order on Consent with the NYSDEC to remediate the 7-acre property located at 189 Golden Road in Chili, Monroe County, New York. This Order on Consent required the Remedial Party, CEMC, for itself and on behalf of CUSA, to implement the ROD remedy at the Site. CEMC is not required to and will not be implementing this *Site Management Plan* (SMP). A figure showing the Site location is provided as Figure 1. Figure 2 provides a site map, the area subject to this SMP, and historical sampling locations.

After completion of the remedial work described in the ROD and ESD, some contamination remains at this Site, which is hereafter referred to as "remaining contamination." This SMP was prepared to manage remaining contamination at the Site

until the Deed Restriction is extinguished in accordance with ECL Article 71, Title 36. All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in NYS.

This SMP was prepared by ARCADIS, on behalf of CEMC, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the Post-Remedial Groundwater Monitoring and Institutional Controls (ICs) that are required by the ROD and Deed Restriction for the Site. Implementation of this SMP will be carried out by the Site owner, unless otherwise approved by the NYSDEC.

1.1.2 Purpose

The Site contains contamination left after completion of the remedial action. ICs have been incorporated into the Site remedy to control exposure to remaining groundwater contamination during the use of the Site to provide for the protection of public health and the environment. A Deed Restriction will be executed and recorded with the Monroe County Clerk, which will require compliance with this SMP and all ICs placed on the Site. The ICs place restrictions on Site use and mandate monitoring, and reporting measures for all controls (i.e., post-remedial monitoring and ICs). This SMP specifies the methods necessary to confirm compliance with all controls required by the Deed Restrictions for groundwater contamination that remains at the Site. Once this SMP has been approved by the NYSDEC, compliance with this SMP is required by the grantor of the Deed Restriction and the grantor's successors and assigns. This SMP may only be revised as authorized by the NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the Site after completion of the remedial action, including: (1) implementation and management of all ICs; (2) post-remedial groundwater monitoring; (3) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports; and (4) defining criteria for termination of post-remedial groundwater monitoring.

To address these requirements, this SMP includes: (1) IC implementation/maintenance details and (2) post-remedial groundwater monitoring.

This SMP also includes a description of Periodic Review Reports for the periodic preparation of data, information, recommendations, and certifications by the Site owner or, if administered by the NYSDEC, its selected representative.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Deed Restriction. Failure to properly implement this SMP is a violation of the Deed Restriction, which may be grounds for enforcement action by the NYSDEC.
- Failure to comply with this SMP is also a violation of Environmental Conservation Law; 6 New York Codes, Rules, and Regulations (NYCRR) Part 375; and the Order on Consent (Index #08-0449-03-07; Site #8-21-021) for the Site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this SMP must be approved by the NYSDEC. In accordance with the Deed Restriction for the Site, the NYSDEC will provide a notice of any approved changes to this 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

The Site is located in the Town of Chili, County of Monroe, New York and is identified as Section 132.20 Block 01 and Lot 003 on the Chili Tax Map. The Site is currently an undeveloped former disposal site with no existing structures. It is bounded by a railway system owned by CSX Corporation, Inc. to the north, NYS Route 490 to the south, a residential property to the east, and undeveloped land to the west (see Figure 2). The boundaries of the Site are more fully described in Appendix A – Metes and Bounds.

The Site (Site #8-21-021) is located in a rural residential area on the west side of Golden Road, north of Interstate Route 490, in the Town of Chili, Monroe County. The 19-acre Site is divided into two parcels, separated by railroad tracks running generally east to west across the Site.

The north parcel (12 acres) is generally flat with building structures. It is bounded by residences to the north and east, railroad tracks to the south, and a wooded area to the west. This parcel was remediated previously and removed from the site description after the ROD (NYSDEC, October 2002) found that no consequential amounts of hazardous waste were identified on the north parcel. Therefore, the north parcel is not included in this SMP.

The south parcel (7 acres), which is the parcel subject to this SMP, is an uneven fill area with mounds of fill (foundry sand) overgrown with vegetation (weeds, brush, and trees). It falls off steeply on the south, east, and west to a seasonal deciduous forested wetland area. Interstate Route 490 is located south of the south parcel beyond the wetland. Railroad tracks bound the south parcel to the north.

1.2.2 Site History

The Site was privately operated by Howard Fitzsimmons, Jr. from 1955 through 1976. During this time period, the Site received a wide variety of wastes, including household refuse, metal slag, fly ash, foundry sand, scrap metal, artillery shell casings, drums, used aboveground storage tanks, and junked vehicles. The Site was reported to the NYSDEC on August 7, 1980, and as a result, the NYSDEC and the Monroe County Department of Health investigated the Site as a result of complaints. The Site was placed on the NYSDEC Inactive Hazardous Waste Registry on August 12, 1980.

In 1985, the NYSDEC removed approximately 562 drums and containers and approximately 75 cubic yards (cy) of contaminated soil and debris from the site as part of an emergency drum removal action. A *Remedial Investigation Report* (RI Report) (July to September 1999) and a feasibility study (December 2001) were completed by URS Corporation on behalf of the NYSDEC. The RI Report identified soil, sediment, and groundwater impacted with volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and asbestos at the Site at concentrations exceeding the applicable cleanup criteria. A ROD (NYSDEC, 2002) was prepared for the Site by the NYSDEC, which presents the selected remedy for the Site. In October 2006, CEMC executed an Order on Consent with the NYSDEC to implement the ROD remedy for the Site. In 2008, the NYSDEC issued an ESD for the Site to modify the ROD remedy. A

Pre-Design Investigation Work Plan (PDI Work Plan) (ARCADIS, 2007) was prepared in 2007 and subsequently approved by the NYSDEC to allow for the collection of additional field data to complete the remedial design. In January and June 2008, ARCADIS implemented the PDI Work Plan at the Site to better delineate the extent of impacts designated for removal at the Site. The PDI also provided confirmatory sample data for the proposed excavation areas and waste characterization data for the materials that were disposed off Site during subsequent remedial activities.

In June 2010, a *Remedial Design/Remedial Action Work Plan* (RD/RA Work Plan) was prepared for the Site and presented the remedial actions to be implemented to comply with the ROD and ESD remedy, which was subsequently approved by the NYSDEC. Implementation of the RD/RA Work Plan removal actions began in September 2010 and was completed by October 2010, with wetland restoration activities conducted in 2011. The results of the PDI are presented and discussed in Section 3 of the RD/RA Work Plan. A Final Engineering Report (FER), documenting the implementation of the RD/RA Work Plan, will be submitted to the NYSDEC.

1.2.3 Geologic Conditions

The Site is located in a lowland area with poor drainage. Natural surface drainage has been impacted by the construction of Interstate 490 to the south and the railroad tracks to the north. A seasonally dry wetland and wooded area lies west and south of the Site adjacent to Interstate 490. Surface water generally drains to the south and west into the deciduous forested wetland areas.

Fill material composed primarily of dark foundry sand, ashes, and cinders associated with past disposal activities lie over much of the Site. Scrap metal, slag, wood, and plastic are mixed with the foundry sand. The fill thickness averages 6 to 8 feet deep, but in two locations it was measured at 12 to 14 feet.

Three native units of unconsolidated material were encountered during the subsurface investigation activities. The uppermost unit is fine sand with occasional gravel, ranging from 3 to 7 feet thick. Beneath the upper sand is a silty clay unit from 3 to 10 feet thick. The lowermost unit is silty sand, which contains bedrock fragments and

ranges from 2 to 4 feet thick. Bedrock, immediately below the lower sand unit, dips to the west and southwest and its top surface from 11 feet (east) to 25 feet (west) below ground surface.

During the initial RI activities in the summer of 1999, the upper sand unit was dry, while groundwater was present in the lower sand unit under confined conditions. During the Phase I investigation conducted in the spring of 2000, perched groundwater was present in the upper sand unit. When wet, the upper sand drains laterally to the wetland. Groundwater in the lower sand unit flows to the east. The silty clay unit between the upper and lower sand units acts as an aquitard, greatly retarding groundwater flow from the upper sand down into the lower sand. Geologic cross-sections and groundwater flow data are available in the RI Report.

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

An RI was performed to characterize the nature and extent of contamination at the Site. The results of the RI are described in detail in the following reports:

- RI Report (URS Greiner Woodward Clyde, 2000)
- *Phase II Remedial Investigation Summary Report* (URS Greiner Woodward Clyde, 2000)

The PDI was performed at the Site to obtain data for the RD, and the results were included in the RD/RA Work Plan.

Generally, the RI compared analytical data to environmental standards, criteria, and guidance values (SCGs) to determine which media (e.g., soil, groundwater) were contaminated. Groundwater, drinking water, and surface-water SCGs identified for the Site are based on NYSDEC Ambient Water Quality Standards and Guidance Values and Part 5 of New York State Sanitary Code. For soil, NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 provides cleanup guidelines based on the protection of groundwater, background conditions, and health-based exposure scenarios. In addition, for soils, site-specific background concentration levels were considered for certain classes of contaminants. Guidance values for evaluating

contamination in sediments were provided by the 1999 NYSDEC "Technical Guidance for Screening Contaminated Sediments."

Many soil, groundwater, surface-water, and sediment samples were collected at the Site to characterize the nature and extent of contamination. The main categories of contaminants that exceed their SCGs are VOCs, SVOCs, metals, and asbestos.

Soil

The investigations identified, in surface and subsurface soil, VOCs of concern that included acetone, methylene chloride, benzene, toluene, ethylbenzene, xylenes, tetrachloroethene, and trichloroethene; and SVOCs that included benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, methylphenol, and pentachlorophenol. The metals of concern include aluminum, antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, manganese, mercury, selenium, nickel, and zinc. Polychlorinated biphenyls, previously identified on the south parcel, were addressed by the 1985 drum and soil removal action.

Sediment

The investigations identified SVOCs [benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene] and metals (antimony, arsenic, barium, beryllium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, and zinc) exceeding SCGs.

Groundwater and Surface Water

The RI identified only a select number of metals (aluminum, cobalt, iron, magnesium, selenium, silver, sodium, and thallium) exceeding SCGs in groundwater and/or surface water at the Site. The Phase II RI field investigation identified volatiles (methylene chloride, acetone, 1,1-dichloroethane, methyl ethyl ketone, benzene, toluene, ethylbenzene, and xylenes) and semivolatiles (2-methylphenol, 2.4-dimethylphenol, 3&4-methylphenol, and naphthalene), as well as metals (aluminum, cobalt, copper, iron,

magnesium, manganese, mercury, nickel, selenium, silver, and thallium) exceeding SCGs.

Waste

Waste was also identified during the RI and PDI activities. One surficial drum containing liquid waste was identified at the Site. Analysis of the material in the drum indicated that it was not a hazardous waste. No buried drums were identified. During excavation of a test pit on the eastern bank, hundreds of aerosol cans were encountered. Analysis of the contents from one can detected high levels of several VOCs, including toluene at 220,000 parts per million (ppm) and methylene chloride at 170,000 ppm. A container of waste was unearthed during the PDI and was tested and placed into a sealed container for off-Site disposal. Three samples of material suspected of containing asbestos were collected from the Site. Two of these showed asbestos present above the regulatory standard of 1%.

Off-Site Sampling

Groundwater: Residential well surveys mailed to residents near the Site indicated the existence of only two private groundwater wells, including an abandoned residence on the north parcel of the Site and a home on Golden Road located approximately 1,000 feet north of the Site. Both were sampled and only iron, magnesium, and sodium were detected at levels above SCGs.

Surface Water: At the request of a nearby resident on Golden Road, a private pond east of the Site was sampled. One VOC, methylene chloride, was detected at 9.4 parts per billion (ppb), which is above the surface-water standard of 5 ppb for potable water. No SVOCs were detected. Aluminum and iron were the only metals whose concentrations exceeded SCGs.

Site-Related Soil Vapor Intrusion

No soil vapor intrusion (SVI) investigations have been completed for the Site. This SMP requires, in accordance with the ESD, that SVI be evaluated if development of the property is proposed in the future.

Underground Storage Tanks

The investigations did not identify any underground storage tanks at the Site.

Additional details regarding the sampling and analysis activities and contaminant distribution at the Site can be found in the RI Report, the Summary of Phase II RI Field Investigation, the PDI Work Plan, and the RD/RA Work Plan.

1.4 SUMMARY OF REMEDIAL ACTIONS

In 1985, the NYSDEC conducted a drum and limited soil removal program at the Site. Between 2010 and 2011, CEMC implemented the RD/RA Work Plan to fulfill the requirements of the ROD and ESD.

The following is a summary of RD/RAs performed at the site:

1. Removal action consisting of the off-Site disposal of 562 drums of waste and 75 cy of contaminated soil.
2. Removal and off-Site disposal of asbestos-impacted soil.
3. Removal and off-Site disposal of the partially buried 55-gallon drum and surrounding soil located south-southwest of the pond.
4. Removal and off-Site disposal of waste and soil contaminated with VOCs exceeding NYSDEC TAGM 4046 recommended soil cleanup objectives from the East Bank Area.
5. Removal and off-Site disposal of soil contaminated with pentachlorophenol exceeding NYSDEC TAGM 4046 recommended soil cleanup objectives from the SS-2 Area.
6. Removal and off-Site disposal of soil/sediment from the Intermittent Pond within the wetland limits to a depth of 6 inches below existing grade with post-removal restoration of the wetland area that included placement of a minimum of 6 inches of clean imported backfill.
7. Place and compact clean fill material within low spots at the Site.

8. Following the removal actions noted above, excavations and disturbed areas were backfilled and revegetated.

As of June 2011, the following additional actions are to be implemented for the Site:

1. Completion of the FER (to be completed by CEMC).
2. Execution and recording of a Deed Restriction to restrict land and groundwater use to prevent future exposure to any contamination remaining at the Site until cleanup criteria are achieved.
3. Implementation of a groundwater monitoring program.
4. Evaluation of SVI, if the Site is proposed for development in the future.
5. Implementation of this SMP for long-term management of remaining contamination as required by the Deed Restriction, which includes: (1) ICs, (2) monitoring, and (3) reporting.

1.4.1 Removal of Contaminated Materials from the Site

The following subsections summarize the contaminated materials that have been removed from the Site.

NYSDEC Removal Actions

In 1985, the NYSDEC conducted a drum (562 containers) and soil (75 cy) removal action at the site.

CEMC Removal Actions

In the fall of 2011, CEMC implemented the RD/RA Work Plan, which includes the following removal actions:

- *East Bank Area:* Buried waste and VOC-impacted soil (3,133 tons) was excavated from the East Bank Area and disposed off Site.
- *SS-2 Area:* Pentachlorophenol-impacted soil (21 tons) was excavated from the SS-2 Area and disposed off Site.

- *Intermittent Pond Area:* Impacted sediment (253 tons) was excavated from the Intermittent Pond to a depth of 6 inches below existing grade and transported off Site for disposal.
- *Waste:* One drum of waste and three drums of aerosol cans generated from the East Bank Area and the partially filled drum and surrounding soil (16.5 tons), identified in the ROD, were disposed off Site. Asbestos-impacted soil from the western side of the Site was excavated and disposed off Site.

  Figure 3 shows the extents of soil excavation completed.

1.4.2 Remaining Contamination

As indicated by the confirmatory analytical results and observations made during implementation of the RD/RA Work Plan, the removal actions completed in 2011 were successful in the removal of soil/sediment impacted with VOCs (East Bank Area), SVOCs and metals (Intermittent Pond surface sediment), and pentachlorophenol (SS-2 Area) exceeding cleanup objectives and waste (asbestos area, East Bank Area, and drums).

Based on the removal actions that have been completed to date and the findings of the investigations discussed in Section 1.3, the following contamination exceeding SCGs is indicated to remain at the Site:

- Subsurface soil impacted with SVOCs and metals west and south of the East Bank Area.
- Sediment impacted with metals and SVOCs within the adjacent wetland and the Intermittent Pond (below the minimum 6 inches of imported backfill placed during implementation of the RD/RA Work Plan).
- Groundwater impacted with VOCs and SVOCs (at one location within the East Bank Area based on data obtained 11 years prior to the 2011 removal action) and metals (primarily iron, magnesium, manganese, and sodium, with lesser exceedances of lead, mercury, and thallium).

With the exception of the sediment analytical data obtained from the Intermittent Pond during the recent PDI, the data used to assess the remaining contamination was obtained from previous investigations conducted in 1999 and 2000. The ROD and ESDs identified the remedial actions necessary to adequately address the remaining contamination.

2.0 POST-REMEDIAL GROUNDWATER MONITORING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Post-remedial groundwater monitoring and ICs are required to protect human health and the environment due to some contamination remaining at the Site. This Post-Remedial Groundwater Monitoring and Institutional Control Plan describe the procedures for the implementation and management of all controls at the Site. This Plan is one component of this SMP and is subject to revision by the NYSDEC.

2.1.2 Purpose

This Plan provides:

- A description of all Post-Remedial Groundwater Monitoring and ICs on the Site.
- The basic implementation and intended role of the Post-Remedial Groundwater Monitoring and IC.
- A description of the key components of the ICs set forth in the Deed Restriction.
- A description of the features to be evaluated during each required inspection and periodic review.
- A description of plans and procedures to be followed for implementation of Post-Remedial Groundwater Monitoring and ICs.
- Any other provisions necessary to identify or establish methods for implementing the groundwater monitoring and ICs required by the Site remedy, as determined by the NYSDEC.

2.2 POST-REMEDIAL GROUNDWATER MONITORING

2.2.1 Post-Remedial Groundwater Monitoring

Post-remedial groundwater monitoring, required by the ROD, will be implemented at the Site by the Site owner or as implemented by the NYSDEC under the State Superfund Program (SSF Program). Monitoring will involve periodic sampling and analysis of groundwater at select monitoring well locations to evaluate the effectiveness of the ROD remedy for the Site with respect to groundwater quality. The monitoring well network used for monitoring the groundwater is required to be maintained, such that the effectiveness of the monitoring will not be diminished. The details for monitoring groundwater are presented in Section 3. Figure 4 shows the location of the existing monitoring wells.

2.2.2 Termination of Post-Remedial Groundwater Monitoring

Generally, monitoring will be considered complete when the cleanup objectives have been achieved as discussed in this section.

Post-remedial groundwater monitoring activities will continue, until residual groundwater concentrations are found to be consistently below applicable standards, criteria, and guidance or have become asymptotic at an acceptable level over an extended period, or as otherwise approved by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional control measures will be evaluated by the NYSDEC.

2.3 INSTITUTIONAL CONTROLS

ICs under this SMP for the Site include placing a Deed Restriction on the Site that includes:

1. Limiting the use of groundwater at the Site as a potable or process water without necessary water quality treatment.
2. Requiring an evaluation of the potential for SVI if development of the property is proposed in the future.

3. Requiring a certification by the property owner to verify the above restrictions are being maintained. The property owner will submit to the 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 this SMP. The NYSDEC retains the right to access such controlled property at any time in order to evaluate the continued maintenance of any and all controls and conduct activities, or to conduct other activities, as necessary, to ensure the SMP is being implemented properly. This certification will be submitted annually, or an alternate period of time that the NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable

Compliance with the Deed Restriction and this SMP by the Grantor and the Grantor's successors and assigns is required. ICs identified in the Deed Restriction may not be discontinued without an amendment to or extinguishment of the Deed Restriction.

2.3.1 Soil Vapor Intrusion Evaluation

Prior to the construction of any enclosed structures at the Site, an SVI evaluation will be performed by the Site owner or by a representative of the NYSDEC 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.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and the New York State Department of Health (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 the NYSDEC and NYSDOH for initial review and interpretation, if the data is collected by an entity other than a representative of the NYSDEC or NYSDOH. Upon validation, the final data will be transmitted to the agencies, if necessary, including a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to the property owner within 30 days of validation, if the SVI evaluation is conducted by an entity other than the property owner.

In the event that future soil vapor sampling, should it be necessary, indicates that an Engineering Control System is warranted, this SMP will be revised accordingly by the Site owner or a NYSDEC representative as required and approved by the NYSDEC. 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 Site will be conducted by the Site owner or by a representative of the NYSDEC if the SMP is implemented by the NYSDEC under the SSF Program at the frequency specified in the SMP schedule. A comprehensive Site-wide inspection will be conducted 1 year following execution of the Deed Restriction and then thereafter as required by the NYSDEC. The inspections will determine and document the following:

- If these controls continue to be protective of human health and the environment.
- Compliance with requirements of this SMP and the Deed Restriction.
- Sampling and analysis of appropriate media during monitoring events, as necessary.
- If Site records are complete and up to date.
- Changes, or needed changes, to the monitoring system.

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this SMP (Section 4).

2.4.2 Notifications

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

- Sixty-day advance notice of any proposed changes in Site use that are required under the terms of the 6 NYCRR Part 375, and/or Environmental Conservation Law.

Any change in the ownership of the Site will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided a copy of the Deed Restriction 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.

2.5 CONTINGENCY PLAN

This Contingency Plan has been designed to address courses of action to be taken when responding to emergencies or other unexpected conditions that may be encountered while implementing the SMP at the site. Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

2.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance, the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to the NYSDEC Region 8 office at (585) 226-2466. These emergency contact lists must be maintained in an easily accessible location at the Site, when Site activities are being conducted.

Table 2-1: Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3-day notice required for utility markout)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

Table 2-2: Other Contact Numbers

NYSDEC Region 8	(585) 226-2466

* Note: Contact numbers subject to change and should be updated as necessary.

2.5.2 Map and Directions to Nearest Health Facility

Site Location: 189 Golden Road, Rochester, New York 14624

Nearest Hospital Name: Strong Memorial Hospital

Hospital Location: 601 Elmwood Avenue, Rochester, New York 14642

Hospital Telephone: 585.275.2100

Directions to the Hospital:

1. Start out going North on Golden Road [0.3 miles].
2. Turn Right onto Westside Drive (CR-119) [2.8 miles].
3. Turn Left onto Chili Avenue (RT-33A) [0.9 miles].
4. Turn Right onto Brooks Avenue (RT-204) [1.2 miles].
5. Merge onto I-390 S [0.9 miles].
6. Take the Scottsville Road/RT-383 exit, Exit 17 [0.2 miles].
7. Turn Left onto Scottsville Road/RT-383 [0.6 miles].

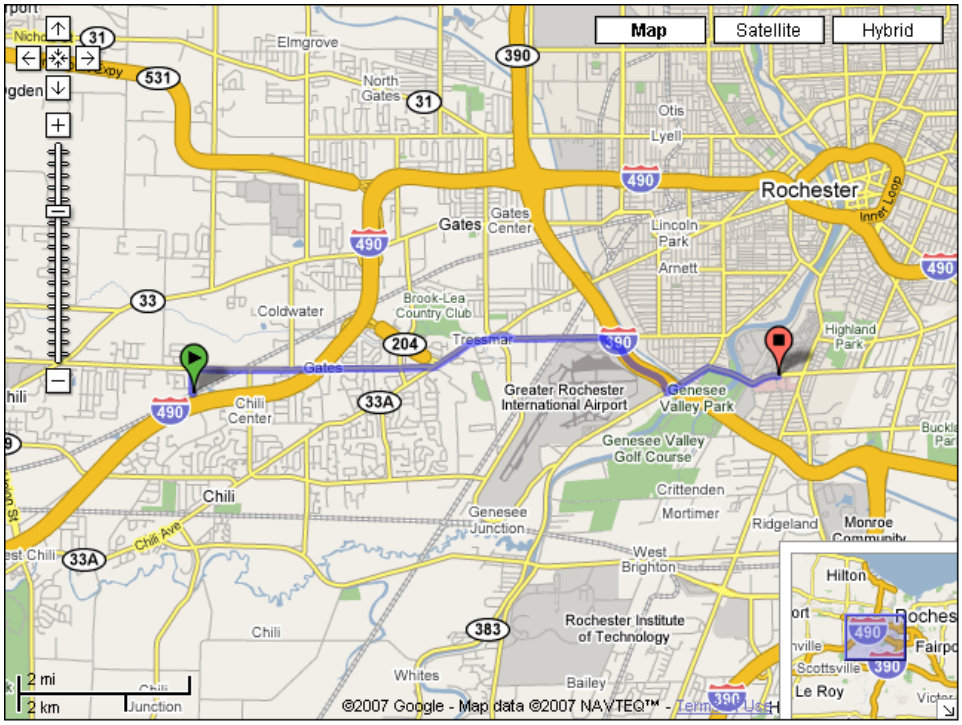
8. Turn Slight Right onto Elmwood Avenue [0.9 miles].

9. 601 Elmwood Avenue is on the Right.

Total Distance: 7.8 miles

Total Estimated Time: 17 minutes

Map Showing Route from the Site to the Hospital:



2.5.3 Response Procedures

As appropriate, the fire department and other emergency response groups will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Contingency Plan (Table 2-1). Additional response procedures and emergency-related contingencies can be found in the contractor's Health and Safety Plan that will be prepared before Site work is initiated.

3.0 MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

This Monitoring Plan will be implemented by the Site owner or by a representative of the NYSDEC, if the Monitoring Plan is implemented by the NYSDEC, and describes the measures for evaluating the performance and effectiveness of the post-remedial monitoring to monitor groundwater contamination at the Site. This Monitoring Plan may only be revised by the NYSDEC or the NYSDEC's designated consultant.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of groundwater.
- Assessing compliance with applicable NYSDEC SCG for groundwater.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency.
- Information on all designed monitoring systems (e.g., well logs).
- Analytical sampling program requirements.
- Reporting requirements.
- Quality assurance/quality control (QA/QC) requirements.
- Inspection and maintenance requirements for monitoring wells.
- Monitoring well decommissioning procedures.
- Periodic inspection and certification. The frequency of events will be annually initially, and then as approved by the NYSDEC in the periodic review report.

Periodic monitoring of the performance of the remedy and overall reduction in contamination on Site will be conducted by the Site owner or by a representative of the NYSDEC if the Monitoring Plan is implemented by the NYSDEC. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 3-1 and outlined in detail in Section 3.2 below.

Table 3-1: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Post-Remedial Monitoring	Periodic	Groundwater	TCL VOCs, TCL SVOCs, Target Analyte List metals

* The frequency of events will be annually initially, and then as approved by the NYSDEC in the periodic review report.

TCL = Target Compound List

3.2 MEDIA MONITORING PROGRAM

Groundwater monitoring will be periodically performed by the Site owner or by a representative of the NYSDEC if the Monitoring Plan is implemented by the NYSDEC to assess the performance of the remedy.

3.2.1 Sampling Protocol

All monitoring well sampling activities will be recorded in a field book and a groundwater sampling log presented in Appendix B. Other observations (e.g., well integrity) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring well network.

3.2.2 Monitoring Well Repairs, Replacement, and Decommissioning

If biofouling or silt accumulation occurs in the on-Site and/or off-Site monitoring wells, the wells will be physically agitated/surged and redeveloped, if determined necessary by the NYSDEC. Additionally, monitoring wells will be properly

decommissioned and replaced (as per the Monitoring Plan) if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

Any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement may be completed as approved by the NYSDEC. Well abandonment will be performed in accordance with the NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, if required by the NYSDEC.

3.3 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) to be prepared for the Site by the Site owner or by a representative of the NYSDEC if the Monitoring Plan is implemented by the NYSDEC. Main components of the QAPP will include:

- QA/QC Objectives for Data Measurement.
- Sampling Program:
    - Sample containers will be properly washed, decontaminated, and an appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
    - Sample holding times will be in accordance with the NYSDEC ASP requirements.
    - Field QC samples (e.g., trip blanks, coded field duplicates, matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody.
- Calibration Procedures:

- All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
- The laboratory will follow all calibration procedures and schedules as specified in United States Environmental Protection Agency SW-846 and subsequent updates that apply to the instruments used for the analytical methods.

- Analytical procedures.
- Preparation of a Data Usability Summary Report (when required by the NYSDEC), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.
- Internal QC and checks.
- QA performance and system audits.
- Preventative maintenance procedures and schedules.
- Corrective action measures.

3.4 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file by the entity collecting the information and generating the forms. All forms and other relevant reporting formats used during the monitoring/inspection events will be: (1) subject to approval by the NYSDEC and (2) submitted at the time of the Periodic Review Report, as specified in the Reporting Plan of this SMP.

All monitoring results will be prepared by the Site owner or by a representative of the NYSDEC if the Monitoring Plan is implemented by the NYSDEC on a periodic basis in the Periodic Review Report. The report will include, at a minimum:

- Date of event.
- Personnel conducting sampling.

- Description of the activities performed.
- Type of samples collected.
- Copies of all field forms completed (e.g., well sampling logs, chain of custody documentation).
- Sampling results in comparison to appropriate standards/criteria.
- A figure illustrating sample type and sampling locations.
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format).
- Any observations, conclusions, or recommendations.
- A determination as to whether groundwater conditions have changed since the last reporting event.

Data will be reported in digital format as determined by the NYSDEC. A summary of the monitoring program deliverables are summarized in Table 3-2 below.

Table 3-2: Schedule of Monitoring Reports

Task	Reporting Frequency*
Groundwater Monitoring	Annually

* The frequency of events will be annually initially, and then as approved by the NYSDEC in the periodic review report.

4. INSPECTIONS, REPORTING, AND CERTIFICATIONS

4.1 SITE INSPECTIONS

4.1.1 Inspection Frequency

Inspections of the monitoring program will be conducted periodically by the Site owner or by a representative of the NYSDEC if the SMP is implemented by the NYSDEC during the implementation of the monitoring program.

4.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspection and monitoring events will be recorded on the appropriate forms, which are contained in Appendices B and C. The forms are subject to NYSDEC revision.

All applicable inspection 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.

4.1.3 Evaluation of Records and Reporting

The results of the inspection and Site monitoring data will be evaluated as part of the IC certification to confirm that the:

- ICs are in place, are performing properly, and remain effective.
- The Monitoring Plan is being implemented.
- The Site remedy continues to be protective of public health and the environment.

4.2 CERTIFICATION OF INSTITUTIONAL CONTROLS

After the last monitoring event of the reporting period but at least annually, the Site owner or a representative of the NYSDEC if the Monitoring Plan is implemented by the NYSDEC will prepare the following certification.

For each 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 ICs required by the remedial program was performed under my direction.
- The IC employed at the 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 SMP 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.
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document.
- Use of the Site is compliant with the Deed Restriction.
- 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.
- The information presented in this report is accurate and complete.
- This statement must be included in the certification: 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] and I have been authorized and designated by all Site owners to sign this certification for the Site.

The above certification will be signed and included in the Periodic Review Report described below.

4.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be prepared by the Site owner or by a representative of the NYSDEC as required by the NYSDEC within 60 days following the first annual inspection and monitoring round following the COC or equivalent document (e.g., Satisfactory Completion Letter, No Further Action Letter) being issued. The report will be prepared in accordance with NYSDEC DER-10. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment, and certification of ICs required by the remedy for the Site.
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format.
- Data summary tables and graphical representations of contaminants of concern groundwater, which include a listing of all compounds analyzed, including the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in an NYSDEC-approved format.
- A Site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the site-specific ROD and ESD.
    - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for groundwater.
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan.
    - The overall performance and effectiveness of the remedy.

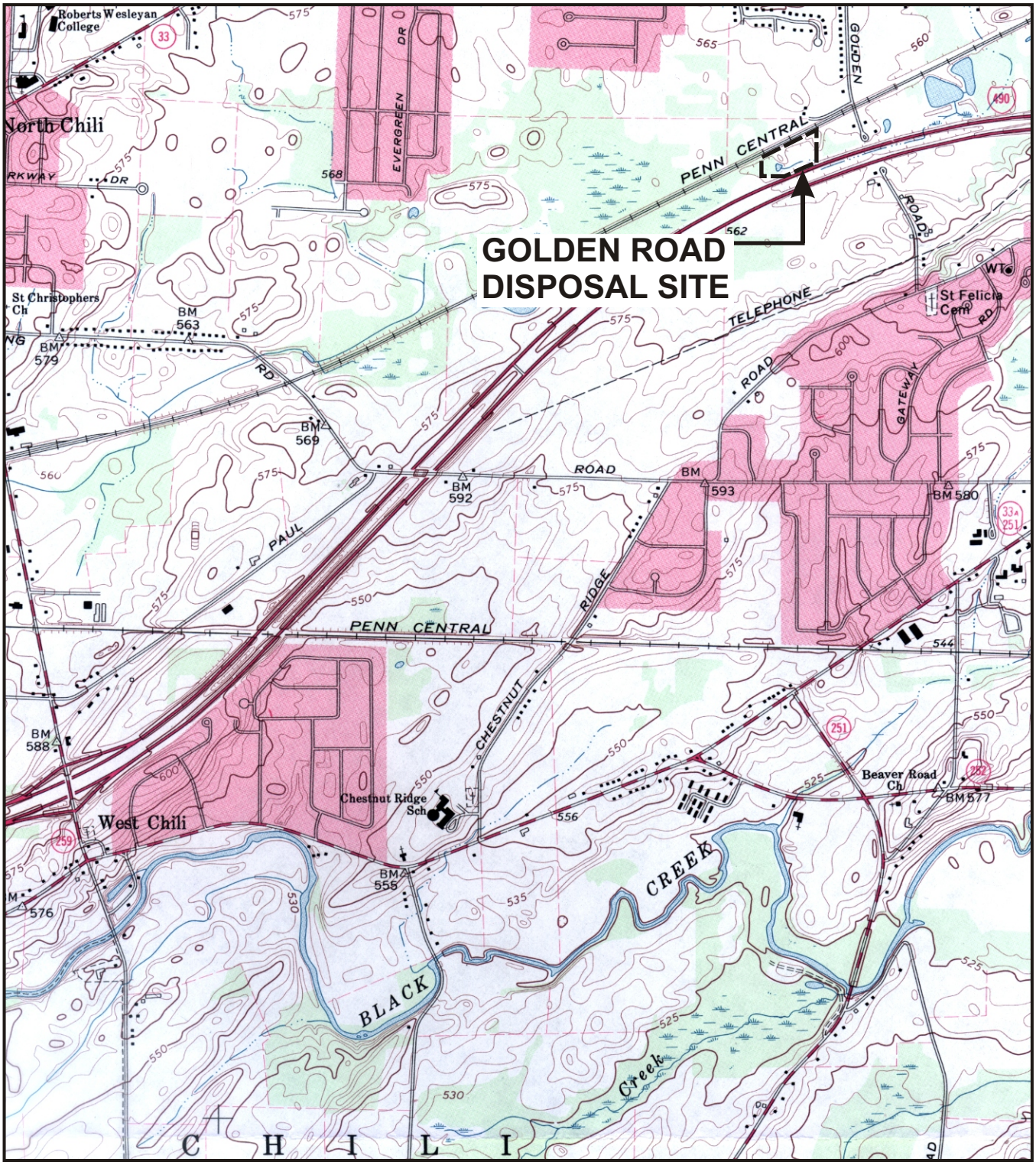
The Periodic Review Report will be prepared by the Site owner or by a representative of the NYSDEC and submitted in electronic format to the NYSDEC

Central Office, Regional Office, and the NYSDOH Bureau of Environmental Exposure Investigation.

4.4 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 control, a Corrective Measures Plan will be prepared by the Site owner or by the NYSDEC under the State SSF Program for implementation at the Site. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure.

Figures

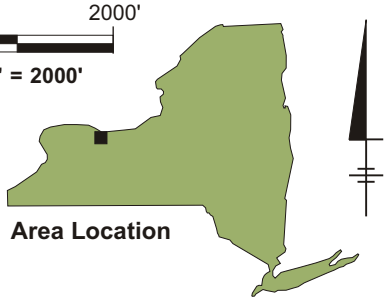


REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., CLIFTON, NY, 1971, PHOTOREVISED 1976.

DRAFT

2000' 0 2000'

Approximate Scale: 1" = 2000'



GOLDEN ROAD DISPOSAL SITE - CHILI, NY

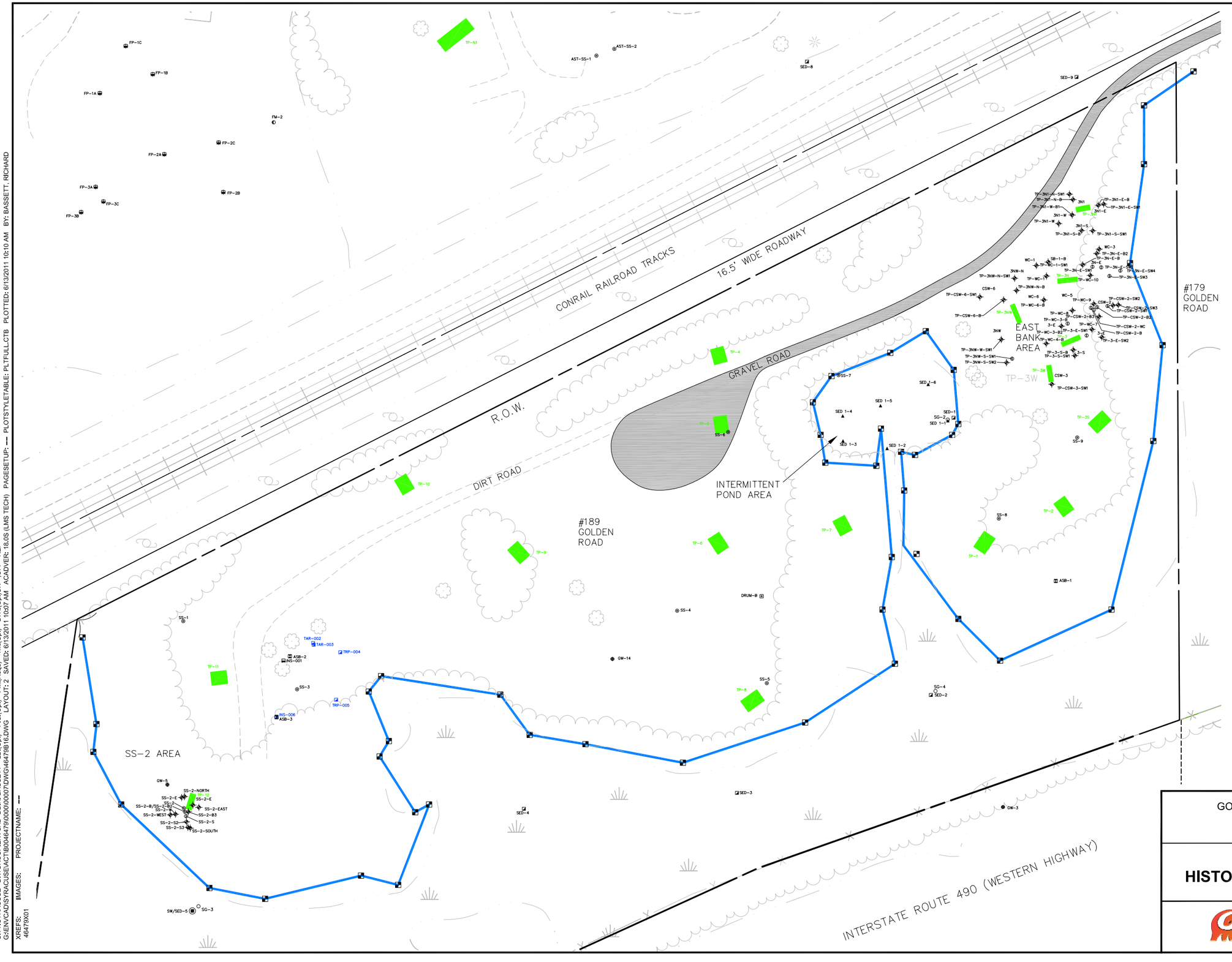
SITE MANAGEMENT PLAN

SITE LOCATION MAP

ARCADIS

FIGURE
1

11/10/10 SYR-141ENV-DJH
B0046479/0000/00007/CDR/45852N01.CDR



GOLDEN ROAD DISPOSAL SITE - CHILI, NY

SITE MANAGEMENT PLAN

SITE MAP AND HISTORICAL SAMPLING LOCATIONS

ARCADIS

FIGURE 2

NORTH PARCEL

CONRAIL RAILROAD TRACKS

16.5' WIDE ROADWAY

ACCESS ROAD

INTERMITTENT POND AREA

#189 GOLDEN ROAD

FORMER ACM AREA

FORMER PARTIALLY BURIED DRUM

EAST BANK AREA

SS-2 AREA

GW-2

GW-3

GW-4

GW-10

GW-14

SG-3

SG-4

INTERSTATE ROUTE 490 (WESTERN HIGHWAY)

LEGEND:

- SITE BOUNDARY
- EXISTING ACCESS ROAD
- WIRE FENCE
- WETLAND BOUNDARY
- WETLAND
- GW-3 GROUNDWATER MONITORING WELL LOCATION
- LIMIT OF EXCAVATION (OCTOBER 2010)
- LIMIT OF ACM REMOVAL (AUGUST 2010)
- LIMITS OF REMOVAL
- VEGETATION

NOTE:

1. LOCATION OF GROUNDWATER MONITORING WELL GW-10 IS APPROXIMATE.

0 80' 160'

GRAPHIC SCALE

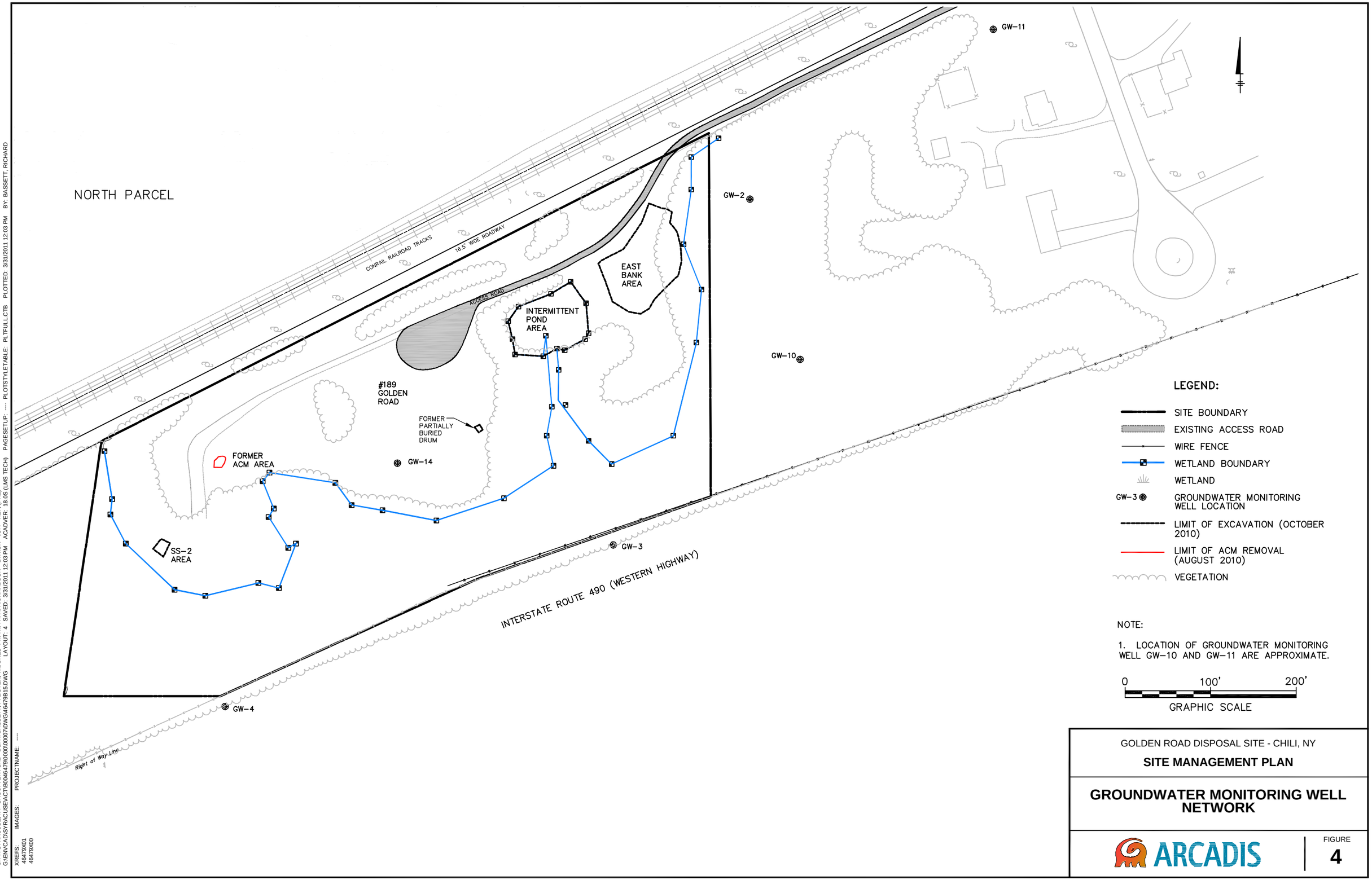
GOLDEN ROAD DISPOSAL SITE - CHILI, NY

SITE MANAGEMENT PLAN

EXTENT OF REMEDIAL EXCAVATION PERFORMED

ARCADIS

FIGURE 3



GOLDEN ROAD DISPOSAL SITE - CHILI, NY

SITE MANAGEMENT PLAN

GROUNDWATER MONITORING WELL NETWORK

ARCADIS

FIGURE **4**

Appendix A

Metes and Bounds

P.N. 20070694.0003
JANUARY 27, 2011
E.J.F.

DESCRIPTION

RE: LANDS OF NOW OR FORMERLY OF FITZSIMMONS
WEST SIDE OF GOLDEN ROAD, SOUTH OF CONRAIL

ALL THAT TRACT OR PARCEL OF LAND, SITUATED IN TOWN LOT 74 OF THE JOHN SMITH ALLOTMENT, EAST PULTNEY TRACT, TWONSHIP 2, RANGE 1, TOWN OF CHILI, COUNTY OF MONROE, STATE OF NEW YORK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING IN THE SOUTH LINE OF THE LANE OR ROADWAY SOUTH OF THE NEW YORK CENTRAL RAILROAD, NOW CONRAIL, WHICH IS ALSO THE NORTHEASTERLY CORNER OF THE LAND CONVEYED TO LORETTA LEHARD BY ANNA FITZSIMMONS BY DEED RECORDED IN THE MONROE COUNTY CLERK'S OFFICE IN LIBER 1514 OF DEEDS, PAGE 236; THENCE,

1. SOUTH 08°24'46" WEST, ALONG SAID EASTERLY PROPERTY LINE, A DISTANCE OF 301.57 FEET TO A POINT; THENCE,
2. EAST 89°58'41"EAST, A DISTANCE OF 183.05 FEET TO A POINT ON THE NORTHERLY LINE OF INTERSTATE ROUTE 490; THENCE,
3. NORTH 65°29'07" EAST, ALONG SAID LINE OF INTERSTATE ROUTE 490, A DISTANCE OF 330.99 FEET TO A POINT; THENCE,
4. NORTH 70°37'59" EAST, ALONG SAID LINE OF INTERSTATE ROUTE 490, A DISTANCE OF 288.60 FEET TO A POINT; THENCE,
5. NORTH 00°17'59" WEST, A DISTANCE OF 425.38 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID LANE OR ROADWAY; THENCE,
6. SOUTH 63°06'24" WEST, ALONG SAID LANE OR ROADWAY, A DISTANCE OF 796.23 FEET TO THE POINT OF BEGINNING, ENCOMPASSING 6.340 ACRES OF LAND, MORE OR LESS.

ALL AS SHOWN ON A BOUNDARY MAP PREPARED BY PASSERO ASSOCIATES ENTITLED "LANDS OF NOW OR FORMERLY OF FITZSIMMONS, WEST SIDE OF GOLDEN ROAD", DRAWING NUMBER BS-1, PROJECT NO. 2007694.01, AND LAST DATED 01/27/11.

REFERENCE:

1.) MAP PREPARED BY JOSEPH L. YANKANICH, P.L.S. ENTITLED "FINAL PLAN OF GOLDEN ESTATES", FILED IN THE MONROE COUNTY CLERKS OFFICE AT LIBER 229 OF MAPS, PAGE 44.

2.) MAP PREPARED BY DENLUCK-HYDE ENGINEERING & SURVEYING, ENTITLED,"GOLDEN ROAD SUBDIVISION", FILED IN THE MONROE COUNTY CLERKS OFFICE AT LIBER 231 OF MAPS, PAGE 23.

3.) MAP PREPARED BY THOMAS FRAZER, CONSULTING ENGINEERS, ENTITLED,"MITCHELL ACRES, SECTION 2", FILED IN THE MONROE COUNTY CLERKS OFFICE AT LIBER 203 OF MAPS, PAGE 69.

4.) MAP PREPARED BY PASSERO SCARDETTA ASSOCIATES, ENTITLED "MITCHELL ACRES, SECTION 3", FILED IN THE MONROE COUNTY CLERKS OFFICE AT LIBER 217 OF MAPS, PAGE 27.

5.) RIGHT OF WAY AND TRACK MAP, NEW YORK CENTRAL RAILROAD, OPERATED BY THE NEW YORK CENTRAL RAILROAD COMPANY MAIN LINE - SYRACUSE DIVISION, COLDWATER - CHILI, STATION 2001+166.85 TO STATION 2006+450.21, DATED JUNE 10, 1917.

6.) NEW YORK STATE DEPARTMENT OF TRANSPORTATION PROPERTY ACQUISITION MAPS FOR THE ROCHESTER WESTERN EXPRESSWAY, F.A.I. 580-2-2.2,2.3,2.4:

MAP 148D PARCEL 205
MAP 331 PARCEL 347
MAP 331 PARCEL 349
MAP 323 PARCEL 334
MAP 326 PARCEL 339
MAP 326 PARCEL 340
MAP 328 PARCEL 343
MAP 325 PARCEL 338
MAP 324 PARCEL 336
MAP 330 PARCEL 346
MAP 323 PARCEL 333

7.) LIBER 3388 OF DEEDS, PAGE 500.

8.) LIBER 8171 OF DEEDS, PAGE 99.

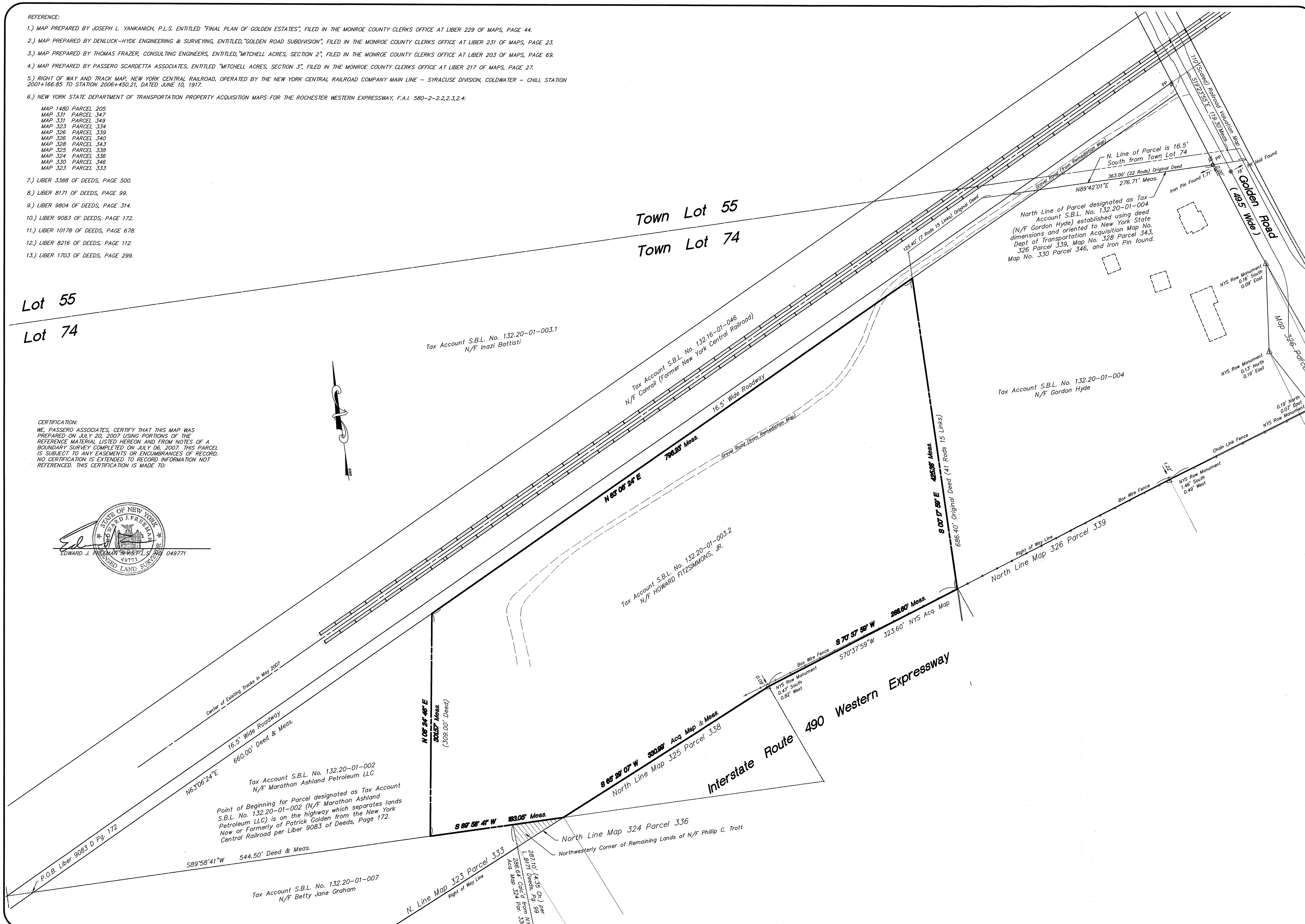
9.) LIBER 9804 OF DEEDS, PAGE 314.

10.) LIBER 9083 OF DEEDS, PAGE 172.

11.) LIBER 10178 OF DEEDS, PAGE 678.

12.) LIBER 8216 OF DEEDS, PAGE 112.

13.) LIBER 1703 OF DEEDS, PAGE 299.



CERTIFICATION:
WE, PASSERO ASSOCIATES, CERTIFY THAT THIS MAP WAS PREPARED ON JULY 20, 2007 USING PORTIONS OF THE REFERENCE MATERIAL LISTED HEREON AND FROM NOTES OF A BOUNDARY SURVEY COMPLETED ON JULY 06, 2007. THIS PARCEL IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES OF RECORD. NO CERTIFICATION IS EXTENDED TO RECORD INFORMATION NOT REFERENCED. THIS CERTIFICATION IS MADE TO:

EDWARD J. FREEMAN N.Y.S.P.L.S. NO. 049771

STATE OF NEW YORK · EDWARD J. FREEMAN · 49771 · LICENSED LAND SURVEYOR

Revisions

No.	Date	By	Revision
3.	4.4.11	E.F.	REMOVED SAMPLE AREAS
2.	1.27.11	E.F.	REVISED TAX ACCOUNT NUMBERS AND OWNERS NAME
1.	02.11.08	D.S.	ADD TEST PIT LOCATIONS FROM FEB. 04, 2008

Passero Associates
100 Liberty Pole Way, Rochester, NY 14604
585-325-1000 FAX: 585-325-1691
www.passero.com
Engineering Architecture Surveying Planning

Project: Lands Now or Formerly of Fitzsimmons, West Side of Golden Road
Town Lot No.74 of The John Smith Allotment, East Pultney Tract, Township 2, Range 1, Town of Chili, County of Monroe, State of New York

Drawing: **Boundary Survey**

Client: ARCADIS BBL, 295 Woodcliff Dr. Ste. 301, Fairport, New York 14450

Principal-in-Charge: J.F.C.
Project Manager: E.J.F.
Designed by: D.P.S.

Project No. 2007694.01
Drawing No. BS-1
Scale: 1" = 60'
Date: July, 2007

Z:\2007\2007694\2007694.01\Drawings\Survey\2007694 01bswotestinfo.dwg, 4/4/2011 1:15:20 PM

Appendix B

Groundwater Monitoring Well
Sampling Log Form

Golden Road Disposal Site - Chili, New York **LOW-FLOW SAMPLING PROGRAM**

Site *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: **Well ID.**

Job Number: **Date:**

Weather: **Time In:** **Time Out:**

WELL INFORMATION *(record from top of inner casing at minimum)*

		TIC	TOC	BGS
Well Depth	(feet)			
Water Table Depth	(feet)			

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐

Well Locked: Yes ☐ No ☐

Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Pumping Rate of Pump:	(mL/min)	
Pumping Rate of Pump:	(GPM)	
Minutes of Pumping:		
Total Volume Removed:	(gal)	

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.094	0.16	0.66	1.5

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

SAMPLING INFORMATION

Analyses:

TCL VOCs ☐

TCL SVOCs ☐

TCL Pesticides/PCBs ☐

TAL Metals ☐

Sample ID: _____

Sample Time: _____

MS/MSD: Yes ☐ No ☐

Duplicate: Yes ☐ No ☐

Total Bottles: _____

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Grundfos Pump ☐ Peristaltic ☐ _____

Tubing Used: Dedicated ☐ Deconned ☐ Type _____

Sampling Method Bailer ☐ Grunfos Pump ☐ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☐

Water Quality Meter Type: _____

Time / Parameter	1 Initial	2	3	4	5	6	7	8	9
Volume Purged (gal)									
Depth to Water (ft. TIC)									
pH									
Conductance (mS/cm)									
Turbidity									
DO (mg/L)									
Temp (^{o}C)									
ORP (mV)									

Time / Parameter	10	11	12	13	14	15	16	17	18
Volume Purged (gal)									
Depth to Water (ft. TIC)									
pH									
Conductance (mS/cm)									
Turbidity									
DO (mg/L)									
Temp (^{o}C)									
ORP (mV)									

SAMPLE DESTINATION

Laboratory: _____ Sample was ☐ shipped day of sampling Chain of Custody Signed By:

Shipped Via: ☐ Federal Express Other: _____ ☐ sent on _____ _____

Appendix C

Site-Wide Inspection Form

GOLDEN ROAD DISPOSAL SITE
CHILI , NEW YORK
SITE INSPECTION FORM

Date: _____ Inspectors: _____
Weather: _____ _____
_____ _____

Inspection Items	Acceptable		Comments/Conditions
	Yes	No	
1 General Area Conditions			
Appearance			
Litter			
2 Access Road Conditions			
Surface			
Accessibility			
3 Vegetation Conditions			
Grass Growth			
Bare Spots			
Erosion			
Settlement			
Ponding Water			
Protruding Objects			
4 Groundwater Monitoring Well Conditions			
Well Casings			
Well Locks			
5 Wetlands			
General Conditions			
Vegatation			
Water Levels			
6 Others (list)			