

# SNPE-VANDEMARK CHEMICAL CREEK BANK CORRECTIVE MEASURES IMPLEMENTATION

**Construction Closeout Report** 

REPORT

Submitted To: New York State Department of Environmental Conservation Division of Solid and Hazardous Materials, Region 9 270 Michigan Avenue Buffalo, New York 14203

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#### **EXECUTIVE SUMMARY**

Golder Associates Inc. (Golder) under contract to SNPE Inc. (SNPE) and in close cooperation with VanDeMark Chemical Inc. (VDM), the Site owner, has prepared this Corrective Measures Implementation (CMI) construction closeout report. The report summarizes the remediation activities that were conducted from September 6 to November 15, 2012 to address the cleanup and containment of coal tar residuals located in soil and bedrock along a portion of VDM's property adjacent to the north bank of Eighteen Mile Creek Bank (hereafter referred to as the "Creek Bank Area") and located to the south of VDM's manufacturing facility in Lockport, New York. The facility is located in the north central sector of the City of Lockport city limits, as shown on Figure 1-1.

The Creek Bank Area CMI remedial activities were performed in accordance with the CMI Work Plan dated March 2012 and approved by the New York State Department of Environmental Conservation (NYSDEC) in May 2012.

The purpose of the corrective measures was twofold: create a barrier to restrict and contain the migration of dense non-aqueous phase liquid (DNAPL) consisting of coal tar residuals that have been exiting the fractured bedrock formation at, or near, the toe of the Creek Bank area slope; and promote the collection of the DNAPL in a defined permeable trench for subsequent mechanical removal, if required. These objectives were achieved through the installation of a continuous overburden and bedrock grout wall and curtain system and construction of a passive upgradient permeable collection trench installed parallel to the grout barrier system.

This CMI construction closeout report presents the detailed construction methods and techniques utilized during the installation and construction of the approved corrective measures in the Creek Bank Area. Information documenting the construction techniques employed, construction quality assurance measures, health and safety requirements, and schedule associated with implementation of the project is presented.





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#### 1.0 INTRODUCTION

Golder Associates Inc. (Golder) under contract to SNPE Inc. (SNPE) and in close cooperation with VanDeMark Chemical Inc. (VDM), the Site owner, has prepared this Corrective Measures Implementation (CMI) Construction Closeout Report (CCR) to summarize the remedial activities that were conducted to address the cleanup and containment of coal tar residuals comprised of semi-volatile organic compounds in soil and bedrock along the north bank of Eighteen Mile Creek on a portion of the VDM property (Creek Bank Area) located to the south of VDM's manufacturing facility located in Lockport, New York. The facility is located in the north central sector of the City of Lockport city limits, as shown on Figure 1-1. The cleanup activities were performed from September 6 to November 15, 2012 under the supervision of Golder personnel.

#### 1.1 Background

Subsequent to the investigation activities and interim corrective measures performed at the VanDeMark facility from 2006 through 2011, a Corrective Measures Study (CMS) was performed and summarized in the "Focused Corrective Measures Study" report (VanDeMark Chemical, Golder Associates, April 2011).

The Focused CMS presented a detailed summary of the previous investigations and remedial activities performed at the VanDeMark Facility associated with coal tar impacts in the Creek Bank area and also provided historical site background information and context (refer to Sections 1.1 and 2.0 of the Focused CMS).

The primary objective of the Focused CMS was the identification, justification, and recommendation of the appropriate corrective measure(s) for the coal tar impacted Creek Bank area based on technical, human health and environmental screening criteria. Three alternatives were selected and evaluated using these criteria. Alternative 1 included a comprehensive DNAPL collection and removal system keyed into the bedrock at the toe of the slope and removal of coal tar residuals to bedrock. This alternative included provisions for groundwater pumping and shoring of the slope if needed. Alternative 2 was proposed as a less intrusive DNAPL containment and passive collection system that would consist of a grout curtain installation for DNAPL containment combined with installation of a shallow permeable collection trench and removal of shallow overburden coal tar accumulations. Alternative 3 was proposed as the least intrusive remedial approach and consisted of removal of shallow and exposed coal tar accumulations and routine visual monitoring of the Creek Bank area for evidence of new coal tar seeps.

The Focused CMS recommended Alternative 2 to meet the corrective action objectives of DNAPL capture/containment and provide a passive and reliable method for collection and removal of DNAPL. This alternative was selected as the most viable to meet remedial objectives while reducing the concerns associated with disturbance of the riparian area, adversely impacting adjacent slope stability and long

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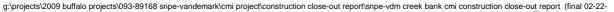


term impacts to the Creek Bank area relative to the construction and operation in this physically constrained location.

In correspondence to Golder dated May 5, 2011, the NYSDEC accepted the recommendations of the Focused CMS for implementation of Alternative 2 with several modifications requested to the final design. These modifications included:

- Modifying the design of the stone collection trench to extend to the top of rock or a maximum of 5 feet below grade surface (bgs) if bedrock is greater than 5 feet bgs along the proposed trench alignment; and
- Inclusion of a passive gravity flow water treatment system for water exiting the collection trench that will reduce the turbidity and remove low levels of organic constituents.

The New York State Department of Environmental Conservation (NYSDEC) subsequently negotiated a Corrective Measures Order (executed November 30, 2011) with both VDM (as Site owner) and SNPE (as a responsible party) under the Resource Conservation and Recovery (RCRA) program that included the requirements for implementation of remediation efforts which are summarized in this document. The Order on Consent document is included as Appendix A.





#### 2.0 PURPOSE AND SCOPE

The Creek Bank Area CMI remedial activities were performed in accordance with the NYSDEC approved CMI Work Plan dated March 2012 and the provisions of the May 24, 2012 NYSDEC CMI Work Plan approval letter (refer to Appendix B approval letter). This closeout report summarizes and documents the remediation construction, disposal, and restoration activities that were conducted in accordance with the CMI Work Plan to remove coal tar residuals along the Creek Bank area located to the south of the VDM Lockport, NY facility. The location of the remedial construction activities occurred along a portion of Eighteen Mile Creek south of the VDM facility.

This CMI CCR presents the detailed construction techniques and sequence utilized during the installation and construction of the approved CMI Work Plan design in the Creek Bank Area. Information documenting the construction techniques employed, construction quality assurance measures, health and safety requirements, and schedule associated with implementation of the project is presented in the following sections of the CCR.



#### 3.0 SUMMARY OF CMI ACTIVITIES

In July, 2012 bids were solicited for the performance of the "Creek Bank Corrective Measures for SNPE-VanDeMark Chemical Site No. 932149". The bid documents consisted of one set of design drawings, (refer to Appendix C) technical specifications and contractual documents for the execution of the proposed work. The design documents were based on the NYSDEC approved CMI Work Plan for the Site. Following solicitation of qualified bidders, Sevenson Environmental Services (Sevenson) was selected and retained as the remedial contractor to SNPE for completion of all CMI activities. Work activities under the Contract were initiated on September 6, 2012 and substantially completed on November 15, 2012. Golder was retained by SNPE to provide project management and full time field inspection services and documentation of the work performed to verify that the remedial activities were being performed in accordance with the design specifications. NYSDEC representatives also conducted periodic site visits to observe field activities and check on work progress. A copy of Golder's daily field observation notes are presented in Appendix D (D-1) and a photographic log illustrating the project progress is presented in Appendix E.

#### 3.1 Site Preparation Activities

Prior to site remediation activities commencing, Sevenson cleared and grubbed vegetation that was present in close proximity to the Site access road and the proposed alignment of the grout wall/curtain and associated DNAPL Collection trench. At a minimum, vegetation within approximately ten feet of the trench alignment was removed using a chain saw and a steel track excavator to allow for safe access and equipment operation that was necessary for the proposed remedial activities. Additional selective tree removal was needed where tree branches were overhanging the work area and might be a safety hazard for rotating mechanical equipment during the course of the work. Tree or tree limb removal was minimized to the extent feasible and only performed where they potentially impacted safe implementation of the work. Limited brush vegetation trimming and removal along the upper access path (to the east of the remedial area and extending to the former North Transit Road) was also performed to provide clear, unobstructed access for equipment and materials transport.

In addition to clearing and grubbing efforts, stabilization and reinforcement of the entire access path that extends from the former North Transit Road extension to the western terminus of the Creek Bank Area was performed by Sevenson. These improvements generally consisted of regrading the subgrade soils to reduce uneven areas and localized depressions followed by placement of a layer of reinforced geotextile stabilization fabric and approximately six inches of No. 2 run of crusher stone. The transition area from the upper to lower Creek Bank Area required more stabilization as this section of the access path had been significantly compromised by erosion and required additional stabilization and rebuilding improvements to handle equipment traffic necessary to complete the remedial activities. All imported select backfill stone was specified from local virgin gravel pit sources.





In conjunction with vegetation clearing and access path stabilization activities, erosion control measures including silt fencing, straw bales, and sand bags (refer to Figure 3-1 for location of the installed erosion control measures) were installed along the south side of the proposed grout wall/curtain alignment and access path to intercept any potential sediment containing runoff from planned excavation or associated ground disturbance along the entire length of the work area. Erosion control measures extended a minimum of 15 feet beyond the planned disturbance. The erosion controls were inspected weekly during active construction in conjunction with the "New York State Standards and Specifications for Erosion and Sediment Control", August 2005 (Appendix H), by a Golder qualified professional. The completed erosion control inspection forms are also provided in Appendix D (D-2).

#### 3.2 DNAPL Residuals Excavation & Removal

The Focused CMS recommended the excavation and removal of accumulated shallow DNAPL (coal tar) residuals and impacted overburden material to the extent feasible in the Creek Bank Area as part of the overall remedial strategy and in conjunction with the installation of the remedial measures.

In lieu of the overburden in-situ grout injection or soil mixing specified, Sevenson proposed an alternate overburden grout strategy which involved excavation of a two to three foot wide trench along the entire grouting alignment. This approach enhanced the ability to excavate and remove DNAPL residuals in conjunction with the installation of the grout wall. Visible deposits or seams of solidified DNAPL were removed to the north and south of the grout wall excavation alignment when they were encountered during the excavation process. The only limitations to expanding the excavation area for removal DNAPL solids was due to either the grout trench wall or slope stability concerns. The majority of additional coal tar residuals removal was focused in the areas downgradient (south) of the proposed grout curtain or shallower (i.e less than 3.5 to 4 feet below grade surface) in the vicinity of the toe of the slope. The areal extent of coal tar removal was based on visual observations, impacts to Eighteen Mile Creek Bank stability and safety concerns relative to the slope stability. NYSDEC representatives also periodically observed the excavation and removal of coal tar and were consulted with respect to the proposed extent of excavations performed and the limits achieved.

Sevenson began excavation of coal tar residuals using a track excavator beginning at the western-most terminus of the proposed overburden grout cutoff wall alignment and progressed eastward with this activity in conjunction with the excavation of the overburden grout wall trench.

Solidified coal tar residual deposits of various sizes were observed and removed at several locations during the overburden grout cutoff wall and the DNAPL collection trench excavation activities as noted in the daily field logs. The largest, and most uniform deposit was observed adjacent to the below grade stone structure (located approximately 180-feet to 230-feet from the western terminus of the grout wall alignment).

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The excavated spoils from both the grout wall trench and associated DNAPL solids removal excavations were loaded onto a dump truck and transported to a temporary open staging area adjacent to the site construction entrance located off Gooding and West Jackson Streets (south of the CMI construction Plastic sheeting was placed on the ground prior to spoils stockpiling and one (1) composite area). sample was collected from individual stockpiles by Sevenson for waste profile characterization and approval. This sample was analyzed for TCLP RCRA metals, Target Compound List (TCL) volatiles, and TCL semi-volatiles, ignitability, reactivity, and pH. The analysis of the composite sample indicated that the coal tar impacted soils could be categorized as a non-hazardous industrial waste and suitable for disposal at a New York State Part 360 permitted solid waste landfill. The analytical results were submitted, along with the required waste profile application forms, for disposal approval of coal tar residuals mixed with inorganic debris to Modern Corporation (Modern) in Model City, New York. Subsequently Modern received approval from the NYSDEC for the disposal of the mixed soil and coal tar residuals waste generated from the CMI activities. The laboratory report summarizing the results of the analysis performed is provided in Appendix F, along with a copy of the approved overburden waste stream profile. Subsequent to receipt of disposal approval, the stockpiled spoils from the overburden cutoff wall excavation were transported and disposed of at Modern on October 11 and 12, 2012. Additional soil waste spoils generated and stockpiled from the excavation of the DNAPL collection trench and treatment sump (discussed in detail in Section 3.4) were transported and disposed of on November 9, 2012. Documentation of the weight of waste spoils disposed of at the landfill based on scale tickets from each day that material was trucked are provided in Appendix G.

### 3.3 Grout Cutoff Wall Installation

#### 3.3.1 Overburden Grout Cutoff Wall Installation

Installation of the overburden grout cutoff wall was performed in the impacted Creek Bank Area spanning approximately 300 linear feet as proposed in the CMI design drawing alignment for the grout curtain illustrated on Figure 1 (Appendix C). The overburden grout cutoff wall refers to the flowable fill that was placed in the overburden trench, subsequent to coal tar residuals removal activities and prior to bedrock pressure grouting and installation of the DNAPL Collection Trench.

Trench excavation began at the western end of the proposed overburden grout cutoff wall as described in Section 3.2. The depth of the excavation varied depending on the observed presence of bedrock, but was generally from 5 to 11 feet below ground surface (bgs) elevation at the western end of the alignment (i.e., lower Creek Bank Area) and gradually deepened further east as the trench advanced up the slope towards the Upper Creek Bank Area with excavation in this area reaching depths of 14 feet bgs elevation near the eastern terminus of the trench.





During the trench excavation activities, three large stone obstructions at the bottom of the trench were encountered and could not be removed due to their size and configuration extending well beyond the footprint of the trench toward the toe of the slope. The obstructions were located approximately 30-feet, 80-feet, and 170-feet from the western terminus of the trench. These obstructions were left in place and their locations were noted for coordination of bedrock drilling and pressure grouting activities. Due to the large rock at the 80-foot mark, the alignment of the overburden grout curtain trench was shifted approximately 8-feet south towards Eighteen Mile Creek to avoid this obstruction in an effort to reach the top of bedrock in accordance with the design intent for the overburden grouting system. The obstruction at the 170-foot mark appeared to be a portion of the wall foundation for the buried stone block structure (outlined on Figure 3-1) that was a relic of the areas' historic mill works potentially dating from the early 20<sup>th</sup> century. An abandoned below grade concrete creek water pump station was encountered on the north side of the trench excavation alignment but did not hinder excavation activities. This pump station was supplied through a small upstream concrete valve chamber which was connected to a gravity fed water intake from Eighteen Mile Creek. To stem the flow of water into the pump station (confirmed by VDM personnel to be long abandoned and inoperable), the valve chamber was sealed off with flowable fill to prevent creek water from entering the excavation.

Upon completion of trench excavation, the trench was progressively backfilled with a strengthened mixture of flowable fill consisting of Class "F" flyash, Type I Portland cement and water, no other admixtures were used in the formulation. The flowable fill was delivered to the site in standard concrete supply trucks and off-loaded into the trench beginning at the western terminus of the trench alignment and progressing eastward. As trench backfill activities progressed to the east and up the slope (i.e. increasing elevation), it became necessary to install temporary earthen berms or wood forms (approximately 1 to 2-feet high) spanning north to south across the width of the previously poured overburden cutoff wall. This was necessary in preventing the flowable fill pour from migrating downslope across the previously cured flowable fill material (refer to photographs in Appendix E).

Permeability of the overburden grout flowable fill material was initially confirmed to meet the specified minimum (i.e.,  $1.0 \times 10^{-5}$  cm/sec) by collection and analysis of an ex-situ test cylinder during the initial cutoff wall installation. Confirmation quality control samples were subsequently collected after completion of the grout wall installation by coring a minimum of 12-inches into the top of the cured grout wall after a minimum of three weeks of cure time had transpired. The test cylinder and cores were shipped to JLT Laboratories in Canonsburg, Pennsylvania, and subsequently tested for permeability according to ASTM D-5084, Method A. The flowable fill material laboratory test results are provided in Appendix H. Test results show that the flowable fill material (based on both the ex-situ cylinder sample [H-1] and the in-situ core samples [H-2]) installed for the overburden grout cutoff wall construction met the minimum permeability project specification requirement of  $1.0 \times 10^{-5}$  cm/sec. All sample results demonstrated

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permeability of 1 x  $10^{-6}$  cm/sec or less. Refer to Figure 3-1 for the location of in-situ flowable fill cutoff wall sample cores.

#### 3.3.2 Bedrock Grout Installation

Sevenson contracted Geo-Science Group, Inc., a specialized geotechnical grouting contractor, to perform the bedrock grout curtain installation as part of the Creek Bank area CMI activities. Drilling through the overburden grout wall and into the bedrock was undertaken by Geo-Science drillers utilizing a TEI Rock Drills HEM-RDS 550 drill mounted on a JLG Model 8080 mini-excavator. The drill string consisted of a  $2^{3/8}$ -inch diameter API output flange followed by  $2^{3/8}$ -inch diameter API regular drill rods five-feet long, followed by a Numa Patriot 35 down-the-hole hammer fitted with a four-inch diameter, flat faced, ballistic button bit. Drilling and grouting activities were performed between October 2 and November 1, 2012.

In accordance with the project specifications, the primary grout curtain boreholes were initially spaced at 10 foot intervals along the approximately 300 foot long grout curtain alignment. These were drilled from west to east along the alignment of the previously installed overburden grout wall resulting in boreholes P-1 through P-30. As drilling proceeded, lateral air and hydraulic communication between adjacent boreholes was observed frequently and found to be excessive at some locations. Due to the observed hydraulic communication between the initial boreholes, it was determined during consultation between Golder, Geo-Science, and NYSDEC personnel that drilling and grouting of secondary and potentially tertiary boreholes would be necessary as the grouting proceeded to address a higher degree of rock fractures and void spaces in certain areas of the formations than was anticipated. The contract design documents stipulated that, if required, secondary grouting locations would be located halfway between the primary grouting holes to achieve an approximate spacing between grouting locations of 5 feet.

Installation of tertiary boreholes were not contemplated or specified in the design documents, however as noted, due to the extremely heterogeneous bedrock conditions encountered during the drilling of the in the lower Creek Bank Area between primary borehole locations P-1 and P-9, it was agreed that tertiary grout injection points would be warranted based on the results and observations of the secondary grouting locations.

Following completion of all boring and pressure grouting of the primary boreholes, secondary boreholes (S-1 through S-29) were installed hallway between primary boreholes (five-feet) in order to achieve more continuity in the grout coverage of the more highly fractured portions of the bedrock formations encountered and a factor of safety in grout overlap. In addition, as previously noted several tertiary holes (T-1, T-5, T-9, T-13 and T-17) were drilled at the western end of the alignment. Tertiary spacing, where utilized, further reduced the grout borehole spacing to two and one-half-feet. Refer to Figure 3-1 for locations of all drilled bedrock grout boreholes.

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At each grout borehole, the total installed borehole depth consisted of the thickness of the installed overburden grout wall (a minimum of 4-feet at the western end of the grout wall and maximum of sixteen (16) feet deep at the eastern end) plus a minimum of five feet into competent rock. As work progressed, it was agreed that where feasible, borehole depths would be increased beyond five feet total as necessary to achieve penetration into the more fractured Queenston Shale formation where it was found to reside beneath the Whirlpool Sandstone in several areas along the alignment. In particular, emphasis was placed on reaching the Queenston formation in the boring locations extending from P-20 through P-30 in the upper Creek Bank Area where a thicker layer of Whirlpool Shale overlaid the Queenston formation. As a result of this approach, at a number of drilling locations the penetration depth into the combined bedrock formations (Whirlpool and Queenston) resulted in total drilled depths in bedrock of up to sixteen (16) feet. Refer to Figure 3-2 for a cross section of the grouted bedrock that illustrates the approximate termination depth at each boring location.

Following primary borehole drilling activities, grout was mixed and pumped under controlled pressure through a pneumatic packer installed in the borehole until the grout consumption indicated the rock to be saturated based on grout return or pressure in the injection line. The grout injected utilized a homogenous, suspension grout mixture consisting of Portland Type 1111 cement and water, with water/cement ratios ranging between 0.40 and 1.00, depending on bedrock conditions encountered. Mixing and pumping of grout was accomplished utilizing a Chemgrout CG-500 paddle mixer fitted with a 2L6 two stage progressive cavity pump. The minimum pump return line pressure refusal criteria was 15 pounds per square inch (PSI) at the grout header for primary grout curtain boreholes, and 45 PSI at the grout header for secondary and tertiary boreholes. Compressed air for drilling and grouting operations was furnished by a Doosan Compressor supplying 900 CFM @ 175 PSI. Control of grout pressure was accomplished utilizing a circulatory return loop, pressure gauging, and pinch control valves. From the grout header, a steel standpipe was connected to an Aardvark Model 36 inflatable packer, which was lowered to just above top of rock and inflated to seat the packer within the borehole. All grout boreholes were taken to their respective refusal criteria pressures. Constant monitoring for evidence of releases of grout into Eighteen Mile Creek was undertaken during borehole grouting activities, on several occasions grout injection was suspended immediately upon observation of grout exiting the surface soils on the south side of the grout wall alignment near the creek.

Table 1 presents a detailed summary for each of the primary, secondary and tertiary bedrock grouting locations performed as part of the bedrock grout curtain installation. The table includes total drilling depths, formations encountered, drilling notes, total quantity of grout injected at each location, grout refusal pressure achieved and additional field notes with specific and detailed observations. Figure 3-2 illustrates a cross section of the bedrock formations across the entire length of the bedrock grouting area immediately below the overburden grout wall that were encountered based on drill cutting return

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observations during the drilling work. Based on refusal pressures and visual observations of surface grout return achieved at each injection location, it is inferred that all significant void spaces and fractures from the bottom of the borehole to the bedrock / overburden grout wall interface were successfully grouted.

#### 3.4 **DNAPL Collection Trench and Water Treatment System Installation**

A permeable stone DNAPL collection trench was installed parallel to, and upgradient (north) of the overburden grout cutoff wall (refer to Figures 1 and 2 in Appendix C for design information and details) The final surveyed alignment of the installed collection trench is illustrated on Figure 3-1. The trench was constructed as designed and is a minimum of 24-inches wide. It extends from grade surface to the top of rock, or a maximum of five feet bgs, where bedrock is deeper along the alignment. The trench was backfilled with clean washed coarse aggregate (washed No. 2 stone), meeting the gradation specification provided on Figure 2 of the CMI design drawings. The southern edge of the trench was installed approximately 12-inches from the overburden grout wall to protect the integrity of the wall. A layer of 6 oz. non-woven geotextile fabric was placed as a barrier between the south wall of the trench and the stone to delineate the edge of the collection trench for future maintenance purposes and was wrapped approximately 6 inches below the top of the collection trench and covered with six inches of gravel for protection. After completion of the 300-feet collection trench, a 20 foot long, 3-inch diameter perforated drain line was installed near the western terminus of the trench approximately six inches below the top of the trench to gravity drain accumulated water from the trench to a passive treatment system (see details on Figure 2, Appendix C). Upon exiting the collection trench the perforated pipe transitioned to a solid 3" drain pipe and was routed to a 4 ft. x 4 ft. x 4 ft. precast concrete sump divided into two chambers separated by a concrete internal wall. The main chamber which receives the overflow from the collection trench contains a filter bed consisting of approximately 1-foot layer of coarse sand placed on top of a 1foot layer of granular activated carbon meeting the contract specifications (see Figure 2, Appendix C). After passing through the filtration media the water flows though three outlets located at the base of the internal divider wall into an smaller outlet chamber. Water exits this outlet chamber and the filter sump from a 3 inch overflow pipe. The precast filter sump is equipped with a 24-inch square locked aluminum man way access hatch for maintenance and observation activities.

The filtered water exits the precast filter sump via gravity through a 3-inch diameter drain pipe and terminates in a drain sump filled with washed coarse aggregate (meeting the specifications for the collection trench) adjacent to and southeast of the precast filter sump. The drain sump is lined with geotextile filter cloth and allows for recharge of the drainage water into the Creek Bank area overburden soils.



#### 3.5 Piezometer and DNAPL Monitoring Well Installation

At the conclusion of the DNAPL collection trench installation, four (4) piezometer wells were installed in general accordance with the contract plans. Piezometers PZ-1 through PZ-4 (shown as Detail 3 on Figure 3, Appendix C) were installed through the overburden and terminated at the top of bedrock. The aboveground portion of the piezometers (i.e., stick-up) is protected by a locking, 4-inch steel, protective casing that is cemented around the piezometers. A construction summary of each piezometer well providing the total depth of each installation including the screen, sand pack, bentonite seal and cement is provided in Table 2.

In addition to the piezometers, four (4) DNAPL observation sumps (OS-1 through OS-4) were installed into the DNAPL collection trench. These observation sumps consist of 3-inch, schedule 40, PVC pipe that extend down to the bottom of the collection trench. The sumps extend above the top of the trench approximately 6 inches and are covered with a PVC cap. The pipe utilized for the sumps was modified in the field with manually cut slots to provide wider openings to promote inflow of DNAPL, if present within the trench.

#### 3.6 Quality Assurance and Performance Assessment

Golder personnel were on-site full-time during performance of all remedial construction activities by Sevenson to observe and document daily field activities. NYSDEC representatives also conducted periodic site visits to observe field activities and check on work progress. A copy of Golder's daily field observation notes documenting the key remedial activities and details of grouting and related activities are presented in Appendix D and a photographic log illustrating the project progress are presented in Appendix E. Table 1 also provides a detailed summary of the pressure grouting performed and Figure 3-1 provides an as-built survey of the location of the installed remedial elements.

#### 3.7 Site Restoration

As a result of the mid-November timing of the completion of CMI construction activities, Golder recommended that final top soil placement and seeding of the disturbed portions of the Creek Bank area be postponed until such time in the spring of 2013 when conditions are more conducive to seed germination and establishment of vegetative growth. This schedule was acceptable to the NYSDEC and Sevenson. For temporary erosion control for the winter months, Sevenson graded the entire construction area, including the access path, with the run of crusher that was used for access road stabilization. Golder will inspect and coordinate repairs with Sevenson to maintain erosion control structures (i.e., silt fencing and straw bales) installed for the remedial work until vegetation has been established to the satisfaction of Golder, the NYSDEC and VanDeMark in the spring of 2013.

Sevenson will perform any final re-grading of disturbed areas necessary and place imported virgin topsoil to restore and enhance the natural drainage patterns along the creek bank and promote



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regeneration of native plant species in areas that were cleared of vegetation to perform the CMI activities.



#### 4.0 MONITORING AND MAINTENANCE

The installed features of the Creek Bank Area corrective measures were intended to provide a system that will require a relatively low level of maintenance for the containment and collection of DNAPL. However, routine monitoring and maintenance procedures will be developed as necessary for continued management/operation of the collection trench water overflow filtration system. A detailed Operations and Maintenance Plan (OMP) will be prepared and submitted for NYSDEC approval.



#### 5.0 HEALTH AND SAFETY

This project involved a NYSDEC mandated corrective action and also involved limited contact with hazardous substances. Therefore, it was necessary for all site personnel involved on the project (both Sevenson and Golder) to comply with OSHA 1910.120 (HAZWOPER) regulations. A Health and Safety Plan was submitted by Sevenson prior to mobilization and initiation of CMI work activities and subsequently approved by Golder and the NYSDEC.

Safety is of utmost importance to SNPE, VanDeMark, and Golder with any project undertaken. In addition to the OSHA 1910.120 requirements, any other pertinent federal, state or county requirements were followed as well as VanDeMark's own Contractor Safety Procedures.





#### 6.0 CLOSING

Based on our continuous oversight and observation of the CMI construction activities performed and routine consultation with the NYSDEC during the completion of the work, Golder believes that the CMI activities performed and described in this report fully address the proposed scope of work presented in the March 2012 Work Plan and the supplemental provisions contained in the May 24, 2012 NYSDEC approval of the Work Plan. These corrective measures fulfill the intent for actions stipulated in Item I.B of the Order on Consent under "Corrective Action".

If you have any questions or comments concerning the work performed or the documentation provided, please contact us at (716) 204-5880

GOLDER ASSOCIATES INC.

Intend 7. Martin

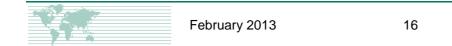
Patrick T. Martin, PE, BCEE Senior Consultant

David C. Wehn, CPG Associate/Office Manager

Con June

Aaron M. Lange, EIT Staff Environmental Engineer





#### 7.0 **REFERENCES**

Golder Associates Inc., Work Plan for Corrective Measures Implementation SNPE Inc. / VanDeMark Chemical, Inc. Lockport, New York, prepared for SNPE Inc., March 2012.

Golder Associates Inc., *Focused Corrective Measures Study VanDeMark Chemical Lockport, New York,* prepared for SNPE Inc., April 2011 (Approved May 5, 2011).



TABLES

# TABLE 1 GROUT CURTAIN BOREHOLE SUMMARY CREEK BANK CORRECTIVE MEASURES CONSTRUCTION CLOSEOUT REPORT SNPE-VANDEMARK CHEMICAL LOCKPORT, NEW YORK

			BC	OREHOLE DRILLI	NG SUMMARY (1)	BOREHOLE GROUTING SUMMARY					
BORING ID	FLOWABLE FILL DEPTH (Ft. bgs)	QUEENSTON SHALE THICKNESS (Ft.)	WHIRLPOOL SANDSTONE THICKNESS (Ft.)	TOTAL BOREHOLE DEPTH (Ft. bgs)	REMARKS	GROUT BAGS PUMPED (2)	YIELD IN CUBIC FT. (CF)	REFUSAL PRESSURE (PSI) (3)	REMARKS		
P-1	8	7	0	15	Wet cuttings returned	7	8.61	15	Hydraulic connectivity noted with overburden grout cutoff wall at surface		
P-2	11	7	0	18	Wet cuttings returned	12	14.76	15	-		
P-3	10	6	0	16	Wet cuttings returned	4	4.92	15	Hydraulic connectivity noted with overburden grout cutoff wall at surface		
P-4	8	13	0	21	Wet cuttings returned	20	24.60	15	Hydraulic connectivity noted with P-5		
P-5	7	6	8	21	Wet cuttings returned	6	7.38	15	Borehole filled with grout during P-4 grouting (10-ft. west)		
P-6	7	9	0	16	Hydraulic connectivity noted with P-5; approx. 18-inch void space encountered at approx. 12-ft. bgs.	4	4.92	15	Hydraulic connectivity noted with overburden grout cutoff wall at surface		
P-7	9	5	2	16	Dry cuttings returned	4	4.92	16	Hydraulic connectivity noted with P-5 and P-6 at surface		
P-8	9.5	6.5	0	16	Dry cuttings returned	31	38.13	15	No observable grout return at surface		
P-9	9	12	0	21	Hydraulic connectivity noted with P-8; No cuttings returned. Unknown bedrock unit at time of drilling. Approx. 2-ft. void space encountered from approx. 10-15-ft. bgs.	9	11.07	15	Minor hydraulic connectivity noted with creek during grouting		
P-10	8	8	0	16	Possible large boulder at approx. 9-ft. bgs. Coal tar odor during bedrock drilling	27	33.21	15			
P-11	5	3	3	11	Dry cuttings returned; Coal tar odor during bedrock drilling	2	2.46	15	Plugged during grouting		
P-12	9	2	5	16	Dry cuttings returned	6	7.38	15	Hydraulic connectivity noted with P-11 during grouting		
P-13	10	5	1	16	Dry cuttings returned	9	11.07	15	Minor hydraulic connectivity noted with creek during grouting		
P-14	9	4	3	16	Dry cuttings returned; Coal tar odor during bedrock drilling	8	9.84	15	Hydraulic connectivity noted with P-13		
P-15	9	0	7	16	Mostly dry cuttings returned; Coal tar odor during bedrock drilling 0bs		Observable minor grout seepage at south edge of overburden grout cutoff wall				
P-16	11	0	5	16	Coal tar odor during bedrock drilling; Approx. 0.5-ft. void encountered in bedrock	23	28.29	15	Observable minor grout seepage at toe of at P-16		
P-17	15	1	5	21	Coal tar noted in wet bedrock cuttings	22	27.06	15	No observable grout return at surface		
P-18	10	0	6	16	Approx. 2-ft. void space encountered from approx. 12-14-ft. bgs.	24	29.52	15	No observable grout return at surface		
P-19	10	0	5	15	Dry cuttings returned	13	15.99	15	Hydraulic connectivity noted with P-20 during grouting		
P-20	11	0	5	16	Dry cuttings returned	3	3.69	15	Observable grout return at surface		
P-21	11	0	5	16	Mostly dry cuttings returned	17	20.91	15	Observable grout return at surface		
P-22	12	0	7	19	DNAPL-like odor observed approx. 2-3-ft. into Whirlpool bedrock. Sheen on wet cuttings returned at surface. Sample collected for analysis of SVOCs.3543.0515No observed		No observable grout return at surface				
P-23	12	0	9	21	Dry cuttings; Hydraulic connectivity noted with P-22	7	8.61	15	No observable grout return at surface		
P-24	10.5	0	5.5	16	Mostly dry cuttings; Hydraulic connectivity noted with P-23	3	3.69	15	Borehole appeared plugged at approx. 6-feet bgs. Observable grout return at surface		
P-25	11	0	5	16	Dry cuttings returned	8	9.84	15	No observable grout return at surface		



#### TABLE 1 GROUT CURTAIN BOREHOLE SUMMARY CREEK BANK CORRECTIVE MEASURES CONSTRUCTION CLOSEOUT REPORT SNPE-VANDEMARK CHEMICAL LOCKPORT, NEW YORK

			BC	OREHOLE DRILLI	NG SUMMARY (1)	BOREHOLE GROUTING SUMMARY					
BORING ID	FLOWABLE FILL DEPTH (Ft. bgs)	QUEENSTON SHALE THICKNESS (Ft.)	WHIRLPOOL SANDSTONE THICKNESS (Ft.)	TOTAL BOREHOLE DEPTH (Ft. bgs)	REMARKS	GROUT BAGS PUMPED (2)	YIELD IN CUBIC FT. (CF)	REFUSAL PRESSURE (PSI) (3)	REMARKS		
P-26	14.5	0	6.5	21	Dry cuttings in upper bedrock; wet cuttings lower half of bedrock. Approx. 0.5-ft. void encountered in bedrock at approx. 16.5-ft bgs. Hydraulic connectivity noted with P-23 (30 ft. away)	. 20	24.60	15	No observable grout return at surface		
P-27	16	0	10	26	Dry cuttings in upper bedrock; wet cuttings lower half of bedrock. Approx. 2-ft. of very sift bedrock drilling at overburden grout cutoff wall/bedrock interface. Hydraulic connectivity noted with P-26	15	18.45	15	No observable grout return at surface		
P-28	16	0	10	26	Limited cutting returns; soft rock zone encountered at approx. 20-ft. bgs. Hydraulic connectivity noted with P-26 & P-27	10	12.30	15	Minor hydraulic connectivity noted with creek during grouting		
P-29	16	0	5	21	Moderate coal tar odor during bedrock drilling; Hydraulic connectivity noted with P-28	7	8.61	15	Observable grout return at surface		
P-30	16	0	5	21	Mostly dry cuttings; No hydraulic connectivity noted with previous boreholes	6	7.38	15	No observable grout return at surface		
S-1	12	9	0	21	Hydraulic connectivity noted with P-1 and north side of overburden grout cutoff wall	4	4.92	45	Hydraulic connectivity noted with S-2 during grouting		
S-2	11	10	0	21	Hydraulic connectivity noted with P-1, S-1 and overburden grout cutoff wall (at surface)	2	2.46	45			
S-3	11	5	0	16	Hydraulic connectivity noted with overburden grout cutoff wall (at surface)	40	49.20	45			
S-4	11.5	9.5	0	21	Hydraulic connectivity noted with overburden grout cutoff wall (at surface)	5	6.15	45	Hydraulic connectivity noted with grout wall and S-5 during grouting		
S-5	10	6	0	16		25	30.75	45	Hydraulic connectivity noted with north edge of overburden grout cutoff wall during grouting		
S-6	9	5	2	16	Grout encountered during drilling	30	36.90	45			
S-7	9	5	1	15	Approx. 1-foot of borehole muck; Hydraulic connectivity noted with overburden grout cutoff wall (at surface) and S-6	20	24.60	50	No hydraulic connectivity noted during grouting		
S-8	4	7	5	16	Approximate location of large rock slab encountered during trench excavation	30	36.90	45	Hydraulic connectivity noted with north edge of overburden grout cutoff wall during grouting		
S-9	9	12	0	21		11	13.53	45	Minor hydraulic connectivity noted with creek during grouting		
S-10	5	9	2	16	Grout encountered at overburden grout cutoff wall/Whirlpool interface and Whirlpool/Queenston interface	2	2.46	45			
S-11	4	6	6	16	Approx. 6-inches of grout at bottom of flowable fill	7	8.61	45	Minor hydraulic connectivity noted with creek during grouting		
S-12	8	10	3	21	Grout encountered during Queenston shale drilling	5	6.15	45	No hydraulic connectivity noted during grouting		
S-13	6	4	6	16	Grout encountered during bedrock drilling	8	9.84	45	No observable grout return at surface		
S-14	9	6	6	21	-	18	22.14	45	No hydraulic connectivity noted during grouting		
S-15	10	9	2	21		8	9.84	45	No hydraulic connectivity noted during grouting		
S-16	12	5	9	26	Grout/coal tar odor encountered during Whirlpool bedrock drilling	18	22.14	45	No observable grout return at surface		
S-17	10	0	6	16	Very solid Whirlpool sandstone noted	2	2.46	45	No hydraulic connectivity noted during grouting		



#### TABLE 1 GROUT CURTAIN BOREHOLE SUMMARY CREEK BANK CORRECTIVE MEASURES CONSTRUCTION CLOSEOUT REPORT SNPE-VANDEMARK CHEMICAL LOCKPORT, NEW YORK

			B	OREHOLE DRILLI	NG SUMMARY (1)	BOREHOLE GROUTING SUMMARY					
BORING ID	FLOWABLE FILL DEPTH (Ft. bgs)	QUEENSTON SHALE THICKNESS (Ft.)	WHIRLPOOL SANDSTONE THICKNESS (Ft.)	TOTAL BOREHOLE DEPTH (Ft. bgs)	REMARKS	GROUT BAGS PUMPED (2)	YIELD IN CUBIC FT. (CF)	REFUSAL PRESSURE (PSI) (3)	REMARKS		
S-18	8	0	12	20		11	13.53	45	No hydraulic connectivity noted during grouting		
S-19	12	3	11	26	Grout encountered during drilling	29	35.67	45	No observable grout return at surface		
S-21	12	4	10	26	Coal tar/solvent-like odor encountered at approx. 17-ft. bgs. Approx. 2-ft. void space encountered from approx. 18-20-ft. bgs. Water encountered at approx. 21-ft. bgs.	34	41.82	45	No observable grout return at surface		
S-22	12	2	12	26	Grout encountered during Whirlpool bedrock drilling	20	24.60	45	No observable grout return at surface		
S-23	12	2	12	26	Slight coal tar/solvent-like odor encountered at approx. 17-ft. bgs. Water encountered at approx. 20-ft. bgs. Possibly drilled twice, yielding similar results.	32	39.36	45	No observable grout return at surface		
S-24	12	2	12	26	Soft zone encountered in bedrock at approx. 11-12 ft. bgs; approx. 0.5-ft. void space encountered at Whirlpool/ Queenston interface	approx. 0.5-ft. void space encountered at Whirlpool/ 38 46.74 45		No observable grout return at surface			
S-25	11	0	5	16	Dry cuttings returned 21 25.83 45 Hydraulic connectivity n			Hydraulic connectivity noted with S-27 (20-ft. east) during grouting			
S-26	11	0	15	26	Dry cuttings returned	38	46.74	50	No observable grout return at surface		
S-27	11	0	15	26					Borehole filled with grout during S-25 grouting (20-ft. west)		
S-28	14	0	12	26		22	27.06	50	No observable grout return at surface		
S-29	14	0	12	26	Grout encountered during drilling	23	28.29	45	No observable grout return at surface		
T-1	10	6	0	16	Hydraulic communication noted with overburden grout cutoff wall at surface	20	24.60	45	No observable grout return at surface		
T-5	10	5	0	15	Large 2-foot thick rock slab left in-situ during trench excavation encountered at approx. 4-ft. bgs.; approx. 3-ft. of overburden grout cutoff wall encountered beneath slab. Hydraulic communication observed at surface with overburden grout cutoff wall.	9	11.07	45	No observable grout return at surface		
T-9	12	4	0	16	Hydraulic connectivity noted with P-6, T-5 and overburden grout cutoff wall at surface.	7	8.61	45	No observable grout return at surface		
T-13	9	5	0	14	Hydraulic connectivity noted with T-9, overburden grout cutoff wall (North) at surface and creek bank	16	19.68	45	Hydraulic connectivity noted with T-9 during grouting		
T-17	4	4	3	11	Hydraulic connectivity noted with overburden grout cutoff wall (North) at surface; Grout encountered during Queenston bedrock drilling	16	19.68	45	Hydraulic connectivity noted with trench wall (North) during grouting		
		Total Lin	ear Feet Drilled:	1196	Total Grout Co	urtain Volume:	1152.51				

#### NOTES:

All depths are approximate

Ft. bgs. = Feet below ground surface

CF = Cubic Feet

PSI = Pounds per Square Inch

1 Grout Bag = 1.23 CF of grout

(1) Drilling depths are from surface of installed overburden grout cutoff wall; observations noted at time of drilling

(2) Bags of bentonite grout mixed and pumped into borehole during pressure grouting

(3) Grouting refusal pressure of pounds per square inch (psi)

Table By: RJM Date: 11/30/2012 Checked By: DCW Date: 1/23/2013



#### TABLE 2 PIEZOMETER AND DNAPL MONITORING POINT SUMMARY CREEK BANK CMI CONSTRUCTION CLOSEOUT REPORT SNPE-VANDEMARK CHEMICAL LOCKPORT, NEW YORK

POINT ID#	INSTALL. DATE	NORTHING	EASTING	GROUND ELEV. (1)	PRO. CASING ELEV. (2)	CASING ELEV. (3)	BOREHOLE DEPTH (4)			SANDPACK LENGTH (FT)	SEAL LENGTH (FT)
PZ-1	11/13/2012	5139.45	4762.79	140.50	143.58	143.14	9.0	5.00	9.00	5.0	2.0
PZ-2	11/13/2012	5159.78	4770.84	142.20	145.31	144.81	8.0	5.00	8.00	3.5	2.0
PZ-3	11/14/2012	5152.62	4585.68	122.70	125.35	124.82	10.0	7.00	10.00	4.0	2.5
PZ-4	11/14/2012	5165.71	4595.72	123.90	126.58	126.11	10.0	5.00	10.00	6.0	2.0
OS-1	11/14/2012	5174.54	4579.58	122.50	NA	NA	5.0	NA	NA	NA	NA
OS-2	11/14/2012	5146.50	4639.05	126.90	NA	NA	5.0	NA	NA	NA	NA
OS-3	11/14/2012	5154.49	4739.93	141.09	NA	NA	5.0	NA	NA	NA	NA
OS-4	11/14/2012	5165.95	4815.00	143.35	NA	NA	5.0	NA	NA	NA	NA

#### NOTES:

PZ = Performance moinitoring piezometer location

OS = DNAPL Collection Trench observation well location

NA = Not Applicable

(1) Ground Elevation is to Top of Surrounding Ground Surface (Site datum)

(2) Pro. Casing Elevation is to Top of Protective Steel Casing

(3) Casing Elevation is to Top of PVC Casing

(4) Ground Surface to Bottom of Boring (feet)

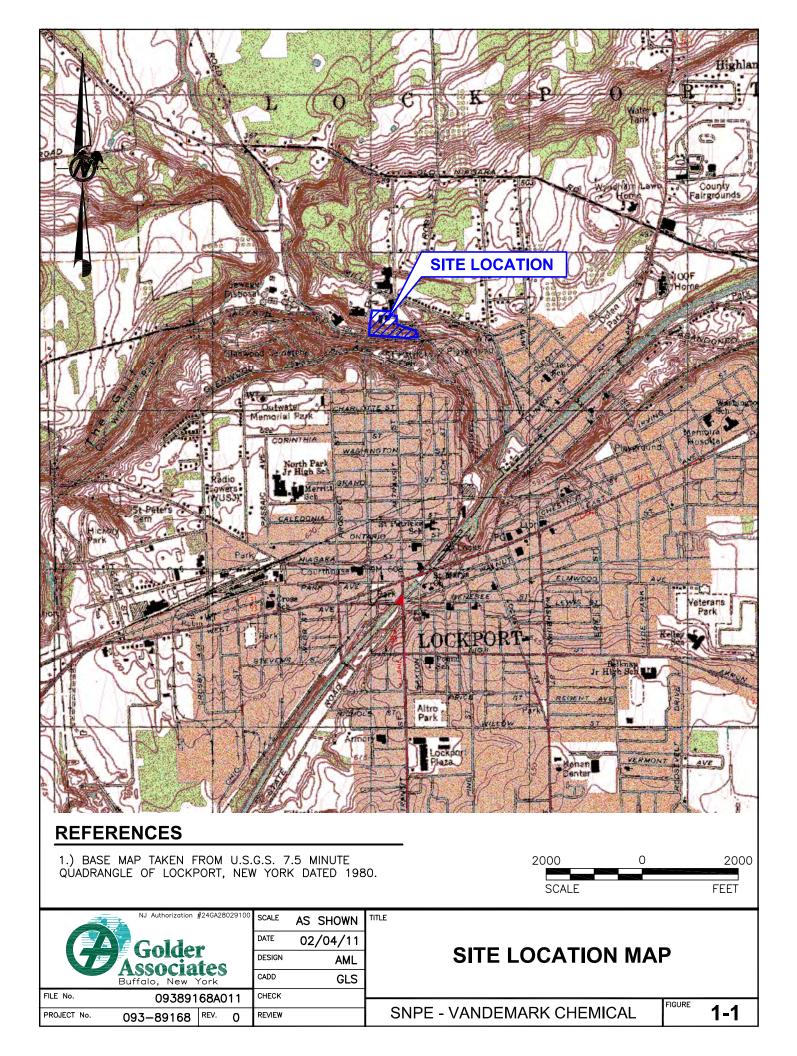
(5) Below Ground Surface (feet)

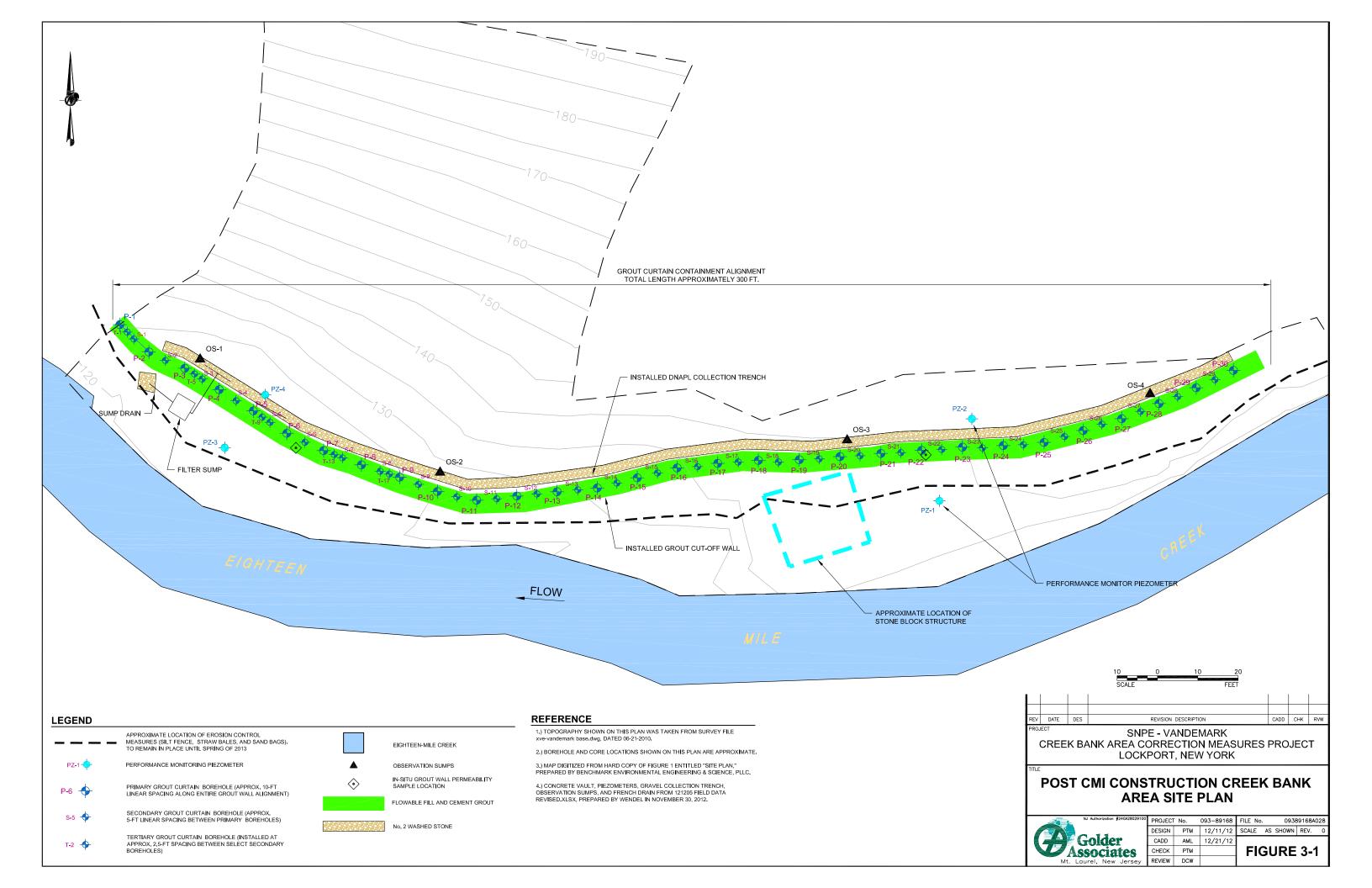
(6) Piezometers Constructed of Schedule 40 PVC

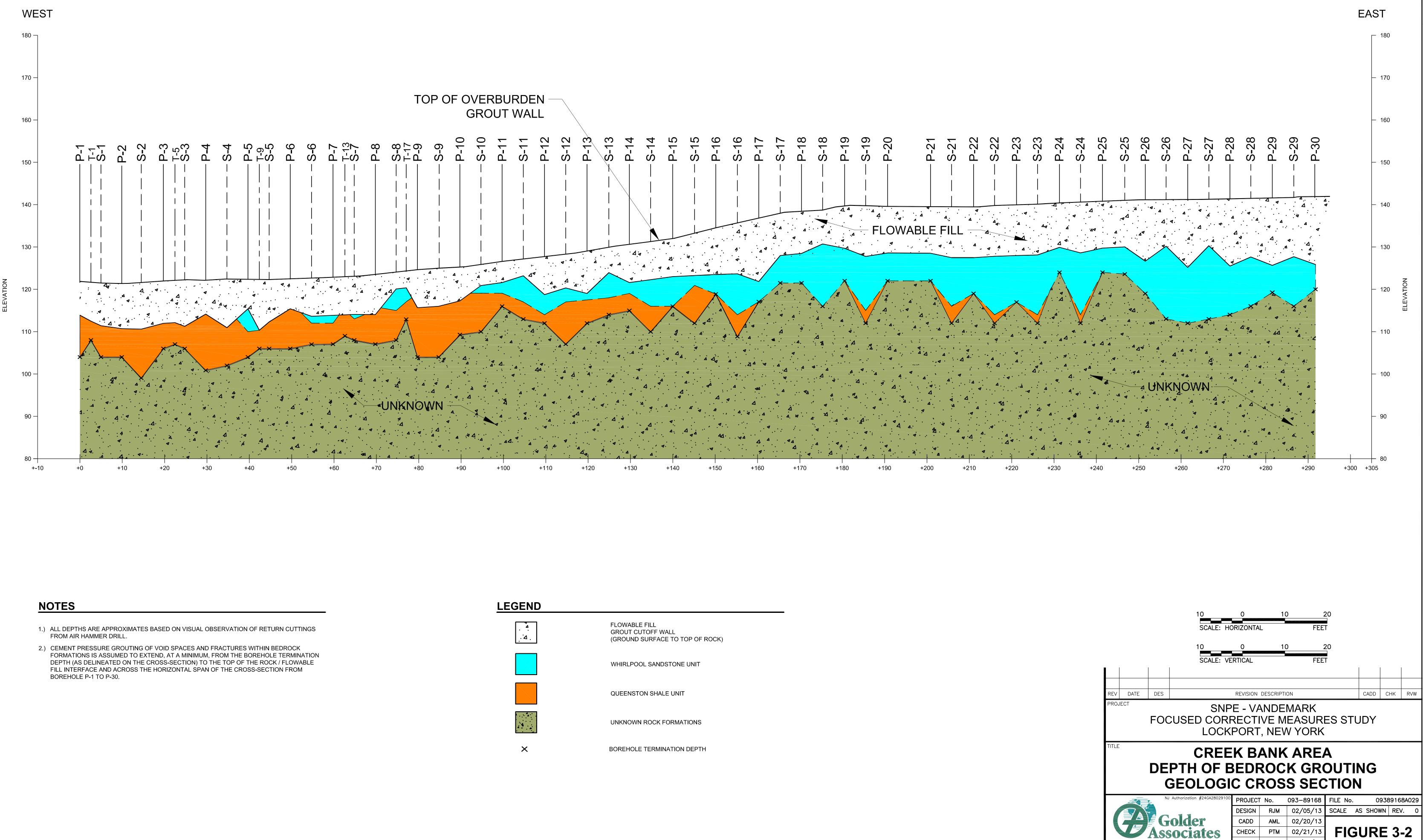
Table By: RJM Date: 12/3/2012 Checked By: AML Date: 12/11/2012 Reviewed By: PTM Date: 12/21/12



FIGURES







REVIEW DCW 02/21/13

Mt Laurel, New Jersey

۵ . ۵	FLOWABLE FILL GROUT CUTOFF WALL (GROUND SURFACE TO TOP OF ROCK)
	WHIRLPOOL SANDSTONE UNIT
	QUEENSTON SHALE UNIT
	UNKNOWN ROCK FORMATIONS
×	BOREHOLE TERMINATION DEPTH

APPENDIX A

CORRECTIVE MEASURES ORDER R9-20080205-5 (November 30, 2011)

#### STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Implementation of Corrective Action for a Hazardous Waste Management Facility, Pursuant to Article 27, Titles 9 and 13 of the Environmental Conservation Law of the State of New York by:

ORDER ON CONSENT File No. 08-10 R9-20080205-5

Van De Mark Chemical, Inc. One North Transit Road Lockport, New York 14094-2399 SNPE, Inc. 103 Carnegie Center, Suite 300 Princeton, New Jersey 08540

Respondent(s)

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#### WHEREAS:

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of the Environmental Conservation Law of the State of New York ("ECL"). This Order is issued pursuant to the Department's authority under that law, including ECL 3-0301, ECL Article 27, Title 9, and ECL Article 71, Title 27.

2. Van De Mark Chemical, Inc. ("Van De Mark"), owns and operates property located at One North Transit Road, Lockport, New York 14094-2399 ("Facility"), Van De Mark was owned by SNPE, Inc. ("SNPE") from 2000 to 2007, and known as Isochem, Inc. from 2004 to 2007. Together, SNPE and Van De Mark will be referred to herein as "Respondents".

3. The Department maintains that Van De Mark conducted operations at the Facility that subject it to ECL Article 27, Title 9, and the regulations promulgated pursuant thereto. The Department further maintains that the Facility is a hazardous waste management facility, as that term is defined at 6 NYCRR 370.2(b)(89), and is subject to the New York State laws and regulations governing hazardous waste.

4. The Department maintains that the Facility is subject to interim status and corrective action pursuant to the Federal Resource Conservation and Recovery Act ("RCRA") and the regulations promulgated thereunder. The Department received final delegation of RCRA authority from United States Environmental Protection Agency ("EPA") as of May 29, 1986.

5. On March 1, 1981, a Part A hazardous waste application under RCRA was submitted to the EPA by Van De Mark. The Facility has not received a Part B permit and is considered by the Department to be an interim status facility for purposes of 6 NYCRR 373-1.3.

 A Draft Phase I/II Environmental Audit developed by Dames & Moore for SNPE<sub>7</sub> in 1999 revealed dense non-aqueous phase liquid (DNAPL) in monitoring well MW-2D.

7. In 2006, Van De Mark agreed to conduct a voluntary Site Assessment of the on-site monitoring wells and further inspection of the base of the escarpment/banks of Eighteen Mile Creek. As a result of the inspection activities, coal tar was discovered along Eighteen Mile Creek at the base of the Niagara Escarpment and below the plant site. The Respondents encountered coal tar in quantities and locations that the parties agreed required further investigatory and remedial efforts.

8. Pursuant to a Department-approved work plan and under Department oversight, Van De Mark began creek bank cleanup activities on August 13, 2007 and completed this phase of the work on August 27, 2007.

9. Respondents submitted a supplemental Eighteen Mile Creek bank cleanup plan on September 12, 2008 to address additional coal tar seeps and a further report on December 22, 2008 that described the second phase of cleanup work along the creek bank.

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10. Respondents, in 2009 and 2010, submitted additional work plans and, with the Department's approval, continued to perform additional remediation of the previously unanticipated levels of coal tar at the Facility.

11. The Department and Respondents agree that the goal of this Order is to implement further corrective action to address the coal tar contamination associated with the Facility and Eighteen Mile Creek and to develop and execute a related operation and maintenance plan for the Facility, including the plant site.

12. Pursuant to ECL Section 71-2727(3), the Commissioner of the Department may issue orders requiring corrective action, including corrective action beyond the facility boundary where necessary to protect human health and the environment, for all releases of hazardous waste or constituents from any Area of Concern (AOC) or solid waste management unit (SWMU) at any treatment, storage or disposal facility which is either permitted or seeking a permit under Title 7 of 9 of Article 27 of the Chapter, or which has interim status according to regulations adopted thereunder, regardless of the time at which the waste was placed in the unit.

13. Pursuant to 6 NYCRR 373-1.2(e), an enforceable document, such as an Order on Consent, can be issued in lieu of a post-closure permit, subject to the requirements in 6 NYCRR 373-3.7(k).

14. Respondents consent to the issuance of this Order to fulfill their obligation under ECL Article 27, Title 9 and ECL 71-2727(3)(b) to perform corrective measures

implementation and operations and maintenance monitoring at the Facility and agree to be bound by its terms. Respondents reserve all rights and defenses they may have regarding liability or responsibility for conditions at the Facility, except that Respondents consent to and agree not to contest the authority or jurisdiction of the Department to enforce this Order, except as provided in Section V.C., and agree not to contest the validity of this Order or its terms. Respondents have consented to the issuance of this Order in good faith without trial or adjudication of any issue of fact or law.

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I. <u>Corrective Action</u>

A. Respondents shall implement the Interim Corrective Measures (ICM) work plan, dated February 2011, and approved by the Department on May 5, 2011, within fortyfive days of the effective date of this Order. Said ICM requires removal of coal tar located at the plant site portion of the Facility.

B. Respondents shall submit a Corrective Measures Implementation (CMI) work plan that provides sufficient detail of the corrective measures alternative approved by the Department, with modifications, in its letter dated May 5, 2011. This approval was in response to Respondents' Focused Corrective Measures study (CMS) which Respondents submitted in April 2011. This CMI Work Plan will address any identified coal tar impacts to Eighteen Mile Creek adjacent to the Facility. The CMI Work Plan shall be submitted within-sixty days of the effective date of this Order.

C. Respondents shall submit an Operation and Maintenance Plan (OMP) that monitors the effectiveness and maintenance of the remedial system installed at the base of the Niagara Escarpment and groundwater/DNAPL monitoring associated with the selected corrective action at the Facility. Based upon the results of the OMP, the Department may require additional corrective action at the Plant Site and/or enhancements to the remedial system installed at the base of the Niagara Escarpment.

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II. <u>Financial Assurances</u>

A. Providing Financial Assurance: By sixy (60) days from Effective Date of Order, Respondents shall provide an estimate of financial assurance for (a) corrective measures implementation activities necessary to implement and successfully complete the CMI n to address coal tar contamination at the Facility and (b) activities necessary to implement the OMP at the Facility. Respondents must provide financial assurance in accordance with 6 NYCRR 373-3.8, or comply with requirements of 6 NYCRR 373.3.8. Respondents shall add the words, "and/or corrective action" wherever the words, "closure/post closure" appear in financial assurance instrument wording. Respondents shall thereafter modify the sentence stating that the wording of the financial assurance instrument is identical to the wording provided in the regulations by adding the phrase, "with the exception of including the words, and/or corrective action."

B. Modification of Amount of Financial Assurance:

1. On an annual basis, beginning one year after the effective date of this Order, Respondents must submit to the Department a corrective action cost estimate for (a) the Corrective Measures Implementation Work Plan; and (b) the Operation and Maintenance Plan, all of which are required by Paragraph I of this Order. The Department will review each cost estimate and notify Respondents, in writing, of the Department's approval, rejection, or modification of the cost estimate. If the Department does not approve the cost estimate, the Department will notify the Respondents in writing of the estimate's deficiencies and specify a due date for submittal of a revised cost estimate. 2. If the cost estimate is greater than the amount of financial assurance then in effect, the Respondents must, within sixty (60) days from the date of the submission of the new cost estimate, provide additional financial assurance in accordance with 6 NYCRR Section 373-3.8, in an amount that is the difference between the new cost estimate and the existing financial assurance then in effect.

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3. If the estimated cost is less than the amount of financial assurance then in effect, Respondents may, at the same time that Respondents submit the annual cost estimate, or at any other time agreed to by the Department, submit a written proposal to the Department to reduce the amount of the financial assurance provided under this Section so that the amount of the financial assurance is equal to the estimated cost of the remaining work to be performed. The written proposal shall specify, at a minimum, the cost of the remaining work to be performed and the basis upon which such cost was calculated. In the event that the Department requires additional information concerning the remaining work to be performed, the department shall notify Respondents in writing. Respondents shall have fifteen (15) days after receiving the Department's notification that additional information is needed to submit in writing a revised proposal that addresses all of the additional information requested by the Department. If Respondents provide sufficient information to the Department concerning the cost of the remaining work to be performed, the Department shall issue a written decision within sixty (60) days regarding the amount of financial assurance required under this Order. After receiving the Department's written decision, Respondents may reduce the amount of the financial assurance only in accordance with, and to the extent permitted by, such written decision. If Respondents elect to satisfy the requirement of 6 NYCRR 373-3.8 by establishing a closure/post-closure

trust fund and the value of the fund is greater than the cost of the remaining work, the Department will instruct the trustee to release such excess funds to the Respondents.

4. In the event of a dispute, Respondents may invoke the dispute resolution mechanism provided in Section VII of this Order. Respondents shall not be required to post additional financial assurance or be entitled to reduce the amount of financial assurance, or seek a release of funds, until a final decision is rendered by the Director or his designee.

C. Liability Requirements:

Respondents must have and maintain liability coverage in accordance with 6 NYCRR 373-3.8(h).

D. Adjustment for Inflation:

While this Order remains in effect, the financial assurance, including financial assurance for corrective action, will be subject to adjustment for inflation as provided for in 6 NYCRR 373-3.8(c)(2) and Section 373-3.8(e)(2).

III. <u>Stipulated Penalties:</u>

1. Respondents' failure to comply with any term of this Order constitutes a violation of this Order and the ECL. If the Department determines that Respondents have failed to comply with this Order, the Department shall notify Respondents in writing. Payment of any penalty shall not in any way alter Respondents' obligation to comply with any term of this Order or to complete performance under the terms of this Order. The payment of stipulated penalties as set forth below shall not limit the Department's right to seek such other relief as may be authorized by law.

2. Respondents<sup>2</sup> shall be liable for payment to the Department of the sums set forth below as stipulated penalties for each day, or part thereof, that Respondents are in violation of the terms of this Order. All penalties begin to accrue on the first day Respondents are in violation of the terms of this Order and continue to accrue through the final day of correction of any violation, less those days the matter was subject to Dispute Resolution. Such sums shall be due and payable within fifteen (15) days after receipt of notification from the Department assessing the penalties. If such payment is not received within fifteen (15) days after Respondents receive such notification from the Department, interest shall be payable at the annual rate of nine (9) per centum on the overdue amount from the day on which is was due through, and including, date of payment. Penalties shall be paid by certified check or money order, made payable to "New York State Department of Environmental Conservation" and be delivered personally or by certified mail, return receipt requested, to the Regional Attorney, Office of General Counsel, NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203-2915. Payment of the penalties shall not in any way alter Respondents' obligation to complete performance under the terms of this Order. Stipulated penalties shall be due and payable pursuant to the following schedule:

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Period of Non-Compliance	Penalty Per-Day
First through 15 <sup>th</sup> day	\$ 500
16 <sup>th</sup> through 30 <sup>th</sup> day	\$1,500
31 <sup>st</sup> day and thereafter	\$4,500

### IV. <u>Submissions</u>

A. All reports and submissions required by this Order shall be made to the Regional Hazardous Materials Engineer at the address provided in Paragraph X.

Respondents shall be responsible for the content of any submissions made pursuant to this Order.

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B. The Department shall review each of the submissions Respondents make pursuant to this Order to determine whether it was prepared, and whether the work done to generate the data and other information in the submission was done, in accordance with this Order and with generally accepted technical/scientific principles. The Department shall notify Respondents in writing of its approval or disapproval of each submission. All Department approved submissions shall be incorporated into and become an enforceable part of this Order. Approval by the Department shall not be unreasonably withheld or delayed by the Department.

C. If the Department disapproves a submission, it shall so notify Respondents in writing and specify the reasons for is disapproval. Within sixty days, unless the notice specifies a different deadline, after receiving written notice that Respondents' submission has been disapproved, Respondents shall make a revised submission to the Department that addresses all the Department's stated reasons for disapproving the first submission. After receipt of the revised submission, the Department shall notify Respondents in writing of its approval or disapproval. If the Department approves the revised submission, it shall be incorporated into and become an enforceable part of this Order. If the Department disapproves the revised submission, the Department and Respondents will conduct good faith negotiations to resolve the issue between them during the course of the next twentyone days. If the issues are not resolved to the Department's satisfaction, the Department shall so notify Respondents in writing within such twenty-one day period and Respondents shall be in violation of this Order, unless it has invoked the dispute resolution mechanism set forth below in Paragraph VI within thirty days of receipt of the Department's written notice that issues have not been resolved.

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D. The Department may request that Respondents-modify and/or amplify and expand a submission upon the Department's request to do so if the Department reasonably determines, as a result of reviewing data generated by an activity required under this Order or as a result of reviewing any other data or facts, that further work is necessary.

V. <u>Reservation of Rights</u>

A. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting any of the Department's civil, criminal, or administrative rights or authorities including, but not limited to nor exemplified by, the right to recover natural resource damages against any party, including Respondents and Respondents' defenses thereto.

B. Nothing contained in this Order shall be construed to prohibit the Commissioner or the Commissioner's designee from exercising any summary abatement powers pursuant to ECL 71-0301.

C. Except as specifically set forth herein, nothing in this Order shall be construed as a waiver by Respondents of any rights, claims, defenses, or agreements it now has or may have in the future regarding the Facility.

VI. Dispute Resolution

A. The Parties shall use their reasonable best effort and negotiate in good faith to resolve any disputes regarding this Order.

B. If any dispute shall arise between Respondents and the Department regarding the implementation or interpretation of any provision of this Order or any

revised submittal, Respondents may invoke the dispute resolution procedures contained in this Section.

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C. In order to invoke these procedures, within 30 days of receipt of notice of the Department's action or determination, Respondents must submit a written request to meet with the Director of the Division of Materials Management ("the Director") to discuss the Department's action or determination. The Director or the Director's designated agent must contact Respondents to schedule a meeting within 14 days thereafter. At the meeting, Respondents shall be given an opportunity to present their response to the Department's action or determination, and the Director shall have the authority to modify and/or withdraw such action or determination. The Director shall notify Respondents, in writing, of his or her specific comments as soon as reasonably practicable after the meeting.

D. Upon receipt of such notification, Respondents shall take whatever action is required under this Order as modified by the Director's comments (if any) pursuant to a schedule determined following the meeting with the Director. If Respondents fail to take the required action, Respondents shall be in violation of this Order and the Department may take any action or pursue whatever rights it has pursuant to any provision of statutory or common law.

E. The invocation of dispute resolution procedures under this Paragraph shall not, of itself, extend, postpone, or affect in any way any obligation of Respondents under this Order, except that payment of stipulated penalties with respect to the disputed matter shall be stayed pending resolution of the dispute pursuant to this Paragraph. Notwithstanding the stay of payment set forth above, stipulated penalties shall accrue from the first day of noncompliance with any applicable provision of this Order. In the event Respondents do not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Paragraph IV above. The Director, in his or her sole discretion, may waive stipulated penalties when Respondents do not prevail on the disputed issue if the Director determines that Respondents had a reasonable basis for believing they would prevail on the disputed issue.

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F. The Director's written specific comments shall be the Department's final agency action for purposes of Article 78 of the CPLR. Nothing in this Order shall diminish or otherwise affect Respondents' statutory rights of appeal with respect to the Department's final decision.

### VII. Entry Upon Facility

Respondents hereby consent to the entry upon Facility and upon areas in the vicinity of the Facility that are under the control of Respondents upon reasonable notice and at times reasonable under the circumstances by any duly designated employee, consultant, contractor, or agent of the Department or any State Agency having jurisdiction for purposes of inspection, sampling, and testing to ensure Respondents' compliance with this Order. The Department shall abide by the security, health and safety rules in effect at the Facility. The Department may be accompanied by an employee, consultant, contractor, or agent of Respondents.

### VIII. Indemnification

Respondents shall indemnify and hold the Department, the State of New York, and its representatives and employees harmless for all claims, suits, actions for damages, and costs of every name and description arising out of or resulting from the fulfillment or

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attempted fulfillment of this Order by Respondents' employees, servants, agents, successors, and assigns.

### IX. <u>Modification</u>

A. The terms of this Order constitute the complete and entire Order the Department issued to Respondents covering corrective measures investigation, implementation, and monitoring at the Facility. No term, condition, understanding, or Order purporting to modify or vary any term of this Order shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department regarding any report, proposal, plan, specification, schedule, or any other submissions shall be construed as relieving Respondents of their obligation to obtain such formal approvals as may be required by this Order.

B. If Respondents desire that any provision of this Order be changed, Respondents shall make timely written application to the Department setting forth reasonable grounds for the relief sought. Copies of such written application shall be delivered or mailed to the Regional Materials Management Engineer, and the Regional Attorney, at the respective addresses provided in paragraph X.

### X. <u>Communications</u>

All written communications required by this Order shall be transmitted by United States Postal Service, by private courier service, or by hand delivery.

1. Communication from Respondents shall be sent to:

Regional Materials Management Engineer New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, New York 14203-2915 Regional Attorney 270 Michigan Avenue Buffalo, New York 14203-2915

2. Communications to Respondents shall be sent to:

Pamela Cook	Richard A. Martin
Van De Mark, Inc.	Orrick, Herrington & Sutcliffe, LLP
One North Transit Road	51 West 52 <sup>nd</sup> Street
Lockport, New York 14094-2399	New York, New York 10019-0142

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and to

David Flynn Phillips Lytle, LLP 3400 HSBC Center Buffalo, New York 14203

B. The Department and Respondents reserve the right to designate additional or different addresses for communication on written notice to the other given in accordance with this Section.

### XI. <u>Termination and Satisfaction</u>

The provisions of this Order shall be deemed satisfied and the obligations of the Respondents under this Order shall terminate upon Respondents' receipt of a written statement from DEC that Respondents have completed, to DEC's satisfaction, all the terms and conditions of this Consent Order. At any time after Respondents complete all of the tasks required by this Order, including the tasks in Paragraph I, Sections A, B, and C, and coal tar is not emanating from the base of the escarpment for a period of three (3) years<sup>1</sup> Respondents may request in writing that DEC provide Respondents with a statement of completion. Within ninety (90) days after such request by Respondents, DEC will use its best efforts to provide Respondents with a statement of completion, or a written statement as to the basis for a refusal to provide Respondents with such statement of completion. At any time after Respondents' receipt of a written statement of refusal to provide Respondents with a statement of completion, Respondents may submit a notice of dispute and trigger the dispute resolution procedures provided in Section VI of this Order. If Respondents disagree with the decision issued under the dispute resolution procedures of this Order, Respondents may then seek judicial review of the DEC determination concerning Termination and Satisfaction. DEC and Respondents agree that the determination of the dispute resolution proceeding concerning Termination and Satisfaction (i.e., whether Respondents have completed all of the tasks required by this Order) shall be deemed final agency action and subject to judicial review. The need for additional post-closure care monitoring, and post-closure financial assurance, while independently enforceable by the Department, shall not be a prerequisite to termination of this Order

XII. Notification of Proposed Transfer

A. Within thirty (30) days after the effective date of this Order, Respondents shall file a copy of this Order with the Niagara County Clerk, Lockport, New York to give notice of this Order to all parties who may acquire an interest in the Site. Respondents shall provide the Department with a certification by the Niagara County Clerk indicating that a copy of the Order has been filed with the Office of the Niagara County Clerk, in Lockport, New York.

B. Within thirty (30) days after the effective date of this Order, Respondents shall file a deed notice with the Niagara County Clerk, Lockport, New York whereby the Facility is restricted to use for commercial or industrial purposes and groundwater at the

Facility shall not be used for potable water purposes; Said notice shall further state that the site has a possibility of residual coal tar contamination.

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C. If Respondents propose to convey the whole or any part of Respondents' ownership interest in the Site during the term of this Order, Respondents shall, not fewer the sixty (60) days before the date of conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed date of the conveyance, and shall notify the transferee in writing, with a copy to the Department of the applicability to them of this Order and all attachments, and 6 NYCRR Part 373-3.

D. Respondents, through their successors and assigns, shall retain liability for fulfilling the terms of this order throughout the duration of the Order, even if during the duration of the Order, Respondents, or their successors and assigns, convey or transfer the whole or any part of their interest in the Site.

XIII. Miscellaneous

A. Respondents hereby certify that they have fully and accurately disclosed or made available to the Department all relevant information known to Respondents and all relevant information in the possession or control of its officers, directors, employees, contractors, and agents which relates to, identifies or describes contamination at the Facility relative to coal tar and DNAPL, along Eighteen Mile Creek.

B. The Department shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by Respondents pursuant to this Order, and the Department also shall have the right to take its own samples. Respondents shall make available to the Department the results of all sampling, tests or other data generated by Respondents with respect to implementation of this Order or conducted independently by Respondents. Respondents shall have the right to obtain split samples, duplicate samples, or both of all substances and materials sampled by the Department, and the Department shall make available to Respondents the results of all sampling, tests or other data generated by the Department with respect to this Order.

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C. Respondents shall obtain all permits, easements, rights-of-way, rights-ofentry, approvals, or authorizations necessary to perform its obligations under this Order.

D. Respondents and Respondents' successors (including successors-in-title) and assigns shall be bound by this Order. Any change in ownership or corporate status of Respondents including, but not limited to, any transfer of assets or real or personal property, shall in no way alter Respondents' responsibilities under this Order. Respondents shall require that its employees, servants, and agents comply with the relevant provision of this Order in the performance of their designated duties on behalf of Respondents.

E. Respondents shall be responsible for ensuring that its contractors and subcontractors perform the work in satisfaction of the requirements of this Order.

F. Respondents shall notify the Department at least 10 working days in advance of the commencement of any field activities to be conducted pursuant to this Order.

G. All references to days in this Order are to calendar days unless otherwise specified. If a deadline falls on a weekend or holiday, such deadline shall automatically be extended until the next business day.

H. The Paragraph headings set forth in this Order are included for convenience of reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Order.

I. The Effective Date of this Order shall be the date that the Commissioner or his designee signs the Order. The Department will provide Respondents (or Respondents' counsel) with a fully executed copy of this Order as soon as practicable after the Commissioner or his designee signs it.

J. In the event of an inconsistency between the provisions of any attachment or appendix of this Order and any term, condition, or provision contained in Paragraph I through XII of this Order, the term, condition, or provision contained in that Paragraph, and not that in any attachment or appendix of this Order, shall control.

K. Respondents and Respondents' corporate successors and assigns hereby affirmatively waive any right they had, have, or may have to make a claim against New York state pursuant to Article 12 of the Navigation Law with respect to the Site, and further release and hold harmless the New York State Environmental Protection and Spill Compensation Fund from any and all legal or equitable claims, suits, causes of action, or demands whatsoever that any of same has or may have with respect to the Facility.

L. The terms of any Orders on Consent Respondents have entered into with DEC pertaining to the Facility shall continue in full force and effect unless they conflict with or are otherwise addressed by the terms of this Order, in which case terms of this Order shall control.

M. Respondents shall not suffer any penalty under this Order or be subject to any proceeding or action if it cannot comply with any requirement hereof because of war,

riot, or any other event beyond the reasonable control of Respondents. Respondents shall, within 10 business days of when they obtain knowledge of any such condition, notify the Department in writing. Respondents shall include in such notice the measures taken and to be taken by Respondents to prevent or minimize any delays and shall request an appropriate extension or modification of this Order. Failure to give such notice within such ten-business day period constitutes a waiver of any claim that a delay is not subject to penalties.

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Dated: <u>7102'.</u> 30, 2011 Buffalo, New York

Joseph J. Martens Commissioner New York State Department of Environmental Conservation

Abby Misnyder

By: Abby M<sup>2</sup>/Snyder Regional Director

### **CONSENT BY RESPONDENT**

Respondent hereby consents to the issuing and entering of this Order, waives its right to a hearing herein as provided by law, and agrees to be bound by this Order.

By: M. a. 1Juchardin Title: President & CED Date: October 20, 2011

STATE OF NEW YORK)

COUNTY OF

H 10100

On the <u>or</u> day of <u>Ceteber</u>, in the year 2011, before me, the undersigned, personally appeared <u>Michael A Kuchaes</u>, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

ane firth +n. NOTARY PUBLIC

) ss:

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ANN MARIE WERTH Notary Public, State of New York Qualified in Niagara County My Commission Expires \_\_\_\_\_\_

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### CONSENT BY RESPONDENT

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Respondent hereby consents to the issuing and entering of this Order, waives its right to a hearing herein as provided by law, and agrees to be bound by this Order.

BY: SCHWARTZ FRANGOIS
Title: CHAIRMAN
STATE OF NEW YORK) COUNTY OF New YORK) On the $\prod_{i=1}^{n}$ day of November of New York in the year 2011, before me, the undersigned, personally appeared <u>SCHWAATZ Francers</u> , in the year 2011, before me, the undersigned, personally appeared <u>SCHWAATZ Francers</u> , personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.
C. physic
NOTARY PUBLIC
DEBORAH JOHNSON Notary Public, State of New York No. 01 JO6022712 Qualified in Kings County Commission Expires April 5, 20

10.4 1

# **GROUPE SNPE**

November 2, 2011

Le Directeur Délégué Financier et Juridique

> Dan Slick ChayseChem Inc. 301 Oxford Valley Rd, Suite 704 B Yardley,PA 19067

N° 11 – 81 DFJ

Dear Dan,

You will find enclosed the Consent Decree with the State of New York signed by me as chairman of SNPE Inc.

I hope this signature could be validated.

Waiting to hear from you.

Yours,

F. SCHWARTZ

P.J.

76 PJ 94

APPENDIX B

NYSDEC CORRESPONDENCE

# New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9

270 Michigan Ave, Buffalo, New York 14203-2915 Phone: (716) 851-7220 Fax: 716-851-7226 Website: www.dec.ny.gov



May 24, 2012

Mr. Patrick Martin, P.E., BCEE Senior Consultant Golder Associates Inc. 2430 North Forest Road, Suite 100 Getzville, NY 14068

Dear Mr. Martin:

SNPE – VanDeMark Chemical Revised Work Plan for Corrective Measures Implementation Town of Lockport, Niagara County NY Site # 932149

The New York State Department of Environmental Conservation (the "Department") has reviewed your revised May 2012 SNPE – VanDeMark Chemical Work Plan for Corrective Measures Implementation (CMI) report. This CMI Report was submitted in accordance with the Department approved (May 5, 2011) Focused Corrective Measures Study report dated April 2011. The Department approves of the revised CMI Work Plan.

The Department appreciates your cooperation with this project. Please inform the undersigned at least one week in advance of all field work related activities. If you have any questions, please contact me (716)851-7220.

Sincerely,

Stanley Radon, CPG Division of Environmental Remediation

SR:dcg radon\martin-may1.ltr

ec: Mr. Dennis Weiss, Regional Haz Materials Engineer Mr. Michael Hinton, Environmental Engineer II Mr. Matt Forcucci, NYS Dept of Health APPENDIX C CORRECTIVE MEASURES DESIGN DRAWINGS (Figures 1 through 3)

# **SNPE - VANDEMARK CREEK BANK AREA CORRECTIVE MEASURES PROJECT 1 NORTH TRANSIT ROAD** LOCKPORT, NEW YORK

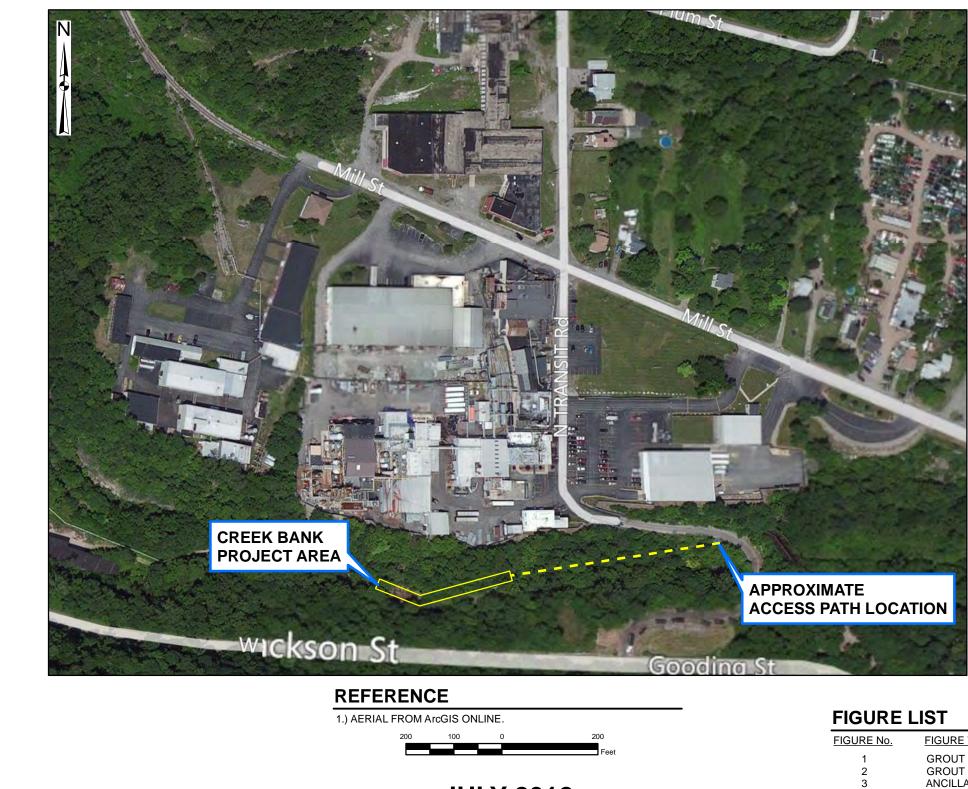
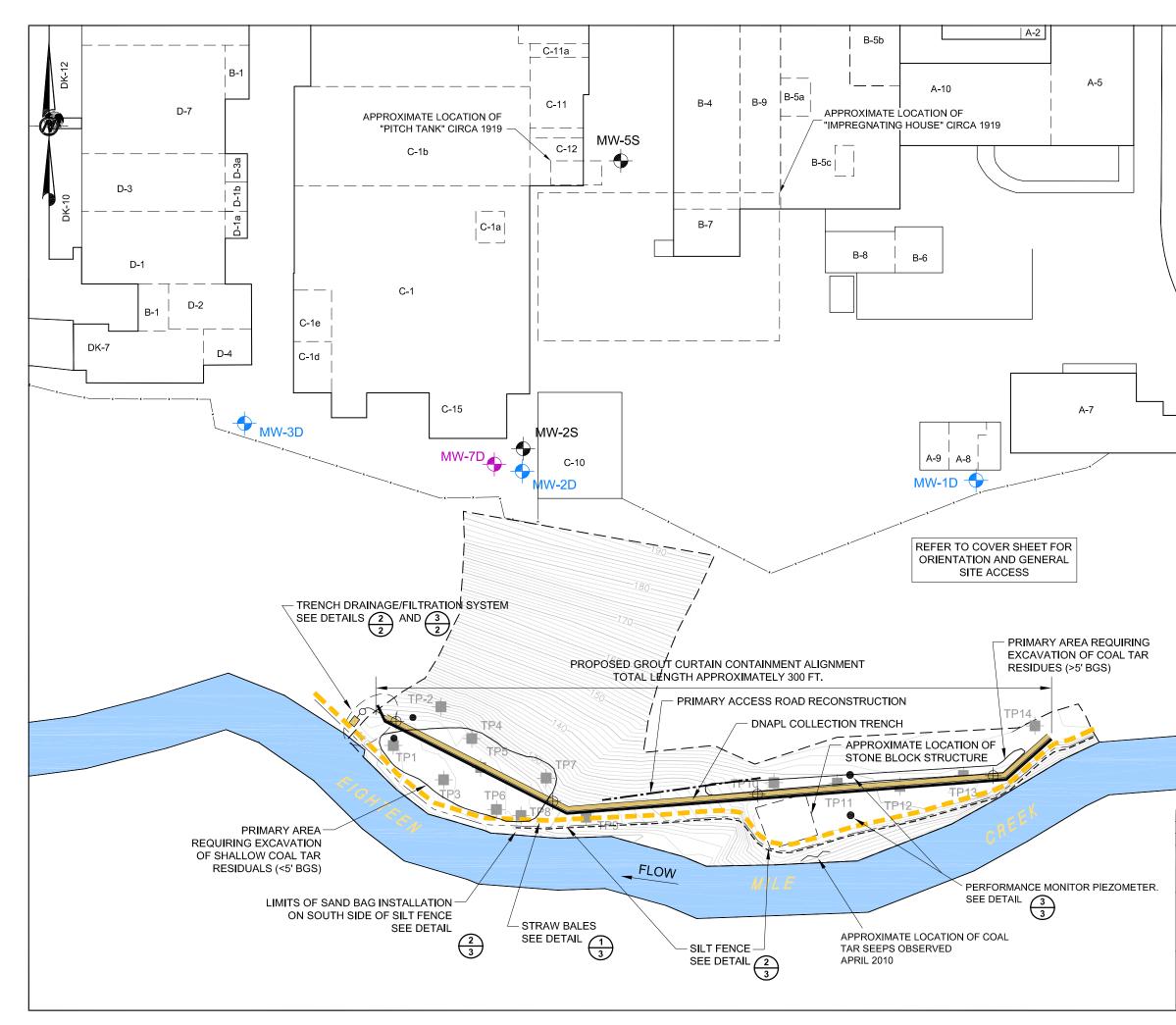


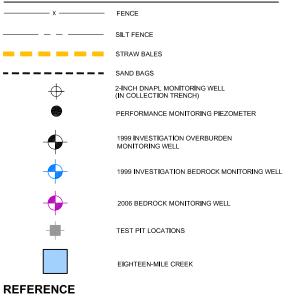




FIGURE TITLE GROUT CURTAIN & DNAPL COLLECTION TRENCH ALIGNMENT GROUT CUTAIN & DNAPL COLLECTION TRENCH DETAILS ANCILLARY DETAILS



#### LEGEND

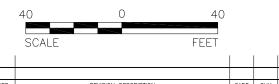


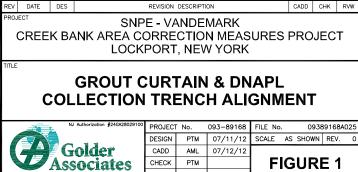
1) TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM SURVEY FILE xve-vandemark base.dwg, DATED 06-21-2010.

2.) TEST PITS SHOWN ON THIS PLAN WHERE TAKEN FROM SURVEY FILE xve-vandemark base.dwg, DATED 06-21-2010.

3.) MAP DIGITIZED FROM HARD COPY OF FIGURE 1 ENTITLED "SITE PLAN," PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

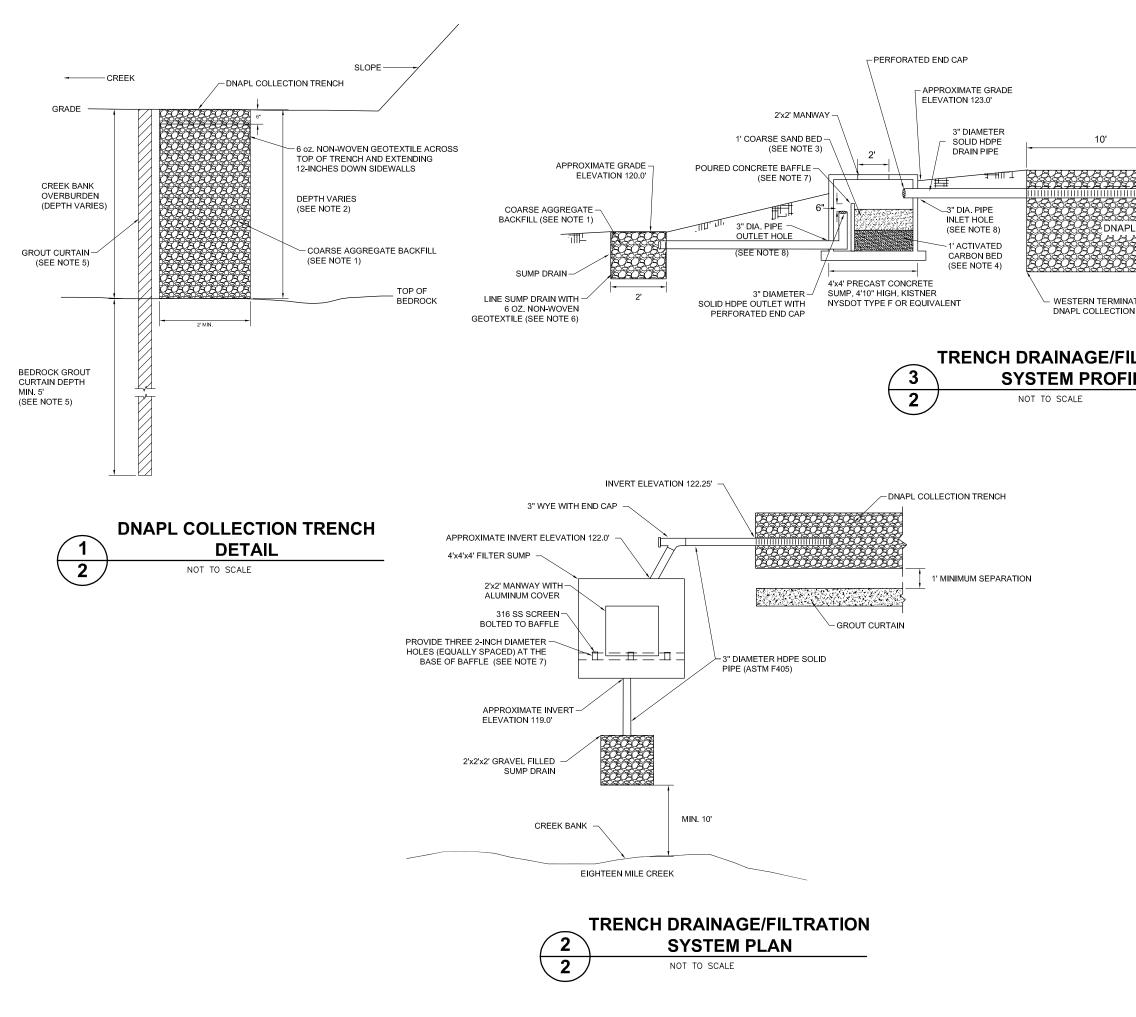
Test Pit No.	Coal Tar Description	Depth to Bedrock
TP-1	SEVERAL 6-INCH COAL TAR CHUNKS OBSERVED	4'
TP-2	NONE PRESENT	3'
TP-3	SEVERAL 6-INCH COAL TAR CHUNKS OBSERVED	5.5'
TP-4	A SMALL NUMBER OF 1-3-INCH TAR BALLS OBSERVED	4.5'
TP-5	SEVERAL FIST SIZE TAR BALLS OBSERVED	4'
TP-6	SEVERAL FIST SIZE TAR BALLS OBSERVED	4.7'
TP-7	SIGNIFICANT QUANTITIES OF TAR OBSERVED (APPROXIMATELY 5-10% OF EXCAVATED MATERIALS)	2.4'
TP-8	SIGNIFICANT QUANTITIES OF TAR OBSERVED (APPROXIMATELY 10% OF EXCAVATED MATERIALS)	3.6'
TP-9	NONE PRESENT	3.2'
TP-10	TAR OBSERVED BETWEEN 5 TO 7 FEET BGS (APPROXIMATELY 2% OF EXCAVATED MATERIALS)	>7'
TP-11	TAR VEIN OBSERVED BETWEEN 5 TO 6 FEET BGS.	>7'
TP-12	SEVERAL TAR BALLS OBSERVED AT TOP OF BEDROCK	5.6'
TP-13	DISPERSE TAR BALLS PRESENT (APPEAR TO BE PART OF NON-NATIVE FILL, NOT FROM FLOW)	>7'
TP-14	NONE PRESENT	6.5'



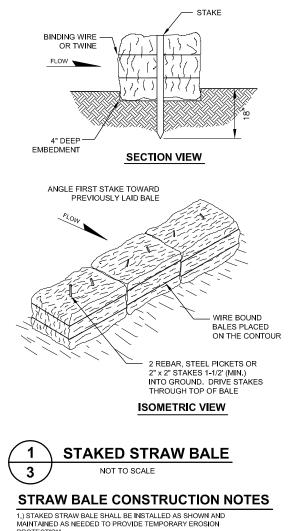


REVIEW DCW

Laurel, New



- 3" DIAMETER HDPE PERFOR DRAIN TILE WITH FILTER SO						
	NOVEN	GEOTE	XTILE (SEE	E NOTE 6	)	
	6"	ł				
COLLECTION TRENCH		DE	EPTH VARI	ES		
<u> </u>						
	RSE AGO FILL (SEE					
LTRATION						
ILE						
NOTES						
<ol> <li>COARSE AGGREGATE FOR THE DNAPL SHALL BE CLEAN (WASHED), SUBROUNDED OTHER DELETERIOUS MATERIAL. COARSE A REQUIREMENTS:</li> </ol>	OR ROU	NDED ST	ONE, FREE	FROM SLA	G, CINDERS C	R
<u>Opening or Sieve Size</u> 1-1/2 Inch			ing by Wei	<u>ght</u>		
1 Inch			100 90–100			
200 CONTRACTOR SHALL SUBMIT CERTIFICATION PERMEABILITY SPECIFICATIONS.	OF COM		0—10 : WITH THE	GRADATIO	N AND	
2.) DNAPL COLLECTION TRENCH WILL EXTE BEDROCK IS DEEPER THAN 5 FEET, TRENC	ND FROM	GRADE	TO THE TO	P OF BEDF AT 5 FEET	ROCK. IF BGS.	
3.) COARSE WASHED SAND MEDIA FOR THI PARTICLE SIZE (D10) OF 0.3 TO 0.5 mm MORE THAN 4% PASSING A 100 MESH SIE'	WITHAU					NO
4.) ACTIVATED CARBON FOR THE DRAINAG EQUIVALENT EXHIBITING A MINIMUM HARDN WITH LESS THAN 4% BY WEIGHT PASSING	ESS OF 9	90, AN I	ODINE NUME			.)
5.) THE OPTIMUM OVERBURDEN AND BEDR ON THE RESULTS OF THE CONTRACTOR'S	OCK GRO	UTING M	ETHODS WIL			D
6.) 6 oz. NON-WOVEN GEOTEXTILE SHALL FABRIC AND HAVE THE FOLLOWING MINIMU	BE NEED	LE PUN				ER
THICKNESS: 80 mm	MPROPE	R IIES:				
TENSILE STRENGTH: 170 lbs/in PUNCTURE STRENGTH: 110 lbs APPARENT OPENING SIZE: 70 (US SIE	EVE)					
7.) CONTRACTOR SHALL FORM AND POUR ONCE THE SUMP IS INSTALLED. THE HEIG INLET AND OUTLET PIPE ELEVATIONS ARE G-INCHES I OWER THAN THE RAFET FHEIGH	SEL IH	E INLEI	OF THE OU	ILE I PIPE	WILL BE	.E
6-INCHES LOWER THAN THE BAFFLE HEIGH HOLES WILL BE PROVIDED AT THE BASE O FITTED WITH 316 SS SCREEN AND SHALL F	F THE BA	AFFLÉ. EVE SIZE	THE INLET 1 40.	TO THE HO	DLES WILL BE	
8.) CONTRACTOR SHALL CUT THE INLET AN FINAL PIPE AND GRADE ELEVATIONS ARE (			S ON THE S	UMP IN TH	HE FIELD ONC	ε
9.) ALL GENERAL FILL OR TOPSOIL IMPORT ECOLOGICAL GUIDANCE VALUES IN APPEND						
REV DATE DES	REVISION	DESCRIPTI	ON		CADD CHK	RVW
PROJECT SI CREEK BANK AREA					ГОТ	
	CORRE			-5 PROJ	ECT	
GROUT CURTAI			APL CO		CTION	
	PROJECT		093-89168	FILE No.	09389168A02	6
Golder	DESIGN	PTM	07/11/12		AS SHOWN REV	
Associates Mt Laurel, New Jersey	CHECK	PTM DCW	,,	FIC	GURE	2



PROTECTION.

2.) STRAW BALES SHALL BE USED TO PROTECT BERM OUTSLOPES DURING STABILIZATION AND OTHER PROJECT AREAS NOT OTHERWISE DRAINING TO A SEDIMENT CONTROL FACILITY.

3.) BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

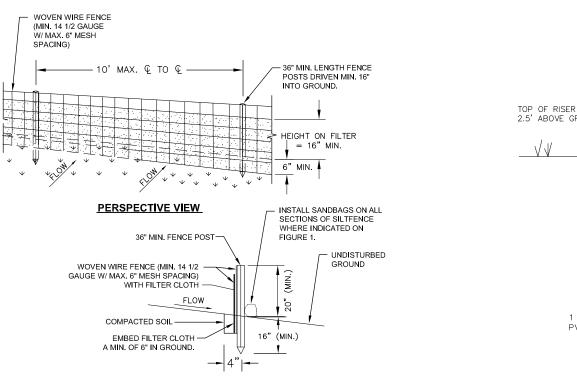
4.) STRAW BALES SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW, ALL EFFORT SHALL BE MADE TO EVENLY AND UNIFORMLY GRADE UPSLOPE AREAS TO PROMOTE OVERLAND SHEET FLOW TO THE BALE LINE.

5.) STRAW BALES SHALL BE INSTALLED ON LEVEL GRADE, WITH END BALES TURNED UPSLOPE SUCH THAT BOTTOM OF BALES IS EQUAL IN ELEVATION TO TOP OF LEVEL PORTION.

6.) REPLACE STRAW BALES EVERY THREE (3) MONTHS, OR SOONER IF DÉTERIORATION PREVENTS PROPER OPERATION.

7.) REMOVE SEDIMENT DEPOSITS WHEN SEDIMENT ACCUMULATES TO 1/3 OF THE ABOVE- GROUND HEIGHT OF THE BALE DIKE.

8.) ANY STRAW BALES WHICH HAVE EITHER BEEN UNDERMINED OR OVERTOPPED MUST BE IMMEDIATELY REPLACED WITH ROCK-FILTER OUTLETS.



#### SECTION VIEW



### CONSTRUCTION SPECIFICATIONS

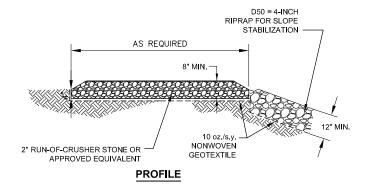
1.) WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL (EITHER "T" OR "U" TYPE) OR HARDWOOD.

2.) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 1/2 GAUGE, 6" MAXIMUM MESH OPENING

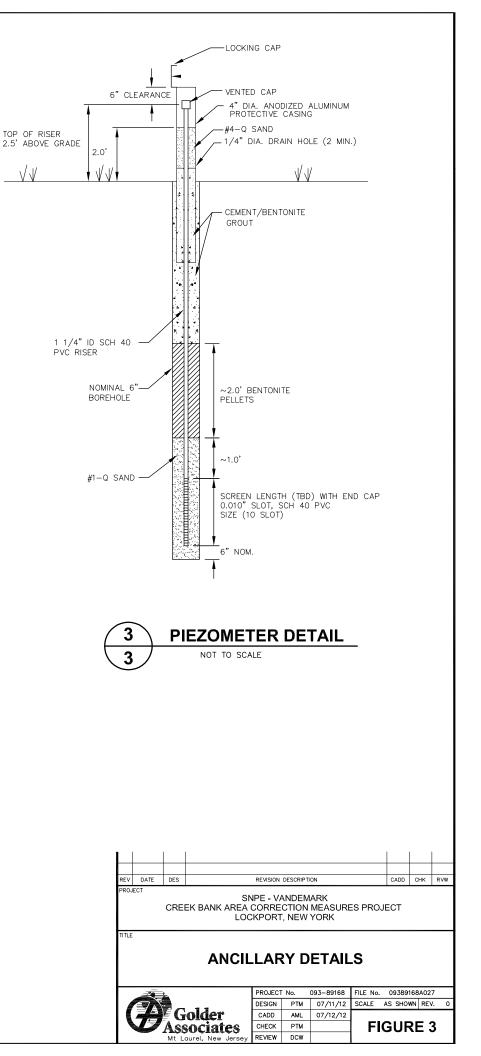
3.) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

4.) PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

5.) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, THE CONTRACTOR IS REQUIRED TO PERFORM AND DOCUMENT DAILY INSPECTIONS OF THE ERROSION AND SEDIMENT CONTROLS.







APPENDIX D

**GOLDER DAILY FIELD OBSERVATION NOTES** 

		SHEET 1 OF 2	have a second	
PROJECT NUMBER				ive Measures -Site No. 932149
OWNER: <u>S</u> LOCATION:	NPE - VanDeMark Chem Lockport, New York			vironmental Serveices
	LOURDUL, NEW IOFK	SUB CONTRACTO	n(o):	· · · · · · · · · · · · · · · · · · ·
	DATE: 9/1	1/12	· · · · · · · · · · · · · · · · · · ·	
	1			
WEATHER:	TEMPERATURE:	LOW: 55	= @ ダシロン ang HIGH	74°F@ 1400m
CLOUD COVER	Ckar	PRECIPITATION	= @ <u>8500</u> am HIGH <u>None</u>	WIND 4 moh SSE
SOLDER PERSU	NNEL ON SITE:			
Anna 1	ma Pat N	Lala		
T / CALON LA	ONSTRUCTION PR			
Sevenson Co	ntinuing to clea	r brush for acces	s road, silt fo	bales assived ONSTR.
AL 15750.5	evensor completi	1 silt Fence ins	talktion, 1530, hay	bales arrived onsite
H (1		м · · · · · )	. ' '	(J)
Everyone OT	rsite at 160	,		
•				
•				
GOLDER ACTIV	TIES AND TEST RE	SULTS:		
OLDER ACTIV	TIES AND TEST RE	SULTS:		
OLDER ACTIV	TIES AND TEST RE	SULTS:		
GOLDER ACTIV	TIES AND TEST RE	SULTS:		
GOLDER ACTIVI	TIES AND TEST RE	SULTS:	 	
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OLDER ACTIV	TIES AND TEST RE	SULTS:		
OLDER ACTIV	TIES AND TEST RE	SULTS:		
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OLDER ACTIV	TIES AND TEST RE	SULTS:		
OLDER ACTIV	TIES AND TEST RE	SULTS:	· · · · · · · · · · · · · · · · · · ·	
OLDER ACTIV	TIES AND TEST RE	SULTS:	· · · · · · · · · · · · · · · · · · ·	
OLDER ACTIV	TIES AND TEST RE	SULTS:	· · · · · · · · · · · · · · · · · · ·	
OLDER ACTIV	TIES AND TEST RE	SULTS:	· · · · · · · · · · · · · · · · · · ·	
OLDER ACTIV	TIES AND TEST RE	SULTS:	· · · · · · · · · · · · · · · · · · ·	
		SULTS:		
	TIES AND TEST RE	SULTS:	SI	JBMITTED BY: Large

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(JANUARY 2005)

	FIELD MO	NITORING SU	MMARY			
2 DDATECT MUMDED. 00	3-89168	SHEET 2 OF 2 PROJECT TITLE	Creek Bank Corr	ective Measures -Site I	No. 932149	
PROJECT NUMBER: 09 OWNER: SNPE - VanDeM		CONTRACTOR:	Sevenson En	vironmental Services,	INC.	
LOCATION: Lockport, N		SUB CONTRACTOR(S):				r.M
	Chi lia	` -				1. J.
DATE:	9/4/12					
SUMMARY OF SURVEYOR	<u>S ACTIVITIES</u>			· · · ·	·	7
None						
		•				
				•		
				····		
SUMMARY OF PROBLEMS	AND RESOLU	TIONS:				_
110						
None						
<del>1</del> 3 1-						
	AND DISCUSS	IONE HELD (ATTEND	THE AND ISS			
SUMMARY OF MEETINGS A water standpipe was the City of Lockport	discover al	long the access pat	4. $P_a + will$	Confact Var	Demark and	<b>一 1</b> 225
the CI CI CI I d	+ determine	f This line is	still active.	-		
The City of Lockpoint	pacient					
SUMMARY OF INCIDENTS	/ ACCIDENTS	/ HEALTH AND SAFE	TY ISSUES:		· · · · · · · · · · · · · · · · · · ·	
					· · · · · · · · · · · · · · · · · · ·	
None						
					· · · · · · · · · · · · · · · · · · ·	
				SUBVIITTED	BY:	
. ·		-		Un	2	
GOLDER FORM: G5-0699						
(JANUARY 2005)	COL	DER ASSOCIATES II	NC			
	GULI	der abduciated II				
						$\mathbf{J} = \mathbf{V}_{i}^{(i)}$
						1

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ER: 093-89168	SHEET 1 OF 2			
	PROJECT TITLE:	Creek Bank Correct	ive Measures -Site No. 932149	
SNPE - VanDeMark Chemical Lockport, New York	CONTRACTOR:	Sevenson En	vironmental Serveices	
Lockport, New York	SUB CONTRACTOR(S):			•
date: $9/1$ .	2/12		· · · · · · · · · · · · · · · · · · ·	
TEMPERATURE:	LOW: <u>55</u> @	0800 HIGH	82 a 1430	
NONE	PRECIPITATION	NONE	WIND	
SONNEL ON SITE:				
	1645)			
F CONSTRUCTION PROC	RESS		<u> </u>	
APIRO LOCAT	FORTH FOR P	CACKMENT		
O.C STONE ON	· ~ /13 ; 12/1	7		:
. ··				
<b>.</b>				
	TEMPERATURE: <u>NONEL</u> SONNEL ON SITE: 27TN (1415 - F CONSTRUCTION PROC VELETATION C VELETATION C ENSON COMPLE LAS AND SAM LAS AND SAM LAS AND SAM	TEMPERATURE: LOW: <u>55</u> <u>NONEL ON SITE:</u> 27TN (1415 - 1645) F CONSTRUCTION PROGRESS: VECETATION CLEANING HAS N ENSON CUMPLETED INSTALLY LAS AND SAND TAK EMOSI CUMPLETED LOCATTONS PARING ACCESS PATTH FOR P	TEMPERATURE: LOW: <u>55</u> <u>@ 0800</u> HIGH <u>NONE</u> PRECIPITATION <u>NONE</u> SONNEL ON SITE: 27TN ( <b>14</b> 15 - 1645) F CONSTRUCTION PROGRESS: VELEPATION CLEARING HAS BEEN COMPLEX ENSON COMPLETED INSTRUMPTON OF 3. 245 AND SAND TAK EROSION CONTRE	Image:

GOLDER ACTIVITIES AND TEST RESULTS:



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

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PROJECT NUMBER:       093-89168       SHEET 2 OF 2         OWNER:       SNPE - VanDeMark Chemical       PROJECT TITLE:       Creek Bank Corrective Measures - Site No. 932149         LOCATION:       Lockport, New York       SUB CONTRACTOR(S):       Sevenson Environmental Services, INC.	
OWNER: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Services, INC.	
	-
LOCATION: Lockport, New York SUB CONTRACTOR(S):	-
	- 4
	-
DATE: $9/12/12$	
SUMMARY OF SURVEYOR'S ACTIVITIES:	
N/IA	
SUMMARY OF PROBLEMS AND RESOLUTIONS:	
NONE	
SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):	
- REVIENTED SCHEAULE WITH PAUL GALLO (PROJELT SUPERINGTED) TOMINATIONS FROM PLANNED SCHEAULE. THEY WILL INITATE TAN EXCANATIONS IN LOWER CARER BANK AMER EARLY NEX	TIM I
- REVIENTED SCHEADLE WITH PAUL GATIO (PROJEC) SUPERING	
	COAL
The inflows man por any score . The	_
I THE THE TAKEN BANK ANER EARLY NEN	T WEEK
TAR Excavations in connection of p	
SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:	
NONK	
·	
SUBMITTED BY:	
SUBMITTED BY:	<b></b>
Janua 1 Toluna	·
GOLDER FORM: G5-0699	
(JANUARY 2005)	

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	FIELD	MONITORING S	UMMARY	
PROJECT NUMI OWNER: LOCATION:	BER: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):		ive Measures -Site No. 932149 vironmental Serveices
LUCATION	DATE: <b>9/</b> /3			
WEA THER: CLOUD COVER	TEMPERATURE: None	LOW: <u>60</u> PRECIPITATION	0800 HIGH NENE	82 @ 1415 WIND LIGHT
GOLDER PER	RSONNEL ON SITE:	1430)		· · · · · · · · · · · · · · · · · · ·
	F CONSTRUCTION PROG			
Appa Elose (Néan	OF FORMER NO OF FORMER NO EASTERN TERMIN	465 OF 2" R. 10 NTH TRANSIT R 105 OF PROPOSED	N OF CRUSHE O TO OLD DNAPL . TRANC	WATER PUMP STATION
			UEST - MAT	CUPATION COMPLETION
	nong Monnows uson plannae Ton residues will lay Don		ANCA TO SP NO, NEAN 177115 AND	COVER AT END OF
DA				

GOLDER ACTIVITIES AND TEST RESULTS:



**SUBMITTED BY:** 

GOLDER FORM; R4-0699 (JANUARY 2005)

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	FIELD MC	DNITORING SU	MMARY
		SHEET 2 OF 2	
PROJECT NUMBER:	093-89168	PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 932149
OWNER: SN	PE - VanDeMark Chemical	CONTRACTOR:	Sevenson Environmental Services, INC.
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):	
SUMMARY OF S	DATE: 9/13/17 URVEYOR'S ACTIVITIES	<u>-</u>	· · · · · · · · · · · · · · · · · · ·
NIA			
			τ

### SUMMARY OF PROBLEMS AND RESOLUTIONS:

0	CITY OF LOCKPORT WATER DEPARTMENT PERSONNEL WERE CALLED BY P. MANTIN ON 9/11/12 TO DISCUSS DISCOVERY OF A WATER VALVE SUSPERTED
	BOX NEAR OLD PUMP STATION STRUCTURE. WATER DEPARTMENT STAFF VISITED SITE ON 9/12/12 AND INDICATED IT MILITE BE A BRANCH LINE TO PUMP STATION FROM WATER MANN THAT CROSSES CREEK FURTHER EAST.
•	DISCUSSED WITH PAUL GALLO AND HE WILL THEAT VALVE AS POTENTIALS ACTUE AND PROTECT FURING WORK - IT IS LOCAPTED AT EASTERN TERMINUS OF TRENCH TAND SHOULD NOT INTERFERE WITH INSTALLATION.
SUM	IMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):
	MET W/STAN RADON MIKE HINTON (NYSDEC) AND PAUL AMPEIS, CHIS BAWACH AND ANIELA MUIR (VOM) TO REVIEW PROTECT STATUS/SCHEROULE.
	IT WAS ACREED THAT prostect STATUS MEETINGS WILL BE HED EVENY THURSDAY AT 9:30 AM AT THE SITE, FREQUENCY MAY BE DECREASED IF WORK PROPHESS WAREAUTS LESS PREQUENT MEETINGS.

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

NONE

SUBMITTED BY:

GOLDER FORM: G5-0699 (JANUARY 2005)

	FIELD N	MONITORING SU	MMARY	
PROJECT NUMBER:	· · · · · · · · · · · · · · · · · · ·	SHEET 1 OF 2 PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 932149	-
OWNER:	IPE - VanDeMark Chemical Lockport, New York	CONTRACTOR:	Sevenson Environmental Serveices	-
	date: 9/17/	/2	······	-
WEATHER: CLOUD COVER	темрегатиге: 65°F Доле	LOW: <u>56</u> @( PRECIPITATION	800 нісн <u>73</u> <i>1600</i> <i>Коле</i> WIND <i>1776</i>	•
GOLDER PERSO	NNEL ON SITE:	10-1730)		
SUMMARY OF C	ONSTRUCTION PROGR			
Agmill wate area fined Have not n directly into	er scap was encou with Geosynthetic rected to pump dump truck	on upgradient any upfer yet	ten terminus Balroch Reached : built a small setting contain m side of my bales and sittle Excumted fill is being load on poly at the staging a	nce, nd nea.
0950: Coal ta 30'-36' fr	on western trene	the end, 3 4-5'	lown, + 2 6-8" Thick	~ Trem
1200: 22 Ce 25.2Ft wide	, ~ 4 Ft down,		from end of trench (26")	hizk,
1		5 Fill trench	art 100-200 pai	llons
1245: started	dewatering the slurry truck f	iench west of M Mina trench	arge rock, = 100-200 per	•
1233: A= 1400: The	5 loads of ex	carated Fill ha	s been covered in poly for s	Horge.
Cont. GOLDER-ACTIVI	THES AND TEST RESUL	TS:		
1440: 3rd S	lusy truck filling	trench.		
1510: 473	Shirny touck			
1530: 5th 1455: 6th	lung touck filling Sherry touck Sherry truck Sherry truck			
Gal	lder		SUBMITTED BY:	

GOLDER ASSOCIATES INC.

GOLDER FORM: R4-0699 (JANUARY 2005) .

FIELD MONITORING	SUMMARY
SHEET 2 OF 2	
	LE: Creek Bank Corrective Measures -Site No. 932149 DR: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York SUB CONTRACTOR	
	(
DATE: $0/17/12$	
SUMMARY OF SURVEYOR'S ACTIVITIES:	· ·
None	
SUMMARY OF PROBLEMS AND RESOLUTIONS:	· · · · · · · · · · · · · · · · · · ·
None	
SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTI Met with Mike Anton of DEC. No in A. Large met with Chris B & Angela (M will be a drill of emerging response	ENDEES AND ISSUES):
met with the train of DEC. No a	and the second sec
A Lange met with Chris B & Angela (	huir (UDM) no 135415 Norell, mere
will be a drill of emergincy response	An Thursday.
	/
SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SA	AFETY ISSUES:
Remind people to stay away from the	nches as the Soil is Very unstable
	·
·	
	SUBMITTED BY
	Man for
GOLDER FORM; G5-0699 (JANUARY 2005)	
GOLDER ASSOCIATE	S INC.

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PROJECT NUM	FIELD	MONITORING SU SHEET 1 OF 2	JMMARY
	BER: 093-89168	-	Creek Bank Corrective Measures -Site No. 932149
OWNER:	SNPE - VanDeMark Chemical	CONTRACTOR:	
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):	
LOCATION:	Lockpoil, New Tork		
	DATE: 9/14	/12	
WEATHER:	TEMPERATURE:	LOW: <u>65°F</u> @ <u>(</u>	<b>777) нісн</b> @
CLOUD COVER		PRECIPITATION	Iraht cain WIND calm
01002 00121			Mar Cull
GOLDER PE	RSONNEL ON SITE:		
Aaror	$\frac{1}{2} \frac{1}{2} \frac{1}$	15 - 1430)	
- 48' 0'830- CO Seam 04 <b>45</b> - C	of trench complete al tar vein reached	Led 9/17/12. (+ at 62'-7 66' & treach. . 33' of treach, "	7/12 pour is salid. Ahroughout tounch line making it rench #1) ast of tounch end, 24-8" Thick. Trench depth varies from 25' at

GOLDER ACTIVITIES AND TEST RESULTS: 1200: 3ª frick 1220: yrk frick 1240: 5th truck 1405: 6th truck. 1430: off-site



GOLDER FORM: R4-0699 (JANUARY 2005)

SUBMITTED BY: age

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F	IELD MONITORING SU	UMMARY
	SHEET 2 OF 2	
ROJECT NUMBER: 093-	89168 PROJECT TITLE	C: Creek Bank Corrective Measures -Site No. 932149
WNER: SNPE - VanDeMar		
OCATION: Lockport, New		
DATE:	0/10/11	
	9/18/12	
UMMARY OF SURVEYOR'S	ACTIVITIES:	
NO1C		
	NO REGOLIEIONO.	
JMMARY OF PROBLEMS A	ND RESOLUTIONS:	
Vone		
UUNE		
UMMARY OF MEETINGS A	ND DISCUSSIONS HELD (ATTEN	<b>IDEES AND ISSUES):</b>
Nore		
		· · · · · · · · · · · · · · · · · · ·
UMMARY OF INCIDENTS /	ACCIDENTS / HEALTH AND SAF	SETY ISSUES:
Nene	-	·· · · · · · · · · · · · · · · · · · ·
······································	And the state of t	
		SUBMITTED BY:
		Als fine
LDER FORM: G5-0699		
NUARY 2005)		<b>D</b> IO
	GOLDER ASSOCIATES	INC.
	·	

	FIELD MO	SHEET 1 OF 2	MMARY
PROJECT NUMBER	:093-89168	PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 932149
OWNER: <u>SI</u> LOCATION:	NPE - VanDeMark Chemical Lockport, New York	CONTRACTOR: SUB CONTRACTOR(S):	Sevenson Environmental Serveices
LOCATION:	Lockport, New Tork		
	date: 9/19/12		
WEATHER: CLOUD COVER	темрегатиге: LO <u>Лопе</u> рр	w: <u>45°F</u> @( recipitation	$\frac{60^{\circ}F}{WIND} = \frac{1400}{Ca/m}$
GOLDER PERSC	NNEL ON SITE:		
ALance	(0715-1430	)	
SUMMARY OF C	CONSTRUCTION PROGRES		
· · · ·			
OBIS: Seus	nson is taking con	aposite samples	east end Of Hrench #2 for o beam appears to flow around Ve for slurry Trench. of The stockpill fill for w
profiling	4		
0945: fill bdock clong on each to ban	becoming more unifor Varies between 5-7 linear trench center. Side. Coal for exter & stability and tren	ing and easier to ft bys. The L Coal tax surrunds closer to c ch depth.	excavate, From 2 89' to 130' lesy large rock is from 80' to g ading the large rock extends a 2 reek, unable to fully remove fu
1000: Another from 1" to and most	Coal for seam enco 10" in places. All appears to continue	tar appears to s towards the cri	esituated directly on top of b.
www.fngh	d excavating trench	#3. All 3 trenche	now total \$ 158' From western ter
Treach #3	\$ 78' from ead or	F Treach #2 R	edruck from 130' to 158' yets
	3 - 70 1177 - 118		earce Film 130 70 70 5 5
GOLDER ACTIV	ITIES AND TEST RESULTS	÷ ?	
progressive	y deeper from as	to xil'bys.	
		Ũ	. /
	s lurry truck filling	mench them cust	Enon-
	slurry truck		
1330: chris	+ Angela (VDM) and	Stan + Peter G	usso (DEC) onsite
wast:	19 for shurry to fir	mup a little l	efore emplying 3th fruck.
1420: 4TA +	welt	- 1	-
1520: 5 TL	truck .	<u> </u>	
1630: 5R Thus all	truck finished pour wing if to be stacks	, by, pouring done d.	in stages to allow sturry to
	<u></u>	· · · · · · · · · · · · · · · · · · ·	SUBMITTED BY:
	Idan		

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MC	DNITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York	SUB CONTRACTOR(S):
Charles	
DATE: $7//9//2$	
SUMMARY OF SURVEYOR'S ACTIVITIES	<u>S:</u>
64-	
Nere	
CUMMADY OF BOOD FMC AND DECOLU	TTIONS.
SUMMARY OF PROBLEMS AND RESOLU	110NS;
None	
SUMMARY OF MEETINGS AND DISCUSS	IONS HELD (ATTENDEES AND ISSUES):
- Stan + Peter (DEC) Onsite at	1330, No issues noted, meeting on Thursday
will be at 10:00am	
	. /
-chris + Angela onsite at 13	30. No issues noted.
- V	
	·
	х
SUMMARY OF INCIDENTS / ACCIDENTS	/ HEALTH AND SAFETY ISSUES:
114 .	
None	
	-
	SEBMITTED BY:
GOLDER FORM: G5-0699	
(JANUARY 2005)	

GOLDER ASSOCIATES INC.

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PROJECT NUMB	• ·	MONITORING SUMMARY SHEET 1 OF 2 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER:	SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Servcices
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):
	DATE: С//ДС	0/12
WEATHER: CLOUD COVER	remperature:	LOW: $\frac{1}{16}$ @ $\frac{07}{5}$ HIGH $\frac{7}{6}$ @ $\frac{1300}{1764}$ PRECIPITATION $\frac{100}{1764}$ WIND $\frac{1300}{1764}$
CLOUD COVER		
GOLDER PER	SONNEL ON SITE:	·
Aaron 1	ange (0715-	150)
	CONSTRUCTION PROG	GRESS:
6900: co stone he 09/5: The	Hinning French east d topphed over the trench has reached	t. Repaired some sections of the erosien control where silt fence. Ind the stone structure. Stone wall located
betwee	A 170' +0 1 & 14' west of	180' from start, of trench Depth to Wall and x 1576 east of wall x 1'Rick &
for tre	nch #4 % 40'	Large scam of coal tar on east side of wall of l'Rick 2
1200: to	tal trunch length	2 198'.
1210= 1	# tack filling 7	Hench
1830 = R <sup>2</sup>	fruck.	
1300: 30	truck	
(355. 4 <sup>1</sup>	- truck	
1440: 51	1 truck	

GOLDER ACTIVITIES AND TEST RESULTS:



SUBMITTED BY: Jaron Lange

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MONIT		MMARY	
	IEET 2 OF 2		
PROJECT NUMBER: 093-89168 OWNER: SNPE - VanDeMark Chemical	CONTRACTOR:	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.	
	CONTRACTOR(S):	Sevenson Environmental out reedy at ev	
			()
DATE: $9/20/12$			
SUMMARY OF SURVEYOR'S ACTIVITIES:			
None			
IVURE			
CUMARA DY OF DRODT FMC AND DECOLUTION	Β.		
SUMMARY OF PROBLEMS AND RESOLUTIONS	5:		
None			
SUMMARY OF MEETINGS AND DISCUSSIONS	HELD (ATTEND	FFS AND ISSUES).	]
SUMMARY OF MEETINGS AND DISCUSSIONS 1000: meeting with Stan, Mike, Dennis (D Pat. Discussed Schedule / progress. DEC of stone Structure. Requisted that i other issues noted	DEC Angly	(VDM), Paul (Coursen) and Aaron, and	$\overline{\Box}$
1000. meeting with spanping DEC	noted cool	the service form of the th	
rat. Discussed schaule propess. Of	this motional 1	he remain the head the	
OF STONE Structure. Requisted multi		R Removed proven the park, wo	
other issues noted			
		·	
SUMMARY OF INCIDENTS / ACCIDENTS / HEA	LTH AND SAFE	TY ISSUES:	
None			
			ł
		SLADUITTED EV.	
• <u>.</u>		SUBMITTED BY:	
	-	gr	
GOLDER FORM; 05-0699			
(JANUARY 2005)	ASSOCIATES IN	IC.	

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	FIELD MONITORING SUMMARY
	SHEET 1 OF 2         PROJECT NUMBER:       093-89168         OWNER:       SNPE - VanDeMark Chemical         LOCATION:       Lockport, New York    SHEET 1 OF 2        PROJECT TITLE:    Creek Bank Corrective Measures -Site No. 932149        SUB CONTRACTOR:    SUB CONTRACTOR(S):
)	DATE: $\frac{q/2}{1/2}$
	weather: TEMPERATURE: LOW: <u>Collection</u> <u>Overaist</u> LOW: <u>Collection</u> <u>None</u> WIND <u>Inght</u>
	GOLDER PERSONNEL ON SITE:
	A. Larye (0700-1400)
	SUMMARY OF CONSTRUCTION PROGRESS:
	0700: Sevenson continuing trench east from 2198'. 0800: More coal for from 2200' to 230' 2 6" to 1.5' thick a ste down.
	0430: Trench now extends to 2230', today's trench 236'
	1020: 1st truck filling trench 1035: 2nd Hack
	1045: 3rd truck
	1000- 4Th fruck
	112: 5th truck 1123: 6th truck
	1123: On track
	1135: 7th truck 1330: 8th truck
	1330- 6 Macr
	· · ·



GOLDER FORM: R4-0699 (JANUARY 2005)

SUBMITTED BY: Haren Lanye ł

FIELD MC	DNITORING SUMMARY
PROJECT NUMBER:     093-89168       OWNER:     SNPE - VanDeMark Chemical       LOCATION:     Lockport, New York	SHEET 2 OF 2         PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         CONTRACTOR:       Sevenson Environmental Services, INC.         SUB CONTRACTOR(S):       CONTRACTOR(S):
DATE: 9/21 SUMMARY OF SURVEYOR'S ACTIVITIE	/12 S:
None	
SUMMARY OF PROBLEMS AND RESOLU	JTIONS:
None	
SUMMARY OF MEETINGS AND DISCUSS A. Lange discovered a 4" PVC apparent path of the pipe closse contacted P. Martin and Chris ( overflow pipe for a former pump upstream, Pat will be onsit	pipe with water flow poing into creek the is the trench the west of today's trench. A. Lange 3. (VDM). Chitis informed us that the pipe is an in what that is fed from an inket pipe further a monday to discuss options.
SUMMARY OF INCIDENTS / ACCIDENTS	/ HEALTH AND SAFETY ISSUES:
None	
GOLDER FORM: G5-0699	SUBMITTED BY:
(JANUARY 2005)	DER ASSOCIATES INC.
	(

	FIELD	MONITORING SU	UMMARY
PROJECT NUMB OWNER: LOCATION:	ER: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Serveices
	DATE: 9/24/	112	
WÉATHER: CLOUD COVER	temperature: Noge	low: <u>40°F</u> @_ precipitation	<u>0715 HIGH</u> <u>60°F</u> <u>1330</u> <u>None</u> WIND <u>1347</u>
GOLDER PERS	SONNEL ON SITE:		· · · · · · · · · · · · · · · · · · ·
A. La	190 (0700-14	15)	
SUMMARY OF	CONSTRUCTION PROG	RESS:	
0815: tro ~ 1'-2	" thick a 6	6', coal tar co. -7' bys, Depth	tinued along Theteryth of trench to beoliock 2 12',
0830 P for disc block 1 Van H. block thesmo fix.	, Martin, Chits hasyc pipe from Re Water flow The large Vault Il vault outlet b	B., & Angela M (U Vault, unconversed from The sman was able to be able to fil	DM) onsite discussing options both vaults increadle to Il eastern vault to the larger drain out Severson will Il with concrete as a perminent
1045: Mik	e H. + Stan R.	(DEC) onsite.	
1115 : DE	c offsite, no	issues noted,	
1150: 15	+ truck		

1202: 2nd, truck 1215: 3rd Hruck 1235: 4R truck 1235: Small Vault pluged and filled half way with Slurry. 5 th truck. 1248: Small vault filled to top with slurry. All water has stoped flowing out of overflow pipe.



SUBMITTED BY: Haron Large

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD M	ONITORING SUMMARY	
	SHEET 2 OF 2 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149	
PROJECT NUMBER: 093-89168 OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Services, INC.	
LOCATION: Lockport, New York	SUB CONTRACTOR(S):	
LOCATION: Lockpoil, New Tork	305 CONTRACTOR(5).	- (
Q Q I		Ľ
date: $9/24/1$		
SUMMARY OF SURVEYOR'S ACTIVITIE	S:	
11		
None		
SUMMARY OF PROBLEMS AND RESOL	UTIONS:	
None		
· ·	· ·	
SUMMARY OF MEETINGS AND DISCUS	SIONS HELD (ATTENDEES AND ISSUES):	
	SIONS HELD (ATTENDEES AND ISSUES):	(
	SIONS HELD (ATTENDEES AND ISSUES):	(
SUMMARY OF MEETINGS AND DISCUS	SIONS HELD (ATTENDEES AND ISSUES):	(
	SIONS HELD (ATTENDEES AND ISSUES):	(
	SIONS HELD (ATTENDEES AND ASSUES):	(
	SIONS HELD (ATTENDEES AND ISSUES):	(
	SIONS HELD (ATTENDEES AND ISSUES):	(
	SIONS HELD (ATTENDEES AND ISSUES):	(
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υσης SUMMARY OF INCIDENTS / ACCIDENT		(
υσης SUMMARY OF INCIDENTS / ACCIDENT		(
υσης SUMMARY OF INCIDENTS / ACCIDENT	S / HEALTH AND SAFETY ISSUES:	
υσης SUMMARY OF INCIDENTS / ACCIDENT		
υσης SUMMARY OF INCIDENTS / ACCIDENT	S / HEALTH AND SAFETY ISSUES:	
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DOAL SUMMARY OF INCIDENTS / ACCIDENT No AL GOLDER FORM: G5-0699 (JANUARY 2005)	S / HEALTH AND SAFETY ISSUES: SUBMITTED BY:	
DOAL SUMMARY OF INCIDENTS / ACCIDENT No AL GOLDER FORM: G5-0699 (JANUARY 2005)	S / HEALTH AND SAFETY ISSUES:	
DOAL SUMMARY OF INCIDENTS / ACCIDENT No AL GOLDER FORM: G5-0699 (JANUARY 2005)	S / HEALTH AND SAFETY ISSUES: SUBMITTED BY:	
DOAL SUMMARY OF INCIDENTS / ACCIDENT No AL GOLDER FORM: G5-0699 (JANUARY 2005)	S / HEALTH AND SAFETY ISSUES: SUBMITTED BY:	

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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical **OWNER:** CONTRACTOR: Sevenson Environmental Services LOCATION: Lockport, New York SUB CONTRACTOR(S): 9/25/12 DATE: LOW:  $57^{\circ}F = 0730$  HIGH  $68^{4}F = 1315$ PRECIPITATION <u>NOAL</u> WIND <u>Alm</u> WEATHER: TEMPERATURE: Partly dauly CLOUD COVER **GOLDER PERSONNEL ON SITE:** 0715-1615 SUMMARY OF CONSTRUCTION PROGRES 075: continuing trench east for a 246' 0810: overflow pipe from large vault cut by excavator, the ceek and has been capped. No caltar present from 2 260' joint east. 1030: Stan R and Ken (DEC) onsite 120: DEC offsite. No issues noted 1245: sevenson stopped dizing trench at 2289'. A large rock and timber located at bottom of trench from 2248'- 255' will need to be grouted at bedrock 212' down 1345: 1 = truck of themable fill filling trench 1357: 2nd truck 1411: 3d truck 4th truc 1419:

1431 = 5 1440 = 0 1450:	TR tru ER tru 7ª tru	ick ick
1515 = 1527 :	81 +	ruck Guck
1540: 1600:	10th	fruck fruck
1608:	i2 <sup>R</sup>	truck



GOLDER FORM: R4-0699 (JANUARY 2005)

SUBMITTED BY:

FIELD MO	DNITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168 OWNER: SNPE - VanDeMark Chemical	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 CONTRACTOR: Sevenson Environmental Services, INC.
OWNER: <u>SNPE - VanDeMark Chemical</u> LOCATION: Lockport, New York	SUB CONTRACTOR(S):
DATE: 9/25-11	8
SUMMARY OF SURVEYOR'S ACTIVITIE	
SUMMART OF SURVEYOR'S ACTIVITIE	5.
t o	
None	
SUMMARY OF PROBLEMS AND RESOLU	JTIONS:
None	
	NONG HER D. (A TEREDERED AND ROUTED).
SUMMARY OF MEETINGS AND DISCUSS	SIONS HELD (ATTENDEES AND ISSUES):
None	
None	
SUMMARY OF INCIDENTS / ACCIDENTS	A HEAT TH AND SAFETY ISSUES.
	7 HEALTH AND SAFETT ISSUES:
None	
	SUBMITTED BY:
GOLDER FORM: G5-0699	
(JANUARY 2005)	
GOL	DER ASSOCIATES INC.

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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical OWNER: CONTRACTOR: Sevenson Environmental Services Lockport, New York SUB CONTRACTOR(S): LOCATION: 12 DATE: hler LOW:  $6/^{\circ}F = 0.7/5$  High  $65^{\circ}F = 1200$ PRECIPITATION 1.344 m/ WIND Ca/mTEMPERATURE: OVErcast WEATHER: LOW: CLOUD COVER **GOLDER PERSONNEL ON SITE:** (0715-1215 taron Large SUMMARY OF CONSPRUCTION PROGRESS: 0715. continuing trench at & 281' yoing west. 0845: trench now at 2 300'. No coal far observed during today's excavation. Bedrock = 14' bgs. 0930: R. Marchese onsite to perform crossion control inspection. No Essues noted 1025: 1st truck filling trench 1038: 2nd truck 1057: 3ª fruck. 1116: 4th truck. Mick is onsite taking samples of the slarry for permubility desting. 1135: 513 truck



SUBMITTED BY

GOLDER FORM: R4-0699 (JANUARY 2005)

	FIELD M	ONITORING SU	MMARY	
		SHEET 2 OF 2		
PROJECT NUM			Creek Bank Corrective Measures -Site No. 932149	
OWNER:	SNPE - VanDeMark Chemical	CONTRACTOR:	Sevenson Environmental Services, INC.	
LOCATION: -	Lockport, New York	SUB CONTRACTOR(S):		$\bigcap$
	place 1			U.
	DATE: $(26/)$	2		
SUMMARY O	OF SURVEYOR'S ACTIVITIE	ES:		
None				
			· •	
L				
SUMMARY (	OF PROBLEMS AND RESOL	UTIONS:		
None				
SUMMARY (	OF MEETINGS AND DISCUS	SIONS HELD (ATTEND	DEES AND ISSUES):	
None				
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SUMMADY (	OF INCIDENTS / ACCIDENT	S / UFAT TU AND SAFE	TV ISSUES.	ł
	OF INCIDENTS / ACCIDENT	STHEALTH AND SAFE		
None				
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			SUDMPTTED NV.	
			SUBMITTED BY:	
		•	- mm	<u> </u>
GOLDER FORM: G5-0699	9			
(JANUARY 2005)	5.			
	GOI	LDER ASSOCIATES I	NC.	
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	FIELD	MONITORING SUI	MMARY
PROJECT NUMI OWNER: LOCATION:	BER: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Servcices
	DATE:	7/12	
WEATHER: CLOUD COVER	temperature: No <u>1e</u>	LOW: <u>46°F @ C</u> PRECIPITATION	DOCHIGH None WIND Calm
GOLDER PER	SONNEL ON SITE:		
A.L	unge (0700	- 1400)	
SUMMARY O	F CONSTRUCTION PROG	RESS:	
1000: Ра мее 124/5: 1 1322: д		R (DEC) Chris ; start growting or	inch und clean out all fill dams my cach pour. B, Paul A. (VDM) onsite for Monday. No issues noted



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MONITORING S	UMMARY
SHEET 2 OF 2	Curry Dr. & Competing Manager Site No. 022140
-	C: <u>Creek Bank Corrective Measures -Site No. 932149</u> C: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York SUB CONTRACTOR(S)	
date: $\frac{9}{27}/2$	
SUMMARY OF SURVEYOR'S ACTIVITIES:	
N . 08	
None	
SUMMARY OF PROBLEMS AND RESOLUTIONS:	
None	
SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTEN	(DEES AND ISSUES):
growting may start Morday. Friday will Monday. No issues noted. Stan R. (DE Aaron L. (Golder) attended and Paul G.	only be site cleanup and prep. for
is que a tul Star R. (DE	C) Chris B+ Paul A (VDM) PatMA
Monary No tracs pores	
Haron L. (bolder) alteraced and the D.	(Seucason)
SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAI	TETY ISSUES:
None	
<u></u>	
	SUBMITTEPRV
	William DI.
COLINER FORMS CF 0200	
GOLDER FORM: G5-0699	
GOLDER ASSOCIATES	INC.

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PROJECT NUMBER OWNER: <u>SI</u> LOCATION:	SHEET 1 OF 2         :       093-89168         PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         NPE - VanDeMark Chemical       CONTRACTOR:         Lockport, New York       SUB CONTRACTOR(S):
	DATE: $10/1/12$
WEATHER: CLOUD COVER	TEMPERATURE: LOW: $50^{\circ}$ F @ 0700 High <u>62°</u> F @ 1400 Nonc Precipitation <u>Nonc</u> Wind <u>Calm</u>
GOLDER PERSO	NNEL ON SITE:
Aaron	Lange (0700 - 1430)
	CONSTRUCTION PROGRESS:
4200 Drill	and excavator set is to start duilling tomorrow.
120-	



SUBMITTED BY: 4

GOLDER FORM: R4-0699 (JANUARY 2005)

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	SHEET 2 OF 2	
ROJECT NUMBER: 093-89168 WNER: SNPE • VanDeMark Chemic	PROJECT TITLE:         Creek Bank Corrective Measures -Site No. 932149           cal         CONTRACTOR:         Sevenson Environmental Services, INC.	
WNER: <u>SNPE · VanDeMark Chemic</u> OCATION: Lockport, New York	SUB CONTRACTOR(S):	
DATE: $\left[ \begin{array}{c} 0 \end{array} \right]$	1/12	
UMMARY OF SURVEYOR'S ACTIV	/ITIES:	
None		
		نـــــــ
UMMARY OF PROBLEMS AND RES Wore	SOLUTIONS:	
ivent		
	· · ·	
LIMMARY OF MEETINGS AND DIS	CUSSIONS HELD (ATTENDEES AND ISSUES):	
Non		
-		
.**		
	ENTS / HEALTH AND SAFETY ISSUES:	
None		
	'	
	SUBMITTED BY:	
	- Con the second	
ILDER FORM: G5-0699 NUARY 2005)		
	GOLDER ASSOCIATES INC.	

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	FIELD MONITORING SUMMARY
	SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
	OWNER:         SNPE - VanDeMark Chemical         CONTRACTOR:         Sevenson Environmental Servcices
	LOCATION: Lockport, New York SUB CONTRACTOR(S): Geoscience
$\bigcirc$	DATE: 10/2/2012
	WEATHER:TEMPERATURE:LOW: $S/$ @HIGH@CLOUD COVER $OMAASF$ PRECIPITATION $LF-RainWINDCalm$
	GOLDER PERSONNEL ON SITE:
	R. Marchese (0900 - 1530)
	SUMMARY OF CONSTRUCTION PROGRESS:
	Geoscience
	0855 - Avrive @ Site; Sevenson + Mick (driller) beginning Perusine drilling
	on First borehole & Fan west side of trench alignment. Duillen
	ucles death into rock is currently about 5-Ft, consistently hard
	dvilling. Also notes Significant water in Filtration into the borchole.
	Drillin believes he is in the Power Glin Shale.
	0950 - Priller will try to case OFF borchde of 4" sch 40 puc pipelo-FF sections). to
	attempt to slow graduater infiltration into BAT. Courrently using 3.5" drive 671
	1150- BH-1: TD ~15 Ft. Unknown digeth into Bedrack
	BH-2: TP-18 Ft, ~7 Ft into rock (Queenstor?)
	1240 - BH-3: to - 16FL, ~GFt into Queenston Shale, per driller.
$\frown$	1325- BH-4: TO-21Ft, -13Ft into Passible Queenster or modia? 1410 - BH-5: TO-21Ft, -14Ft into Comp. vock (~6Ft of amp.)
$\smile$	1410 - BH-5: TO - ELEFT ~ 1914 Into Corre (Sandstone), Nete: Between 11-14 FL SPEMS
	1410 - 154-5: TO - DUTY, 29 Ft into Vock (Sandstone). Note: Between 11-14 Ft, Spens 1500 - BH-6: TO - 16 Ft, ~ 9 Ft into Vock (Sandstone). Note: Between 11-14 Ft, Spens to be a seam driller drilled through causing water in previous bouchele (BH-S) to erupt
	From the borchele. CD willers note: probably an 18-inth void or U. SOFF seam dwilled @ 12 Ft by
	Write up For the day. Everyone offsite by 1550,1600.
	GOLDER ACTIVITIES AND TEST RESULTS:
	Absence barelide drilling ertorts along treach alignment. Los N. 111. 1. de 11.
	Observe borchde drilling efforts along treach alignment. Log drillhele dipthe
	Observe borchde drilling ettorts along treach alignment. Log drillhele dipthe
	Observe borchde drilling ettorts along trench alignment. Log drillhele depth



GOLDER FORM: R4-0699 (JANUARY 2005)

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SUBMITTED BY: \_\_\_\_\_\_\_\_

GOLDER ASSOCIATES INC.

ROJECT NUMBER:	ADD 20115	SHEET 2 OF 2	
	093-89168 PE - VanDeMark Chemical	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 CONTRACTOR: Sevenson Environmental Services, INC.	<u>,</u>
OCATION:	Lockport, New York	SUB CONTRACTOR(S): Geograne	_
			<u> </u>
	DATE: 10/2/201		
<u>JMMARY OF SU</u>	RVEYOR'S ACTIVITIE	ES:	
			:
NO	<b>4</b> .		
1			
		· · · ·	•
UMMARY OF P	OBLEMS AND RESOL	LUTIONS:	
GW INFil	tutily First boucholi	le; atsempt to install 4" sch. 40 puc casing to sla	w Gw 🔸
InFiltration	as tow is slow.	ing up the pertusive drilling.	•
- Drilled allow	FF tos be	e Fore hitting competent bedrock.	
- Schi40 PUC	did vot go dawn	instead Screnton Super (Paul G.) Picked up thinner walled p	ire (4",
100mm SBR	ss) to attempt installi	ing in 314" brehole.	
- think	- walled pipe still	didn't go dawn BH, So Sevencen will eurs	
preces to inser-	- into BH's to grevent	- Surface Muck From infiltrating (BH'S.	
	, and the co		
			<u></u>
UMMARY OF M	EETINGS AND DISCUS	SSIONS HELD (ATTENDEES AND ISSUES):	
Discussion a	- Mick drille	r: And of First 4 - boreholds may have been a	www.low
		uld explain the uncertainty in the rock encaunterio	
dvilling,			j
- At borable B	+5, driller becom,	ity concerned about while he is running into in th	it hele.
		us]. He is wondering it the area ever had any m	
		Cmerk ?	
(~3 Ff poid ~	- this side of the		
(~3 FF void ~ Stouchures on			musica
(~3 == void ~ Structures on - Per faul Eallo about Jepths	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	noursed
(~3 == void ~ Structures on - Per faul Eallo about Jepths	(Sevensen), mike HCHYSON IE drilling + iE be en		njurird
(~3 == void ~ Structures on - Per faul Eallo about Lipths o UMMARY OF IN	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	njurind
(~3 == void ~ Structures on - Per faul Eallo about Jepths	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	ngurind
(~3 == void ~ Structures on - Per faul Eallo about Lipths o UMMARY OF IN	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	ngurirð
(~3 == void ~ Structures on - Per faul Eallo about Lipths o UMMARY OF IN	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	ngurind
(~3 == void ~ Structures on - Per faul Eallo about Lipths o UMMARY OF IN	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by Site around ISUS = NO Concerns and only e neodaterol any cost far during drilling. TS / HEALTH AND SAFETY ISSUES:	ngurirð
(~3 == void ~ Structures on - Per faul Eallo about Lipths o UMMARY OF IN	(Sevensen), mike HCHYSON IE drilling + iE be en	DEC) Stoppid by site award 1545: NO concerns and only e acoustered any cost for during drilling.	ngurirð
(~3 the rold A Structures on - Per Paul Eallo about Jepths . UMMARY OF IN Nove.	(Sevensen), mike HCHYSON IE dzilling + iE be en	DEC) Stoppid by Site around ISUS = NO Concerns and only e neodaterol any cost far during drilling. TS / HEALTH AND SAFETY ISSUES:	ngurirð
(~3 the rold A Structures on - Per faul Eallo about Jepths o UMMARY OF IN Nove.	(Sevensen), mike HCHYSON IE dzilling + iE be en	DEC) Stoppid by Site around ISUS = NO Concerns and only e neodaterol any cost far during drilling. TS / HEALTH AND SAFETY ISSUES:	ngurirð
(~3 the rold A Structures on - Per faul Eallo about Jepths o UMMARY OF IN Nove.	(Sevenen), Mike HCHYSON IE drilling <u>+ IE ve e</u> CIDENTS / ACCIDENT	DEC) Stoppid by Site around ISUS = No Concerns and only e neodaterol any cost far during drilling. TS / HEALTH AND SAFETY ISSUES:	ngurirð
(~3 the rold A Structures on - Per Paul Eallo about Jepths . UMMARY OF IN Nove.	(Sevenen), Mike HCHYSON IE drilling <u>+ IE ve e</u> CIDENTS / ACCIDENT	SEC) Stoppid by Site awand ISUS: No Concerns and only e <u>ncountered awy cost for during drilling</u> . <u>TS / HEALTH AND SAFETY ISSUES:</u> <u>SUBMITTED BY:</u> <u>Ut all Marchen</u>	ngurind
(~3 the rold A Structures on - Per Paul Eallo about Jepths o UMMARY OF IN Nove.	(Sevenen), Mike HCHYSON IE drilling <u>+ IE ve e</u> CIDENTS / ACCIDENT	SEC) Stoppid by Site awand ISUS: No Concerns and only e <u>ncountered awy cost for during drilling</u> . <u>TS / HEALTH AND SAFETY ISSUES:</u> <u>SUBMITTED BY:</u> <u>Ut all Marchen</u>	ngurirð
(~3 FF void ~ Stunctures on Per Paul Gallo <u>about Jepths i</u> UMMARY OF IN Nove.	(Sevenen), Mike HCHYSON IE drilling <u>+ IE ve e</u> CIDENTS / ACCIDENT	SEC) Stoppid by Site awand ISUS: No Concerns and only e <u>ncountered awy cost for during drilling</u> . <u>TS / HEALTH AND SAFETY ISSUES:</u> <u>SUBMITTED BY:</u> <u>Ut all Marchen</u>	. тритид

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/	FIELD MONITORING SUMMARY	
	SHEET 1 OF 2         PROJECT NUMBER:       093-89168       PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         OWNER:       SNPE - VanDeMark Chemical       CONTRACTOR:       Sevenson Environmental Serveices         LOCATION:       Lockport, New York       SUB CONTRACTOR(S):       Sub contractor(S):	
	DATE: 1013/2012	
	WEATHER:       TEMPERATURE:       LOW:       Sg       @       HIGH       @         CLOUD COVER       Quencest       PRECIPITATION       Nore,       WIND       Calman         COLOUD COVER       Quencest       PRECIPITATION       Nore,       WIND       Calman	<b>.</b> 7 e
	SIMMADY OF CONSTRUCTION PROCRESS.	e e
	Mith Hovets, (CHeoscience), 0805- Prep to resume trench duilling ops From BH-6 @ west and of alignment; 0845- BH-7: TD ~16-Ft, ~7-Ft into belock Cas-Ft of presumely Queension Shole). Dy cutting, Mith BH-8: To~16-Ft, ~6.6 Ft into Onp. belock Caucenston). Wet artigs towards bottom	
	No notice: Observable hydr. Connectivity to BH-7. Dry cuttings, 1015 - BH-9: TD-21 Ft, - 6: Ft into mod. have curknewing bodrock. Drillers Note: Due to no cuttings reterrai during most of BH-9 drilling, weakle to betermine werk white. Appears to be lateral air loss due to water writing up From BH-8. Alse driller noted a ~2-Ft wid or 9 work driller drap during drilling of 10-15-Ft. depth. Observed air escaping from vertical crack in Flowall Fill next to BH-9.	ed e
	100 - BH-10: TO- 16 Ft, -8-Ft into Queenston shale, Nore: white-sury dust/cuttings inducative of a large boulder & shallow dight (-1-2 Ft below bettern of Flewalle Fiel). Odor of call ter during recked 1130 - BH-11: TO- 11-Ft, -3-Ft in whicher (The) + 3-FT into Queenston Clocker). Dry cuttings + Cont	
$\bigcirc$	1135- BH-12: to-16 Ft; Sft in whichpool (TEP) + Z-Ft in Queension (below). Pry cuttings. 1305- RH-13: TD-16Ft; 1-Fr in whichpool (TEP) + SFt in Queenston (below). Dry cuttings, 1335- RH-14: TD-16Ft; 3-Ft in whichpool (Fe) + 4 Ft in Queensland (Botton). Dry cuttings t coal tar odor during writing.	04.
	1410- BH15 = TO AlbER, 7-Et in Whisped SS (tep). Mostly and and the space helfway through driking. 1-2 Et. Coulter other @ near top of belinek. 1445-BH16: TO16 Et5-Et in whisped SS, whan ~6-ince void space helfway through driking. Coal ter odor observed during drilling new grat voll /top of rack interface.	,
	GOLDER ACTIVITIES AND TEST RESULTS: Obsense borehole drilling efforts along alignment, Log drillhole depths, etc.	
	US35- BH17; TO-21 Ft, 5-Ft into Whichad (Top) + 1-Ft. Oucenston Shale (bottom). Coal ter Observes in viet cuttings through the whichpool SS.	
$\bigcirc$	Golder Associates	

GOLDER ASSOCIATES INC.

GOLDER FORM: R4-0699 (JANUARY 2005)

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		FIELD MO	<b>DNITORING SU</b>	MMARY	
			SHEET 2 OF 2		
PROJECT NUM		93-89168		Creek Bank Corrective Measures -Site No. 9321	<u>49</u>
OWNER:			CONTRACTOR: SUB CONTRACTOR(S):	<u>Sevenson Environmental Services, INC.</u> Geoscience	
LOCATION:	Lockport, N	NEW TUFK	SUB CONTRACTOR(S):	geoscience	-
	DATE:	Jal ela a	•	· ·	- <u> </u>
		0/5/201			
SUMMARY	OF SURVEYOR	CS ACTIVITIE			
No~	٤.				
				· · ·	
SUMMARY	OF PROBLEMS	SAND RESOLU	UTIONS:		
None					
none	•				
			κ.		
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	<del></del> .				
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			·		
SUMMARY	OF MEETINGS	AND DISCUS	SIONS HELD (ATTEND	EES AND ISSUES):	
				Inilling activities. off-site by app	1115
1030 10	Las Parto (CARDA	veneral one	and an effected the phase	we activities, No concerns r	nated U
1465 Ch	nris Banoch (V	andemark) Sto	ps by site. OPFsit	e by 1430. Noted that the store	- Structure
Crossing	under access	road was B	art of old hydroe	lecture fam. Will structures w . Vandemeric had dug sumps in ve source OF the coal tar.	ere present
on sout	the side of cu	reek, as wel	las radioad line	. Vandemeric had dug seemps in	recent
Years e	e west end	of trench	to try to determine	ve source of the coll tar,	
SUMMARY	OF INCIDENTS	ACCIDENTS	5 / HEALTH AND SAFE	TY ISSUES:	
None					
	•				
L,					
				<b>SUBMITTED BY:</b>	
				FILLER A MA. de	
GOLDER FORM: G5-06	509		-	- A many property	<u> </u>
(JANUARY 2005)				V	
		GOL	DER ASSOCIATES I	NC.	

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	FIELD MONITORING SUMMARY
	SHEET 1 OF 2
	PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
	OWNER: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Services
	LOCATION: Lockport, New York SUB CONTRACTOR(S):
}	DATE: 10/4/2012
	weather: Temperature: LOW: 57 @High 7-2 @
	CLOUD COVER OULVEAST PRECIPITATION NOVE WIND Calm
	GOLDER PERSONNEL ON SITE:
	R-Marchese (0800 - 1515)
	SUMMARY OF CONSTRUCTION PROGRESS:
	Office - Arrive on-site & Sevenson + Groscrence personnel setting up For resuming building ops. From BH-17. along thench alignment.
	0830 - Resume drilling ops at BH-18. Chocation and top of west side of stone wall dam).
	0400- BH-18: TO-16-FT, 10-FF of Flowsble Fill, -ZeFt Whisher CTPO) + 2-Ft drill dry (void)+ 2 Ft whisher 55
	Corry duil coatings, no coal far oder observed).
	0945- BH-19; To-15-Ft, 10-Ft. Flux. Fill + 5-Ft in which SS. Dry cuttings, no observable cost for don
	103 - FH-ZOG TO-16-Ft, - 5-Ft into whispool SS. Dry cuttings, no observable coal ter odon.
	1055- BH-21: TO-16-Ft. NSFT into which pool SS. Mostly dry cuttings, no discernable coal tar odor.
	#1145 - BH-22; TO-19-FY, ~ 7Ft into whi pod SS. Note: Encountered oder of DAMAPL (possible)
	and observed rainten sheen on surface of wet dvill cuttings water ejected theme
	the borehole. Driller notes after 2-3 Ft into rock that the First contact withe
	possible DNAPL was encounteral.
	have an as the place in the two firsts whicher SS, Pri cuttings in and calle
	DNAPL product or over; However, hyb. connectivity of BH-22 girted addit. DirAple water [mud.
	1415- BH-24 - TO-16- Fri 10. 5 Flow Fill + S.SFt. into whichpool SS. Masthydry cuttings. No
	Observable ANAPL the BH-24; some ejected From BA-23.
	1505 - OFF -site , all personell oFF-site by 1600, Csevenson will use dozer to clour couster
	vun off access read for vernaing 50-60 ft of trench on east side.

Observe drilling optrations along thempe thench alignment. Log borehole depthy etc.

- Collected Sample of potential BN 41% water line ( From B4-22 (14:15) For Salmission to Test Henerica in Amberit, Ny For restring.



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

PROJECT NUMBER: 093-89168		SHEET 2 OF 2 PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 9321	49	
OWNER:	SNPE - VanDeM	ark Chemical	CONTRACTOR:	Sevenson Environmental Services, INC.	
LOCATION:	Lockport, New York		SUB CONTRACTOR(S):	GreoSvience	<u></u>
	DATE:	10/4/2012		. · ·	 
SUMMARY C	OF SURVEYOR	'S ACTIVITIES	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	1997 - 19
NOAL.			·		
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NITTODINIO CUMANA D

#### SUMMARY OF PROBLEMS AND RESOLUTIONS:

Discussion between R-marchose + Po Martin with Mick (Greascience) driller; plan is to complete boreholder by tomorrow worning (Erilar, Oct. 5, 2012); set up hydrostatic testing equipment over the weekend and begin Ctintatively | hydrost. testing of the boreholds on Monling, Oct. 6, 2012. Will probably take up to 3-days For the testing procedure before the high pressure growthing (an begin.

#### SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

1000 - Mike Hinton (NYSOG) annues on site to observe dvilling activities OFF-site by 1100. 1010- Retack Martin (Gold.) on site For weekly progress mooting. OFF-site by 1105 to meeting.

## SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

A Sample of the modely water For forting and to try and wife dum duill apparetes before moving on to rext borehole.

SUBMIATED, BY:

GOLDER FORM: G5-0699 (JANUARY 2005)

	FIELD MONITORING SUMMARY	
	SHEET 1 OF 2         PROJECT NUMBER:       093-89168         OWNER:       SNPE - VanDeMark Chemical         CONTRACTOR:       Sevenson Environmental Servcices         Value A New York       SUB CONTRACTOR:	
r	DATE: 10/5/2012	
	WEATHER:     TEMPERATURE:     LOW:     S9     @     HIGH     @       CLOUD COVER     CMARAST     PRECIPITATION     Lt-Shamest     WIND	-
	GOLDER PERSONNEL ON SITE:	
	R. Marchose COROG - 1215) SUMMARY OF CONSTRUCTION PROGRESS:	I
	OBSC- Horne & G. 10. Seconsent Greesen propping to resume benchede duilling off Freeze BH-25. OBSC- BH-25- TB-16-FK, S-FK in Whi'r lood SS. Dry cuttings upper bulk of biddes, Saturated OBSC- BH-26- TD-21 Ft, 6.5-Ft. in Whi'r lood SS. Dry cuttings upper bulk of biddes, Saturated OBSC- BH-26- TD-21 Ft, 6.5-Ft. in Whi'r lood SS. Dry cuttings upper bulk of biddes, Saturated Cuttings In lower half of rock duilling. Note: Hyd. connectivity United of BH-23-G30. Ft analy due to cited GW From BH-23 during air lifting @ BH-26. No odors (cool for or block, Observed Q8H 26, Drillers, Note: rols-Ft duil red due about 2.4Ft into the SS below the Flow other Fix. This is when water was first encountered in the borbede. Oftic BH-27: TD-26 Ft, B -Ft. in whi'r lood SS. Dry cuttings in upper ball of belock, Schwake Cuttings in lower balf of rock drilling. Note: (Hydr. conn. desend will BH-26 burge belock drilling. Drillers, Note: TD-26 Ft, B -Ft. in whi'r lood SS. Dry cuttings in upper ball of belock, Schwake Cuttings in lower balf of rock drilling. Note: (Hydr. conn. desend will BH-26 burge belock drilling. Drillers, Note: TD-26 Ft, B -Ft. in whi'r lood SS. Dry cuttings in upper ball of belock, Schwake Cuttings in lower balf of rock drilling. Note: (Hydr. conn. desend will BH-26 burge belock drilling. Drillers, Note: TD-Ft of very Soft drilling below Fow Fill, For a total of rolo-ft of bedreck drilling. Drillers, Note: TD-Ft, 10 -Ft into Whi'r low Fow Fill, For a total of rolo-ft of bedreck drilling. BY - FH-29: TD-26 -Ft, 10 -Ft into Whi'r low S. Mostly dry cuttings, no cutting roturns Fer Several Feef. Hydro connectivity noted will BH-27 + BH-26, Note: Soft rock layer Q abur zonffrag No Dutter of coal tor odors observed. II37 - BH-29! TD-21 -Ft, S -Ft into Whi'r low S. Hills. conn. will BH-28 world Q adment. 15-Ft Bas. Moderate odor of coal tor during belock brilling. 1055 - BH-201 TD-21 -Ft. S -Ft into Whi'r lood S5. Wostly dry cutting, we fin bether 3-ft. of roc An hydr. connectivity roled wi forw borok	ling S.
	- Observe borehole dritting efforts along Friench alignment. - Performed site weekly SwPPD inspection. No concerns noted.	



GOLDER FORM: R4-0699 🧳

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SUBMITTED BY:

GOLDER ASSOCIATES INC.

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	FIELD	MONITORING SUI	MMARY
	-	SHEET 2 OF 2	
PROJECT NUMBE	R:093-89168 SNPE - VanDeMark Chemical		Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.
OWNER:	Lockport, New York	SUB CONTRACTOR(S):	
			970,0
	DATE: 10/5/2	212-	
SUMMARY OF	SURVEYOR'S ACTIVI		
	<u>box(biokbiloll)</u>		
Non	! -		
		·····	
SUMMARY OF	PROBLEMS AND RES	OLUTIONS:	
None			
SUMMARY OF	MEETINGS AND DISC	USSIONS HELD (ATTEND	EES AND ISSUES):
the total of are deep e off-site	Raden (NYSDEC) Stops Jeven of last Science neargh, Hiss neted that by 1045.	the size to observe trib boreholes now the David ne believed we should be	EES AND ISSUES): Why efforts, Noted that we will held to evolvate which are (2017 22) to see if the successive BH's of into Queenson but will discuss w/ pot Mentin
			· · · · · · · · · · · · · · · · · · ·
SUMMARY OF	INCIDENTS / ACCIDE	NTS / HEALTH AND SAFE	<u>I Y ISSUES:</u>
			,
None,			
			SUBMITTED BY:
		-	
GOLDER FORM: G5-0699 (JANUARY 2005)			
CONTRACT AUGO	6	OLDER ASSOCIATES IN	IC.

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	FIELD	MONITORING ST	UMMARY	
PROJECT NUMB OWNER: LOCATION:	ER: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Serveices	
WEATHER: CLOUD COVER	DATE: <u> 0/8/1</u> TEMPERATURE: 6vires+	· - 0 - C	0700 HIGH 4947 @ 1300 Note WIND 6/2024	
GOLDER PER Auron La. SUMMARY OF	SONNEL ON SITE: $\frac{1}{1}$ $\frac{1}{1}$			
0730; Seve			tests in western borcholes,	
loco: Into into confi	Surred Mick (Drille Queenston shale ( dent that bose	n) the t boreholes a 5 into Queenstan) chules 1-5 are	#20-24 need to be dug for, Mick noted That he is into gucensten Shale.	ther
1300: А1 <sup>елоцу</sup>	tempting to flush	boschiles #1 an	d #2. Pack is not expanding	9
1400; pa	cking up for the	-day, Mick wil	1 bring larger packer to morroin	Ι,
			· · · · ·	

None



GOLDER FORM: R4-0699 (JANUARY 2005)

SUBMITTED BY: taron

		DNITORING SU SHEET 2 OF 2		
PROJECT NUMI			Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.	
OWNER: LOCATION:	SNPE - VanDeMark Chemical Lockport, New York	SUB CONTRACTOR(S):		
		······································		1
	DATE: 10/8/12			
SUMMARY C	F SURVEYOR'S ACTIVITIE	S:		
None				
· ·				
	·····			]
-				
SUMMARY O	F PROBLEMS AND RESOLU	TIONS:		
Done	a for at expandin	, erough Mick	will bring larger pucker tonor	rey
Original	gacker not entry		<i>A O I I O I</i>	
		·		
			·	
			· · · · · · · · · · · · · · · · · · ·	
SUMMARY C	F MEETINGS AND DISCUSS	SIONS HELD (ATTEND	EES AND ISSUES):	
Anyela	(VOM) On site, 10	issues noted		
0				
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				•
	A.			
	۰,			
	F INCIDENTS / ACCIDENTS	5 / HEALTH AND SAFE	TY ISSUES:	
None				
L		······································		I
			SUBMITTED BY:	
			/ Un /m	
GOLDER FORM: G5-0699	•			
(JANUARY 2005)				
	GOL	DER ASSOCIATES IN	NC.	
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* PROJECT NUMBER		SHEET 1 OF 2		
•		_ PROJECT TITLE:		ve Measures -Site No. 932149 ironmental Serveices
OWNER: <u>SI</u> LOCATION:	NPE - VanDeMark Chemical Lockport, New York	CONTRACTOR: SUB CONTRACTOR(S):	Sevenson Env	
	DATE: 10-9-1	2		
WEATHER: CLOUD COVER	TEMPERATURE: Done	low: <u>35°F</u> @_ precipitation	<u>()730</u> HIGH	<u>554</u> @ 1400
			100710	
Aaron Lan	1	=70)		
	CONSTRUCTION PROG	<u>×                                    </u>		
		<b>~</b> ≠		
1030: Flushing	& burcholes #1-	*3 <b>,</b> *8		
1130; stan k	2 + Dennis (DEC)	onsite. No issue	roted	
				into decide to
1500: 1-1us	hed up to bon	hole 17 Mick	will pegin	water tests to
2/nr/ing	nt Western e	<i>n0</i> .		
			•	
				·
GOLDER ACTIV	ITIES AND TEST RESU	LTS:		
GOLDER ACTIV	ITIES AND TEST RESU	LTS:		
	ITIES AND TEST RESU	LTS:		
	ITIES AND TEST RESU	LTS:		
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	ITIES AND TEST RESU	LTS:		
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	ITIES AND TEST RESU	LTS:		
	ITIES AND TEST RESU	LTS:		
	ITIES AND TEST RESU	LTS:		
Non		LTS:		
		LTS:		UBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

		NITORING SU SHEET 2 OF 2	111117777XXX X	
PROJECT NUMBER:	093-89168	PROJECT TITLE:	Creck Bank Corrective Measures -Site No. 932149	
	VanDeMark Chemical		Sevenson Environmental Services, INC.	
LOCATION: Loc	kport, New York	SUB CONTRACTOR(S):	· ···· ·	
D	ATE: 10-9-12			
SUMMARY OF SURV				
None	<u></u>		· · · · · · · · · · · · · · · · · · ·	
	· · ·			
	TEMO AND DECOLD	TIONO		
SUMMARY OF PROB	LEMS AND RESULU	<u>110N5:</u>	· · · · · · · · · · · · · · · · · · ·	
None				
		····		
SUMMARY OF MEE	TINGS AND DISCUSS	IONS HELD (ATTEND	EES AND ISSUES):	7
Non				
SUMMADY OF INCH	NENTS / A COIDENTS	/ HEALTH AND SAFE	TV ISSUES.	
Nore	JEATS / ACCIDENTS	/ HEALTH AND ONE D		
				•
				1
			SUBMITTED BY:	
· ·				
• •		-		
SOLDER FORM: G5-0699 JANUARY 2005)		-	SUBMITTED BY:	

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<b>FIELD</b>	MONITORING SU	JMMARY
	SHEET 1 OF 2	
093-89168	_ PROJECT TITLE: _	Creek Bank Corrective Measures -Site No. 932149
	_ CONTRACTOR: _	Sevenson Environmental Servcices
.ockport, New York	_ SUB CONTRACTOR(S): _	
TEMPERATURE:	LOW: 46°F @C	∫≫у5 нісн @
Partly Cloudy	PRECIPITATION	one / Rain WIND Calmy
EL ON SITE:		·
Luma 10730	~ <u>/5;30</u> ) RESS:	
tound to be c	loyed at depth mu	ch shallower than original disoths.
beyon preping to	redrill bore like a	#4 to origimal depth of 21
agrave to be etora water te n borhole #4	clogging immediate a	efter pulling drill out Mick is kind of volume the formation will
er tests were packer in Re (1505) Smin), Re 3 He)	petorned on BH Slowable fill 20. rd fest in The	#4. The first 2 tests were ne, Both test ynelled similar results rock zone also ynshled similar result.
	093-89168 VanDeMark Chemical Lockport, New York DATE: <u>10/10/1</u> TEMPERATURE: <u>Partly Cloudy</u> IEL ON SITE: Lung (0730) NSTRUCTION PROGI ast fluching ibund to be c beyon preping to agra U to be etora water te n borchele #4	SHEET 1 OF 2 PROJECT TITLE: VanDeMark Chemical Lockport, New York DATE: 10/10/12 TEMPERATURE: LOW: 46°F @C PRECIPITATION X TEMPERATURE: LOW: 46°F @C PRECIPITATION X TEL ON SITE: Lung (0730 - 1530) NEL ON SITE: Lung (0730 - 1530) NEL ON SITE: Lung (0730 - 1530) NETRUCTION PROGRESS: arr fhishing burcholes 1-6, ibund to be cloyed at depth Muu beyon preping to rechill bore ble s agra u to be cloyed at depth Muu beyon preping to rechill bore ble s agra u to be clogging imachill c torm water twit to see what i n borchole #4. Ler tests were performed on Bit packer in The Stowable fill 20. (ESPSi Re 3rd test in The

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SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MO	NITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Services, INC. SUB CONTRACTOR(S):
LOCATION: Lockport, New York	SUB CONTRACTOR(S):
DATE: 10/10/12	(
SUMMARY OF SURVEYOR'S ACTIVITIES	:
None	
SUMMARY OF PROBLEMS AND RESOLU	TIONS:
None	
•	
· ·	
SUMMARY OF MEETINGS AND DISCUSSI	IONS HELD (ATTENDEES AND ISSUES):
Vene	
	$\langle $
	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF INCIDENTS / ACCIDENTS	/ HEALTH AND SAFETY ISSUES:
None	
	(1173) ###PUTITIST D. 177
	SUBATTTED BY:
	(North
GOLDER FORM: G5-0699	
(JANUARY 2005)	NED A SCACIATES INC
GOLI	DER ASSOCIATES INC.

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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical OWNER: CONTRACTOR: Sevenson Environmental Services SUB CONTRACTOR(S): LOCATION: Lockport, New York 10/11/12 DATE: TEMPERATURE: LOW: 357 @ 0745 HIGH WEATHER: CLOUD COVER **GOLDER PERSONNEL ON SITE:** D. Wehn (0800-0845) Pat Murtin (0830-1201 10730 - 1530 SUMMARY OF CONSTRUCTION PROGRESS: 730 : Oriller began preping to growt BI+ #4 6800: Screnson began loading Modern dumptrucks with excavated fill from slurry whill trench for disposal. Dave wehn (golder) onsite to perform Assocrate Has and it. 1000: Droller began growting Blt#44, Mike Hinkn (DEC) onsite for Thursday meeting along with Angela M. + Chins B. (NDM). 1145: BH#4 was able to accept 25 ft of growt. No evidence of growt was observed in creek during entire test. 1345: Driller New growthy BH# 7, Good communication between BAUF 7 and BH's G+5, GOLDER ACTIVITIES AND TEST RESULTS: have been loaded so far The next round of 1330: 20 trucks 5 trucks has just arrived.

1530. The 145t truck for the day has been loaded. 25 trucks to day to day.



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MO	DNITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168 OWNER: SNPE - VanDeMark Chemical	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 CONTRACTOR: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York	SUB CONTRACTOR(S):
DATE: $i0/11/12$	) 
SUMMARY OF SURVEYOR'S ACTIVITIE	<u>S:</u>
None	
SUMMARY OF PROBLEMS AND RESOLU	ITTONS.
None .	
	· · ·
SUMMARY OF MEETINGS AND DISCUSS	SIONS HELD (ATTENDEES AND ISSUES): M.(Golder) Paul G. (Sevenson) Angela M. ~ Chris B routing in BH#4. Must Keep an eye on stream fes
Mike H (DEC) Aaron L. + Pat	M. (Golder) Paul & (Sevenue) Annela M. + Chris B (
(UDA) Drug D / L	
(VIM) VISCUSSED The Test g	routing in Bitty , Must Reep an eye on Stream tel
grout leaks	
SUMMARY OF INCIDENTS / ACCIDENTS	/ HEALTH AND SAFETY ISSUES:
None	
	STRMITTED DV.
	OFDIVITI TELEBT:
GOLDER FORM: G5-0699 (JANUARY 2005)	
	DER ASSOCIATES INC.

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FIELD MONITORING SUMMARY
SHEET 1 OF 2
PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 OWNER: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Services
OWNER:         SNPE - VanDeMark Chemical         CONTRACTOR:         Sevenson Environmental Servcices           LOCATION:         Lockport, New York         SUB CONTRACTOR(S):
DATE: 10/12/12
weather: temperature: Low: <u>43°F</u> @ <u>0730</u> high <u>45°F</u> @ <u>1415</u> cloud cover <u>Mortly Cloudy</u> precipitation <u>Anne</u> wind <u>breezy</u>
GOLDER PERSONNEL ON SITE:
Alaron Lange (030-1430)
SUMMARY OF CONSTRUCTION PROGRESS:
0730 Modern Dump truck onsite for remainder of Stockpilled R/1.
0800: Driller redrilled BIHH 4 to ×10' bys. Air was coming up from edges
of & flowable fill trench and in BHs # 57 22 Mick will
of g flowable fill trench and in BHs' # 53, +2. Mick will now regrowt BH+44 from the flowable fill,
0840: respiratory's Growting was pationed in the tack. Todayis communication is believed to be due to the interface between the fiburable fill and the fack. By moving the packer into the flowable fill zone, we should be able to seal off that toundury. 0930: is ft <sup>3</sup> of growt into BM#4 growt surfaced in BM#5. storted growting BH#3.
Fork. By noving the packer into the flowable fill and the
to seal off that tourdury.
0930: is the of growt into BIA # 4 growt surfaced in BHTS.
Just in your try BHH 3
0945: Mike # + Gry sutton (DEC) insite RH# 2 accepted 5-123 goint suffaced
doing North Side of Flowable fill trench. Proping BH# 2for great
Oguis: Mike # + Gry sutton (DEC) insite BH#3 arcepted 5fes. grunt suffared dong North Side of Flowable fill trench. Propring BH# 2for growthe Modern took 4 truckleads today.
GOLDER ACTIVITIES AND TEST RESULTS:
1020 : Mike & Grey (DEC) off. si-le still filling BH# 2. muscl to bure hule # 1 communication on the pole edges
compunication on they chedges

1200: B# #6 being filled. compunication with trench edge. 1315: BH #8 being filled in rock. The rock has taken "So buys proving Packer up into Plunable fill Zone to sal sean. 1415: 13 buss in flowable fill Zone. No communication observed.



SUBMITTED BY: aron

GOLDER FORM: R4-0699 (JANUARY 2005)

	FIELD MO	<b>DNITORING SU</b>	MMARY	
PROJECT NUM	(BER: 093-89168	SHEET 2 OF 2 BROJECT TITLE	Creek Bank Corrective Measures -Site No. 932149	
OWNER:	SNPE - VanDeMark Chemical		Sevenson Environmental Services, INC.	
LOCATION:	Lockport, New York		· · · · · · · · · · · · · · · · · · ·	$\bigcirc$
				( ) ( )
	DATE: 16 -12 -	12		~
SUMMARY O	OF SURVEYOR'S ACTIVITIE	S:		
( )				
None				
			-	
	OF DRODI EME AND DECOLI	TTIONS.		
Vorse	<u>OF PROBLEMS AND RESOLU</u>			
		×		
SUMMARY (	OF MEETINGS AND DISCUSS	SIONS HELD (ATTEND	EES AND ISSUES):	
Nore				
	•			
SUMMARY (	OF INCIDENTS / ACCIDENTS	<b>5 / HEALTH AND SAFE</b>	TY ISSUES:	
None				
			•	
	· · · · · · · · · · · · · · · · · · ·			
			SUBMITTED BY:	
			SUBINITIED BI:	
		-	- The -	
GOLDER FORM: G5-0699 (JANUARY 2005)	9		V	
	GOL	DER ASSOCIATES II	NC.	

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	FIELD 1	MONITORING S	UMMARY	
		SHEET 1 OF 2	•	
PROJECT NUMBER:	093-89168	PROJECT TITLE:	Creek Bank Corrective	Measures -Site No. 932149
OWNER: SNP	E - VanDeMark Chemical	CONTRACTOR:	Sevenson Enviro	onmental Servcices
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):		
	DATE: [0-15-			
WEATHER:	TEMPERATURE:	LOW: <u>56°F</u> @ PRECIPITATION	<i>073</i> 0 high	@
CLOUD COVER	purtly cloudy	PRECIPITATION	None	WIND Windy
GOLDER PERSON	/ /			
	NEL UN SITE:			
Haron L	anye, (0720 - 1	430		
SUMMARY OF CO	NSTRUCTION PROGI			
0915: BH#1 0930: BH#1 immedi	12 took & buys. 3 took 9 bugs. Jely. very little yro	H-H/ Was plug. Communication with in Cicek, Sk	with BH+# X11. with creek. 1 ipping B## 14.	Dump Stoped and the
111				cours edge of floughte
1015: Going	back to try	BH#141∞1= 81	bags, communica	ited with BIH#13
10:50: gronting	BA-#10 . 14 buy:	s in Rock. 13	bugsin Flowable +	\$//-
1045: growting	BH #16 , took	23 6445	v	
1130- Mike H	(DEC) onsite.			

GOLDER ACTIVITIES AND TEST RESULTS: 1300: BH #16 sulfaced on lower ground adjuant to rock structure 1330: grouting BH #17, 12 bays into BH17,



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MC	DNITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York	SUB CONTRACTOR(S):
· · · · · ·	······································
DATE: 10-15-12	,
SUMMARY OF SURVEYOR'S ACTIVITIES	 S:
Non	
SUMMARY OF PROBLEMS AND RESOLU	TIONS:
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SUMMARY OF MEETINGS AND DISCUSS	IONS HELD (ATTENDEES AND ISSUES):
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	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF INCIDENTS / ACCIDENTS	/ HEALTH AND SAFETY ISSUES.
	THEADTH AND SAFET I ISOCES.
Noney	
	SUBMITTED BY:
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GOLDER FORM: G5-0699 (JANUARY 2005)	

FIELD MONITORING SUMMARY
SHEET 1 OF 2
PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER:         SNPE - VanDeMark Chemical         CONTRACTOR:         Sevenson Environmental Serveices           LOCATION:         Lockport, New York         SUB CONTRACTOR(S):
DATE: $10/16/12$
WEATHER: TEMPERATURE: LOW: <u>39°F</u> <u>HIGH</u> <u>49°F</u> <u>1400</u> CLOUD COVER PRECIPITATION <u>1012</u> WIND <u>1564</u> <u>600022</u>
GOLDER PERSONNEL ON SITE:
(R: Murchese - 1215) (P. Martin - 1330) (A. Lange (BOO-1615)
SUMMARY OF CONSTRUCTION PROGRESS:
"BH17: took 22 bags cement total. No Stant retains noticed at surface of elsewhere, sevenson notes great was pumping slow twoords and of growth session. Note BH#17 on West side of Sibne structure. BH#18: Total of 24 bays of cenent used. No great returns noticed at surface. Very minor seepage noticed at the of slope near BH#16, may be from previous growthing. BH#19: Total of B bays of cement used Water in BH-20 welling 4P BH#19: Total of B bays of scenent used Water in BH-20 welling 4P b surface during growthing of BH19 (good indication of hydraulic communication) format return at surface. BH#20: Total of 2 burgs of scenent used water (borehok)
BH#20: Total of 3 buys, growt return at surface (borehole) BH#21: Total of 17 buys-growt return at surface "-R. Marchese
B##22: took 35 bugs. NO grout return observed.
GOLDER ACTIVITIES AND TEST RESULTS:



GOLDER FORM: R4-0699 (JANUARY 2005)

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AUBMITTED BY:

PROJECT NUM	BER: 093-1	89168		F 2 TT TITLE: <u>C</u>	IMARY Creek Bank Corrective Mea Sevenson Environmen		_
OWNER: LOCATION:			SUB CONTRA	RACTOR: CTOR(S):	Sevenson Environment	tal Services, INC.	-
···							[ (
	DATE:	10-16	-12				
SUMMARY (	OF SURVEYOR'S	ACTIVITIE	S:				
	None						
]	,						
]	<u>.</u>					+	
SUMMARY (	OF PROBLEMS A	ND RESOL	UTIONS:				
	None						
SUMMARY (	OF MEETINGS AI	ND DISCUS	SIONS HELD (	ATTENDE	ES AND ISSUES):		
<u>۸</u>	612						
SUMMARY	OF INCIDENTS / A	ACCIDENTS	5 / HEALTH A	ND SAFET	Y ISSUES:		
None							
		<u>.</u>					ł
					SUBM	ITTED-BY:	
					· Um	m	
GOLDER FORM; G5-069 (JANUARY 2005)	9					2017 - 11 <b>2</b> 44C	

	FIELD M	ONITORING SU	MMARY
DROIFCTNIM	ED. 002 00120	SHEET 1 OF 2 PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 932149
PROJECT NUMB OWNER:	ER: 093-89168 SNPE - VanDeMark Chemical	CONTRACTOR:	Sevenson Environmental Serveices
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):	
-			
	DATE: 10-17-1	2	
WEATHER:	TEMPERATURE: . L	ow: U/Fe	0745 HIGH <u>657</u> @ 14/5. Nore WIND <u>Calm</u>
CLOUD COVER	Partly cloudy 1	PRECIPITATION	None WIND Calm
	7 / /		
GOLDER PER	SONNEL ON SITE:		
Haron	Lange (0730-	1515	·
SUMMARY O	F CONSTRUCTION PROGRE	SS:	
1			· · · · · · · · · · · · · · · · · · ·
BH#23:	took 7 bys unti	I refusal. No	groud return observed
BH#24:	plugged 2 6' bys."	torred air pressure Aurica accurad	boschole. Might radrill hole
Infer or	to get below,	pluy.	to break open who surcess, took boschole, might redrill hole
1 7	E took 8 bags unk		
BH #26	= Auch 20 bays w	the refusal. Au grou	+ return observed.
BH#27:	took 15 bays Until	return   . No grout	return observed.
BH#28:	took "I bays. had v	rery slight connu	niculum with creek. stopped immediately,
B1+#29 =	took 7 page until	refusal, grout	returned at top of borehole.

GOLDER ACTIVITIES AND TEST RESULTS: BH#20: took 6 bays to return. no grout return observed.



GOLDER FORM: R4-0699 (JANUARY 2005)

SUBMITTED BY:

GOLDER ASSOCIATES INC.

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FIELD MO	ONITORING SUMMARY	
PROJECT NUMBER: 093-89168 OWNER: SNPE - VanDeMark Chemical LOCATION: Lockport, New York	SHEET 2 OF 2         PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         CONTRACTOR:       Sevenson Environmental Services, INC.         SUB CONTRACTOR(S):	
DATE: /0-17-1 SUMMARY OF SURVEYOR'S ACTIVITIE		
Nore		
SUMMARY OF PROBLEMS AND RESOLU	UTIONS:	
None		
SUMMARY OF MEETINGS AND DISCUSS	SIONS HELD (ATTENDEES AND ISSUES):	
None		
SUMMARY OF INCIDENTS / ACCIDENTS	S/HEALTH AND SAFETY ISSUES:	
None		
·	·	
	SUBMITTED BY:	
GOLDER FORM: GS-0699 (JANUARY 2005)	DER ASSOCIATES INC.	

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:	FIELD MONITORING	SUMMARY	
	SHEET 1 OF 2	T.F. Creek Bank Connecting M	Annung Side No 022140
PROJECT NUMBER: 093 OWNER: SNPE - VanDeMa	3-89168 PROJECT TTI ork Chemical CONTRACT		
LOCATION: Lockport, Ne			
DATE:	10-18-12		
WEATHER: TEMPERA	TURE: LOW: $52^{\circ}F$	_@_ <i></i> нідн	@
CLOUD COVER <u><u>non</u></u>	PRECIPITATION	None	WIND light breeze
GOLDER PERSONNEL ON SI	ITE:	·	<i>ν</i>
Aaron Lang (073	30-15-30)		
SUMMARY OF CONSTRUCT			
PI (primary) and solid Queenson shale. SZ: communication Queenson. total SZ: communication SZ: communication until queenson.	cond round of borings from West end of at & 12' bys. distinct North side of No drill drops. In between PI, SI, and depth 21'. 10' in with surface at the Total depth at 10 overflowed out of Sa	trench. total de l around trench. 1 queenston. sench but not 21 6'.	11 bus until

GOLDER ACTIVITIES AND TEST RESULTS:

52: took 2 bays in Rock, and 23 bays in Re Flowoph RIII.



Acion SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD	MONITORING SUMMARY	
PROJECT NUMBER: 093-89168	SHEET 2 OF 2 PROJECT TITLE: Creek Bank Corrective Measure	s -Site No. 932149
OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Se	
LOCATION: Lockport, New York	SUB CONTRACTOR(S):	
DATE: $\int \partial - \int$	14-12	
SUMMARY OF SURVEYOR'S ACTIVI	TIES:	
None		
. <u> </u>		
SUMMARY OF PROBLEMS AND RES	OLUTIONS:	
None		
· ·		
	USSIONS HELD (ATTENDEES AND ISSUES):	
Dan Slick, Michele, Mich	ek, Emily, Part Martin Onsite	
	/	
4		
SUMMARY OF INCIDENTS / ACCIDE	NTS / HEALTH AND SAFETY ISSUES:	
Nor		
	CUDATT	
	St Divit 1	TED BY:
GOLDER FORM: G5-0699		
(JANUARY 2005)	OLDER ASSOCIATES INC.	
6	olden rosoortes inc.	
		$\bigcirc$
		$\cup$

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FIELD MONITORING SUMMARY
SHEET 1 OF 2
PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER:         SNPE - VanDeMark Chemical         CONTRACTOR:         Sevenson Environmental Services           LOCATION:         Lockport, New York         SUB CONTRACTOR(S):         SUB CONTRACTOR(S):
DATE: 10-14-12
WEATHER: TEMPERATURE: LOW: $43^{\circ}F$ @ 0800 HIGH $63^{\circ}F$ @ 1530 CLOUD COVER $264$ precipitation $214^{\circ}R$ wind $764$
GOLDER PERSONNEL ON SITE:
Aaran Lunge (0730 - 1530)
SUMMARY OF CONSTRUCTION PROGRESS:
BH=SQ: queenston at 2 11-12' bys total depth 21'bys. Very goal communication all around trench going west = P2.
BH-55:
1920: chlorine smelling tog in wirk aren contacted Angela (VDM) and we evacuated The site to the muster location at west Jackson st.
1030: All clear given. continuing to drill BH-55, Mike H (DEC)
BH-55: =10' bas to queenstan. Total depth of 16 bys. 6'of competent shale,
GOLDER ACTIVITIES AND TEST RESULTS:
growting BH-55: took 25 Jugs. communication with north side of trench
BH-94: took 5 bugs- communication on both sides of french and BH-55
BH-58: 3' flowable fill, 3' sandstone, I fit flowable fill, 2' sandstone, 7' queenston, consider with location of large rock that was in trench. Took 30 buys. Surfaced North of trench.
Took 30 buys. Surfaced North of French.

Golder SUBMITTED BY: Associates farm Large

GOLDER FORM; R4-0699 (JANUARY 2005)

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			SHEET 2 OF 2			
ROJECT NUM	BER: 09	3-89168		Creek Bank Corrective	Measures -Site No. 93214	9
WNER:	SNPE - VanDeMa	rk Chemical	CONTRACTOR:		mental Services, INC.	·
DCATION:	Lockport, No	ew York	SUB CONTRACTOR(S):			
		·····				_
	DATE:	10-19-1	2			
UMMARY (	OF SURVEYOR'	SACTIVITIE	ZS:			
None						
Jouric						
			· ·			
	סאים זמסמיםר					
	DF PROBLEMS	AND KESUL			/	
Folder	Will ret	ive rad	le from guar be left open escape.	d shack ever	y moraing. Da	cre
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gate	to tacity	$\sim r \eta$	pe lett open	nuring our	uoricing h	040
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	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES)	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES) ETY ISSUES: EVALUATEL to W. Fadio to be use On as a secon	Jackson St. PAJ J Jrom now o wary excape is	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES) ETY ISSUES: EVALUATEL to W. Fadio to be use On as a secon	:	, .
	DF MEETINGS A	AND DISCUS	SIONS HELD (ATTENI	DEES AND ISSUES) ETY ISSUES: EVALUATEL to W. Fadio to be use On as a secon	Jackson St. PAJ J Jrom now o wary excape is	, .

GOLDER ASSOCIATES INC.

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ELD MONITORING SUMMARY Creek Bank Corrective Measures -Site No. 932149 **PROJECT NUMBER:** 093-89168 PROJECT TITLE: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Serveices OWNER: SUB CONTRACTOR(S): LOCATION: Lockport, New York DATE: 10-22-12 <u>U4°F @ 0800 HIGH 63°F @ 1430</u> TON <u>NIME</u> WIND <u>Very 1/36</u> LOW: TEMPERATURE: WEATHER PRECIPITATIO CLOUD COVER PERSONNEL ON SITE: GOLDER Haron Lunge (0730-1530) SUMMARY OF CONSTRUCTION PROGRESS: BHE Sq: q' of flowable fill, Then 12' directly into queenston shale. al' total BH & SIZ & of Flowable fill 3' of whirlpool sandstone, Queensten Lit at 11', at 14 bys 26" stringer of grout. 21' total bys BIT# 515: 10' of flowable fill 2' whirlpool, 9' of Queenston. 21' total dep R. BH #518: = 8! of Flowable fill, 12' of whindpool. 20' total bgs. grouting Bit # 99: communication with creek. pump stopped immultity, tock II bygs. GOLDER ACTIVITIES AND TEST RESULTS: BH= S12: took 5 bays until refusal. No communication observed. BH#SIS: took 11 bags until retusal. No communication observed. BH#SIS: took 11 bags until retusal. No communication observed.



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

	FIELD M	ONITORING SUM	IMARY
		SHEET 2 OF 2	
PROJECT NUM		CONTRACTOR:	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.
OWNER: LOCATION:	SNPE - VanDeMark Chemical Lockport, New York	SUB CONTRACTOR(S):	Sevenson Environmental Services, INC.
	DATE: 10-22-12	2	· · · ·
	DF <u>SURVEYOR'S ACTIVITI</u>	LO:	
Nore			
SUMMARY C	OF PROBLEMS AND RESOL	UTIONS:	
None			
			·
SUMMARY (	OF MEETINGS AND DISCUS	SIONS HELD (ATTENDE	ES AND ISSUES):
Stan R.	. (DEC) onsite. No	issues noted.	
0 per la			
			,
	.•		
UMMARY	OF INCIDENTS / ACCIDENT	S / HEALTH AND SAFET	Y ISSUES:
None	<u>_</u>		
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			SUBMITTED BY:
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GOLDER FORM; G5-0699 (JANUARY 2005)

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GOLDER ASSOCIATES INC.

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FIELD MONITORING SUMMARY Creek Bank Corrective Measures -Site No. 932149 **PROJECT NUMBER:** 093-89168 PROJECT TITLE: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Serveices **OWNER:** SUB CONTRACTOR(S): LOCATION: Lockport, New York 10-22-12 DATE: <u>54°F @ 0800\_</u>нісн LOW: TEMPERATURE: WEATHER: PRECIPITATIO RUZNUST CLOUD COVER GOLDER PERSONNEL <u>(0730 - 1530)</u> SUMMARY OF CONSTRUCTION PROGRESS BH# \$17: 10' of flowable fill, 6' into very competend whit/pool Sandstone. 16' total BH# SI4: q' of theable fill, 6' of whitpool, 6' into queenston Shale 21' total BH# SII: q'of flowable fill 26" of grout, 6" sandstone, 6' into queenston = 16' total depth BHHS7: 8' Qlowable fill, 1' miscellanions much. commination with north side of trench and unfinished BH # 56. Growting GOLDER ACTIVITIES AND TEST RESULTS: B## 57: took 20 bags with refusal. No communication observed ~ 50 psi BH# SII: took 7 bags, communication with creek, very little growt intered creek BH# SIM: took 18 bags until retusal. No communication observed. BH#SIT: took & bags until refusal. No Communication observed SUBMITTED BY: TAB N. ociates

GOLDER ASSOCIATES INC.

GOLDER FORM: R4-0699 (JANUARY 2005)

	FIELD MC	ONITORING SU SHEET 2 OF 2	MMARY	
PROJECT NUMBER:	093-89168		Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.	
	nDeMark Chemical oort, New York	SUB CONTRACTOR(S):	Sevenson Environmental Services, INC.	
DAT SUMMARY OF SURVE				
None				

## SUMMARY OF PROBLEMS AND RESOLUTIONS:

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## SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

None

DORE

# SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

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GOLDER FORM; G5-0699 (JANUARY 2005)

SUBMITTED BY:

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## GOLDER ASSOCIATES INC.

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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 093-89168 SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Serveices OWNER: SUB CONTRACTOR(S): LOCATION: Lockport, New York DATE: 10-24-17 52°F @ 0800 HIGH LOW: WEATHER: TEMPERATURE: WIND Calm arercasy PRECIPITATION CLOUD COVER **GOLDER PERSONNEL ON SITE:** 0730 -1530 Haron SUMMARY OF CONSTRUCTION PROGRESS: of SI. 10' flowable, 6' gueenston. Air return sparted at 5 bas, T5: West of 53. # florable fill. now running into large rock that was left in place (2' sandstone). Queenston hit at 9'bys ~ 3 At of florable fill and much under large rock. A lost of commanication on both sides of trench and 3 a - horizontal sean across the flowable fill 2 3' West of TS. (P, T, S, T2 P2 T3 52 T4 P3 T5 53 T6 P4 T3 54 T8 P3 55 T10 P2, 12 13 Total depth 16'. 7' into queenston. GOLDER ACTIVITIES AND TEST RESULTS: "q: communication in PG, TS all sides of trench and a horizonter/ Seam across the trench. Seam may only be a result of "cap" of growt that has sattled in the western area from Lose washing. T9: 12' of Alowable fill, 4' into Queenston. 16' total TB: East of P7, 92 Flowable fill. 5' into queenstan. 14' total bys. communication with T9 and North side of trench. Also communications with creek. TIT: 4' of flow able fill 3' whichpool at 6 bys 22-4" growt, 7ft bys in queenston (4). Il total depth. Communication with north SUBMITTED BY: older ssociates

GOLDER FORM: R4-0699 (JANUARY 2005)

FIELD MONITORING SUMMARY SHEET 2 OF 2 **PROJECT NUMBER:** 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC. SNPE - VanDeMark Chemical CONTRACTOR: OWNER: SUB CONTRACTOR(S): LOCATION: Lockport, New York 10-24-12 DATE: cont front front SUMMARY OF SURVEYOR'S ACTIVITIES. Side of truch. growting TIT: communication with but worth of trench. Petucal @ 45 psi, Dock 18 bys SUMMARY OF PROBLEMS AND RESOLUTIONS T13: is bubbling up along north trench wall extending past T9. Top has writer flowing out, took 16 bags until refusal. T9: took 7 bays until Atusal, TS: 9 bags until returnel. Ti took 20 typs to return! SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES): None SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES None Clan SUBMITTED BY: GOLDER FORM: G5-0699 . (JANUARY 2005) GOLDER ASSOCIATES INC.

FIELD MONITORING SUMMARY SHEET 1 OF 2 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 PROJECT NUMBER: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Services OWNER: LOCATION: Lockport, New York SUB CONTRACTOR(S): 10-25-12 DATE: LOW: <u>54°F</u> @ <u>8800</u> HIGH @ PRECIPITATION <u>NONE</u> WIND <u>Calm</u> TEMPERATURE: LOW: WEATHER: none CLOUD COVER **GOLDER PERSONNEL ON SITE:** SUMMARY OF CONSTRUCTION PROGRESS: 56. 9' flowable fill, 2' whir pool 5' queenston grant bencountered. SIO: 5' Plowable Fill, 2' whichpool, queenston 9'. 16 total To 2" of grout between FF and Wirlpool, and again at The Wairlpool and furnation interface. S13: 6' Flowable fill, 6' whichpool, 4' queenston grout at 7' 21", 13 Ft (2") SIG: 12' Flowable Fill, q1 whin Ipool. Growt at 24 bas (= 2") coal tas odo-only at 15' bas. into queenston 5' 26 bgs total GOLDER ACTIVITIES AND TEST RESULTS: S19: 12 Plowable All ~ 1-2" grout, 11 whin Ipool 3' into queerston, total depth = 26 bys Growthy 5.19: took 20 bays with rotural. No grout return encountered. Siles took 18 bags until retusal No growt return observed 513) toot & tays until returned No grout return observed except when packer was initially close to surface once droppeds not grout surfaced SUBMITTED BY: Golder sociates (JANUARY 2005)

		SHEET 2 OF 2				. "
PROJECT NUMBE OWNER:	R: 093-89168 SNPE - VanDeMark Chemical	PROJECT TITLE: _ CONTRACTOR:			Services, INC.	
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):				
	DATE: 10-25	-12				
SUMMARY OF	SURVEYOR'S ACTIVITIE	S: Cont. from a	ront			
None						
						·
SUMMARY OF	PROBLEMS AND RESOLU	TIONS:				
None						
•						
	MEETINGS AND DISCUSS					
SUMMARY OF	INCIDENTS / ACCIDENTS	/ HEALTH AND SAFE	TY ISSUES:		•.	, .
None						
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			/	SFIRMT	TEARV.	
			U		TED BY:	
		-		P		
GOLDER FORM: G5-0690			-			
		DER ASSOCIATES IN	IC.			
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GOLDER FORM: G5-0699 (JANUARY 2005)	GOL					
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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 **OWNER:** SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Serveices LOCATION: Lockport, New York SUB CONTRACTOR(S): 10-26-12 DATE: LOW: <u>627</u> @ 8800 HIGH PRECIPITATION KORE WEATHER: TEMPERATURE: CLOUD COVER \_kion e **GOLDER PERSONNEL ON SITE:** (0745-1500) Lange TADO SUMMARY OF CONSTRUCTION PROGRESS 521: 12' flowable fill, couldar/solvent type smell entires at 17' bys in whire pool. A 2' dwill drop (18-20' tys). s2:11 in Surdistance, water encountered at = 21'bys. Total depth of 26'. 523: 12 Alunable fill, at around 17-18' bys a very slight. odur (same as sal) observed. Water encountered at 20' bes Shall at 24 bys growting 523: took 32 bags until refusal. No. grout return observed GOLDER ACTIVITIES AND TEST RESULTS: 521: took 34 bys to refusal. We grout return observed. 510:

56: 30 Bags Used (Rom)



UBMITTED BY

GOLDER FORM: R4-0699 (JANUARY 2005)

FI	ELD MONITORING S	UMMARY	
	SHEET 2 OF 2		
PROJECT NUMBER: 093-89		E: Creek Bank Corrective Measures -Site No. 932149	
OWNER: SNPE - VanDeMark			
LOCATION: Lockport, New	York SUB CONTRACTOR(S)	):	
. r			
DATE:	10-26-12		
SUMMARY OF SURVEYOR'S A	CTIVITIES:		
None			
100.72			
		``````````````````````````````````````	
SUMMARY OF PROBLEMS AN	D RESOLUTIONS:		i · · ·
A 1-			
None			
SUMMARY OF MEETINGS AN	D DISCUSSIONS HELD (ATTEN	DEES AND ISSUES):	
None			
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<u>.</u>			
· · · · · · · · · · · · · · · · · · ·			
	CCIDENTS / HEALTH AND SAF	SETY ISSUES:	
None			
			]
		SUBMITTED BY:	
GOLDER FORM: G5-8699			
(JANUARY 2005)			

		MONITORING			
		SHEET 1 OF 2			
PROJECT NUMI		PROJECT TITL		tive Measures -Site No. 93214	9 .
OWNER:	SNPE - VanDeMark Chemical Lockport, New York	CONTRACTO SUB CONTRACTOR(S		wironmental Servcices	
-	Bochpori, rich Zork				<u> </u>
	DATE: <b>10/2</b> 9	1/12			·
WEATHER:	TEMPERATURE:	LOW: 44	@ <b>/ \$720</b> HIGH	@	
CLOUD COVER	douny	PRECIPITATION	LIGHT RAIN	WIND LIGHT	
		a provide a second day		(	
0910: T. N	EUENSON MABILIZIN RILLING SZZ # L OTED THAT OUTIN N THIS FORMATION (OMOLITED S728 BO	OCATTON - FRUM 165 CONTAINED PUR 1870 BEEN FILL	8-12 FT ENCOU TUNDO CEMENT ED BY PREVIOU	S TZ-24 WILLAG	- V3105 2p : 23p
0910: T. N 1. 0950:	RILLING SZZ # L POTED THAT OUITIN N THIS FORMATION COMPLETED SZZS BO	OCATTON - FRUM 165 CONTAINED PUR 1470 IFEEN FILL 1470 - TOTAL DE	8-12 FT ENCOU TUNNO CENTENT ED BY PREVIOU DTH 26' B65	NOICATIONA TANT S CRUMAT NO 22 : 12-24 WILLIA 24-26 QUEENS	- V3105 2p : 23p
0910: 1. N 0950: Iv:15:	DRILLING SZZ # L POTED JTHAT OUITIN N THIS FORMATION COMPLETED SZZS BO DRILLING BOREHOLE	007770N - FRUM 165 CONTAINED PUR 1470 13EEN FILL 17N: - 70772 DE 235 LOCATION -	8-12 FT ENCOUT TUTNO CENTENT ED BY PREVIOU OTH 26' B65	NOICATING TAMP S CRUCATING TAMP S CRUCAT NO 22 : 12-24 WILLIGH 24-26 PURENS	- V310 S 2p < 23p cl Ton
0910: T. N 1. 0950: 10:15: 10:15:	RILLING SZZ # L POTED THAT OUITIN N THIS FORMATION COMPLETED SZZS BO	OCATTON - FRUIN 165 CONTAINED PUR 1470 IFEEN FILL RING - TOTAL DE 235 LOCATTON - - SENENSON WILL	8-12 FT ENCOU TUNNO CENTENT ED BY PREVIOU OTT 26' B65 INTO ANHALPOR MAILE DEFERMIN	NOICATING TAMP S CRUCATING TAMP S CRUCAT NO 22 : 12-24 WILLIGH 24-26 PURENS	- V310 S 2p < 23p cl Ton

GOLDER ACTIVITIES AND TEST RESULTS:

STONE CALLED PAUL GALLO - HE NOTED THAT SZZ TEOK' ZO BAGS OF GROUT. I INDICAPED THAT WE HAD A DISCREPANEY 1545: UN 523 - (AANON'S FIELD NOTES ON 10/26/12 INDICATED FIFAT 523 HAM ARRANDY BEEN INSTALLED). PAUL WILL LITEER BURGHUE DESIGNATION WITH MICH AND CONFIRM CORRECT HON WEDS. SEVENSON WILL BE SHUT DOWN TOMORDIN TO STORM.



UBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

	093-89168 anDeMark Chemical port, New York	SHEET 2 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):		Measures -Site No. 93214 nental Services, INC.	<u>19</u>
DA' SUMMARY OF SURVE	10/2/	<u>//2</u>			
NONE					
	·····			<u>.</u>	·
SUMMARY OF PROBL	EMS AND RESOLU	TIONS:			
NONE					
	· ·				
•		• .		: 4	×
				•.	
SUMMARY OF MEETI	NGS AND DISCUSS	IONS HELD (ATTENI FANS For Joman	DEES AND ISSUES): 2000 – THE TO P	THATTHE SAFE	TU
0900: REVIEWED BINCEENS GRILD W	WEATHER COM IT IS LIKELY TI ILL CALL OF USSED STATUS	IONS HELD (ATTENI Fan's for jomuri Hat severson W EMAIL w/ upont of PAY Appint n sevenson Tot	2000 - TVE TO PO ILL CANKEL WOR E TO GOLDER TT TON #2 - COL	HENTIAL SAFE HE ON TUES 10 13 HIS AFTERNON DER HAS NOT RE CONS SUBMITTE	70 20 - PAUL ELE, LED D ON 10/26/12
0900: REVIEWED BINCEENS GRILD W	WEATHER COM IT IS ЦКЕЙ ТГ ILL CALL Ф. USSED STATUS Аррисатом расо	EANS FOR JOMUNI HAT SEUKISON W EMAIL W/UPORT OF PAY APPLICAT IN SELENS ON TER	2000 - THE TO PO ILL CANKEL WON E TO GOLDEN TO TON #2 - COLO 550 ON CARECT ETY ISSUES:		70 20 - PAUL ELE, LED D ON 10/26/12
0900: REVIEWED Oincreans GALLO U ALSO PISC REASED I	WEATHER COM IT IS ЦКЕЙ ТГ ILL CALL Ф. USSED STATUS Аррисатом расо	EANS FOR JOMUNI HAT SEUKISON W EMAIL W/UPORT OF PAY APPLICAT IN SELENS ON TER	2000 - THE TO PO ILL CANKEL WON E TO GOLDEN TO TON #2 - COLO 550 ON CARECT ETY ISSUES:	TENTIAL SAFE	TO 20 - PAUL ELEIVERO D ON IO[26]12
0900: REVIEWED O'NCRENS GALLO W ALSO PISC REASED I	WEATHER COM IT IS ЦКЕЙ ТГ ILL CALL Ф. USSED STATUS Аррисатом расо	EANS FOR JOMUNI HAT SEUKISON W EMAIL W/UPORT OF PAY APPLICAT IN SELENS ON TER	2000 - THE TO PO ILL CANKEL WON E TO GOLDEN TO TON #2 - COLO 550 ON CARECT ETY ISSUES:		TO 30 - PAUL ESEINED D ON IOFESTIZ
0900: REVIEWED O'NCRENS GALLO W ALSO PISC REASED I	WEATHER COM IT IS ЦКЕЙ ТГ ILL CALL Ф. USSED STATUS Аррисатом расо	EANS FOR JOMUNI HAT SEUKISON W EMAIL W/UPORT OF PAY APPLICAT IN SELENS ON TER	2000 - THE TO PO ILL CANKEL WON E TO GOLDEN TO TON #2 - COLO 550 ON CARECT ETY ISSUES:		TO 30 - PAUL ELEIVED D ON IOFZIJIZ
0900: REVIEWED O'NCRENS GALLO W ALSO PISC REASED I	WEATHER COM IT IS ЦКЕЙ ТГ ILL CALL Ф. USSED STATUS Аррисатом расо	EANS FOR JOMUNI HAT SEUKISON W EMAIL W/UPORT OF PAY APPLICAT IN SELENS ON TER	2000 - THE TO PO ILL CANKEL WON E TO GOLDEN TO TON #2 - COLO 550 ON CARECT ETY ISSUES:		TO 30 - PAUL ELEIVERO D ON IOFZIJIZ

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 $\sum_{i=1}^{n}$ 

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FIELD MONITORING SUMMARY
SHEET 1 OF 2         PROJECT NUMBER:       093-89168       PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         OWNER:       SNPE - VanDeMark Chemical       CONTRACTOR:       Sevenson Environmental Serveices         LOCATION:       Lockport, New York       SUB CONTRACTOR(S):
DATE: lolziliz
WEATHER: TEMPERATURE: LOW: 42 @ 0800 HIGH @ CLOUD COVER 012 Mass PRECIPITATION Lt. Shewes WIND "alma
GOLDER PERSONNEL ON SITE:
R. MARCHESE (0800 - 1615)
SUMMARY OF CONSTRUCTION PROGRESS:
0905 Sevenson + drillers (mick) drilling on SZH; ~ 12-13 Ft. of Flundble Fill drilled before encountering which pool. -> Creek water very turble this morning (bruch - colored) Following storm system water very turble this morning (bruch - colored) Following storm -> Creek water very turble this morning (bruch - colored) Following storm -> System war the area. -> Sevenson the area. -> Sevensor
045 - 525 - 11 - Ft. of Flowable Fill, 5-Fr whinlpool. No odors nored, norry on 1010 - 526 - R - Ft of Flowable Fill, 5-Ft of whinlpool 55. No odors nored, mostly day drill cuttings. (Norte: Completed bong to 26 - Ft after disculsion of DEC rep). 15-Ft internet
100- 527- WET of Flowable Fill, 15 -Ft of Whin post., (26-Ft total)
1200- lunch break
1300- Recurse Iniling on SZ7; (Retrined to complete to 26-Ft. No Queenter authors observe
GOLDER ACTIVITIES AND TEST RESULTS:
Cherry in the bal, (Sprondery) numbering status of Mick + Paul.

Check on borehole (Secondary) numbering status of Mick + Paul. -> Most likely drilled sz3 timze, according to Mick + Paul. -> Boreholes drilled today are lart specing. -> Performed SUPP? Inspectrum; no defectencies noted. 1345 Begin granting SZ4 ; 1300 - Dok 38 bays grant to refuted (45+ psi). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Will probably redvill SZ5 tomorrow to detour douth). 1805 Begin granting SZ5; (Nore; Begin grant being explicitly free SZ5; 20-Ft to east. Grant 1805 SZ5 took ZI bags grant to refused C45+psi). SUBMITTEDBY: SUBMITTEDBY: SUBMITTEDBY:

GOLDER FORM: R4-0699 (JANUARY 2005)

## FIELD MONITORING SUMMARY SHEET 2 OF 2

PROJECT NUMBER: OWNER: LOCATION:

093-89168 SNPE - VanDeMark Chemical Lockport, New York

CONTRACTOR: , Sevenson Environmental Services, INC. . \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SUB CONTRACTOR(S):

PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149

DATE: 10136117 SUMMARY OF SURVEYOR'S ACTIVITIES:

> Nore , Put Martin will schedule windel survivors for Friley, News 2 2212 Cper And Gallos.

# SUMMARY OF PROBLEMS AND RESOLUTIONS:

Mick (Gro Science) doesn't betieve that we drilled into Rucention @ SZG. Hard to till From Cuttings but C End of hole CUG-FFT, cuttings, though net, were still tan-bring of -> Mick can bring additional dwill wills tomorrow to finish off the remaining Few borchiles

Ly Will group 524+525 today and complete the drilling towome (11/1/12). Remaining BHS (S28, S29 + S27 + go deeper) will be drilled + granted tomorrow,

# SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

1 WO - Stan Rodon CINYSDEC? on site, wents to make sure we are drilling recording bareholes into Queensten Shale.

1145-Stan R. OFT-Site

ملتنع

Intermet 70 Martin (Golder) of gruting dulling status today.

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

9-Sevensen personnel in Level D pre. 1- Gulder in Level & PPC

t-Groscience personnel (inice) in tour oppe

Ruself Marlop

GOLDER FORM: G5-0699 (JANUARY 2005)

FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Servcices OWNER: SUB CONTRACTOR(S): Lockport, New York LOCATION: 11-1-12 DATE: 43°F @ 0960 HIGH - 44°ρ [600 WIND 1474 Wi TEMPERATURE: WEATHER: PRECIPITATI CLOUD COVER GOLDER PERSONNEL ON SITE: (0800 - 1600) IARY OF CONSTRUCTION PROGRESS: 14' Flowable fill, 12' into whirlpool, 26 ft total 528: S29: 14' flowable fill, 22-3" grout, 12' into whir/pool. 26'total gion ting 526: 38 bugs total, potential communication with creek but, due to creek turbity, we were unable to verify. After thickening up growt, refusal was reached @ 50psi. SRS: took 22 bays intil refusal No return observed 50 psi GOLDER ACTIVITIES AND TEST RESULTS: 529; took 23 bags until retusal @ 65 psi. No communication

Golder

(JANUARY 2005)

/ SUBMITTED BY: GFOA Lagge

PROJECT NUM		093-89168		Creek Bank Corrective Measures -Site No. 932149
OWNER:		Mark Chemical	CONTRACTOR: SUB CONTRACTOR(S):	Sevenson Environmental Services, INC.
LOCATION:	Госкрогт,	New York	- SUB CONTRACTOR(5):	
	DATE:	H-1-12		
SUMMARY (	O <u>F SURVEYO</u>	<b>R'S ACTIVITI</b>	ES:	
None				. **
· ·				

## SUMMARY OF PROBLEMS AND RESOLUTIONS:

None		-	

SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Nene

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## SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

NOAL

SUBMITTED BY:

GOLDER FORM; G5-0699 (JANUARY 2005)

т. н	FIELD N	IONITORING SU	JMMARY
PROJECT NUMBE OWNER: LOCATION:	CR: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	
	DATE: 4-2-		
WEATHER: CLOUD COVER	TEMPERATURE:	low: <u>39°,</u> @_ precipitation	<u>0860</u> HIGH@ <u>iùà li + Ain</u> WIND <u>113/1 + In-122</u>
GOLDER PERS	SONNEL ON SITE:	<b>\</b>	<i>v</i> .
SUMANT OF	CONSTRUCTION PROGR	1800 - 1215) FSS:	
Sevenson All larg to help	is prepay site fo e Nocks have be Support the access re	er excavation of en moved to pad.	- collection french on Monday, The west side of old stone structure
GOLDER ACTI	VITIES AND TEST RESUL	TS:	
			•



SÖBMITTED BY:

and the second s

GOLDER FORM: R4-0699 (JANUARY 2005)

# FIELD MONITORING SUMMARY

				SHEET 2 OF 2					
PROJECT NUM	IBER:	093-891	68	PROJECT TI	TLE: _Creel	Bank Correctiv	e Measure:	s -Site No. 93214	19
OWNER:	SNPE	- VanDeMark C	hemical	CONTRAC	FOR: 5	Sevenson Enviror	mental Se	rvices, INC.	_
LOCATION:	I	ockport, New Y	ork	SUB CONTRACTO	R(S):	······			
									_
		DATE:	11-2-1	2					
SUMMARY	OF SUR	VEYOR'S A							
0900: h	)ende/	unsite.	Wendel	provided n at the	3 br.	nchmarter	£-	future	use.
Several	shold	Wello a	los toko	n at the	5 10 64	end	TUT	M/MIC	
	-		/4/	· · · · · · · · · · · ·	west.	LAD.			
1						•			

## SUMMARY OF PROBLEMS AND RESOLUTIONS:

Vonz	i	
MMARY OF MEETINGS	 	 

## SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

Nore

SUBMITTED BY:

GOLDER FORM: G5-0699 (JANUARY 2005)

FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 Creek Bank Corrective Measures -Site No. 932149 PROJECT TITLE: SNPE - VanDeMark Chemical OWNER: CONTRACTOR: Sevenson Environmental Services LOCATION: Lockport, New York SUB CONTRACTOR(S): DATE: 111-5-12 <u>34°F @ 0800</u> high 10n <u>\_\_\_\_\_000 e</u>\_\_\_\_\_ TEMPERATURE: LOW: WEATHER: overcas + CLOUD COVER PRECIPITATION **GOLDER PERSONNEL ON SITE:** (0730 - 1530)summary of construction progress: Haron Lange beginning collection trench at western ends 0815: Sevenson is 1030: x40' completed. Bedrock reached at most of the length. (24.5) Stone was placed, Then filter fabric, The = 6-12" of stone on 190. large coal tar seam found at ~ 80'-90' From West end A Sevenson chased it north water to y'. The trench shallows from 70-90', The trench is \$ 2.5' bys at 90' due to sandstone bedrock, = 3.5' @ 70' Trench ~ 2.5' bys @ 110'.

GOLDER ACTIVITIES AND TEST RESULTS:



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

GOLDER ASSOCIATES INC.

Trench completed up to 110' Som west end.

# FIELD MONITORING SUMMARY

			SHEET 2 OF 2		
PROJECT NUM	IBER:	093-89168	PROJECT TITLE:	Creek Bank Corrective Measures -Site No. 932149	
OWNER:	SNPE	- VanDeMark Chemical	CONTRACTOR:	Sevenson Environmental Services, INC.	
LOCATION:	I	Lockport, New York	SUB CONTRACTOR(S):		
		DATE: 11-5	-12		
SUMMARY	OF SUF	<b>VEYOR'S</b> ACTIVITE			
Nore					
			·		
SUMMARY	OF PRO	BLEMS AND RESOL	UTIONS:		
None					
None					
					*

SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

.

None

# SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

	SUBMITTED BY:
None	
	·

GOLDER FORM: G5-0699 (JANUARY 2005) FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical OWNER: CONTRACTOR: Sevenson Environmental Serveices LOCATION: SUB CONTRACTOR(S): Lockport, New York 11-6-12 DATE: <u>30° F @ 0730 HIGH 40° F @ 1500</u> ATION <u>1000 Calm</u> темрегати**г**е: *factly с loidy* LOW: WEATHER: PRECIPITATION CLOUD COVER GOLDER PERSONNEL ON SITE: 0715-1515 taron ange SUMMARY OF CONSTRUCTION PROGRESS: orso Sevensen Confirming trench east from ≈ 1151, 0830: trench dag up to 150' from west end. 1030: trench dag up to 190' from west end. 1120: trench backfilled up to 190' east of 1120: trench dag and backfilled up to 240' east of western end. heavy could tar towards bottom of trench from ≈ 180' (stone wall) to 230'. 1515: trench dag up to 260'

GOLDER ACTIVITIES AND TEST RESULTS:



SUBMITTED BY: Large

GOLDER FORM; R4-0699 (JANUARY 2005)

	3-89168		Creek Bank Corrective M		
SNPE - VanDeMa           OWNER:         SNPE - VanDeMa           LOCATION:         Lockport, Ne		CONTRACTOR: CONTRACTOR(S):	Sevenson Environme	ental Services, INC.	
DATE:	11-6-12				
UMMARY OF SURVEYOR'S					
None					
	··· · · · ·	·			
		·			
SUMMARY OF PROBLEMS	AND RESOLUTION		· · · · · · · · · · · · · · · · · · ·		
None		15			
			· ·		
	<b>_</b>				
SUMMARY OF MEETINGS A	AND DISCUSSIONS	SHELD (ATTEND)	EES AND ISSUES): - 0^ la se	boulders rema	
St Mike H. (DE Olony craet	L).			12.40	1 Co.1
Wory Crark .					
SUMMARY OF INCIDENTS /	ACCIDENTS / HE	ALTH AND SAFE	TY ISSUES:		
None					
			SAPA	ALPTED BY:	

GOLDER FORM: G5-0699 (JANUARY 2005)

FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 093-89168 PROJECT NUMBER: SNPE - VanDeMark Chemical Sevenson Environmental Servcices OWNER: CONTRACTOR: Lockport, New York SUB CONTRACTOR(S): LOCATION: 11-7-12 DATE: LOW: 27°F @ 0730 HIGH PRECIPITATION <u>1040</u>  $\frac{1}{\sqrt{16}} = \frac{1}{\sqrt{16}} = \frac{1}{\sqrt{16}}$ TEMPERATURE: WEATHER: none CLOUD COVER **GOLDER PERSONNEL ON SITE:** Haron Lange (0715 - 1530 SUMMARY OF CONSTRUCTION PROGRESS: 0730: Sevenson is using larger excavator to dig Through Flowable fill along pump vaults 1000: the trench is completely duy to 300' The eastern and of French is most likely very close to the inciter inlet Pipe for the pump built. Future excavations Should take givent rure to avoid that pipe. 1100: The collection french is completely backfilled. Sevenson will begin digging hole for the treatment vault it west end, the cross pipe will cross the flow-ble fill wall \$27' from West end. GOLDER ACTIVITIES AND TEST RESULTS: 1130: serve vault hole 2 22' from west end to 29'. Gal tar excavated at 4.5'-5.5' at northwest corner 1230. This tailed with with inlet hole to the east and outlet hole to the west. Sump drain is a 3x3 x3' a 8' west of vault. of hole. SUBMITTED BY: ange

GOLDER FORM; R4-0699 (JANUARY 2005)

FIELD M	ONITORING SUMMARY
	SHEET 2 OF 2
PROJECT NUMBER: 093-89168	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER: SNPE - VanDeMark Chemical	CONTRACTOR: Sevenson Environmental Services, INC.
LOCATION: Lockport, New York	SUB CONTRACTOR(S):
<u>, , , , , , , , , , , , , , , , , , , </u>	
DATE: //~7-/4	
SUMMARY OF SURVEYOR'S ACTIVITIE	S:
A	
Dine	
SUMMARY OF PROBLEMS AND RESOLU	UTIONS:
10one	
SUMMARY OF MEETINGS AND DISCUS	SIONS HELD (ATTENDEES AND ISSUES):
Fn	
None	
SUMMARY OF INCIDENTS / ACCIDENTS	C/HEATTH AND CAFETY ISSUES.
	THEALTH AND SAFETT ISSUES.
None	
	SUDMTTURD DX
	SUBMITTED BY:
	Un
GOLDER FORM: G5-0699 (JANUARY 2015)	
(JANUARY 2005)	
(JANUARY 2005)	DER ASSOCIATES INC.
(JANUARY 2005)	
(JANUARY 2005)	
(JANUARY 2005)	

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FIELD MONITORING SUMMARY
SHEET 1 OF 2         PROJECT NUMBER:       093-89168         OWNER:       SNPE - VanDeMark Chemical         LOCATION:       Lockport, New York    SHEET 1 OF 2        SHEET 1 OF 2    PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149        SUB CONTRACTOR:     Sevenson Environmental Serveices
DATE: $1/-8-12$
WEATHER: TEMPERATURE: LOW: $25^{\circ}F_{\odot}$ $3730_{HIGH}$ $42^{\circ}F_{\odot}$ $1500_{OIII}$ CLOUD COVER $100^{\circ}$ PRECIPITATION $100^{\circ}$ WIND $310^{\circ}$
GOLDER PERSONNEL ON SITE:
Haron Lagge (0-715-1515) Pat Martin (0500 -930) SUMMARY OF CONSTRUCTION PROGRESS:
sevensor attached 90° elbow and vertick pipe in vault.
1000: began building forms for the retaining wall in Van It. refar was drilled into sides and bottom for support. The 3 2" weaps pipes are laying on bottom. concrete should be here around
1300. 1430: Concrede wall is poused. Stan R- (DEC) was onste, No issues noted

GOLDER ACTIVITIES AND TEST RESULTS:



/SUBMITTED BY:

GOLDER FORM; R4-0699 (JANUARY 2005)

# FIELD MONITORING SUMMARY

PROJECT NUM OWNER: LOCATION:	IBER: 093 SNPE - VanDeMa Lockport, Ne		SHEET 2 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	Creek Bank Corrective Measures -Site No. 93 Sevenson Environmental Services, INC.	
SUMMARY	DATE: OF SURVEYOR'S	//-8-/ S ACTIVITIE	/2 S:	· · · · · · · · · · · · · · · · · · ·	
None					
· ·					

## SUMMARY OF PROBLEMS AND RESOLUTIONS:

Nore			

#### SUMMARY OF MEETINGS AND DISCUSSIONS HELD (ATTENDEES AND ISSUES):

None

## SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

None

SUBMITTED BY:

GOLDER FORM: G5-0699 (JANUARY 2005)

FIELD MONITORING SUMMARY
SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149
OWNER:     SNPE - VanDeMark Chemical     CONTRACTOR:     Sevenson Environmental Serveices
LOCATION: Lockport, New York SUB CONTRACTOR(S):
DATE: 11-9-12
WEATHER: TEMPERATURE: LOW: $37^{\circ}F$ @ 0730 High $48^{\circ}F$ @ 1300 / CLOUD COVER
CLOUD COVER OVERCAST PRECIPITATION have WIND CUM
GOLDER PERSONNEL ON SITE:
Aaron Lange (0715-1530)
SUMMARY OF CONSTRUCTION PROGRESS:
0715: Severson has removed the forms from the retaining wall and installed the physics coated nyton screen across the 3
installed the plastic coated nyton screen across the 3
Weap holes. 1030, Sevenson has growted the top onto The Vault, after installing Re
OF INGT
- le trucks so fair, have been backed for disposal at modern - coul fair from large rocks has been removed and sciencon is starting + name scal tar from The creek embantment.
1300. 14 trucks have been loaded so our.
1430: A large amount (= 1 xd3) of coal far renoved thom
Stream bank on old stone structure,

GOLDER ACTIVITIES AND TEST RESULTS: 1530: 17 trucks total went to Medern



SUBMITTED BY:

GOLDER FORM: R4-0699 (JANUARY 2005)

# TN OTAT

PROJECT NUMB DWNER:	ER: 093-89168 SNPE - VanDeMark Chemical	_ PROJECT TITLE: _	Creek Bank Corrective Measures -Site No. 932149 Sevenson Environmental Services, INC.
LOCATION:	Lockport, New York	SUB CONTRACTOR(S):	
	DATE: 11-9-	-12	<u> </u>
SUMMARY O	F SURVEYOR'S ACTIVIT		
None			
		<u> </u>	· · · · · · · · · · · · · · · · · · ·
	F PROBLEMS AND RESO	LUTIONS:	
None			
			-
	F MEETINGS AND DISCU	<u>SSIONS HELD (ATTEND</u>	EES AND ISSUES):
None			
UMMARY O	FINCIDENTS / ACCIDENT	<b>FS / HEALTH AND SAFE</b>	FY ISSUES:
None			
			SUBMETTED BY:
OLDER FORM: G5-0699 ANUARY 2005)			

	<b>FIELD</b>	MONITORING SU	JMMARY	
		SHEET 1 OF 2	·	
PROJECT NUMBER:	093-89168	PROJECT TITLE:		· · · · · · · · · · · · · · · · · · ·
	E - VanDeMark Chemical Lockport, New York	CONTRACTOR: SUB CONTRACTOR(S):	Sevenson Environmental Serve	ces
LUCATION:	LUCKPOFT, New YOFK	SUB_CONTRACTOR(3);		,
	DATE: 1/1-12	-/B_		
WEATHER:	TEMPERATURE:	LOW: 6/ F @	1245 HIGH @	
CLOUD COVER	mostly cloudy	PRECIPITATION	NONE WIND U	Vindy
,				
GOLDER PERSONN	VEL ON SITE:	-		
Aaron	Large	(1245- 151	<sup>7</sup> 5)	
SUMMARY OF CO	NSTRUCTIÓN PROGI	RESS:	3	
Sevenson The collection	has installed in treach.	l Re 4	Monitoring points	within
Bevenson	began preping	, for drilling	terrerron.	

## GOLDER ACTIVITIES AND TEST RESULTS:

Golder	SUBMITTED BY:
Nore	

GOLDER FORM; R4-0699 (JANUARY 2005)

GOLDER ASSOCIATES INC.

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PROJECT NUMBER: 093		2 OF 2 JECT TITLE: Creek I	Bank Corrective Measures -Site No. 932149	
OWNER: SNPE - VanDeMa	ark Chemical CO	NTRACTOR: Se	venson Environmental Services, INC.	
LOCATION: Lockport, Ne	ew York SUB CONT	FRACTOR(S):	······	
DATE:	11-12-12		. N	
SUMMARY OF SURVEYOR'				
None				
SUMMARY OF PROBLEMS	AND RESOLUTIONS:			
Wore		.*		
SUMMARY OF MEETINGS A	AND DISCUSSIONS HEL	D (ATTENDEES A	ND ISSUES):	
None				
	ACCIDENTS / HEALTI		N 1620.	
SUMMARY OF INCIDENTS /	ACCIDENTS / HEALTH	I AND SAFETY 155	SUES:	
None				
			·····	
			SUBMITTED BT:	
			Ma	
GOLDER FORM: G5-0699				
JANUARY 2005)	GOLDER ASSO	OCIATES INC.		

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FIELD MONITORING SUMMARY
SHEET 1 OF 2         PROJECT NUMBER:       093-89168       PROJECT TITLE:       Creek Bank Corrective Measures -Site No. 932149         OWNER:       SNPE - VanDeMark Chemical       CONTRACTOR:       Sevenson Environmental Servcices         LOCATION:       Lockport, New York       SUB CONTRACTOR(S):
DATE: $1-13-12$ WEATHER: TEMPERATURE: LOW: $36^{\circ}F$ @ $0800$ HIGH @
WEATHER:     TEMPERATURE:     LOW:     Composition     Composition     High     Composition       CLOUD COVER     Composition     PRECIPITATION     High     WIND     Herzy
GOLDER PERSONNEL ON SITE:
Aaron Lange (0730-1575)
SUMMARY OF CONSTRUCTION PROGRESS:
Sevenson drilled P2-1 (Suth east piezometer) to q'12' tos P2+1: 4' of scheen =5' of sand, 2' tentonik, i' pentonite/cernent mix ausse sand up to zia" from toport casing. P2-2 : 8' total bgs. 8' of scroon. 3, 5' of sand (Nerthoust) 2' Bentonite, Cement/Bendonite mixture (2.5), coarse sand to 28" from top of casing.

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## GOLDER ACTIVITIES AND TEST RESULTS:



.

SUBMITTED BY: Aaron Lange

GOLDER FORM: R4-0699 (JANUARY 2005)

None

ROJECT NUMBER: 093-89168	PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149	
OWNER: SNPE - VanDeMark Chemica	al CONTRACTOR: Sevenson Environmental Services, INC.	
OCATION: Lockport, New York	SUB CONTRACTOR(S):	
DATE: 1/-	13-12	
SUMMARY OF SURVEYOR'S ACTIV		
None		
	SOLUTIONS.	
SUMMARY OF PROBLEMS AND RES ለአካላ	SOLUTIONS:	
June		
SUMMARY OF MEETINGS AND DISC	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
SUMMARY OF MEETINGS AND DISC None	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
	CUSSIONS HELD (ATTENDEES AND ISSUES):	
None	CUSSIONS HELD (ATTENDEES AND ISSUES):	
None	χ	
None Summary of incidents / accide	χ	
None Summary of incidents / accide	χ	
None Summary of incidents / accide	χ	
None Summary of incidents / accide	χ	
None Summary of incidents / accide	ENTS / HEALTH AND SAFETY ISSUES:	
None Summary of incidents / accide	χ	
None Summary of incidents / accide	ENTS / HEALTH AND SAFETY ISSUES:	

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FIELD MONITORING SUMMARY SHEET 1 OF 2 PROJECT NUMBER: 093-89168 PROJECT TITLE: Creek Bank Corrective Measures -Site No. 932149 OWNER: SNPE - VanDeMark Chemical CONTRACTOR: Sevenson Environmental Services LOCATION: Lockport, New York SUB CONTRACTOR(S): 11-15-12 DATE: 30°F @ 0730 HIGH  $\frac{4S^{a}F}{WND} = \frac{1}{4}$ TEMPERATURE: LOW: WEATHER: CLOUD COVER PRECIPITATION GOLDER PERSONNEL ON SITE: Maron Lange (6715-1445) SUMMARY OF CONSTRUCTION PROGRESS: on 11-14-12, Sevenson installed PZ-3 and PZ(4). PZ-3: 10 hole, 3' of screen, 4' of sand 2'6" benonite, 3'-6" cements bentonite Mix, coarse sand, PZ:4: 10' hole, 5' screen, 6' sand, 2' bentoite, 2' cenent/bentonite Mix, coarse sand 11-15-12 Sevensen added activated carbon (carbsorb 30) to bottom of filter sump. sand is coming later This marning. i of carbon and I' of pool filter sand are now in vault. Sevenson day through slarry wall te install 4" puc GOLDER ACTIVITIES AND TEST RESULTS: pipe to collection trench. The pipe (through the Drain shurry wall) was sealed with cement to the top of the shurry wall. Sevenson also removed all tree depris at the top of the hill from initial grubbing. Severson has smoothed out the entire access road. SUBMITTED BY:

GOLDER ASSOCIATES INC.

GOLDER FORM: R4-0699 (JANUARY 2005)

	FIELD MON	NITORING SUM	IMARY	
PROJECT NUMBER:	093-89168	SHEET 2 OF 2 PROJECT TITLE: (	Creek Bank Corrective Measures -Site	e No. 932149
WNER: SNPE - VanD	eMark Chemical	CONTRACTOR: SUB CONTRACTOR(S):		
DATE:				
JMMARY OF SURVEYO	<u>DR'S ACTIVITIES:</u>			
None				
MMARY OF PROBLEM	<u>4S AND RESOLUTI</u>	IONS:		·····
None				
UMMARY OF MEETING	S AND DISCUSSIO	NS HELD (ATTENDE	ES AND ISSUES):	
Nore				
JMMARY OF INCIDENT	<b>FS / ACCIDENTS / I</b>	HEALTH AND SAFET	Y ISSUES:	
None				
i -				
			SUBMITTED	RV.
			SUBWITTE	жD1.
LDER FORM: G5-0699			- Chr	
NUARY 2005)	GOLDE	ER ASSOCIATES IN	7	
1				
J				

Page 1 of

SEE ATTACHED FIGURE

SITE PLAN/SKETCH

RUSGEU MARCHESTE Inspector (print name)

RUSSEL MARCHESE

 $\frac{q/z_6/z_{01}z_{-}}{Date of Inspection}$ 

Russel Marchoo Qualified Professional Signature

Qualified Professional (print name) The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

## **Maintaining Water Quality**

## Yes No NA

[] [Y [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?

[] [4] [] 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.
- [] [4 [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

## Housekeeping

L General Site Conditions

Yes No NA

- [1] Is construction site litter and debris appropriately managed?
- [4 [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] [] Is construction impacting the adjacent property?

[4 [] [] Is dust adequately controlled? - wit conditions lawing inspection

2. Temporary Stream Crossing

Yes No NA

- [] [] [] Maximum diameter pipes necessary to span creek without dredging are installed.
- [1] [1] Installed non-woven geotextile fabric beneath approaches.
- [1] [] Is fill composed of aggregate (no earth or soil)?-
- [0 ] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

## **Runoff Control Practices**

1. Excavation Dewatering

Yes No NA

- [] [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- [] [] [ Clean water from upstream pool is being pumped to the downstream pool.
- [] [] [] Sediment laden water from work area is being discharged to a silt-trapping device.
- [] [] [4-Constructed upstream berm with one-foot minimum freeboard.

## 2. Level Spreader

Yes No NA

- [] [] [, ] Installed per plan.
- [] [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- [] [] [4 Flow sheets out of level spreader without erosion on downstream edge.

## 3. Interceptor Dikes and Swales

Yes No NA

- [] [] [] Installed per plan with minimum side slopes 2H:1V or flatter. . Some temp carther likes along
- [] [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring. + Hent align ment
- [] [] [4] Sediment-laden runoff directed to sediment trapping structure

#### **CONSTRUCTION DURATION INSPECTIONS Runoff Control Practices (continued)**

Page 3 of 4

4. Stone Check Dam

#### Yes No NA

- [] [] [] I's channel stable? (flow is not eroding soil underneath or around the structure).
- [] [] [4 Check is in good condition (rocks in place and no permanent pools behind the structure).
- [] [] [4Has accumulated sediment been removed?.

5. Rock Outlet Protection

## Yes No NA

[] [] [] Installed per plan.

[] [] [J] Installed concurrently with pipe installation.

## Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[] []/[4Stockpiles are stabilized with vegetation and/or mulch.

[] [] Sediment control is installed at the toe of the slope. - Stayed on plaster Sheeting during Staging activities.

## 2. Revegetation

Yes No NA 💡

[] [] [] [] Temporary seedings and mulch have been applied to idle areas.

[] [] [44 inches minimum of topsoil has been applied under permanent seedings  $2 \frac{Construct. z_{w}}{Stage}$ .

## **Sediment Control Practices**

1. Stabilized Construction Entrance

Yes No NA

 $[\Psi_{1}]$  [] Stone is clean enough to effectively remove mud from vehicles.

[1] [] Installed per standards and specifications?

[4 [] Does all traffic use the stabilized entrance to enter and leave site?

[4] [] Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

['\_[]\_[] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).

[J/[] [] Joints constructed by wrapping the two ends together for continuous support.

	[] Fabric buried 6 inches minimum Reinford in Some Sections [] Posts are stable, fabric is tight and without rips or frayed areas.	~   sand bays than he
[][]	[] Posts are stable, fabric is tight and without rips or frayed areas.	i referring pares,

Sediment accumulation is  $\cancel{0}$ % of design capacity.

#### Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

- [] [] [4 Installed concrete blocks lengthwise so open ends face outward, not upward.
- [] [] Placed wire screen between No. 3 crushed stone and concrete blocks.
- [4] [] Drainage area is lacre or less.
- [] [] Excavated area is 900 cubic feet.  $2900 \text{ Fr}^3$  -
- [] [] [] Excavated side slopes should be 2:1.
- [] [] [] [] x 4" 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 max 8inch spacing.
- [] [] [HPosts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation \_\_\_\_% of design capacity.

4. Temporary Sediment Trap

Yes No NA

- [] [] [] Outlet structure is constructed per the approved plan or drawing.
- [] [] [4Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] [] Basin and outlet structure constructed per the approved plan.

[] [] [] Basin side slopes are stabilized with seed/mulch.

[] [] [] [] Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is \_\_\_\_\_% of design capacity.

<u>Note</u>: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

Page 1 of 4

SITE PLAN/SKETCH

RUSSEL MARCHESE

Inspector (print name)

RUSSELL MARCHESE

10/31/2012 Date of Inspection uspell Marcha

Qualified Professional Signature

Qualified Professional (print name) The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

#### Maintaining Water Quality

#### Yes No NA

- [] [x] [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- [] [x] [] 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.
- [] [x] [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?- Creek turbulent
  - due to vecent storm events + runoFF From nawly canal.

#### Housekeeping

1. General Site Conditions

Yes No NA

- $\lambda$  [] [] Is construction site litter and debris appropriately managed?
- [x] [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] [X] [] Is construction impacting the adjacent property?
- [] [] [] [] Is dust adequately controlled? wet ground conditions during inspection.

2. Temporary Stream Crossing

Yes No NA

- [] [] [N Maximum diameter pipes necessary to span creek without dredging are installed.
- [X] [] [] Installed non-woven geotextile fabric beneath approaches.
- [] [] Is fill composed of aggregate (no earth or soil)?
- [A [] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

## **Runoff Control Practices**

1. Excavation Dewatering

Yes No NA

- [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.  $F_{WA}$  is the order [] [] [X] Clean water from upstream pool is being pumped to the downstream pool. Site Finic / here bales increased
- [] [] [N] Sediment laden water from work area is being discharged to a silt-trapping device.
- [X] [] [] Constructed upstream berm with one-foot minimum freeboard. Evina layin of huy helos / Si It River installing. + Sandbeys

## 2. Level Spreader

Yes No NA

- [] [] [N] Installed per plan.
- [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- $\begin{bmatrix} \end{bmatrix}$   $\begin{bmatrix} \end{bmatrix}$  Flow sheets out of level spreader without erosion on downstream edge.

## 3. Interceptor Dikes and Swales

## Yes No NA

- [] [] [] Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [] Sediment-laden runoff directed to sediment trapping structure

#### CONSTRUCTION DURATION INSPECTIONS **Runoff Control Practices (continued)**

#### 4. Stone Check Dam

#### Yes No NA

- [] [] [N] Is channel stable? (flow is not eroding soil underneath or around the structure).
- [] [] [] Check is in good condition (rocks in place and no permanent pools behind the structure).
- [] [] [] Has accumulated sediment been removed?.
- 5. Rock Outlet Protection

#### Yes No NA

- [] [] [**{**] Installed per plan.
- [] [] [] [] Installed concurrently with pipe installation.

#### Soil Stabilization

I. Topsoil and Spoil Stockpiles

Yes No NA

- [] [] [X] Stockpiles are stabilized with vegetation and/or mulch. > All fomp. Stockpiles removed from [] [] [X] Sediment control is installed at the top of the slope. Site Staging area.

## 2. Revegetation

#### Yes No NA

- Constr. in progress [] [] [/] Temporary seedings and mulch have been applied to idle areas.
- $\begin{bmatrix} \end{bmatrix}$   $\begin{bmatrix} x \end{bmatrix}$  4 inches minimum of topsoil has been applied under permanent seedings

## **Sediment Control Practices**

I. Stabilized Construction Entrance

Yes No NA

- [x] [] Stone is clean enough to effectively remove mud from vehicles.
- [x] [] Installed per standards and specifications?
- [X] [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [] [] Is adequate drainage provided to prevent ponding at entrance?

#### 2. Silt Fence

#### Yes No NA

- [N] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
- [N] [] 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.

sediment accumulation is  $\zeta$  % of design capacity.

August 2005

Page 3 of \_\_\_\_\_

## Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

- [] [] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.
- [] [] [X] Placed wire screen between No. 3 crushed stone and concrete blocks.
- [X] [] [] Drainage area is lacre or less.
- [x] [] [] Excavated area is 900 cubic feet.
- [] [] [] Excavated side slopes should be 2:1. No open trenches currently on site.
- [] [] [x] 2" x 4" 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 max 8inch spacing.
- [] [] [N] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation \_\_\_\_% of design capacity.

4. Temporary Sediment Trap

Yes No NA

[] [] [X] Outlet structure is constructed per the approved plan or drawing.

[] [] [] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] Basin and outlet structure constructed per the approved plan.

[] [] [] Basin side slopes are stabilized with seed/mulch.

[] [] [] Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is \_\_\_\_% of design capacity.

<u>Note</u>: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

Page 1 of  $\frac{4}{2}$ 

#### SITE PLAN/SKETCH

RUSSELL J. MHACHESE

t

Inspector (print name)

RUSSELL J. MARCHESE

Lols/2012 Date of Inspection \_usell

Qualified Professional Signature

Qualified Professional (print name)

J

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

#### **Maintaining Water Quality**

#### Yes No NA

- [] [x] [] 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?
- [x] [] All disturbance is within the limits of the approved plans.
- [] [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

#### Housekeeping

1. General Site Conditions

Yes No NA

- [k] [], [] Is construction site litter and debris appropriately managed?
- [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] [x] [] Is construction impacting the adjacent property?
- [x] [] [] Is dust adequately controlled? wet grind conditions during inspection.

## 2. Temporary Stream Crossing

Yes No NA

- [] [] [Y] Maximum diameter pipes necessary to span creek without dredging are installed.
- [X] [] [A Installed non-woven geotextile fabric beneath approaches. Acces read into site.
- [X] [] [] Is fill composed of aggregate (no earth or soil)? -
- [X] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

## **Runoff Control Practices**

1. Excavation Dewatering

Yes No NA

- 🕅 [] 🙀 Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan. Hay fales + Silf Fence
- [] [] [] [] Clean water from upstream pool is being pumped to the downstream pool.
- [X] [] For Sediment laden water from work area is being discharged to a silt-trapping device.-Hay balas + Sitt
- [] [] [X] Constructed upstream berm with one-foot minimum freeboard.

#### 2. Level Spreader

Yes No NA

- [] [] [X] Installed per plan.
- [] [] [X] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- [] [] [A Flow sheets out of level spreader without erosion on downstream edge.

#### 3. Interceptor Dikes and Swales

Yes No NA

- [] [] [] [] Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [X] Sediment-laden runoff directed to sediment trapping structure

Frace

#### CONSTRUCTION DURATION INSPECTIONS Runoff Control Practices (continued)

4. Stone Check Dam

#### Yes No NA

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- [] [] [X Is channel stable? (flow is not eroding soil underneath or around the structure).
- [] [] [] Check is in good condition (rocks in place and no permanent pools behind the structure).

[] [] [X] Has accumulated sediment been removed?.

## 5. Rock Outlet Protection

## Yes No NA

[] [] [] Installed per plan.

[] [] [] Installed concurrently with pipe installation.

## Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- [] [] [X Stockpiles are stabilized with vegetation and/or mulch. Conned up ply plustic sheeting:
- [] [] Sediment control is installed at the toe of the slope. Stock piles temporarily staged on plastic sheeting.

## 2. Revegetation

## Yes No NA

- [] [] [X] Temporary seedings and mulch have been applied to idle areas. Constr. Still in progress
- [] [] [] 4 inches minimum of topsoil has been applied under permanent seedings 145 above.

## Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

- [] [] Stone is clean enough to effectively remove mud from vehicles.
- [**/**] [] Installed per standards and specifications?
- [k] [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [x] [] [] Is adequate drainage provided to prevent ponding at entrance?

## 2. Silt Fence

Yes No NA

- [X] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
- [k] [] [] Joints constructed by wrapping the two ends together for continuous support.
- [K] [] [] Fabric buried 6 inches minimum.

[X] [] [] Posts are stable, fabric is tight and without rips or frayed areas. - KeinForcal w/ Sand bags along steeper Sediment accumulation is <u>OZ</u>% of design capacity. Sediment accumulation is <u>OZ</u>% of design capacity. Sediment accumulation is <u>OZ</u>% of design capacity.

#### Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

[] [] [X] Installed concrete blocks lengthwise so open ends face outward, not upward.

- [] [] [V Placed wire screen between No. 3 crushed stone and concrete blocks.
- [] [] [] [] Drainage area is lacre or less.
- [] [] [/ Excavated area is 900 cubic feet.
- [] [] [] Excavated side slopes should be 2:1.
- [] [] [] 2" x 4" frame is constructed and structurally sound.
- [] [] Dosts 3-foot maximum spacing between posts.
- [] [] [] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8inch spacing.
- [] [] [X] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation \_\_\_\_% of design capacity.

4. Temporary Sediment Trap

Yes No NA

[] [] [] Outlet structure is constructed per the approved plan or drawing.

[] [] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] [X] Basin and outlet structure constructed per the approved plan.

[] [] 🔂 Basin side slopes are stabilized with seed/mulch.

[] [] [] Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is \_\_\_\_% of design capacity.

Note:

Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

#### SITE PLAN/SKETCH

KUSSEU MARCHESE Inspector (print name)

Qualified Professional (print name)

<u>loliz zoiz</u> Date of Inspection Lero

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

#### **Maintaining Water Quality**

#### Yes No NA

- [] [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- $\begin{bmatrix} x \\ z \end{bmatrix}$  [] Is there residue from oil and floating substances, visible oil film, or globules or grease? Contarted  $\begin{bmatrix} x \\ z \end{bmatrix}$  [] All disturbance is within the limits of the approved plans. With side work limits.
- [] [y] [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project? Small ane
  - @ West end of there he rein Found of geo Fabric and additional hay bales.

## Housekeeping

1. General Site Conditions

## Yes No NA

- [] [] Is construction site litter and debris appropriately managed?-Great bags in refuse bags.
- K [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [M] [] Is construction impacting the adjacent property?
- [X [] [] Is dust adequately controlled? wet conditions From recent vain event

## 2. Temporary Stream Crossing

Yes No NA

- [] [] [X Maximum diameter pipes necessary to span creek without dredging are installed.
- [X] [] [] Installed non-woven geotextile fabric beneath approaches. -Access was into site.
- [x] [] [] Is fill composed of aggregate (no earth or soil)?
- [7] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

## **Runoff Control Practices**

1. Excavation Dewatering

Yes No NA

- [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan. Hay bales +Stilt Fince
- [] [] [A Clean water from upstream pool is being pumped to the downstream pool.
- [A] [] [] Sediment laden water from work area is being discharged to a silt-trapping device. Hay bales + Silf Fence
- [] [] [] Constructed upstream berm with one-foot minimum freeboard.

## 2. Level Spreader

Yes No NA

- [] [] [V] Installed per plan.
- [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- $\begin{bmatrix} 1 \end{bmatrix}$  Flow sheets out of level spreader without erosion on downstream edge.

## 3. Interceptor Dikes and Swales

Yes No NA

- [] [] [X Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] [A Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [] [] A Sediment-laden runoff directed to sediment trapping structure

#### CONSTRUCTION DURATION INSPECTIONS Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
[] [] [\] [\] Is channel stable? (flow is not eroding soil underneath or around the structure).
[] [] [\] Check is in good condition (rocks in place and no permanent pools behind the structure).
[] [] [\] Has accumulated sediment been removed?.
5. Rock Outlet Protection

#### Yes No NA

[] [] [X] Installed per plan.

[] [] [V] Installed concurrently with pipe installation.

#### Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- [] [] [] Stockpiles are stabilized with vegetation and/or mulch. Removed From Site permenenty.
- [] [] [] Sediment control is installed at the toe of the slope. \_ Reward From site permanently

## 2. Revegetation

#### Yes No NA

- [] [] [] Temporary seedings and mulch have been applied to idle areas. Constr. Still in progress
- [] [] [] 4 inches minimum of topsoil has been applied under permanent seedings \_ 10 10

## Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

- [X] [] [] Stone is clean enough to effectively remove mud from vehicles.
- [x] [] [] Installed per standards and specifications?
- [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [x] [] [] Is adequate drainage provided to prevent ponding at entrance?

## 2. Silt Fence

#### Yes No NA

- [X] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
- [x] [] Joints constructed by wrapping the two ends together for continuous support.
- [A] [] [] Fabric buried 6 inches minimum.
- [[] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is  $\cancel{2}$ % of design capacity.

#### Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

- [] [] [] Installed concrete blocks lengthwise so open ends face outward, not upward.
- [] [] [] Placed wire screen between No. 3 crushed stone and concrete blocks.
- [] [] [] Drainage area is lacre or less.
- [] [] [] Excavated area is 900 cubic feet.
- [] [] Excavated side slopes should be 2:1.
- [] [] [y] 2" x 4" 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 max 8inch spacing.
- [] [] [] Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation \_\_\_\_% of design capacity.

4. Temporary Sediment Trap

Yes No NA

- [] [] [] Outlet structure is constructed per the approved plan or drawing.
- [] [] [X] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

- [] [] [X] Basin and outlet structure constructed per the approved plan.
- [] [] [] Basin side slopes are stabilized with seed/mulch.
- $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$  Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is \_\_\_\_% of design capacity.
- <u>Note</u>: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

#### SITE PLAN/SKETCH

~ ~S

<u>RUSSELL J. MHRCHEIE</u> Inspector (print name)

RUSELL J. MHRCHESE

Qualified Professional Signature

10 /16/2012 Date of Inspection

Qualified Professional (print name) The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

New York Standards and Specifications For Erosion and Sediment Control

Page H.6

August 2005

2.1

4

Page 1 of

#### **Maintaining Water Quality**

#### Yes No NA

- [] 🕅 [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- [X] [] [] Is there residue from oil and floating substances, visible oil film, or globules or grease? Limited + Contactory which site limits
- [X [] [] All disturbance is within the limits of the approved plans.
- [] [X] [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project? -miner sed. inFitution @ west end amended of additional sitt France + geoFrance, extra hay bales.

#### Housekeeping

1. General Site Conditions

Yes No NA

- [6] [] Is construction site litter and debris appropriately managed?
- [x] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] [A [] Is construction impacting the adjacent property?

[K] [] [A] Is dust adequately controlled? - wet grand conditions of union inspection.

2. Temporary Stream Crossing

Yes No NA

- [] [] [X] Maximum diameter pipes necessary to span creek without dredging are installed.
- [ ] [ ] Installed non-woven geotextile fabric beneath approaches.
- [K] [] [] Is fill composed of aggregate (no earth or soil)?
- [x] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

#### **Runoff Control Practices**

1. Excavation Dewatering

**/Yes No NA** 

- [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per, plan, fein rene a whay bales.
- [] [] [X] Clean water from upstream pool is being pumped to the downstream pool.
- [] [] [] [] Sediment laden water from work area is being discharged to a silt-trapping device.
- [X] [] [] Constructed upstream berm with one-foot minimum freeboard. Rein Forced of hay bells, sitt Fence + Sand bags,

## 2. Level Spreader

Yes No NA

- [] [] [] Installed per plan.
- [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- [] [] [X] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

- [] [] [] Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [X] Sediment-laden runoff directed to sediment trapping structure

#### CONSTRUCTION DURATION INSPECTIONS Runoff Control Practices (continued)

4. Stone Check Dam

## Yes No NA

- [] [] [] [] [] [] Is channel stable? (flow is not eroding soil underneath or around the structure).
- [] [] [] Check is in good condition (rocks in place and no permanent pools behind the structure).

[] [] [] Has accumulated sediment been removed?.

5. Rock Outlet Protection

## Yes No NA

[] [] [X] Installed per plan.

[] [] [] [] Installed concurrently with pipe installation.

## Soil Stabilization

I. Topsoil and Spoil Stockpiles

Yes No NA

- [] [] [] Stockpiles are stabilized with vegetation and/or mulch. ~ Temp. Stockpiles remained From Site
- [] [] [/] Sediment control is installed at the toe of the slope.

## 2. Revegetation

## Yes No NA

- [] [] [] Temporary seedings and mulch have been applied to idle areas. Constr. in progress
- [] []  $\frac{1}{2}$  4 inches minimum of topsoil has been applied under permanent seedings -n''

## Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

- [A] [] [] Stone is clean enough to effectively remove mud from vehicles.
- [X] [] [] Installed per standards and specifications?
- [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [x] [] Is adequate drainage provided to prevent ponding at entrance?

## 2. Silt Fence

## Yes No NA

- [] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
- [x] [] [] Joints constructed by wrapping the two ends together for continuous support.
- [N] [] [] Fabric buried 6 inches minimum.

 $[\tilde{k}]$  [] Posts are stable, fabric is tight and without rips or frayed areas. - Let a Forced why balast sand bags. Sediment accumulation is z - 5% of design capacity.

#### Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

[] [] [] [] Installed concrete blocks lengthwise so open ends face outward, not upward.

[] [] [] Placed wire screen between No. 3 crushed stone and concrete blocks.

[X] [] [] Drainage area is lacre or less.

[x] [] [] Excavated area is 900 cubic feet.

[x] [] Excavated side slopes should be 2:1.

[] [] [X] 2" x 4" frame is constructed and structurally sound.

[] [] [X] 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 max 8inch spacing.

[] [] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation \_\_\_\_% of design capacity.

4. Temporary Sediment Trap

Yes No NA

[] [] [/] Outlet structure is constructed per the approved plan or drawing.

[] [] [/] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] [] Basin and outlet structure constructed per the approved plan.

[] [] [] Basin side slopes are stabilized with seed/mulch.

[] [] [] [ Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is \_\_\_\_% of design capacity.

Note: '

Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

Page 1 o

## SITE PLAN/SKETCH

Lango

Inspector (print namé)

 $\frac{10-25-12}{\text{Date of Inspection}}$ 

Qualified Professional Signature Qualified Professional (print name) The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

August 2005

Page 2 of 4

#### **Maintaining Water Quality**

#### Yes No NA

- [] [X] [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- [] [X] [] Is there residue from oil and floating substances, visible oil film, or globules or grease?
- [N [] [] All disturbance is within the limits of the approved plans.
- [] M [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

## Housekeeping

1. General Site Conditions

## Yes No NA

- [M [] [] Is construction site litter and debris appropriately managed?
- [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] 💦 [] Is construction impacting the adjacent property?
- [] [] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

- [] [] [N Maximum diameter pipes necessary to span creek without dredging are installed.
- [] [] Installed non-woven geotextile fabric beneath approaches.
- [x] [] Is fill composed of aggregate (no earth or soil)?
- [] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

## **Runoff Control Practices**

1. Excavation Dewatering

Yes No NA

- N. [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- [] [] [] Clean water from upstream pool is being pumped to the downstream pool.
- [] [] Sediment laden water from work area is being discharged to a silt-trapping device.
- [] [] Constructed upstream berm with one-foot minimum freeboard. They beles, still fence (X2), snorthys

## 2. Level Spreader

Yes No NA

- [] [] [] [] Installed per plan.
- [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- [] [] [] Flow sheets out of level spreader without erosion on downstream edge.

## 3. Interceptor Dikes and Swales

Yes No NA

- [] [] M Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [] Sediment-laden runoff directed to sediment trapping structure

Page 3 of \_\_\_\_\_

#### CONSTRUCTION DURATION INSPECTIONS **Runoff Control Practices (continued)**

Stone Check Dam

Yes No NA

- [] [] >-Check is in good condition (rocks in place and no permanent pools behind the structure).

[] [] [] [] [] [] Has accumulated sediment been removed?.

5. Rock Outlet Protection

#### Yes No NA

[] [] [] [] Installed per plan.

[] [] [] Installed concurrently with pipe installation.

#### Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- [] [] M Stockpiles are stabilized with vegetation and/or mulch.
- [] [] [] Sediment control is installed at the toe of the slope.

## 2. Revegetation

Yes No NA

- [] [] [] [] Temporary seedings and mulch have been applied to idle areas.
- construction still in progress [] [] [] [] 4 inches minimum of topsoil has been applied under permanent seedings

# **Sediment Control Practices**

1. Stabilized Construction Entrance

Yes No NA

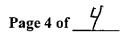
- [] [] Stone is clean enough to effectively remove mud from vehicles.
- [] [] Installed per standards and specifications?
- [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [] [] Is adequate drainage provided to prevent ponding at entrance?

## 2. Silt Fence

Yés No NA

- [X] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
- [] [] Joints constructed by wrapping the two ends together for continuous support.
- [7] [] Fabric buried 6 inches minimum.
- [4] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is % of design capacity.



#### Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

- [] [] [] Installed concrete blocks lengthwise so open ends face outward, not upward.
- [] [] [] Placed wire screen between No. 3 crushed stone and concrete blocks.
- [x] [] [] Drainage area is lacre or less.
- [] [] Excavated area is 900 cubic feet.
- [] [] [] Excavated side slopes should be 2:1. No frenching open
- [] [] [] [] 2" x 4" 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 max 8inch spacing.
- [] [] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation % of design capacity.

4. Temporary Sediment Trap

Yes No NA

[] [] [] Outlet structure is constructed per the approved plan or drawing.

[] [] [] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is \_\_\_\_% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] [] Basin and outlet structure constructed per the approved plan.

[] [] [] Basin side slopes are stabilized with seed/mulch.

[] [] [] Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is % of design capacity.

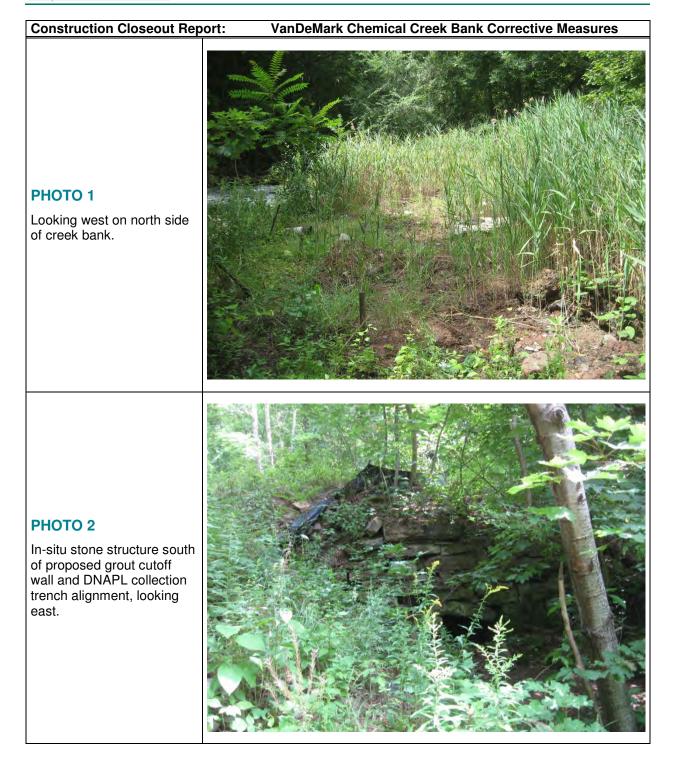
<u>Note</u>: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

APPENDIX E

**CMI CONSTRUCTION PHOTO LOG** 

































west.

north.

December 2012







## **PHOTO 13**

Groundwater expelled from nearby borehole during drilling activities at west end of trench, demonstrating subsurface lateral hydraulic communication, looking northeast.



## **PHOTO 14**

Grout curtain borehole drilling along trench alignment, looking west.

(Red drill cuttings indicative of target Queenston Shale formation)







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## **PHOTO 15**

Grout curtain borehole drilling activities along cutoff wall trench alignment adjacent to creek side, looking west.



## **PHOTO 16**

Primary boreholes (with temporary, white PVC pipe stubs) drilled along trench alignment, ready for grouting, looking west.







## PHOTO 17

**PHOTO 18** 

northwest.

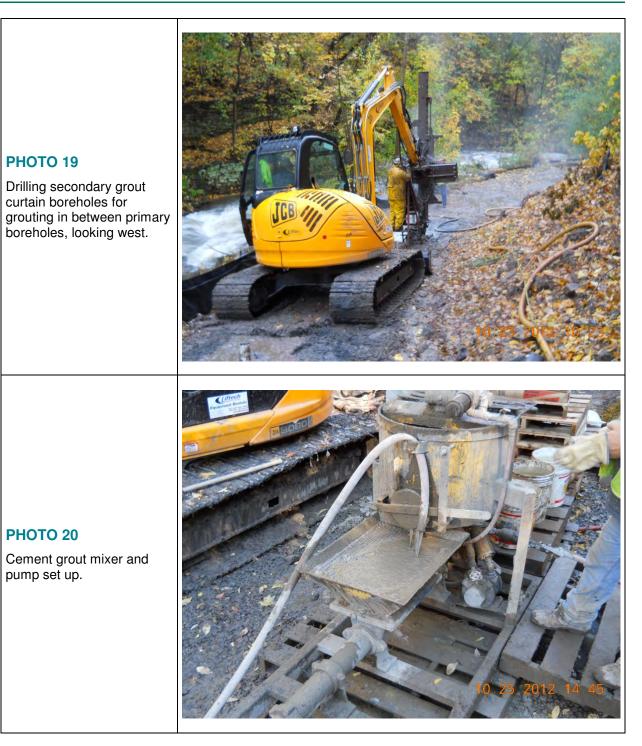
Performing water pressure tests on primary grout curtain borehole P4, looking

Groundwater expelled from nearby borehole during grout curtain borehole drilling activities at eastern end of trench, demonstrating subsurface hydraulic communication, looking east.

























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## **PHOTO 25**

Permeable geosynthetic liner placed over the top of the stone and down the sides a minimum of 12inches. A 6-inch thick top coating of stone then covered the liner. Looking west.



## **PHOTO 26**

Groundwater collection trench near concrete pump vault, looking east







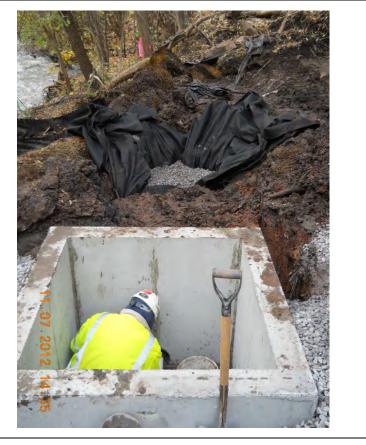
## **PHOTO 27**

Filter sump placed on south side of flowable fill cutoff wall trench at western most end of trench alignment, with inlet hole facing east. Looking east.



## **PHOTO 28**

Filter sump (foreground) and lined sump drain (background) connected by a 4-inch diameter Schedule 40 PVC pipe, looking west.







## **PHOTO 29**

**PHOTO 30** 

collection trench.

the baffle within the filter

Final removal of additional excavated fill materials from laydown area near site construction entrance, looking east.









Completed baffle with three 2-inch diameter weep holes and PVC outlet drain for filter sump, looking south.



## **PHOTO 32**

Manual removal of in-situ coal tar seeps on creek bank east of the stone structure wall. Looking east.















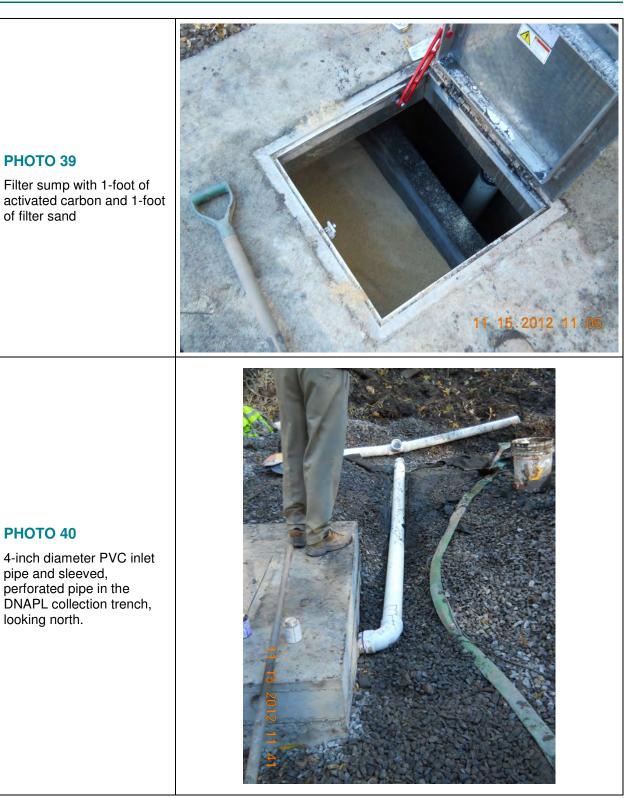






















## **PHOTO 43**

Graded eastern end of project area with piezometer PZ-2 (far left), PZ-1 (far right), and one DNAPL monitoring well (foreground left - in collection trench), looking east.





APPENDIX F

WASTE PROFILE INFORMATION

## GENERATOR WASTE CHARACTERIZATION REPORT

**INSTRUCTIONS:** The following form is required for disposal of nonhazardous industrial/commercial wastes at Modern Landfill. Please complete all sections of this report. Send completed report along with the analytical, chain of custody and the Application for Disposal of an Industrial Waste Stream (47-19-7) to this office. A separate form is required for each waste stream.

#### **GENERATOR INFORMATION:**

Generator Name: VanDeMark C	hemical Inc	
Generating Facility Address:	e North Transit Road, Lock	port, NY 14094
Technical Contact: Angela Muir	Ph	one: () 716-433-6764
Alternate Contact: Ken Paisley/S	evenson Ph	one: () 716-284-0431
INVOICING INFORMATION:		
Contracting Firm:	ironmental Services, Inc.	
Contact: Ken Paisley		Phone: () 716-284-0431
Do you have an existing account	with Modern Landfill? [	] Yes [O] No
Billing Address: 2749 Lockport R	oad	
Niagara Falls, N		
TRANSPORTER INFORMATION	l:	
Hauler Name: Modern Disposal,	Inc	NYSDEC Permit No
Contact Person: Brian Hanaka		Phone: ()716-754-8226
Is Modern Landfill currently on yo		
	blease enclose a Part C Ap	plication to cover this waste stream.
Common name of waste: <u>Soil co</u>	ntaminated with coal tar	
Description of process generating	this waste: Soil from cree	k bank excavation contaminated with coal tar. Soil has been
excavated and stockpiled and wi	ll contain no free liquids.	
ls this waste hazardous under US	EPA Guidelines & 6NYCR	R Part 371 (d)? [()] Yes [()] No
Indicate the category which best of	lescribes this waste stream	:
Image: Constraint of the second sec		nstruction & Demolition Debris Other (Please Specify)

#### PHYSICAL CHARACTERISTICS OF WASTE

The waste is at least 20% solid and contains no free liquid	YES 💽	NO O
The Flashpoint of the waste is >140°f	YES [O]	NO [O]
The pH level of the waste is between 2.0 and 12.5	YES [O]	NO [O]
Is the waste reactive (Cyanide/Sulfide)?	YES [O]	NO [O]
Is the waste free of PCBs	YES 💽	NO [C]
Color: BRACK Odor: [] Strong [] Mild [] None		<u>_</u>

#### TCLP TESTING AND CERTIFICATION

Metals			
Constituent	Nonhazardous Limit (mg/l)	Present	Not Present
Arsenic	5.0		x
Barium	100.0	0.620	
Cadmium	1.0	0.0083	
Chromium	5.0		x
Lead	5.0	0.120	
Mercury	0.2		x
Selenium	1.0		х
Silver	5.0		X

#### Acid Extractables

Constituent	Nonhazardous Limit (mg/l)	Present	Not Present
O-Creosol	200.0		х
M-Creosol	200.0		x
P-Creosol	200.0		х
Pentachlorophenol	100.0		x
2,4,5-Trichlorophenol	400.0		х
2,4,6-Trichlorophenol	2.0		х

#### **Volatile Organics**

Constituent	Nonhazardous Limit (mg/l)	Present	Not Present
1,1-Dichloroethylene	0.7		х
Methyl Ethyl Ketone	200.0		х
Tetrachloroethylene	0.7		х
Vinyl Chloride	0.2		х
Benzene	0.5		х
Carbon Tetrachloride	0.5		х
Chlorobenzene	100.0		х
Chloroform	6.0		х
Trichloroethylene	0.5		х
1,2-Dichloroethane	0.5		x

#### Herbicides / Pesticides

	Nonhazardo		
Constituent	us	Present	Not
	Limit (mg/l)		Present
2,4-D	10.0		х
2,4,5-TP silvex	1.0		X
Endrin	0.02		х
Lindane	0.4		х
Methoxychlor	10.0		х
Toxaphene	0.5		х
Chlordane	0.03		х
Heptachlor	0.008		х

#### **Base Neutrals Extractables**

Constituent	Nonhazardous Limit (mg/l)	Present	Not Present
1,4-Dichlorobenzene	7.5		x
2,4-Dinitrotoluen	0.13		x
Hexachlorobenzene	0.13		х
Hexachlorobutadiene	0.5		х
Hexachloroethane	3		х
Nitrobenzene	2		х
Pyridine	5		х

#### CERTIFICATION

I certify that all information contained within this Generator Waste Characterization Report, including all attached information, is complete and actual and is an accurate representation of known or suspected hazards described herein.

Signature: Printed Name: (X) Title: Company:60 Date: (X)

47-19-7 (10/86) - Texi 12 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDSOU WASTE • BUREAU OF HAZARDOUS WASTE OPERATIONS 50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

FOR STATE USE ONLY				
SITE NO.	APPLICATION NO.	DATE RECEIVED		
DEPARTMENT	ACTION Disapproved	DATE		

### **APPLICATION FOR TREATMENT OR DISPOSAL** OF AN INDUSTRIAL WASTE STREAM SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

1. NAME OF PROJECT/FACILITY 2. COUNTY 3. SITE NUMBER				3. SITE NUMBER			
MODERN LANDFILL, INC.			NIA	GARA	۹.		32N30
4. NAME OF OWNER 5. ADDRESS (Street,			Street, City,	State, Zi	p Code)		6. TELEPHONE NO.
				ty Road, Model City, NY 14107			(716) 754-8226
6. NAME OF OPERATOR 8. ADDRESS (Street,			Street, City,	reet, City, State, Zip Code) 9.			
RICHARD WASHUTA 10. METHOD OF TREATMENT OR DISPOSAL		Pletcher & F	Harold F	Road,	Model	City, NY 14107	(716) 754-8226
10. METHOD OF TREATMENT OR DISPOSAL							
SANITARY LANI	OFILL - D90						
11. COMPANY GENERATING WASTE VanDeMark Chemical, Inc.			12. ADDR	ESS OF	FACILITY	GENERATING WASTE (	Street, City, State, Zip Code)
13. REPRESENTATIVE OF WASTE GENERATOR	14 MAILING	ADDRESS OF REPR	One N		ransit F	Road, Lockport, N	
Angela Muir		h Transit Road			V 4400	4	15. TELEPHONE NO.
16. DESCRIPTION OF PROCESS PRODUCING WA		THANSILINUAL	u, LUCK	JOIL, IN	1 1408		716-433-6764
Soil contaminated with coal tar e	xcavated from	remediation o	of a strea	am ba	nk		
17. EXPECTED ANNUAL WASTE PRODUCTION		ASTE HAULED IN	ank 🔲 Ro	oll-Off Co	ntainer [2	<a> <li>Other dump trail</li> </a>	
19A. Average Percent Solids 100	b. Physical State	Sludge 🗙 Sc	olid 🔲 Co	ontained (	Gas	19c. pH Range N/A	to_N/A
19d. COMP	ONENTS		C	ONDENT Upper	RATION ( Lowe	Dry Weight) Typical	UNIT (Check One) Wt. % ppm
1) <u>Soil</u>		······	{	99	96	97	
2) <u>Rock (&lt;12")</u>				3	1	2	
<sub>3)</sub> <u>Coal Tar</u>				3	0	1	
4)							
20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCL	P TEST CONDUCTE		WASTES	2	MATERIAL IS:	
X Yes No	Yes [	No If "yes", attac	ch results			Hazardous	Non-Hazardous
23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment and disposal precautions.							
24. WHERE WAS MATERIAL DISPOSED OF PREVIO N/A	OUSLY?						
25. NAME OF WASTE TRANSPORTER		eet, City, State, Zip C				27. NYSDEC PERMIT N	Io. 28. TELEPHONE NO>
Modern Disposal Inc 4746 Model City Rd, Model Cit			el City, N	IY 141	107	9A-073	716-754-8226
29. CERTIFICATION I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.							
a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR DATE							
► SIGNATURE AND TITLE OF REPRESENTATIVE O		NVANMAN USPOSAL FACILITY		ZNA	Mee	eV	0/11/2
5. GONATONE AND THEE OF REFRESENTATIVE C		NOP VOAL PAUILITY					DATE
							<u></u>

Report Date: 28-Sep-12 10:51



Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Sevenson Environmental Services Inc.
2749 Lockport Road
Niagara Falls, NY 14305

Work Order: L1965 Project : Van der Mark Chemical Project #:

Attn: Kenneth Paisley

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L1965-01	SOIL STOCKPILE	Soil	19-Sep-12 15:23	20-Sep-12 09:55

l attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

N/A

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense Connecticut Delaware Florida Maine Massachusetts New Hampshire New Jersey New York North Carolina Pennsylvania Rhode Island USDA USEPA - ISM USEPA - SOM

PH-0153 N/A E87664 2007037 M-R1907 2631 R1001 11522 581 68-00520 LAI00301 P330-08-00023 EP-W-09-039 EP-W-11-033





Certificate # L2247 Testing

Authorized by:

Yihai Ding Laboratory Director

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 1010 FLASHPOINT by Pensky-Martens CI	osed-Cup Method				SW1010_S
Ignitability	NO FLASH @ 140	200	°F	1 09/26/2012 18:50	R69722
SW846 7.3.3.2 Reactive Cyanide Released from	Wastes				SW7.3.3.2_S
Reactive Cyanide	ND	1.4	mg/Kg	1 09/27/2012 12:10	68364
SW846 7.3.4.2 Reactive Sulfide Released from W	/astes				SW7.3.4.2_S
Reactive Sulfide	1.4	1.4	mg/Kg	1 09/26/2012 9:25	68365
SW846 9045C Soil and Waste pH					SW9045_S
рН	8.5	1.0	S.U.	1 09/27/2012 9:52	R69720

<b>Oualifiers:</b>	ND - Not Detected at the Reportin	ng Limit

J - Analyte detected below quanititation limits

.

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

Ŧ

- R RPD outside accepted recovery limits
- E Value above quantitation range
- RL Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS					SW8260 W
Vinyl chloride TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
1,1-Dichloroethene TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
2-Butanone TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Chloroform TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Carbon tetrachloride TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
1,2-Dichloroethane TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Benzene TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Trichloroethene - TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Teirachloroethene - TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Chiorobenzene TCLP	ND	5.0	ug/L	1 09/26/2012 14:14	68353
Surrogate: Dibromofluoromethane TCLP	100	85-115	%REC	1 09/26/2012 14:14	68353
Surrogate: 1,2-Dichloroethane-d4 TCLP	99.1	70-120	%REC	1 09/26/2012 14:14	68353
Surrogate: Toluene-d8 TCLP	96.1	85-120	%REC	1 09/26/2012 14:14	68353
Surrogate: Bromofluorobenzene TCLP	94.0	75-120	%REC	1 09/26/2012 14:14	68353

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- RL Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 6010C Metals by ICP					SW6010_W
Arsenic - TCLP	ND	20	ug/L	1 09/27/2012 10:23	68350
Barium TCLP	620	200	ug/L	1 09/27/2012 10:23	68350
Cadmium TCLP	8.3	5.0	ug/L	1 09/27/2012 10:23	68350
Chromium TCLP	3.5 J	20	ug/L	1 09/27/2012 10:23	68350
Lead – TCLP	120	10	ug/L	1 09/27/2012 10:23	68350
Selenium TCLP	ND	30	ug/L	1 09/27/2012 10:23	68350
Silver TCLP	ND	30	ug/L	1 09/27/2012 10:23	68350
SW846 7470A Mercury by FIA					SW7470
Mercury TCLP	0.15 J	0.20	µg/L	1 09/27/2012 14:18	68344

Qualifiers:	ND - Not Detected at t	he Reporting Limit
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- J Analyte detected below quanititation limits
- B Analyte detected in the associated Method Blank
- DF Dilution Factor

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- RL Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 8270D SVOA by GC-MS					SW8270 W
1,4-Dichlorobenzene TCLP	ND	33	ug/L	1 09/26/2012 17:22	68339
2-Methylphenol TCLP	ND		ug/L	1 09/26/2012 17:22	68339
4-Methylphenol TCLP	ND		ug/L	1 09/26/2012 17:22	68339
Hexachloroethane TCLP	ND	33	ug/L	1 09/26/2012 17:22	68339
Nitrobenzene – TCLP	ND		ug/L	1 09/26/2012 17:22	68339
Hexachlorobutadiene TCLP	ND	33	ug/L	1 09/26/2012 17:22	68339
2,4,6-Trichlorophenol TCLP	ND		ug/L	1 09/26/2012 17:22	68339
2,4,5-Trichlorophenol TCLP	ND	67	ug/L	1 09/26/2012 17:22	68339
2,4-Dinitrotoluene - TCLP	ND	33	ug/L	1 09/26/2012 17:22	68339
Hexachlorobenzene - TCLP	ND	33	ug/L	1 09/26/2012 17:22	68339
Pentachlorophenol TCLP	ND		ug/L	1 09/26/2012 17:22	68339
Pyridine TCLP	ND	67	ug/L	1 09/26/2012 17:22	68339
Surrogate: Nitrobenzene-d5 TCLP	83.7	40-110	%REC	1 09/26/2012 17:22	68339
Surrogate: 2-Fluorobiphenyl TCLP	77.3	50-110	%REC	1 09/26/2012 17:22	68339
Surrogate: Terphenyl-d14 TCLP	88.4	50-135	%REC	1 09/26/2012 17:22	68339
Surrogate: Phenol-d5 - TCLP	60.7	10-115	%REC	1 09/26/2012 17:22	68339
Surrogate: 2-Fluorophenol - TCLP	72.7	20-110	%REC	1 09/26/2012 17:22	68339
Surrogate: 2,4,6-Tribromophenol TCLP	91.8	40-125	%REC	1 09/26/2012 17:22	68339

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	Collection Date:	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 8081B Organochlorine Pesticides by GC-EC	D				SW8081_W
gamma-BHC (Lindane) TCLP	ND	0.17	ug/L	1 09/26/2012 14:56	68340
Heptachlor TCLP	ND	0.17	ug/L	1 09/26/2012 14:56	68340
Heptachlor epoxide TCLP	ND	0.17	ug/L	1 09/26/2012 14:56	68340
Endrin TCLP	ND	0.33	ug/L	1 09/26/2012 14:56	68340
Methoxychlor TCLP	ND	1.7	ug/L	1 09/26/2012 14:56	68340
Toxaphene TCLP	ND	17	ug/L	1 09/26/2012 14:56	68340
Chlordane (technical) TCLP	ND	8.3	ug/L	1 09/26/2012 14:56	68340
Surrogate: Tetrachloro-m-xylene TCLP	67.8	25-140	%REC	1 09/26/2012 14:56	68340
Surrogate: Decachlorobiphenyl TCLP	69.0	30-135	%REC	1 09/26/2012 14:56	68340

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- RL Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL Unit	ts DF Date Analyzed	Batch 1D
SW846 8151A Chlorinated Herbicides by GC-ECD				SW8151_W
2,4-D TCLP	ND	3.3 µg/L	1 09/26/2012 15:53	68341
2,4,5-TP (Silvex) TCLP	ND	0.33 µg/L	1 09/26/2012 15:53	68341
Surrogate: DCAA – TCLP	72.1	23-139 %RE0	C 1 09/26/2012 15:53	68341

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Client:	Sevenson Environmental Services Inc.		
<b>Client Sample ID:</b>	SOIL STOCKPILE	Project:	Van der Mark Chemical
Lab ID:	L1965-01	<b>Collection Date:</b>	09/19/12 15:23

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 8082A PCB by GC-ECD					SW8082_S
Arocior-1016	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1221	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1232	ND		ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1242	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1248	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1254	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Aroclor-1260	ND	46	ug/Kg	1 09/25/2012 3:54	68273
Surrogate: Tetrachloro-m-xylene	34.3	34-147	%REC	1 09/25/2012 3:54	68273
Surrogate: Decachlorobiphenyl	86.7	60-125	%REC	1 09/25/2012 3:54	68273

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- **RL** Reporting Limit

APPENDIX G

MODERN LANDFILL DISPOSAL RECEIPT DOCUMENTATION

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TEL. (716) 75	4746 I F Model	sposal Service Model City Roa PO Box 209 I City, NY 1410	s, Inc. d		Route:	PF 30 ate: 10/11/2012	) Map Grid:	
Customer #: Site #: Customer Name Service Location Address: City: Contact: Phone:	015172004 SEVENSO SEVENSO VANDEMA LOCKPOR KEN PAIS (716) 284-	N ENVIRONM N ENVIRONM ARK, 1 NORTH RT LY	ENTAL		Requested B Bin # Bin # P	Dropped:            vicked up:            e Reason:	yDepart Time:	42pm
Recurring: Removal:	0 0	0 0	Open/Close: Delivery:	0 0	0 0	Destination		
Work Order 0000584211 Service Note	Qty 1	<b>Action</b> HAULING CONTAMINAT	Type DUMPTRU ED INDUSTRIAL		Description Dump Truck MLF (M12-2603)			

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Access Notes:

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Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the gontractor syntiten approval.

an Ť-1 DRIVER SIGNATURE

CUSTOMER SIGNATURE

1445 Pletcher Road Model City, NY 14107 (716) 754-8226	DERN	Tic E	cket: 1002183280 Date: 10/11/2012 Ime: 11:37:54 - 11:38:14 Scale
Carrier: MDS-001/M	Route: Profile:	Tare: 2 Net: 4	71780 POU In Scale INBOUN 26480 POU P.T. 45300 POU C WO: 0000584211
Service Site: 0151720045 Comment:	Modem Disposal Roll Off - SEVENSON ENVIRONMENTAL@		
Origin 292600/Lockport	Materials & Services DC Industrial Waste - General	Quantity Unit 22.65 TON	
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Driver:	·····	Weighmaster: Deb Lehman	

TEL. (716) 75	4746 Mod	Disposal Services Model City Roa PO Box 209 el City, NY 1410 00) 662-0012 F,	d 7		Route:	WO0000584213 PF te: 10/11/2012	
Customer #: Site #: Customer Name Service Location Address: City: Contact: Phone:	01517200 SEVENS SEVENS VANDEM LOCKPO KEN PAIS (716) 284	045 ON ENVIRONMI ON ENVIRONMI IARK, 1 NORTH RT SLY	ENTAL@		Requested By Bin # [ Bin # Pi	/: Dropped: cked up: Reason:	
Recurring: Removal:	0 0	0 0	Open/Close: Delivery:	0 0	0	Destination	
Work Order 0000584213 Service Note	<b>Qty</b> 1 es: Tons	Action HAULING CONTAMINATE	Type DUMPTRI		Description Dump Truck S		Bros #34

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER SIGNATURE

CUSTOMER SIGNATURE

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1445 Pletcher Roa Model City, NY 1 (716) 754-8226	10	prporation				Ticket: 10 Date: 10 Time: 12:	/11/2( 03:13	
Truck: Customer:	WALCK-34 0250310002/Moder WALC-001/WALCI	n Disposal Roll Off - K BROS AG SE	Truck Type: Route:	BROKER/SUB OU	Gross: Tare: Net: JT VARIOUS 2	72180 PO 27620 PO 44560 PO BRC	U U U	n Scale INBOUR P.T. 0000584213
Generator: Service Site: Comment:	0250310002/Moder 0151720045 SEVE	n Disposal Roll Off - NSON ENVIRONMEI		M12-2603/VANDE	MARK CHEN	AICAI		
Origin		Materials & Services		Quanti	ty Unit			
292600/Lockport		DC Industrial Waste -	General	22.28	TON			******
Driver:				Weighmaster:	Deb Lehmar	1		
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TEL. (716) 75	4746 Mod	Disposal Service Model City Roa PO Box 209 el City, NY 1410 00) 662-0012 F	d 7		Work Order: WO0000584216 Route: PF 29 Map Grid: Service Date: 10/11/2012
Customer #: Site #: Customer Name: Service Location Address: City: Contact: Phone:	01517200 SEVENS SEVENS VANDEN LOCKPO KEN PAIS (716) 284	045 ON ENVIRONM ON ENVIRONM IARK, 1 NORTH RT SLY	ENTAL@		Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order	<b>Qty</b>	Action	Type		Description
0000584216	1	HAULING	DUMPTRI		Dump Truck Services
Service Note	es: TONS	CONTAMINAT	ED INDUSTRIAI		MLF (M12-2603)

Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

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1445 Pletcher Rog Model City, NY 1 (716) 754-8226		Ticket: 1002183329 Date: 10/11/2012 Time: 12:56:08 - 12:56:33 Scale
Customer:		BROKER/SUB OUT VARIOUS BRC WO: 0000584216
	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@ Materials & Services	M12-2603/VANDEMARK CHEMICAI
 292600/Lockport		Quantity Unit 23.18 TON

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Driver:

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Weighmaster: Deb Lehman

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		DDĮ	ERP		
TEL. (716) 75	4746 Mode	Disposal Service Model City Roa PO Box 209 el City, NY 1410	s, Inc. Id		<b>Work Order:</b> WO0000584217 Route: PF 2 9 Map Grid: Service Date: 10/11/2012
Customer #: Site #: Customer Name: Service Location Address: City: Contact: Phone:	01517200 SEVENSO SEVENSO VANDEM LOCKPOI KEN PAIS (716) 284	ON ENVIRONM ON ENVIRONM ARK, 1 NORTH RT SLY	ENTAL@		Rep/Order Date:       MODERN\gabe 10/10/2012 4:42pm         Requested By:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584217 Service Note	Qty 1 <sup>es:</sup> TONS	Action HAULING CONTAMINAT	Type DUMPTRU ED INDUSTRIAL		Description Dump Truck Services ILF (M12-2603)

Access Notes:

Detailed Notes:

Work Order Notes:

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DRIVER SIGNATURE

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	<b>10DERN</b>						Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characteriza	Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sector
1445 Pletcher Roa	ad Corporation					Ticket:	1002183	
Model City, NY 1	4107					Date: Time:	10/11/20	012 5 - 15:44:50
(716) 754-8226						inne.	13.43.40 Sca	
Truck	PF29-MDS				Gross:	75500	POUIn	Scale INBOUN
	0250310002/Modern Disposal Roll Off -			-	Tare:	27380		P.T.
	FOUR-003/FOURNIER, PAUL	Truck Type:	TA		Net:	48120	POU	
		Route:	BROKER		VARIOUS I ARK CHEN		WO:	0000584217
	0250310002/Modern Disposal Roll Off -							
	0151720045 SEVENSON ENVIRONMEN	TAL@						
Comment:								
Origin	Materials & Services			Quantity	Unit			
292600/Lockport	DC Industrial Waste -	General		24.06	TON			

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Driver:

Weighmaster: Deb Lehman

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TEL. (716) 75	474 Mo	Disposal-Service 6 Model City Roa PO Box 209 del City, NY 1410 800) 662-0012 F	es, Inc. ad	Route:	r: WO0000584218 PF 30 ate: 10/11/2012	3 Map Grid:	, , o # ( 811   93	
Customer #: Site #: Customer Name	015172 0151720 : SEVEN : SEVEN	PO #: 2045 SON ENVIRONM SON ENVIRONM MARK, 1 NORTH DRT ISLY	10879005 ENTAL ENTAL@		Requested E Bin # Bin # F Trip Charg	ate: MODERN\ga By: Dropped: Picked up: e Reason: ime:		4:42pm
Recurring:	0	0	Open/Close:	0	0	Destination		
Removal:	0	0	Delivery:	0	0			
Work Order 0000584218	Qty 1	Action HAULING	T <b>ype</b> DUMPTRL	JCK	Description Dump Truck			
Service Note	S: TON	S CONTAMINATI	ED INDUSTRIAL	TO N	ILF (M12-2603)	i de la companya de l		

Access Notes:

Detailed Notes:

Work Order Notes:

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1445 Pletcher Ro Model City, NY 1 (716) 754-8226						Ticket: Date:	10021 10/11/2	8317 2012	)8:49:29
Customer:	PF30-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	BROKER/	SUB OUT	Gross: Tare: Net: VARIOUS E	71320 26480 44840 3RC	POU POU		Scale INBOUN P.T. 00584218
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN Materials & Services		M12-2603,		ARK CHEM	ficai			,
292600/Lockport		General		Quantity 22.42	Unit TON				

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Driver:

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Weighmaster: Deb Lehman

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TEL. (716) 75	474 Moo	Disposal Service 6 Model City Roa PO Box 209 del City, NY 1410 800) 662-0012 F	es, Inc. ad 17		Work Order: WO0000584219 Route: PF 2.9 Map Grid: Service Date: 10/11/2012
Customer #: Site #: Customer Name	015172 0151720 SEVENS SEVENS	PO #: 0045 SON ENVIRONM SON ENVIRONM MARK, 1 NORTH DRT ISLY	10879005 ENTAL ENTAL@		Rep/Order Date:       MODERN\gabe 10/10/2012 4:42pm         Requested By:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584219	Qty 1	Action HAULING	<b>Type</b> DUMPTRU		Description Dump Truck Services
Service Note	S. TON	S CONTAMINAT	ED INDUSTRIAI	_ ТО М	LF (M12-2603)

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

m DRIVER SIGNATURE

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1445 Pletcher Rog Model City, NY 1 (716) 754-8226						Ticket: Date:	10021: 10/11/2	8317 2012	08:44:50
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	TA BROKER/SUB	OUT	Gross: Tare: Net: VARIOUS E	65740 27380 38360 3RC	POU POU	In • 00	Scale INBOUN P.T. 00584219
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN Materials & Services	Profile:	M12-2603/VAN	VDEM.	ARK CHEM	1ICAI		. 00	00394513
292600/Lockport		General	Qu 19.	antity 18	Unit TON				

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Driver:

Weighmaster: Deb Lehman

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	Customer #: Site #: Customer Name Service Locatio Address: City: Contact: Phone:	4746 Mode 54-8226 (80 015172 01517200 e: SEVENSC N: SEVENSC VANDEM, LOCKPOF KEN PAIS (716) 284-	iisposal Service Model City Roa PO Box 209 el City, NY 1410 D0) 662-0012 F PO #: 45 DN ENVIRONM ARK, 1 NORTH RT SLY	d 7 AX. (716) 754-8 10879005 ENTAL ENTAL@		Work Order:       WO0000584220         Route:       PF       Map Grid:         Service Date:       10/11/2012         Rep/Order Date:       MODERN\gabe       10/10/2012       4:42pm         Requested By:       Bin # Dropped:
	Recurring:	0	0	Open/Close:	0	0 Destination
	Removal:	0	0	Delivery:	0	0
	Work Order	Qty	Action	Туре		Description
	0000584220	1	HAULING	DUMPTRU	ICK	Dump Truck Services
	Access Notes: Detailed Notes:					MLF (M12-2603)
	injury of death to per	es to indemnify, rsone or loss or of any warranty hout the contra	damade to orobert	irmless the Contract	or again	IFICATION AGREEMENT*** ainst all claims, damages, suits, judgments, penalties, fines and other liability or her's use, operation or possession of the equipment or arising out of the stomer shall not overload the equipment nor use it for incineration purposes or WATURE

	<b>10DERN</b>	Ticket: 1002183284	A Submitted A Submitted In S
1445 Pletcher Roa Model City, NY 1 (716) 754-8226		Date: 10/11/2012 Time: 11:50:15 - 11:50:37 Scale	
Customer:	LLOYD-56 0250310002/Modern Disposal Roll Off- LLOY-001/Lloyd Enterprises Truck Type:		VBOUN
		BROKER/SUB OUT VARIOUS BRC WO: 00005842 M12-2603/VANDEMARK CHEMICAI	20
Origin	Materials & Services	Quantity Unit	
292600/Lockport	DC Industrial Waste - General	21.88 TON	

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Weighmaster: Deb Lehman

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		Disposal Service 6 Model City Roa		on	Work Orde	r: WO0000584;		
TEL. (716) 7	Mo	PO Box 209 del City, NY 1410 800) 662-0012 F	)7	964	Route:	PF ate: 10/11/2012	Map Grid:	
Customer #:	015172 0151720 SEVENS SEVENS	PO #: 0045 SON ENVIRONN SON ENVIRON ( H TRANSIT ROA DRT ISLY	10879005 IENTAL ② VANDEMARK		Requested I Bin # Bin # I	By: Dropped: Picked up: e Reason:	\gabe 10/10/2012 4:42pm	
Recurring:	0	0	Open/Close:	0	0	Destination		
Removal:	0	0	Delivery:	0	0			
Work Order 0000584221 Service Note	Qty 1 <sup>es:</sup> TONS	Action HAULING CONTAMINATI	<b>Type</b> DUMPTRL ED INDUSTRIAL		Description Dump Truck ILF (M12-2603)	Services		

Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER SIGNATURE

CUSTOMER SIGNATURE



Modern Disposal Services, Inc. 4746 Model City Road PO Box 209 Model City, NY 14107 (800) 662-0012 TEL. (716) 754-8266 FAX. (716) 754-8964

Work Order	Qty	Action	Туре
Phone:	(716) 28	4-0431	
Contact:	KEN PA	ISLY	
City:	LOCKPO		
Address:	1 NORT	H TRANSIT ROAD	
Service Location:	SEVENS	SON ENVIRON @ VA	NDEMARK
Customer Name:	SEVENS	SON ENVIRONMENT	AL
Customer #:	015172	PO #:	10879005

0000584221 1 HAULING DUMPTRUCK Work Order Notes: TONS CONTAMINATED INDUSTRIAL TO MLF (M12-2603) Work Order: 0000584221 Route: PF

Route: Service Date: Rep/Order Date: Requested By: PF Map Grid: 10/11/2012 MODERN\gabe 10/10/2012 4:42pm

## Description

Dump Truck Services

1445 Pletcher Roa Model City, NY 1					Ticket: Date:	10021832 10/11/20 11:32:08 -	12
(716) 754-8226	****	* Reprinted Ticl	ket - Edited *******	C	72660		cale
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - MDS-001/MODERN DISPOSAL	Truck Type:		Gross: Tare: Net:	27380 46280	POU O POU	u Scale INBOUN ut Manual Wt M
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONME	Profile:	M12-2603/VANDEM			WO: 1	0000584221
Origin	Materials & Services		Quantity	Unit			
292600/Lockport	DC DEC Approved	Waste	23.14	TON			
Driver:			Weighmaster: 1	Deb Lehma	n		
	IODERN						
1445 Pletcher Road Model City, NY 14 (716) 754-8226	Corporation			-	Date:	100218323 10/11/2012 1:32:08 - Scale	2 11:32:54
Customer:	******** PF29-MDS 0250310002/Modern Disposal Roll Off - MDS-001/MODERN DISPOSAL	Truck Type:		Gross: Tare: Net:	73660 P 27380 P 46280 P	OUIn OUOut	Scale INBOUN Manual Wt M
Generatori	1950210002/Ma days D'and LD U.C.M		BROKER/SUB OUT V M12-2603/VANDEMA			WO: 0	000584221
Service Site:	)250310002/Modern Disposal Roll Off - )151720045 SEVENSON ENVIRONMEN	NTAL@					
		VTAL@	Quantity (	Jnit			

Modern Disposal Servic 4746 Model City Rc PO Box 209 Model City, NY 141 TEL. (716) 754-8226 (800) 662-0012	ad 07 FAX. (716) 754-8964	Work Order: WO0000584222 Route: PF SO Map Grid: Service Date: 10/11/2012
Customer #: 015172 PO #: Site #: 0151720045 Customer Name: SEVENSON ENVIRONI Service Location: SEVENSON ENVIRONI Address: VANDEMARK, 1 NORT City: LOCKPORT Contact: KEN PAISLY Phone: (716) 284-0431 Time Windows	MENTAL MENTAL@ H TRANSIT RD	Rep/Order Date:       MODERN\gabe 10/10/2012 4:42pm         Requested By:
Recurring: 0 0	Open/Close: 0	0 Destination
Removal: 0 0	Delivery: 0	0
Work Order Qty Action 0000584222 1 HAULING Service Notes: TONS CONTAMINA	<b>Type</b> DUMPTRUCK TED INDUSTRIAL TO M	Description Dump Truck Services

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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make alterations without the contractor's written approval. pok. DRIVER SIGNATURE

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CUSTOMER \$IGNATURE

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1445 Pletcher Roa Model City, NY 1 (716) 754-8226	-				Ticket: Date: Time:	1002183 10/11/20 13:04:26 Sca	12 - 13:04:49
Customer: Carrier: Generator:	PF30-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL 0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	TA BROKER/SUB OU M12-2603/VANDE		26480 36840 BRC	) POUIn ) POU ) POU WO:	Scale INBOUN P.T. 0000584222
Origin	Materials & Services		Quant	ty Unit			
292600/Lockport	DC Industrial Waste -	General	18.42	TON			

Driver	••

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Weighmaster: Deb Lehman

	M		EP:N					
Modern Disposal Services, Inc. 4746 Model City Road PO Box 209					Work Order: Route:	WO000058 PF	4223 Map Grid:	
TEL. (716) 75		I City, NY 14107 10) 662-0012  F.	/ AX. (716) 754-8	964	Service Date	e: 10/11/20	12	
Customer #:		PO #:	10879005		Rep/Order Date	: MODER	N\gabe 10/10/2012 4:42pm	
Site #: Customer Name	01517200 SEVENSC		ENTAL		Requested By:			
Service Location	n: SEVENSC	N ENVIRONM	ENTAL@		Bin # D	ropped:		-
Address: City:	VANDEMA LOCKPOF	ARK, 1 NORTH	TRANSIT RD		Bin # Pic	ked up:		-
Contact:	KEN PAIS							-
Phone:	-716) 284 ד	0431 Time Windows			Arrival Tim	e:	Depart Time:	-
Recurring:	0	0	Open/Close:	0	0	Destination		
Removal:	0	0	Delivery:	0	0		4	
Work Order	Qty	Action	Туре		Description			
0000584223	1	HAULING	DUMPTRU	JCK	Dump Truck S	ervices		
Service Not	es: TONS	CONTAMINATI	ED INDUSTRIA		/ILF (M12-2603)			
Access Notes:					lib	ICKA	Nos. #34	
Detailed Notes:								

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER SIGNATURE , ....

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CUSTOMER SIGNATURE

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ANN	<b>10DERN</b>	
1445 Pletcher Roz Model City, NY 1 (716) 754-8226		Ticket: 1002183242 Date: 10/11/2012 Time: 10:42:20 - 10:43:21 Scale
Customer:	WALCK-34 0250310002/Modern Disposal Roll Off -	Gross: 70540 POU In Scale INBOUN Tare: 27620 POU P.T. Net: 42920 POU
	Profile:	TA BROKER/SUB OUT VARIOUS BRC WO: 0000584223 M12-2603/VANDEMARK CHEMICAI
	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@	
Origin	Materials & Services	Quantity Unit
292600/Lockport	DC Industrial Waste - General	21.46 TON

Driver: \_\_\_\_\_

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Weighmaster: Deb Lehman

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		DDĮ							
	Modern Disposal Services, Inc. 4746 Model City Road					NO0000584224			
		PO Box 209	7		Route:	PF	Map Grid:		
TEL. (716) 75		l City, NY 1410 0) 662-0012  F.	/ AX. (716) 754-89	964	Service Date	: 10/11/2012			
Customer #:		PO #:	10879005		Rep/Order Date:	MODERN\gab	e 10/10/2012 4:42pm		
Site #: Customer Name:	015172004 SEVENSC		ENTAL		Requested By:				
	Service Location: SEVENSON ENVIRONMENTAL@ Address: VANDEMARK, 1 NORTH TRANSIT RD				Bin # Dropped: Bin # Picked up:				
Address: City:									
Contact:	KEN PAIS				Trip Charge Reason: Arrival Time: 9:50 Depart Time: 10:05				
Phone:	(716) 284-	0431							
	I	ime Windows							
Recurring:	0	0	Open/Close:	0	0 [	Destination			
Removal:	0	0	Delivery:	0	0				
Work Order	Qty	Action	Туре		Description				
0000584224	1	HAULING	DUMPTRU	JCK	Dump Truck Se	ervices			
Service Note	S: TONS	CONTAMINAT	ED INDUSTRIAL	TO M	1LF (M12-2603)				

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\* The Customer agrees to indomnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons of loss or damage to property against go ut of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE

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CUSTOMER SIGNATURE

1445 Pletcher Ros Model City, NY 1 (716) 754-8226		Ticket: 1002183238 Date: 10/11/2012 Time: 10:32:25 - 10:32:48 Scale
Customer:		Gross: 68360 POU In Scale INBOUN Tare: 28120 POU P.T. Net: 40240 POU : TA : BROKER/SUB OUT VARIOUS BRC WO: 0000584224 : M12-2603/VANDEMARK CHEMICAI
	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@	
Origin	Materials & Services	Quantity Unit
292600/Lockport	DC Industrial Waste - General	20.12 TON

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Weighmaster: Deb Lehman

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Modern Disposal Services, Inc. 4746 Model City Road PO Box 209 Model City, NY 14107 TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964					Work Order: WO0000584225 Route: PF JG-/6 Map Grid: Service Date: 10/11/2012					
Customer #: Site #: Customer Name Service Location Address: City: Contact: Phone:	01517200 SEVENSO SEVENSO VANDEM LOCKPOI KEN PAIS (716) 284	ON ENVIRONM ON ENVIRONM ARK, 1 NORTH RT SLY	ENTAL@		Rep/Order Date:       MODERN\gabe 10/10/2012 4:42pm         Requested By:					
Recurring:	0	0	Open/Close:	0	0 Destination					
Removal:	0	0	Delivery:	0	0					
Work Order 0000584225	Qty 1	Action HAULING	Type DUMPTRU	JCK	Description Dump Truck Services					
Service Note	es: TONS	CONTAMINAT	ED INDUSTRIA	. то м	/LF (M12-2603)					

Access Notes:

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Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER SIGNATURE

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CUSTOMER SIGNATURE

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1445 Pletcher Roz Model City, NY 1 (716) 754-8226		Ticket: 1002183235 Date: 10/11/2012 Time: 10:24:01 - 10:24:17 Scale	
Customer:		Gross: 74260 POU In Scale INBOUN Tare: 28120 POU P.T. Net: 46140 POU TA BROKER/SUB OUT VARIOUS BRC WO: 0000584225	
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@ Materials & Services	M12-2603/VANDEMARK CHEMICAI	
292600/Lockport		Quantity Unit 23.07 TON	

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Weighmaster: Deb Lehman

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Corporation Modern Disposal Services, Inc. 4746 Model City Road PO Box 209 Model City, NY 14107 TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964					Work Order: WO0000584226 Route: PF 30 Map Grid: Service Date: 10/11/2012	
Customer #;	015172 01517200 SEVENSO VANDEM LOCKPO KEN PAIS (716) 284	PO #: 045 ON ENVIRONM ON ENVIRONM ARK, 1 NORTH RT SLY	10879005 ENTAL ENTAL@		Rep/Order Date:       MODERN\gabe 10/10/2012 4:42pm         Requested By:	
Recurring:	0	0	Open/Close:	0	0 Destination	
Removal:	0	0	Delivery:	0	0	
Work Order 0000584226	Qty 1	Action HAULING	<b>Type</b> DUMPTRU	JCK	Description Dump Truck Services	
Service Note	<sup>es:</sup> TONS	CONTAMINAT	ED INDUSTRIA	том	1LF (M12-2603)	

Access Notes:

Detailed Notes:

Work Order Notes:

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DRIVER SIGNATURE CUSTOME GNATURE

1445 Pletcher Ror Model City, NY 1 (716) 754-8226			Ticket: 1002183227 Date: 10/11/2012 Time: 10:14:53 Scale
Customer:	PF30-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	Gross: 66140 POU In Scale INBOUN Tare: 26480 POU P.T. Net: 39660 POU TA BROKER/SUB OUT VARIOUS BRC WO: 0000584226
Generator: Service Site: Comment; Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN Materials & Services	Profile:	M12-2603/VANDEMARK CHEMICAI
292600/Lockport		General	Quantity Unit 19.83 TON

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Weighmaster: Deb Lehman

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TEL. (716) 75	474 Moc	Disposal Service 6 Model City Roa PO Box 209 lel City, NY 1410 800) 662-0012 F	es, Inc. ad	Work Order: WO0000584227 Route: PF 2 9 Map Grid: Service Date: 10/11/2012	
Customer #:	015172 0151720 SEVENS SEVENS	PO #: 045 ON ENVIRONM ON ENVIRONM MARK, 1 NORTH DRT SLY	10879005 ENTAL ENTAL@		Rep/Order Date:       MODERN\gabe       10/10/2012       4:42pm         Requested By:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584227	Qty 1	Action HAULING	Týpe DUMPTRU		Description Dump Truck Services
Service Note	S: TONS	S CONTAMINAT	ED INDUSTRIAI		ILF (M12-2603)

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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5 DRIVER SIGNATURE

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CUSTOMER SIGNATURE ....

145 Pletcher Roa Todel City, NY 14 16) 754-8226	LODERN Corporation				Ticket: 10021 Date: 10/11 Time: 10:08:	/2012 22 - 10:08:41 Scale
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	BROKER/SUB OUT	Gross: Tare: Net: VARIOUS I	27380 POU 43920 POU BRC WC	In Scale INBOUN P.T. D: 0000584227
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN		M12-2603/VANDEM	IARK CHEN	IICAI	
rigin	Materials & Services		Quantity	Unit		
92600/Lockport	DC Industrial Waste - (	General	21.96	TON		
Driver:			Weighmaster:	Del Labora		
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	M	ODI		on						
	Modern Disposal Services, Inc. 4746 Model City Road					Work Order: WO0000584228				
	PO Box 209 Model City, NY 14107				Route:	PF	Map Grid:			
TEL. (716) 75	54-8226 (	800) 662-0012 F.	, AX. (716) 754-8	964	Service Date: 10/11/2012					
	015172 0151720		10879005		Rep/Order Da	ate: MOI	DERN\gabe 10/10/2012 4:42pm			
Customer Name Service Location	SEVENS	SON ENVIRONMI SON ENVIRONMI	ENTAL@		Requested E Bin #	-				
Address: City:	VANDEMARK, 1 NORTH TRANSIT RD LOCKPORT			Bin # Picked up:						
Contact:	KEN PA	ISLY			Trip Charge	e Reason				
Phone:	(716) 28	4-0431 Time Windows			Arrival T	ime:	Depart Time:			
Recurring:	0	0	Open/Close:	0	0	Destina	ition			
Removal:	0	0	Delivery:	0	0					
Work Order 0000584228	Qty 1	Action HAULING	<b>Type</b> DUMPTRL		Description Dump Truck	Services				
Service Note	es: TON	S CONTAMINATE	ED INDUSTRIAL	. TO N	/ILF (M12-2603)					
Access Notes:					Walc	K Bre	≥s. #34			

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The consomer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injuly or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty cleated hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE

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CUSTOMER SIGNATURE

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1445 Pletcher Ros Model City, NY 1 (716) 754-8226						)21831 11/201 .6:15 - .Sca	2 09:16:45
Customer:	WALCK-34 0250310002/Modern Disposal Roll Off - WALC-001/WALCK BROS AG SE	Truck Type:		Gross: Tare: Net:	65920 POL 27620 POL 38300 POL	J	Scale INBOUN P.T.
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	BROKER/SUB OUT M12-2603/VANDEM	VARIOUS I ARK CHEM	ЗRC у ЛСАІ	70: 0(	000584228
Origin	Materials & Services		Quantity	Unit			
292600/Lockport	DC Industrial Waste -	General	19.15	TON			

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Driver:

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Weighmaster: Deb Lehman

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	Modern Disposal Services, Inc. 4746 Model City Road PO Box 209 Model City, NY 14107 TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964					: WO000058422	29		
					Route:	PF	Map Grid:		
TEL. (716) 75					Service Date: 10/11/2012				
Customer #:		PO #:	10879005		Rep/Order Da	te: MODERN\g	abe 10/10/2012	4:42pm	
	0151720 SEVENS				Requested B			•	
Customer Name: SEVENSON ENVIRONMENTAL Service Location: SEVENSON ENVIRONMENTAL@					Bin #	Dropped:			
Address:	VANDE	MARK, 1 NORTH							
City: Contact:	LOCKPO KEN PA				Bin # Picked up: Trip Charge Reason: Arrival Time: 8:00 Depart Time: 8(20)				
Phone:	(716) 28								
	(***)=*	Time Windows						8120	
Recurring:	0	0	Open/Close:	0	0	Destination			
Removal:	0	0	Delivery:	0	0				
Work Order	Qty	Action	Туре		Description				
0000584229	1	HAULING	DUMPTRI	JCK	Dump Truck	Services			
Service Note	s: TON	S CONTAMINAT	ED INDUSTRIAI	ТОМ					

Access Notes:

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Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created percunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE τ

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1445 Pletcher Roz Model City, NY 1 (716) 754-8226					Ticket: Date:	100218 10/11/2 09:05:1	
Customer:	LLOYD-56 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises Truc	k Type;	PU BROKER/SUB OL	Gross: Tare: Net:	27800 32560	POU POU	In Scale INBOUN P.T.
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@	Profile:	M12-2603/VANDE	MARK CHEN	BR( MICAI	WO:	0000584229
Origin	Materials & Services		Quanti	ty Unit			
292600/Lockport	DC Industrial Waste - Gener	al	16.28	TON			

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Weighmaster: Deb Lehman

Customer #:	474 Mod 4-8226 ( 015172 0151720 SEVENS SEVENS	Disposal Service 6 Model City Roa PO Box 209 del City, NY 1410 800) 662-0012 F PO #: 9045 SON ENVIRONM SON ENVIRONM MARK, 1 NORTH DRT SLY	ad 7 FAX. (716) 754-8 10879005 IENTAL IENTAL@		Work Order: WO0000584230 Route: PF Jo-/5 Map Grid: Service Date: 10/11/2012 Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time: Simp Depart Time: 5:25
Recurring:	0	- 0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584230 Service Note	Qty 1 es: Tons	Action HAULING S CONTAMINAT	<b>Type</b> DUMPTRI ED INDUSTRIAI		Description Dump Truck Services MLF (M12-2603)

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Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

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	10DERN							Antonio antoni
1445 Pletcher Roz Model City, NY 1 (716) 754-8226					Ticket: Date: Time:	10/11/2 08:55:3	2012	:56:10
Customer:	JO15-MDS 0250310002/Modern Disposal Roll Off - MDS-001/MODERN DISPOSAL	Truck Type: Route:	TA BROKER/SUB OUT VA	Gross: Tare: Net:	66120 28120 38000	POU POU	F	Scale INBOUN P.T.
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	M12-2603/VANDEMAR	VARIOUS I IARK CHEN	IICAI	wO:	000	0584230
Origin	Materials & Services		Quantity Ur	nit				
292600/Lockport	DC Industrial Waste -	General		ON				

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Weighmaster: Deb Lehman

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	Modern	Disposal Services	Sorporati	on	Sense in the sense				
	474	6 Model City Roa	d		Work Order: W00000584231				
	Мо	PO Box 209 del City, NY 1410	7		Route:	PF	Map Grid:		
TEL. (716) 75	4-8226 (	800) 662-0012 F	, AX. (716) 754-8	964	Service Date: 10/11/2012				
Customer #: Site #:	015172 015172(	PO #: 0045	10879005			MODER	RN\gabe 10/10/2012 4:42pm		
Customer Name:	SEVENS	SON ENVIRONMI	ENTAL		Requested By:				
Service Location: SEVENSON ENVIRONMENTAL@ Address: VANDEMARK, 1 NORTH TRANSIT RD					Bin # Dro	pped: _			
City:	LOCKPO	ORT	TRANSIT RD						
	ontact: KEN PAISLY				Trip Charge Re	eason: _			
riione.	(716) 28	4-0431 Time Windows			Arrival Time:	:	Depart Time:		
Recurring:	0	0	Open/Close:	0	0 De	estinatior	2		
Removal:	0	0	Delivery:	0	0		'		
	Qty	Action	Туре		Description				
0000584231	1	HAULING	DUMPTRI	JCK	Dump Truck Ser	vicee			
Service Note	S: TON	S CONTAMINATE	D INDUSTRIA	LTON	/LF (M12-2603)	VICES			
Access Notes:					Wal	2ck	# 34		
Detailed Notes:									

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER-SIGNATURE

CUSTOMER SIGNATURE

1445 Pletcher Roz Model City, NY 1 (716) 754-8226			Ticket: 1002183350 Date: 10/11/2012 Time: 13:20:08 - 13:20:34 Scale	
Customer:	WALCK-34 0250310002/Modern Disposal Roll Off- WALC-001/WALCK BROS AG SE Tr	uck Type: Route:	Gross: 68700 POU In Scale INBOUN Tare: 27620 POU P.T. Net: 41080 POU	
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTA	Profile:	le: M12-2603/VANDEMARK CHEMICAI	
Origin 292600/Lockport	Materials & Services		Quantity Unit	
	DC Industrial Waste - Ger	neral	20.54 TON	

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Weighmaster: Deb Lehman

Modern Disposal Services, Inc. 4746 Model City Road PO Box 209 Model City, NY 14107 TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964 Customer #: 015172 PO #: 10879005 Site #: 0151720045 Customer Name: SEVENSON ENVIRONMENTAL Service Location: SEVENSON ENVIRONMENTAL@ Address: VANDEMARK, 1 NORTH TRANSIT RD City: LOCKPORT Contact: KEN PAISLY Phone: (716) 284-0431				Work Order: WO0000584232 Route: PF S /S Map Grid: Service Date: 10/11/2012 Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrivel Time A					
FHOLIE.	(716) 284	-0431 Time Windows			Arrival Time: 1:00 Depart Time: 1:0				
Recurring: Removal:	0	0	Open/Close:	0	0 Destination				
Work Order 0000584232 Service Note	Qty 1	Action HAULING	Delivery: Type DUMPTRL	0 JCK	0 Description Dump Truck Services				
Access Notes;	™ TONS	CONTAMINATE	ED INDUSTRIAL	- TO N	ILF (M12-2603)				

Detailed Notes:

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Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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DRIVER SIGNATURE

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	<b>10DERN</b>						
1445 Pletcher Ros Model City, NY 1 (716) 754-8226					Ticket: Date:	1002183 10/11/2( 13:35:01	3364
Customer:	JO15-MDS 0250310002/Modern Disposal Roll Off - OHOL-002/OHOL ENTERPRISES	Truck Type:	TA	Gross: Tare: Net:	74180 28120 46060	POU I POU	n Scale INBOUN P.T.
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	BROKER/SUB OUT VA M12-2603/VANDEMAR	RIOUS E K CHEM	BR( IICAI	WO:	0000584232
Origin	Materials & Services		Quantity Un				
292600/Lockport	DC Industrial Waste -	General		ON			

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Weighmaster: Deb Lehman

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TEL. (716) 75	4746 I Mode	isposal Services Model City Roa PO Box 209 I City, NY 1410	s, Inc. d		Work Order: WO0000584233 Route: PF 29 Map Grid: Service Date: 10/11/2012	
Customer #: Site #: Customer Name: Service Location: Address:	015172 01517200 SEVENSC SEVENSC VANDEM LOCKPOF KEN PAIS (716) 284-	PO #: 45 DN ENVIRONM DN ENVIRONM ARK, 1 NORTH RT SLY	10879005 ENTAL ENTAL@		Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time: <u>/ 4 0</u> Depart Time: <u>/ 4 5</u>	
Recurring:	0	0	Open/Close:	0	0 Destination	
Removal:	0	0	Delivery:	0	0	
Work Order 0000584233 Service Note	Qty 1 <sup>IS:</sup> TONS	Action HAULING CONTAMINATI	<b>Type</b> DUMPTRU ED INDUSTRIAI		Description Dump Truck Services MLF (M12-2603)	

Access Notes:

Detailed Notes:

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Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

in DRIVER SIGNATURE

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1445 Pletcher Roa Model City, NY 1 (716) 754-8226						Ticket: Date:	100213 10/11/2	8339: 2012 60 - 1	4:13:52
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:		/SUB OUT	Gross: Tare: Net: VARIOUS B	70580 27380 43200	POU POU		Scale INBOUN P.T.
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENT Materials & Services	Profile:	M12-2603	3/VANDEM	ARK CHEM	IICAI	wO	: 00	00584233
292600/Lockport		eneral	***********	Quantity 21.60	Unit TON				

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Weighmaster: Deb Lehman

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	4746	visposal Services Model City Road PO Box 209	s, Inc. 1		Work Order: WO0000584234				
TEL. (716) 75	Mode	PO Box 209 el City, NY 14107 00) 662-0012 F/	, \X. (716) 754-8	964	Route: Service Dat	PF 30 te: 10/11/2012	Map Grid:		
Customer #: 015172 PO #: 10879005 Site #: 0151720045 Customer Name: SEVENSON ENVIRONMENTAL					Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By:				
Address: VANDEMARK, 1 NORTH TRANSIT RD						Dropped:			
City: Contact:	LOCKPOI	RT .	IRANSII KU		Bin # Picked up: Trip Charge Reason:				
Phone:	(716) 284				Arrival Tir		Depart Time:		
Recurring:	0	0	Open/Close:	0	0	Destination			
Removal:	0	0	Delivery:	0	0				
Work Order 0000584234 Service Note	Qty 1	Action HAULING	Type DUMPTRI		Description Dump Truck S	Services			
	IQNS	CONTAMINATE	DINDUSTRIA	_ TO N	ALF (M12-2603)				
Access Notes:									
Detailed Notes:									

Work Order Notes:

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\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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٦ DRIVER SIGNATURE

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ANN	<b>10DERN</b>		
1445 Pletcher Roz			Ticket: 1002183405 Date: 10/11/2012
Model City, NY 1 (716) 754-8226	4107		Time: 14:23:01 - 14:23:50 Scale
Truck:	PF30-MDS		Gross: 73320 POU In Scale INBOUN
Customer:	0250310002/Modern Disposal Roll Off-		Tare: 26480 POU P.T. Net: 46840 POU
Carner.	FOUR-003/FOURNIER, PAUL	Truck Type: Route:	te: BROKER/SUB OUT VARIOUS BRC WO: 0000584234
Generator:	0250310002/Modern Disposal Roll Off-	Profile:	le: M12-2603/VANDEMARK CHEMICAI
Service Site: Comment:	0151720045 SEVENSON ENVIRONMEN	TAL@	•
Origin	Materials & Services		Quantity Unit
292600/Lockport	DC Industrial Waste -	General	23.42 TON

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Weighmaster: Deb Lehman

1445 Pletcher Ror Model City, NY 1 (716) 754-8226				A Language A Language	Ticket: 100 Date: 10, Time: 14:	021834) /11/2012	2 14:30:54	
Customer:	LLOYD-56 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises	Truck Type: Route:	BROKER/SUB OUT	Gross: Tare: Net: VARIOUS I	71520 PO 27800 PO 43720 PO BRC	U U	In Scale INBOUN P.T. 2: 0000584235	
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off- 0151720045 SEVENSON ENVIRONMEN Materials & Services		M12-2603/VANDEM		AICAI			
292600/Lockport		General	Quantity 21.86	Unit TON				
				-				

Weighmaster: Deb Lehman

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Customer #: Site #: Customer Name	474 Mo 54-8226 015172 015172 SEVEN SEVEN	1 Disposal Service 16 Model City Ros PO Box 209 Idel City, NY 1410 (800) 662-0012 F PO #: 0045 SON ENVIRONM SON ENVIRONM MARK, 1 NORTH ORT JSLY	ad 77 FAX. (716) 754-8964 10879005 IENTAL IENTAL	Work Order:       WO0000584236         Route:       PF       Map Grid:         Service Date:       10/11/2012         Rep/Order Date:       MODERN\gabe       10/10/2012         Requested By:       Bin # Dropped:
Recurring:	0	0	Open/Close: 0	
Removal:	0	0		0 Destination
	0	0	Delivery: 0	0
Work Order 0000584236 Service Note	Qty 1 <sup>es:</sup> TON	Action HAULING S CONTAMINATI	<b>Type</b> DUMPTRUCK ED INDUSTRIAL TØ M	Description Dump Truck Services _F (M12-2603)
Access Notes:			X	L -56
Detailed Notes:				
Work Order Note	es:			
The Customer agrees injury or death to pers Customer's breach of make alterations with DRIVER SIGNATURE	any warran out the conti	y, defend and hold ha or damage to property ty created hereunder i ractor's written approv	***PLEASE NOTE INDEMNIFIC armless the Contractor agains y arising out of the Customer' by the Customer. The Custon ral.	ATION AGREEMENT*** t all claims, damages, suits, judgments, penalties, fines and other liability or s use, operation or possession of the equipment or arising out of the her shall not overload the equipment nor use it for incineration purposes or

4 CUSTOMER SIGNATURE --

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1445 Pletcher Roz Model City, NY 1 (716) 754-8226					Ticket: Date:	10021 10/11/2	8334 2012	3:11:45
Customer:		k Type: P Route: B	PU BROKER/SUB OUT	Gross: Tare: Net: VARIOUS I	66860 27800 39060 BRC	POU POU		Scale INBOUN P.T. 000584236
Service Site: Comment:	P 0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENTAL@	Profile: M	412-2603/VANDEM	ARK CHEN	ЛСАІ	wo	. 00	00384236
Origin 292600/Lockport	Materials & Services DC Industrial Waste - Genera	 al	Quantity 19.53	Unit TON				

Weighmaster: Deb Lehman

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	$\mathbb{N}^{(1)}$	OD	ERr		
		Disposal Service		on	Work Order: W00000584237
	4748	6 Model City Roa PO Box 209	ad		
TCL (740) 75	Mod	el City, NY 1410	)7		Map Crite.
Customer #:			FAX. (716) 754-8 10879005	964	Service Date: 10/11/2012
Site #:	0151720	045			Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm
stomer Name	SEVENS	ON ENVIRONM	IENTAL		Requested By:
dress:		ON ENVIRONM IARK, 1 NORTH			Bin # Droppėd:
ty:	LOCKPO	RT			Bin # Picked up:
ontact: ione:	KEN PAI (716) 284				Trip Charge Reason: Arrival Time: <u>州 にの</u> Depart Time: 1 <b>フ</b> :00
		Time Windows			Arrival Time: Depart Time:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
ork Order	Qty	Action	Туре		Description
00584237	1	HAULING	DUMPTRI	ПСК	Dump Truck Services
Service Note	s: TONS	CONTAMINAT			/LF (M12-2603)
					(112 2000)
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tailed Notes					
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	<u>ve.</u>				
tailed Notes: /ork Order Note	es:				
fork Order Note	s to indemnify	r, defend and hold h	armless the Contract	for anal	-ICATION AGREEMENT***
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1445 Pletcher Roz Model City, NY 1 (716) 754-8226					Ticket: Date: Time:	10021 10/11/	8331 2012	2:26:43
Customer:	JO15-MDS 0250310002/Modern Disposal Roll Off - OHOL-002/OHOL ENTERPRISES	Truck Type: Route:	nted Ticket ******** TA BROKER/SUB OUT M12-2603/VANDEN			POU	In ): 0(	Scale INBOUN P.T. 000584237
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONME							
Origin	Materials & Services		Quantity		*******			
292600/Lockport	DC Industrial Waste	- General	24.13	TON				

Driver:

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Weighmaster: Deb Lehman

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TEL. (716) 75	474) Moc	Disposal Services 6 Model City Road PO Box 209 Iel City, NY 14107	s, Inc. d 7		Work Order: WO0000584238 Route: PF Map Grid: Service Date: 10/11/2012				
TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964         Customer #:       015172       PO #:       10879005         Site #:       0151720045         Customer Name:       SEVENSON ENVIRONMENTAL         Service Location:       SEVENSON ENVIRONMENTAL@         Address:       VANDEMARK, 1 NORTH TRANSIT RD         City:       LOCKPORT         Contact:       KEN PAISLY         Phone:       (716) 284-0431         Time Windows					Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time: Depart Time:				
Recurring: Removal:	0 0	0 0	Open/Close: Delivery:	0 0	0 Destination 0				
0000584238	Qty 1 ss: Tons	Action HAULING S CONTAMINATE	<b>Typē</b> DUMPTRI ED INDUSTRIAI		Description Dump Truck Services //LF (M12-2603)				
Access Notes:					Walck # 324				
Detailed Notes:									

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE

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CUSTOMER SIGNATURE

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1445 Pletcher Roa Model City, NY 1 (716) 754-8226					Ticket: Date: Time:	100218 10/11/2 14:41:1	2012	
Customer:	WALCK-34 0250310002/Modern Disposal Roll Off- WALC-001/WALCK BROS AG SE	Truck Type:	TA	Gross: Tare: Net:	75300 27620 47680	POU		Scale INBOUN P.T.
Generator: Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENT	Route: Profile:	BROKER/SUB OL M12-2603/VANDE	JT VARIOUS ; MARK CHEN	BRC MICAI	WO:	: 000	0584238
Origin	Materials & Services		Quanti	ty Unit				
292600/Lockport	DC Industrial Waste - G	feneral	23.84	TON				

Driver: \_\_\_\_

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Weighmaster: Deb Lehman

Customer #:	474 Moc 4-8226 (8 015172 0151720 SEVENS SEVENS	Disposal Service Model City Roa PO Box 209 el City, NY 1410 300) 662-0012 F PO #: 045 ON ENVIRONM 0N ENVIRONM MARK, 1 NORTH RT SLY	ad 7 FAX. (716) 754-8 10879005 IENTAL ENTAL@		Work Order: WO0000584239 Route: PF Jan / JMap Grid: Service Date: 10/11/2012 Rep/Order Date: MODERN\gabe 10/10/2012 4:42pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time: 2:10 Depart Time: 2:20
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584239 Service Note	Qty 1 es: TONS	Action HAULING CONTAMINAT	Týpe DUMPTRI ED INDUSTRIAI		Description Dump Truck Services LF (M12-2603)

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Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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1445 Pletcher Ros Model City, NY 1 (716) 754-8226					Ticket: Date: Time:	100218: 10/11/20 14:47:22	012	:47:39	
Customer:	JO15-MDS 0250310002/Modern Disposal Roll Off - OHOL-002/OHOL ENTERPRISES	Truck Type: Route:	TA BROKER/SUB OUT V	Gross: Tare: Net:	72540 28120 44420	POU POU		Scale INBOUT P.T.	<u>,</u>
Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	M12-2603/VANDEMA	ARK CHEN		wU:	000	00584239	
292600/Lockport	Materials & Services DC Industrial Waste -	General	Quantity 1 22.21	Unit TON					

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Weighmaster: Deb Lehman

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Customer #:	4746 Mode 4-8226 (80	hisposal Service Model City Roa PO Box 209 el City, NY 1410 D0) 662-0012 F PO #:	ad 7 FAX. (716) 754-89		Work Order: WO0000584857 Route: PF So-/ Map Grid: Service Date: 10/11/2012 Rep/Order Date: MODERN\gzientara 10/11/2012 1:49pm
Customer Name Service Location Address: City: Contact: Phone:	: SEVENSO SEVENSO VANDEM LOCKPOI KEN PAIS (716) 284	ON ENVIRONM ON ENVIRONM ARK, 1 NORTH RT SLY	ENTAL@		Requested By: don from PF Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time: <u>314/2</u>
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000584857 Service Note	<b>Qty</b> 1 es: TONS	Action HAULING CONTAMINAT	<b>Type</b> DUMPTRI ED INDUSTRIAI		Description Dump Truck Services MLF (M12-2603)

Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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AN	<b>10DERN</b>			is you an an announced and a second and a se		Hornsey
1445 Pletcher Roa Model City, NY 1 (716) 754-8226					Ticket: Date: Time:	012 5 - 16:09:22
Customer:	JO15-MDS 0250310002/Modern Disposal Roll Off- OHOL-002/OHOL ENTERPRISES	Truck Type: Route:	TA BROKER/SUB OUT	Gross: Tare: Net: VARIOUS	28120 46420	 Scale INBOUN P.T.
	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	M12-2603/VANDEM			 0000004037
Origin	Materials & Services		Quantity	Unit		
292600/Lockport	DC Industrial Waste -	General	23.21	TON		 

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Weighmaster: Deb Lehman

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Customer #:	4746 Moc 54-8226 (8 0.15172 0151720 SEVENS SEVENS	Disposal Service 5 Model City Roa PO Box 209 lel City, NY 1410 300) 662-0012 F PO #: 045 SON ENVIRONM SON ENVIRONM MARK, 1 NORTH DRT SLY	ad 7 AX. (716) 754-8 10879005 ENTAL ENTAL@		Work Order:       WO0000584858         Route:       PF       Map Grid:         Service Date:       10/11/2012         Rep/Order Date:       MODERN\gzientara       10/11/2012         Requested By:       don from PF         Bin # Dropped:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order	Qty	Action	Туре		Description
0000584858	1	HAULING	DUMPTRU	JCK	Dump Truck Services
Service Note	es: TONS	CONTAMINATI			

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\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\* The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

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1445 Pletcher Roz Model City, NY 1 (716) 754-8226						Ticket: Date: Time:	1002183 10/11/20 16:06:36 Sca	012 5 - 16:06:57
Customer:	LLOYD-56 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises	Truck Type: Route:	PU BROKER/SUB	OUT V	Gross: Tare: Net: ARIOUS 1	27800 49680	POUIn POU POU	Scale INBOUN P.T. 0000584858
Generator: Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN	Profile:	M12-2603/VAN				wo.	, ,
Origin	Materials & Services		Qu	antity (	Jnit			
292600/Lockport	DC Industrial Waste -	General	24.	.84	TON	********		

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Weighmaster: Deb Lehman

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Customer #:	4746 Mod 4-8226 (8 015172 01517200 SEVENS SEVENS VANDEM LOCKPO KEN PAIS (716) 284	Disposal Services Model City Roa PO Box 209 el City, NY 1410 00) 662-0012 F PO #: 045 ON ENVIRONM ON ENVIRONM ARK, 1 NORTH RT SLY	d 7 AX. (716) 754-8 10879005 ENTAL ENTAL@		Route: Service Date Rep/Order Date Requested By Bin # D Bin # Pic Trip Charge	r: don from PF Dropped:	 
Recurring:	0	0	Open/Close:	0	0	Destination	
Removal:	0	0	Delivery:	0	0		
Work Order 0000584859 Service Note	Qty 1 es: TONS	Action HAULING CONTAMINATI	<b>Type</b> DUMPTRI ED INDUSTRIAI		Description Dump Truck S ILF (M12-2603)	Services	

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Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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	<b>IODERN</b>						Anima Santa	A STATEMENT OF A STATEMAN A ST
1445 Pletcher Roa Model City, NY 14 (716) 754-8226						Ticket: Date: Time:		
Customer:	PF30-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	TA BROKER/SUI	3 OUT	Gross: Tare: Net: VARIOUS	26480 46000	POU	Scale INBOUN P.T. 0000584859
	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMENT	Profile:	M12-2603/VA					,
Origin	Materials & Services		Q	uantity	Unit			
292600/Lockport	DC Industrial Waste - C	 Feneral		3.00	TON			

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Driver:

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Weighmaster: Deb Lehman

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		Disposal Service 6 Model City Roa PO Box 209			Work Order: WO0000584928 Route: PF 29 Map Grid:
TEL. (716) 75	Мо 4-8226 (	del City, NY 1410 800) 662-0012 F	7 AX. (716) 754-8	964	Service Date: 10/12/2012
Customer #: Site #: Customer Name	0151720	045	10879005		Rep/Order Date: MODERN\gdonovan 10/11/2012 3:15pm Requested By:
Service Location	: SEVENS	SON ENVIRONM	ENTAL@		Bin # Dropped:
Address: City:		MARK, 1 NORTH ORT	TRANSIT RD		Bin # Picked up:
Contact: Phone:	KEN PA (716) 28	ISLY 4-0431			Trip Charge Reason: Depart Time: $924$
D		Time Windows			
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order	Qty	Action	Туре		Description
0000584928	1	HAULING	DUMPTRU	JCK	Dump Truck Services
Service Note	es: TON	S CONTAMINAT	ED INDUSTRIAI	_ TO I	ЛLF (M12-2603)
Access Notes:					

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Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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View and and an en	Corporation				Ticket:	1002183	598
1445 Pletcher Roa	d				Date:	10/12/20	)12
Model City, NY 14	4107				Time:	10:02:13	- 10:03:14
(716) 754-8226						Sca	le
				Gross:	71540	POUIn	Scale OUTBO
Truck:	PF29-MDS			Tare:	27380	POU	P.T.
Customer:	0250310002/Modern Disposal Roll Off -			Net:	44160	POU	
		Fruck Type:	TA				
		Route:	BROKER/SUB OU	IT VARIOUS	BRC	WO:	0000584928
		Profile:	M12-2603/VANDE	MARK CHE	MIC.		
Generator:	0250310002/Modern Disposal Roll Off -						
Service Site:	0151720045 SEVENSON ENVIRONMENT	AL@					
Comment:							
Origin	Materials & Services	*****	Quanti	ity Unit			
292600/Lockport	DC Industrial Waste - G	eneral	22.08	TON			

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Driver: ·• ·

Weighmaster: Deb Lehman

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City: LOCKPORT Contact: KEN PAISLY Phone: (716) 284-0431 Time Windows Recurring: 0 0 Open/Close: 0 Removal: 0 0 Delivery: 0 Nork Order Qty Action Type 0000584929 1 HAULING DUMPTRUCK		Work Order: WO0000584929 Route: PF <i>Ilovan</i> は 1017 Map Grid: Service Date: 10/12/2012							
Customer #: Site #: Customer Name	Modern Disposal Services, Inc.Work Order: W000005849294746 Model City Road PO Box 209 Model City, NY 14107Route: PF 100 volue 1000 for the point of the p								
Recurring:	0	0	Open/Close:	0	0 Destination				
Removal:	0	0	Delivery:	0	0				
Work Order 0000584929 Service Note	1	HAULING	DUMPTRI		Dump Truck Services				

Access Notes:

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Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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provide the time of the	Corporation					Ticket:	1002183	551
1445 Pletcher Roa	d Sov Bor actori					Date:	10/12/20	12
Model City, NY 14	107					Time:	08:43:04	- 08:44:24
(716) 754-8226	TY 14107       Time: 08:43:04 - 08:44:24         26       Scale         Gross: 64540 POUIn       Scale OUTBOI         ack: DORAN-107       Tare: 27060 POU         ner: 0250310002/Modern Disposal Roll Off-       Net: 37480 POU         rier: DORA-001/DORAN TRUCKING       Truck Type: TA         Route: BROKER/SUB OUT VARIOUS BRC       WO: 0000584929         Profile: M12-2603/VANDEMARK CHEMIC.         tor: 0250310002/Modern Disposal Roll Off-         Site: 0151720045 SEVENSON ENVIRONMENTAL@         ent:       Materials & Services         Quantity Unit							
					Gross:	64540	) POUIn	Scale OUTBO
Truck:	DORAN-107				Tare:	27060	) POU	P.T.
Customer:	0250310002/Modern Disposal Roll Off -				Net:	37480	) POU	
Carrier:	DORA-001/DORAN TRUCKING	Truck Type:	TA					
		Route:	BROKER/SUI	BOUT	VARIOUS	BRC	WO:	0000584929
		Profile:	M12-2603/VA	NDEM	ARK CHEN	vIIC.		
Generator:	0250310002/Modern Disposal Roll Off -							
Service Site:	0151720045 SEVENSON ENVIRONMEN	ITAL@						
Comment:								
Origin	Materials & Services		Q	uantity	Unit			
292600/Lockport	DC Industrial Waste -	General	18	8.74	TON			

Driver:

Weighmaster: Deb Lehman

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Customer #:	4746 Mode 4-8226 (80 015172 01517200 SEVENSC SEVENSC VANDEM LOCKPOF KEN PAIS (716) 284	isposal Services Model City Roa PO Box 209 el City, NY 1410 00) 662-0012 F, PO #: 45 DN ENVIRONMI DN ENVIRONMI ARK, 1 NORTH RT SLY	d 7 AX. (716) 754-88 10879005 ENTAL ENTAL@		Route: Service Dat Rep/Order Date Requested By Bin # D	ropped: cked up: Reason:	indp ond.	
Recurring:	0	0	Open/Close:	0	0	Destination		
Removal:	0	0	Delivery:	0	0			
Work Order 0000584930 Service Note	Qty 1 es: TONS	Action HAULING CONTAMINAT	Type DUMPTRU ED INDUSTRIAL		Description Dump Truck S MLF (M12-2603)	Services	-	

Access Notes:

**Detailed Notes:** 

Work Order Notes:

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\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

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The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty, created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

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1445 Pletcher Roa					Ticket: Date:	100218	
Model City, NY 14	4107				Time:		- 08:55:20
(716) 754-8226						Sca	
The set 1				Gross:	6500	0 POUIn	Scale OUTBO1
	JO15-MDS			Tare:	28120	D POU	Р.Т,
	0250310002/Modern Disposal Roll Off -			Net:	36880	) POU	
Carrier:	OHOL-002/OHOL ENTERPRISES	Truck Type:	TA				
		Route:	BROKER/SUB OUT	VARIOUS	BRC	WO:	0000584930
Generator	0250310002/Modern Disposal Roll Off -	Profile:	M12-2603/VANDEM	ARK CHEI	MIC,		
	0151720045 SEVENSON ENVIRONMEN	IAL@					
Comment:							
Origin	Materials & Services		Quantity	Unit			
292600/Lockport	DC Industrial Waste -	General	18.44	TON			*****

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Driver:

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## Weighmaster: Deb Lehman

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TEL. (716) 75	4746 I Mode	isposal Services Model City Road PO Box 209 Il City, NY 14107 00) 662-0012 FA	Inc.		Work Order: V Route: Service Date	PF 29	Map Grid:	
Customer #: Site #: Customer Name Service Location Address: City:	01517200 SEVENSC SEVENSC	ON ENVIRONME ON ENVIRONME ARK, 1 NORTH	NTAL NTAL@		Requested By: Bin # Dr Bin # Pick	opped:	onovan 10/11/201	•
Contact: Phone:	KEN PAIS (716) 284- -				Trip Charge R Arrival Time	Reason: e: <u>]45</u>	Depart Time:	<i><b>F00</b></i>
Recurring:	0 ~	0.	Open/Close:	0	0 E	Destination	× .	
Removal:	0.	0	Delivery:	0	0			
Work Order	Qty	Action	Туре		Description			
0000584931	1	HAULING	DUMPTRI	JCK	Dump Truck Se	ervices		
Service Note	es: TONS	CONTAMINATE	D INDUSTRIA	L TO N	MLF (M12-2603)			
Access Notes:							- Q.	
Detailed Notes:								
Work Order Note	es:							×
					FICATION AGREEMENT**			
The Customer agree	s to indemnify	, detend and hold ha	rmless the Contrac	ctor agai	inst all claims, damages	s, suits, judgments,	penalties, fines and ot	her liability or

injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE

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	1445 Pletcher Road Model City, NY 14 (716) 754-8226	-					Ticket: Date:	10021 10/12/:	8355 2012	2 )8:46:04	
	Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL		BROKER/S				POU POU	In	Scale OUTB( P.T. 000584931	ונ
	Generator: Service Site: Comment: Origin	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRONMEN Materials & Services		M12-2603/\			4ICAI				
-	292600/Lockport	DC Industrial Waste - C	Jeneral		Quantity 18.75	Unit TON					

Driver:

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Weighmaster: Deb Lehman

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	Modern 1 474	Disposal Service 6 Model City Ro	es, Inc.	Work Order: WO0000600377 ~
		PO Box 209		
TEL (716) 75	Moc 34 8226 /	lel City, NY 1410		and Sind.
Customer #:			FAX. (716) 754-8964 10879005	Service Date: 11/09/2012
Site #:	0151720	045		Rep/Order Date: MODERN\gabe 11/8/2012 3:55pm
Customer Name	SEVENS	ON ENVIRONN	IENTAL	Requested By:
Address:		SON ENVIRON ( H TRANSIT RO	@ VANDEMARK	Bin # Dropped:
City:	LOCKPC	DRT	AD	Bin # Picked up:
Contact:	KEN PAI			Trip Charge Reason:
Phone:	(716) 284	4-0431 Time Windows		Arrival Time: <u>715</u> Depart Time: <u>730</u>
Recurring:	0	0	Open/Close: 0	0 Destination
Removal:	0	0	Delivery: 0	0
Work Order	Qty	Action	-	
0000600377	1	HAULING	Туре	Description
Service Note			DUMPTRUCK	Dump Truck Services
Service Note	es. TONS	S CONTAMINAT	FED INDUSTRIAL TO	MLF (M12-2603)
Access Notes:				
Detailed Notes:				
Work Order Note			***PLEASE NOTE INDEMN	
Work Order Note The Customer agree	s to indemnif sons or loss f any warran	ty created hereunde	hamless the Contractor aga inty arising out of the Custor ar by the Customer. The Cus	IFICATION AGREEMENT*** ainst all claims, damages, suits, judgments, penalties, fines and other liability or her's use, operation or possession of the equipment or arising out of the stomer shall not overload the equipment nor use it for incineration purposes or
Work Order Note The Customer agrees injury or death to pers Customer's breach o make alterations with	s to indemnif sons or loss f any warran nout the contr - V	ty created hereunde	hamless the Contractor aga inty arising out of the Custor ar by the Customer. The Cus	ainst all claims, damages, suits, judgments, penalties, fines and other liability or ner's use, operation or possession of the equipment or arising out of the stomer shall not overload the equipment nor use it for incineration purposes or
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445 Pletcher Roa Model City, NY 14 716) 754-8226	IODERN Corporation					100219 11/9/20	12 ) - 08:11:17	
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type:	TA BROKER/SUB OUT	Gross: Tare: Net:	27380 53320	POUIn POU POU	Scale OU P.T.	
Generator: Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ V	Profile:	M12-2603/VANDEN	VARIOUS	MIC,	WO:	000060037	7 ~
Drigin	Materials & Services		0					
292600/Lockport	DC DEC Approved W		Quantity					
•	De Dee Appiover wa	asic	26.66	TON				
Driver:			W	D 1		,		
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Modern Disposal Services, Inc. 4746 Model City Road Work Order: WO0000600378	
PO Box 209 Route: PF Map Grid: Model City, NY 14107	
TEL. (716) 754-8226 (800) 662-0012 FAX. (716) 754-8964 Service Date: 11/09/2012	
Customer #: 015172 PO #: 10879005 Rep/Order Date: MODERN\gabe 11/8/2012 3:55pm Site #: 0151720045	
Customer Name: SEVENSON ENVIRONMENTAL Requested By:	
Service Location: SEVENSON ENVIRON @ VANDEMARK Bin # Dropped:	. <u> </u>
City: LOCKPORT Bin # Picked up:	
Contact:     KEN PAISLY     Trip Charge Reason:       Phone:     (716) 284-0431     Arrival Time:     72.5   Depart Time: 73.5	5
Benvery. 0	
Work Order Qty Action Type Description	
0000600378 1 HAULING DUMPTRUCK Dump Truck Services	
Service Notes: TONS CONTAMINATED INDUSTRIAL TO MLF (M12-2603)	
Access Notes: GJ Lloyd 9A717	
Access Noles.	
Detailed Notes:	
Work Order Notes:	
***PLEASE NOTE INDEMNIFICATION AGREEMENT***	
The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liabil injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purpose make alterations without the contractor's written approval.	
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1445 Pletcher Road Model City, NY 14 (716) 754-8226	LODERN Corporation				Ticket: Date:	100219( 11/9/201	12 - 08:13:15	ti Æl
Customer:	LLOYD-60 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises	Truck Type:	TA	Gross: Tare: Net:	28820 49040	) POUIn ) POU ) POU	Scale OUT P.T.	В
Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ Ve	Profile:	BROKER/SUB OUT V. M12-2603/VANDEMA	ARIOUS RK CHE	BRC MIC,	WO:	0000600378	-
Origin	Materials & Services		Quantity (					
292600/Lockport	DC DEC Approved Wa	aste	24.52	TON				
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	Modern D 4746	isposal Services, Model City Road	Inc.			WO00006003		14         11時  日   31    12月
	1	PO Box 209			ute:			-1.
TEL. (716) 75	Mode 54-8226 (80	el City, NY 14107 00) 662-0012 FAX	X. (716) 754-89			: 11/09/2012	15 Map Gri	u.
Customer #:	015172	PO #: 1	0879005				- gabe 11/8/201;	3.55nm
Customer Name	01517200 SEVENSC ::	ON ENVIRONME	NTAL		quested By:		9-20 100201	2 0.000111
Service Locatior Address:	1: SEVENSO	ON ENVIRON @ TRANSIT ROAD	VANDEMARK		Bin # Dr	ropped:		
City:	LOCKPOF	RT			Bin # Pic			
Contact: Phone:	KEN PAIS (716) 284-			. <b>T</b>	rip Charge F			
		Time Windows			Anivarian	e: <u>735</u>	Depart Ti	me: <u>7.97</u>
Recurring:	0	0	Open/Close:	0	0 [	Destination		
Removal:	0	0	Delivery:	0 -	0			
Work Order	Qty	Action	Туре	Do	orintian			
0000600379	1 ·	HAULING	DUMPTRU		s <b>cription</b> mp Truck Se	anvices		
Service Not	<sup>es:</sup> TONS	CONTAMINATED				51 11063		
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The Customer agree injury or death to per Customer's breach o	s to indemnify, sons or loss or f any warranty	defend and hold ham damage to property a created hereunder by	nless the Contract arising out of the C ( the Customer, Th	or against all c	aims, damage:	s, suits, judgmen	ts, penalties, fines ; equipment or arisin nor use it for incine	and other liability or ng out of the
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445 Pletcher Roa Aodel City, NY 14 716) 754-8226	d tion			Ticket: Date:	1002190 11/9/201	2 - 08:15:36	
Customer:	GAM-15 0250310002/Modern Disposal Roll Off - GAM-001/GAM TRUCKING Truck Type: Route		Gross: Tare: Net:	28240 47800	POUIn POU POU	Scale O P.T.	
Comment:	Profile: 0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ VANDEMARI	BROKER/SUB OUT VA M12-2603/VANDEMAF	KIOUS K CHEI	BRC MIC,	WO:	00006003	79
rigin 92600/Lockport	Materials & Services DC DEC Approved Waste	Quantity U					
	2 0 DEC Apploved Waste	23.90 1	ON				
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Driver:		Weighmaster: Del	o Lehmai	n .			
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	Modern	Disposal Service 6 Model City Ro	Corporation es, inc.		r: WO000060038	
	4/4	PO Box 209	au	Route:	PF	
	Mo	del City, NY 141	07			Map Grid:
			FAX. (716) 754-8964		)ate: 11/09/2012	
Customer #: Site #:	015172 0151720	PO #:	10879005	Rep/Order D	ate: MODERN\ga	ibe 11/8/2012 3:55pr
Customer Name	SEVEN	SON ENVIRONA	<b>MENTAI</b>	Requested	By:	
Service Location	n: SEVENS	SON ENVIRON	@ VANDEMARK	Bin #	# Dropped:	
Address: City:	1 NORT	H TRANSIT RO	AD			
Contact:	LOCKPO KEN PA				ge Reason:	
Phone:	(716) 28					Depart Time: 9
		Time Windows	i		<u></u>	
Recurring:	0	Ó	Open/Close: (	0 0	Destination	
Removal:	0	0	Delivery: (	0 O		
Work Order	054	<b>a</b>		-		
0000600380	Qty	Action	Туре	Description	n ·	
	1	HAULING	DUMPTRUC	K Dump Truc	k Services	
Service Not	es: TON	S CONTAMINA	TED INDUSTRIAL T	O MLF (M12-2603	3)	
			• • •	/		
	• .	(J.)	Lloyd			
Access Notes:		$\mathbf{O}\mathbf{U}$	Lioya		$\left( 1\right) $	$\boldsymbol{\mathcal{A}}$
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Detailed Notes: Work Order Not		9A7 I		EMNIFICATION AGREEME	NT***	
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1445 Pletcher Road Model City, NY 14107	Corporation		Date: 11/9/2012 Time: 09:31:34	37 : . 09·32·38
Carrier: LLOY-00	02/Modern Disposal Roll Off - I/Lloyd Enterprises Truck Type Route	Gross: Tare: Net: BROKER/SUB OUT VARIOUS M12-2603/VANDEMARK CHEM	Sa 77120 POU In 28820 POU 48300 POU BRC WO: 4	Scale OUTBO P.T.
Service Site: 015172004 Comment:	45 SEVENSON ENVIRON @ VANDEMAR			
Origin 292600/Lockport	Materials & Services DC DEC Approved Waste	Quantity Unit 24.15 TON		
		24.13 1010		
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Driver:		Weighmaster: Deb Lehma	n	
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TEL. (716) 75 Customer #:	Modern Di 4746 Mode 4-8226 (80 015172 015172004 SEVENSC 1 SEVENSC 1 NORTH LOCKPOF KEN PAIS (716) 284-	sposal Service Model City Roa PO Box 209 I City, NY 1410 00) 662-0012 F PO #: 45 0N ENVIRON N ENVIRON ( TRANSIT RO) TRANSIT RO)	ad 77 FAX. (716) 754-89 10879005 IENTAL @ VANDEMARK	. •	Work Order: WO0000600381 Route: PF J Map Grid: Service Date: 11/09/2012 Rep/Order Date: MODERN\gabe 11/8/2012 3:55pm Requested By: Bin # Dropped: Bin # Picked up: Trip Charge Reason: Arrival Time:
Recurring:	0	0	Open/Close:	0	0 Destination
Removal:	0	0	Delivery:	0	0
Work Order 0000600381 Service Note	Qty 1 es: TONS	Action HAULING CONTAMINAT	Type DUMPTRI ED INDUSTRIAI		Description Dump Truck Services MLF (M12-2603)

Access Notes:

Detailed Notes:

Work Order Notes:

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

V ~ DRIVER SIGNATURE

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CUSTOMER SIGNATURE

1445 Pletcher Roz Model City, NY 1 (716) 754-8226	<b>10DERN</b> Corporation				Ticket: 1 Date: 1 Time: 0	1/9/2012 9:27:43 -	
Customer: Carrier: Generator:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL 0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ Y	Profile:	BROKER/SUB OU M12-2603/VANDE	Gross: Tare: Net: T VARIOUS I MARK CHEM	27380 F 41700 F 3RC	POU In POU POU	Scale OU P.T.
Origin	Materials & Services		Quantit	y Unit			
292600/Lockport	DC DEC Approved W	Vaste	20.85	TON			
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Driver:			Weighmaster:	Deb Lehmar	1		
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	M	DDE	ERN		
	Modern D 4746	isposal Services Model City Road	. Inc.	Work Order: WO0000600	
	l Mode	PO Box 209 I City, NY 14107			Map Grid:
TEL. (716) 7	54-8226 (80	00) 662-0012 FA	X. (716) 754-8964	Service Date: 11/09/201	
Customer #: Site #:	01517200	45	10879005	Rep/Order Date: MODERN	\gabe 11/8/2012 3:55pm
Customer Name Service Location			NTAL	Requested By:	
Audress.	INORTH	ON ENVIRON @ TRANSIT ROAD	VANDEMARK		
City: Contact:	LOCKPOF KEN PAIS	,		Trip Charge Reason:	
Phone:	(716) 284-	0431		Arrival Time: 830	Depart Time: 90 9
Recurring:	ò	Fime Windows 0			
Removal:	-	0	Open/Close: 0 Delivery: 0	0 Destination	
Work Order	04.	-	Delivery: 0	0	
0000600382	Qty 1	Action HAULING	Туре	Description	
			DUMPTRUCK	Dump Truck Services	
			D INDUSTRIAL TO	MLF (M12-2603)	
Access Notes:					
Detailed Notes:					
Solanda Holes.					
Work Order Note	35:				
The Customer agree	s to indemnify,	detend and hold have	***PLEASE NOTE INDEMN mless the Contractor aga	• / • • · ·	nts, penalties, fines and other liability or
Customer's breach o	f any warranty	created hereunder by	the Customer. The Custom	Inst all claims, damages, suits, judgme ler's use, operation or possession of the torner shall not overload the equipment	e equipment or arising out of the
make alterations with		ctor's written approva			the dee to the memory purposes or
DRIVER SIGNATUR	E			MILIDE	
······		·	CUSTOMER SIGN	KIURE	
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Trudi: GAM-15     Gross: 74440 POUTate     Seale OUTEC       Carrier 0250310002/Modem Disposal Roll Off-     Net: 46200 POU     P.T.       Carrier 0250310002/Modem Disposal Roll Off-     Trudi: Type: TA     Route: BROKERSUB OUT VARIOUS BRC     WO: 0000600382       Generator: 0250310002/Modem Disposal Roll Off-     Service Size     WO: 0000600382       Generator: 0250310002/Modem Disposal Roll Off-     Service Size     Wo: 0000600382       Generator: 0250310002/Modem Disposal Roll Off-     Outer BROKERSUB OUT VARIOUS BRC     WO: 0000600382       Generator: 0250310002/Modem Disposal Roll Off-     Outer BROKERSUB OUT VARIOUS BRC     WO: 0000600382       Generator: 0250310002/Modem Disposal Roll Off-     Outer BROKERSUB OUT VARIOUS BRC     WO: 0000600382       Comment:     Outer Disposal Roll Off-     Outer Disposal Roll Off-     Disposal Roll Off-       292600/Lockport     DC DEC Approved Waste     23.10     TON	1445 Pletcher Roa Model City, NY 14 (716) 754-8226	IODERN Corporation			Ticket: Date:	1002191 11/9/201	2 - 09:40:52
Profile:       M12-2603/VANDEMARK CHEMIC.         Service Site:       0151720045 SEVENSON ENVIRON @ VANDEMARK.         Comment:       Origin       Materials & Services         Origin       Materials & Services       Quantity Unit         292600/Lockport       DC DEC Approved Waste       23.10         Driver:	Customer:	0250310002/Modern Disposal Roll Off -	ick Type: TA Route: BROKER/SUB OI	Tare: Net:	28240 46200	POUIn POU POU	Scale OUTBO P.T.
292600/Lockport     DC DEC Approved Waste     23.10     TON	Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ VANI	Profile: M12-2603/VANDE	MARK CHE	MIC.	wO:	0000600382
Driver: Weighmaster: Deb Lehman		Materials & Services	Quant	ity Unit			
weignmaster: Deb Lehman	292600/Lockport	DC DEC Approved Waste					
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		Model City Roa PO Box 209			Route:	: WO00060083 PF2-9	Map Grid:
TEL. (716) 75	1710a 54-8226 (8	el City, NY 1410 00) 662-0012	)7 FAX. (716) 754-8!	964	Service Da	ate: 11/09/2012	Map Cha.
Customer #:	015172 01517200	PO #:	10879005		Rep/Order Da	ate: MODERN\gz	ientara 11/9/2012 9:18
Customer Name	SEVENS	ON ENVIRONM	IENTAL		Requested E		
Service Location Address:	SEVENS 1 NORTH	ON ENVIRON ( TRANSIT RO	@ VANDEMARK		Bin #	Dropped:	
City: Contact:	LOCKPO	RT			Bin # F	Picked up:	·
Phone:	KEN PAI: (716) 284				Arrival T	e Reason: ime: <u> </u>	Depart Time: 10-
Recurring:	. O	0	Open/Close:	0	0	Destination	
Removal:	0	0	Delivery:	0	0		
Work Order	Qty	Action	Туре		Description		
0000600834	1	HAULING	DUMPTRU	лск	Dump Truck	Services	· .
Service Note	<sup>es:</sup> TONS	CONTAMINAT	ED INDUSTRIAL		/ILF (M12-2603)	)	
Access Notes:							
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Detailed Notes:							•
Detailed Notes: Work Order Note			***PLEASE NOTE IN	IDEMNIF	- ICATION AGREEMEN	T***	•
Detailed Notes: Work Order Note The Customer agree	es to indemnify sons or loss o of any warranty nout the contra	created hereunder	armless the Contract ty arising out of the C r by the Customer. The oval.	tor agair Custome ac Custo	omer shall not overl	iges, suits, judgments,	penalties, fines and other liab guipment or arising out of the r use it for incineration purpose
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Defailed Notes: Work Order Note The Customer agree injury or death to per Customer's breach o make alterations with	es to indemnify sons or loss o of any warranty nout the contra	created hereunder	armless the Contract ty arising out of the C r by the Customer. The oval.	tor agair Custome ac Custo	nst all claims, dama er's use, operation c omer shall not overl	iges, suits, judgments,	penalties, fines and other liab uipment or arising out of the r use it for incineration purpose
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1445 Pletcher Ro Model City, NY I (716) 754-8226	4107	Corporation			Ticket: Date: Time:	10021910 11/9/2012 10:59:00 - Scale	10:59:33
Customer:	PF29-MDS 0250310002/Moo FOUR-003/FOU		Type: TA	Gross: Tare: Net:	27380 41800	POUIn POU	Scale OUTBC P.T.
Comment:	0250310002/Mod 0151720045 SEV	lem Disposal Roll Off - ENSON ENVIRON @ VANDE	Route: BROKER/SU rofile: M12-2603/VA MARK	B OUT VARIOUS NDEMARK CHE	BRC MIC,	WO: (	000600834 -
Origin 292600/Lockport		Materials & Services	0	uantity Unit			
292000/Lockport		DC DEC Approved Waste		).90 TON			
Driver:							
-			Weighma	ster: Deb Lehmar	L		
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	4746	isposal Services Model City Roa PO Box 209	s, Inc.	Work Order: WO0000600835
TEL. (716) 75	Mode 54-8226 (80	City, NY 1410	7 AX. (716) 754-8964	Route: PF Map Grid: Service Date: 11/09/2012
Customer #: Site #: Customer Name	01517200	45	10879005	Rep/Order Date: MODERN\gzientara 11/9/2012 9:15am Requested By: Don
Service Location Address:	SEVENSO	N ENVIRON @ TRANSIT ROA	VANDEMARK	Bin # Dropped:
City: Contact: Phone:	LOCKPOR KEN PAIS	RT LY	_	Bin # Picked up: Trip Charge Reason:
		Time Windows		Arrival Time: 16/5 Depart Time: 1030
Recurring: Removal:	0	0	Open/Close: 0	0 Destination
	. 0	0	Delivery: 0	0
Work Order 0000600835	<b>Qty</b> 1	Action HAULING	<b>Type</b> DUMPTRUCK	Description Dump Truck Services
Service Note	es: TONS	CONTAMINATE	ED INDUSTRIAL TO N	/LF (M12-2603)
Access Notes:			Gu	Tlloyd (16A)
Detailed Notes:			9A )	
Work Order Note	es:			<i>* /</i>
The Customer agrees injury or death to pers Customer's breach of make alterations with	f any warranty out the contra	created hereunder	by the Customer. The Customer	TCATION AGREEMENT*** nst all claims, damages, suits, judgments, penalties, fines and other liability or er's use, operation or possession of the equipment or arising out of the owner shall not overload the equipment nor use it for incineration purposes or

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DRIVER SIGNATURE

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445 Pletcher Road Aodel City, NY 141 716) 754-8226	ODERN Corporation			3	Ficket: Date:	10021910 11/9/2012	2 - 11:01:50	a 1101 (884)
Customer: 0	LLOYD-60 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises	Truck Type: TA		Gross: Tare: Net:	28820 41640	POUIn POU POU	Scale OUT P.T.	
Generator: 0 Service Site: 0 Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ V	Route: BROKE Profile: M12-26 /ANDEMARK	R/SUB OUT VA 03/VANDEMAI	ARIOUS I RK CHEN	BRC AIC,	WO:	0000600835	2
Drigin	Materials & Services		Quantity U					-
292600/Lockport	DC DEC Approved W	Vaste	20.82	TON				
. •								
Driver:		v	Veighmaster: De	eb Lehma	n			

	Modern Dis 4746 M	sposal Service Model City Roa	Corporati es, Inc. ed		•	: WO00006008	
<i></i>	P	O Box 209			Route:		. /
TEL. (716) 75	Model 54-8226 (80)	City, NY 141(	)7 FAX. (716) 754-8			PFGAM	
Customer #:	015172	PO #	10879005	964		ate: 11/09/2012	
Site #:	015172004	15				te: MODERN	gzientara 11/9/2012 9:15
Customer Name Service Location	: SEVENSO				Requested E		
Augu 655.	INORTH	I RANSIT RO/				Dropped:	
City: Contact:	LOCKPOR KEN PAISL					icked up:	·
Phone:	(716) 284-0				Trip Charge Arrival Ti	$\frac{1}{10}$	Depart Time: 103
Recurring:	0	0	Open/Close:	0	0	Destination	
Removal:	0	0	Delivery:	0.	0	Destination	
Work Order	Qty	•	·	-	Ŭ		
0000600836	-	Action HAULING	Туре		Description		•
Service Note			DUMPTRU		Dump Truck		
	TONS C	ONTAMINAT	ED INDUSTRIAL		1LF (M12-2603)		
•			•				· .
Access Notes:							
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Detailed Notes:							
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Work Order Note	·e.						
There or der Note	<b>.</b> .						
	to indomnify a		***PLEASE NOTE IN	DEMNIFI	CATION AGREEMENT	***	2
The Customer agrees	one or loop or d	amage to proper	ty arising out of the Contract	or again Sustome: De Custo	st all claims, damag r's use, operation or mer shall not over	ges, suits, judgments possession of the e	s, penalties, fines and other liabil equipment or arising out of the or use it for incineration purpose
The Customer agrees njury or death to perso Customer's breach of nake alterations witho	any warranty ci out the contracto	or's written appro	val.			ad the equipment n	or use it for incineration purpose
nake alterations witho	any warranty cr out the contracto	or's written appro	val.			ad the equipment n	or use it for incineration purpose
The Customer agrees njury or death to perso Customer's breach of nake alterations witho DRIVER SIGNATURE	any warranty cr out the contracto	or's written appro			EX		or use it for incineration purpose
nake alterations witho	any warranty cr out the contracto	or's written appro	val.		EX		or use it for incineration purpose
nake alterations witho	any warranty cr out the contracto	or's written appro	val.		EX		. use it for incineration purpose
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nake alterations witho	any warranty cr out the contracto	or's written appro	val.		EX		

445 Pletcher Ro	ad Corporation	Ticket: 1002191094
Aodel City, NY 1 716) 754-8226	4107	Date: 11/9/2012 Time: 11:05:43 - 11:05:57 Scale
Customer:	GAM-15 0250310002/Modern Disposal Roll Off - GAM-001/GAM TRUCKING Truc	Gross: 75540 POUIn Scale OUTBOI Tare: 28240 POU P.T. Net: 47300 POU
Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ VANDE	Route: BROKER/SUB OUT VARIOUS BRC WO: 0000600836 Profile: M12-2603/VANDEMARK CHEMIC.
rigin	Materials & Services	Quantity Unit
92600/Lockport	DC DEC Approved Waste	23.65 TON
Driver:		Weighmaster: Deb Lehman

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Modern Disposal Se			
4746 Model City	/ Road	Work Order: WO0000600837	-
PO Box 20 Model City, NY	14107	Route: PF 29	Map Grid:
TEL. (716) 754-8226 (800) 662-00		Service Date: 11/09/2012	
Customer #: 015172 PC Site #: 0151720045	)#: 10879005	Rep/Order Date: MODERN\gzie	entara 11/9/2012 9:15am
Customer Name: SEVENSON ENVIR	ONMENTAL	Requested By: Don	
Service Location: SEVENSON ENVIR Address: 1 NORTH TRANSIT	ON @ VANDEMARK	Bin # Dropped:	
City: LOCKPORT	NOAD	Bin # Picked up:	
Contact: KEN PAISLY Phone: (716) 284-0431		Trip Charge Reason:	
Time Wind	ows	Arrival Time: //30	Depart Time: 1140
Recurring: 0 0	Open/Close: 0	0 Destination	
Removal: 0 0	Delivery: 0	0	
Work Order Qty Action	Туре	Description	
0000600837 1 HAULING	••	Description	
Service Notes: TONS CONTAMI	DOMI INOOK	Dump Truck Services	
	INATED INDUSTRIAL TO N	ILF (M12-2603)	
			<u>*.</u>
Access Notes:			
Detailed Notes:		· · ·	
	•		
Work Order Notes:			

\*\*\*PLEASE NOTE INDEMNIFICATION AGREEMENT\*\*\*

The Customer agrees to indemnify, defend and hold harmless the Contractor against all claims, damages, suits, judgments, penalties, fines and other liability or injury or death to persons or loss or damage to property arising out of the Customer's use, operation or possession of the equipment or arising out of the Customer's breach of any warranty created hereunder by the Customer. The Customer shall not overload the equipment nor use it for incineration purposes or make alterations without the contractor's written approval.

DRIVER SIGNATURE

1 CUSTOMER SIGNATURE

1445 Pletcher Ro Model City, NY 1 (716) 754-8226	ADDERN ad 4107				Ticket: 100219 Date: 11/9/20 Time: 12:09:3 Sc	1133 12 1 - 12:10:22	10 814   0 <b>0</b>
Customer: Carrier:	PF29-MDS 0250310002/Modern Disposal Roll Off - FOUR-003/FOURNIER, PAUL	Truck Type: Route:	BROKER/SUB OUT	Net: VARIOUS F	63100 POUIn 27380 POU 35720 POU	Scale OUTI P.T. 0000600837	
Service Site: Comment:			M12-2603/VANDEN	ARK CHEN	ſĨĊ,	•	
Origin 292600/Lockport	Materials & Services		Quantity	/ Unit			
	t DC DEC Approved V	Vaste	17.86	TON			
•							
Driver:		·	Weighmaster:	Deb Lehman			
uş er							

TEL (716) 75	4746 Mode	Disposal Services Model City Road PO Box 209 City, NY 14107 D0) 662-0012 FA			Work Order:       WO0000600838 ~         Route:       PF       Map Grid:         Service Date:       11/09/2012
Customer #:	015172 01517200 SEVENSO SEVENSO	PO #: 45 DN ENVIRONME DN ENVIRON @ TRANSIT ROAI RT	10879005 INTAL VANDEMARK		Rep/Order Date: MODERN\gzientara 11/9/2012 9:15am Requested By: Don Bin # Dropped: Bin # Picked up:
Phone:	(716) 284-				Trip Charge Reason:
Recurring: Removal:	0 0	0 0	Open/Close: Delivery:	0 0	0 Destination 0
Work Order 0000600838 Service Note	Qty 1 es: TONS	Action HAULING CONTAMINATE	<b>Type</b> DUMPTRI D INDUSTRIA		Description Dump Truck Services MLF (M12-2603)
Access Notes:		GJ	Lloya		
Detailed Notes:		9A71	•		(60
Work Order Note	es:				
The Customer agrees injury or death to pers Customer's breach of make alterations with	any warranty	created hereunder h	mless the Contrac arising out of the ( of the Customer, T	tor agair	FICATION AGREEMENT*** inst all claims, damages, suits, judgments, penalties, fines and other liability or er's use, operation or possession of the equipment or arising out of the comer shall not overlead the equipment nor use it for incineration purposes or

DRIVER SIGNATURE

CUSTOMER SIGNATURE

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1445 Pletcher Ro Model City, NY 1 (716) 754-8226	ad Corporation 4107				Ticket: Date:	1002191 11/9/201	2 - 12:19:30	
Customer:	LLOYD-60 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises	Truck Type:		Gross: Tare: Net:	28820 35940	POUIn POU POU	Scale OUT P.T.	
Generator: Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ V	Profile:	BROKER/SUB OUT M12-2603/VANDEN	(VARIOUS) MARK CHEN	BRC MIC,	WO:	0000600838	<u> </u>
Origin	Materials & Services		Quantity	Tinit				
292600/Lockport	DC DEC Approved W	iste	17.97	TON				-
	•							
Driver:			Weighmost	Dah I -1				
			Weighmaster:	Deo Lehman	1			
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Custome:       0250310002/Modern Disposal Roll Off- Carrie:       Truck Type: TA Route:       Net:       48660 POU       P.T.         Carrie:       GAM-001/GAM TRUCKING       Truck Type: TA Route:       REOKER/SUB OUT VARIOUS BRC       WO:       0000600839         Frofile:       M12-2603/VANDEMARK       CHEMIC.       Wo:       0000600839         Generator:       0250310002/Modern Disposal Roll Off- Service Site:       OIST720045 SEVENSON ENVIRON @ VANDEMARK         Comment:       Origin       Materials & Services       Quantity Unit         292600/Lockport       DC DBC Approved Waste       24.43       TON	TBO	2:28:22 Scale OU <sup>r</sup>	12 ) - 1: ale	1002191 11/9/201 12:27:59 Sca POUIn POUIn	Date: Time: 77100	Gross: Tare:			Corporation	45 Pletcher Road del City, NY 14107 6) 754-8226 Truck: GAN
Service Site:       0151720045 SEVENSON ENVIRON @ VANDEMARK         Comment:	9			POU	48860 BRC	Net: VARIOUS F	ER/SUB OUT	Route:	001/GAM TRUCKING	Carrier: GAM
292600/Lockport DC DEC Approved Waste 24.43 TON           Driver:					шс,				20045 SEVENSON ENVIRON @ V	Service Site: 0151 Comment:
Driver: Weighmaster: Deb Lehman										
weighmaster: Deb Lehman										
weighmaster: Deb Lehman	·									•
					L	Deb Lehman	Weighmaster:		-	Driver:
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	Modern I 4746	Disposal Service 6 Model City Roa	Corporations, Inc.	) T	Work Order: WO000060115	
		PO Box 209			Route: PF 29	9 Map Grid:
TEL. (716) 7	ואוס 54-8226 (8	lel City, NY 1410 300) 662-0012 F	)7 FAX. (716) 754-89	964	Service Date: 11/09/2012	Map Ghū:
Customer #:	015172 0151720	PO #:	10879005		Rep/Order Date: MODERN\gz	ientara 11/9/2012 11:49am
Customer Name	e: SEVENS	ON ENVIRONM	IENTAL		Requested By: don/PF	
Address:	n: SEVENS 1 NORTH	ON ENVIRON ( TRANSIT RO	@ VANDEMARK		Bin # Dropped:	
City: Contact:	LOCKPO KEN PAI	RT				
Phone:	(716) 284	1-0431			Trip Charge Reason: Arrival Time:	Depart Time: ((5
Poourring		Time Windows	_			
Recurring: Removal:		0	Open/Close:	0	0 Destination	3
		0	Delivery:	0	0	
Work Order 0000601159	Qty	Action	Туре		Description	
Service Not	1	HAULING	DUMPTRL		Dump Truck Services	
	UNS	CONTAMINAT	ED INDUSTRIAL	. TO I	ILF (M12-2603)	
Access Notes:						•
Detailed Notes:						
Detailed Notes:						
Work Order Not	es:					
The Customer agree	s to indemnify	, defend and hold h	ormines the Original of		ICATION AGREEMENT*** Ist all claims, damages, suits, judgments,	nenaltion from and other is they
Customer's breach o	of any warranty	v created hereunder	by the Customor Th	ustome e Oust	ist all claims, damages, suits, judgments, it's use, operation or possession of the economic shaft not overload the equipment not	upment or arising out of the
make alterations with	out the contra	actor's written appro	oval.		s inclusion of the equipment not	use it for incineration purposes or
DRIVER SIGNATUR	<u>_/h</u>			K	X	
and a second sec		1. A the fight of standard presentation of the standard presentation of	CUSTOMER	SIGN	ATURE)	
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	<b>10DERN</b>			
1445 Pletcher Ro Model City, NY 1 (716) 754-8226	ad Corporation 4107		Ticket: 100219 Date: 11/9/20 Time: 13:51:48	1226 12 - 13:53:00
Customer:	PF29-MDS 0250310002/Modern Disposal Roll Off- FOUR-003/FOURNIER, PAUL Truck Type:		Sca 67880 POUIn 27380 POU 40500 POU	Scale OUTBOI P.T.
Generator: Service Site: Comment:	0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ VANDEMARK	BROKER/SUB OUT VARIOUS M12-2603/VANDEMARK CHEN	BRC WO: MIC,	0000601159 -
Origin	Materials & Services	Quantity Unit		
292600/Lockport		20.25 TON		
•				1. J.
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Driver:		Weighmaster: Deb Lehman	t	: •
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# Customer # Site Customer Nam	4746 Mod 754-8226 (8 015172 01517200 E: SEVENS 01: SEVENS 1 NORTH LOCKPO KEN PAIS (716) 284	Disposal Service Model City Roa PO Box 209 el City, NY 1410 00) 662-0012 F PO #: 045 ON ENVIRONM ON ENVIRONM I TRANSIT RO/ RT SLY	ad 77 FAX. (716) 754-8 10879005 IENTAL ⊉ VANDEMARK	964	Work Order:       WO0000601160~         Route:       PF       Map Grid:         Service Date:       11/09/2012         Rep/Order Date:       MODERN\gzientara       11/9/2012         Requested By:       don/PF         Bin # Dropped:
Recurring	: 0	0	Open/Close:	0	0 Destination
Removal	: 0	0	Delivery:	0	0
Work Order	Qty	Action	<b>T</b>		
0000601160	1	HAULING	<b>Type</b> DUMPTRI		Description Dump Truck Services
Service No Access Notes: Detailed Notes: Work Order No	tes:		, ****DI EASE NOTE 10	( 9,	MLF (M12-2603) FICATION AGREEMENT***
The Customer agre injury or death to pe Customer's breach make alterations wi DRIVER SIGNATU	of any warranty thout the contra	created hereunder	armless the Contract ty arising out of the C by the Customer, Th	tor again Custome Custo Custo	inst all claims, damages, suits, judgments, penalties, fines and other liability or er's use, operation or possession of the equipment or arising out of the comer shall not overload the equipment nor use it for incineration purposes or

1445 Pletcher Road Model City, NY 14107 (716) 754-8226 Truck: LLOYD- Customer: 0250310 Carrier: LLOY-00	002/Modern Disposal Roll Off - 01/Lloyd Enterprises Truck 7	Gross: Tare: Net:	44380 POU
Generator: 0250310 Service Site: 0151720 Comment:	Ro Pro 002/Modern Disposal Roll Off - 045 SEVENSON ENVIRON @ VANDEM	oute: BROKER/SUB OUT VARIOUS H ofile: M12-2603/VANDEMARK CHEM IARK	BRC WO: 0000601160 - ДС,
Origin	Materials & Services	Quantity Unit	
292600/Lockport	DC DEC Approved Waste	22.19 TON	
	• .	· · ·	
		4	
Driver:		Weighmaster: Deb Lehman	
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		Model City Roa PO Box 209			Route:	: WO000060116 PF GAA		4.
TEL. (716) 75	Mode 54-8226 (80	el City, NY 1410 <sup>-</sup> 00) 662-0012  F.	7 AX. (716) 754-8	964	Service Da	ate: 11/09/2012	1 1/ Map One	<b>4.</b>
Customer #: Site #:	015172 01517200	PO #: <sup>´</sup>	10879005			te: MODERN\gz	zientara 11/9/2	2012 11.49
Customer Name Service Location Address:	: SEVENS	ON ENVIRONM ON ENVIRON @ TRANSIT ROA	<b>VANDEMARK</b>		Bin #	Dropped:		
City: Contact:	LOCKPO				Trip Charge			
Phone:	(716) 284		. `		Arrival Ti		Depart Ti	me: <u>3</u>
Recurring:	0	0	Open/Close:	0	0	Destination		
Removal:	0	0	Delivery:	0	0			
Work Order	Qty	Action	Туре		Description			
0000601161	1	HAULING	DUMPTR	UCK	Dump Truck	Services		
Service Note	<sup>es:</sup> TONS	CONTAMINATI	ED INDUSTRIA	L TO N	ILF (M12-2603)			
		. •			( · · ·			
Access Notes:								
Detailed Notes:								
			. ···					
Work Order Note	es:		. <sup>44</sup>	- •				
Work Order Note	es:							
The Customer agree	s to indemnify	r, defend and hold h	armless the Contrac	tor agair	ICATION AGREEMEN Ist all claims, dama	app quite judamenta	s penalties, fines a	and other liabi
The Customer agree injury or death to per Customer's breach o	s to indemnify sons or loss o if any warranty	/ created hereunder	armless the Contrac ty arising out of the ( by the Customer, 7	tor agair	ist all claims, dama	ges, suits, judgments		
The Customer agree injury or death to per Customer's breach o	s to indemnify sons or loss o if any warranty	/ created hereunder	armless the Contrac ty arising out of the ( by the Customer, 7	tor agair	ist all claims, dama	ges, suits, judgments		
The Customer agree injury or death to per Customer's breach o make alterations with	s to indemnify sons or loss o of any warranty nout the contra	/ created hereunder	armless the Contrac ty arising out of the ( by the Customer, 7	tor agair	ist all claims, dama	ges, suits, judgments		
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Track: GAM-15     Gross: 69369 POUL     P.T.       Customer: 0230310002/Modern Disposal Roll Off- Currie: GAM-001/GAM TRUCKING     Truck Type: TA Route: BROEENSUB OUT VARIOUS BRC     WO: 0000601161.       Service Sit:     0230310002/Modern Disposal Roll Off- Service Sit:     0230310002/Modern Disposal Roll Off- Service Sit:     WO: 0000601161.       Service Sit:     0230310002/Modern Disposal Roll Off- Service Sit:     Quantity Unit       Ocument:     Materials & Services     Quantity Unit       Optimer:     DC DEC Approved Waste     20.56     TON	445 Pletcher Roa Model City, NY 1 716) 754-8226		Corporation			÷	Time:	14:01:50 Sca	2 - 14:03:42	
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		Modern I	Jisposal Service	Corporati es, Inc.	on				
		4/4	6 Model City Ro PO Box 209	ad			: WO000060116	2	
	TEL (716) 75	Mod 4-8226 (8	el City NY 1/1/	07 FAX. (716) 754-8		Route:	PF	Map Grid:	
	Customer #:	015172	PO #	10879005	964		ate: 11/09/2012		
	Site #: Customer Name:	0151720	045			Requested P	te: MODERN\gz	zientara 11/9/201	12 11:49am
	Service Location:	: SEVENS	ON ENVIRON (	@ VANDEMARK		Requested B Bin #1	_		
·	Address: City:	1 NORTH LOCKPO	H TRANSIT RO	AD			icked up:		
	Contact: Phone:	KEN PAI	SLY			Trip Charge	Reason:		
	Flione.	(716) 284	I-0431 Time Windows			Arrival Ti	me: 235	Depart Time:	250
	Recurring:	0	0	Open/Close:	0	0	Deaths		
	Removal:	0	0	Delivery:	0	0	Destination		
	Work Order	Qty	<b>A</b> . (2	·	Ū	0			
	0000601162	1	Action HAULING	Туре		Description			· .
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			-			LF (M12-2603)			
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1445 Pletcher Roz Model City, NY 1 (716) 754-8226	ad Corporation 4107			Date:	1002191 11/9/201 15:21:12 Scal	2 - 15:21:55
Customer:	LLOYD-60 0250310002/Modern Disposal Roll Off - LLOY-001/Lloyd Enterprises Truck	Type: TA	Gross: Tare: Net:	28820 66160	POUIn POU POU	Scale OUTBO1 P.T.
Comment:	P 0250310002/Modern Disposal Roll Off - 0151720045 SEVENSON ENVIRON @ VANDE	Route: BROKER/SUB OUT rofile: M12-2603/VANDEN MARK	VARIOUS B IARK CHEM	RC IC,	WO:	0000601162 -
Origin	Materials & Services	Quantity	/ Unit			
292600/Lockport	DC DEC Approved Waste	33.08	TON			
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Driver:		Weighmaster:	Deb Lehman			
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		Disposal Servic			
	4746	Model City Re	bad	Work Order: WO000060116	53
	Mode	PO Box 209 el City, NY 14 <sup>-</sup>	107	Route: PF 6 A	Map Grid:
TEL. (716) 7	54-8226 (8	00) 662-0012	FAX. (716) 754-8964	Service Date: 11/09/2012	
Customer #: Site #:	015172	PO #:	10879005	Rep/Order Date: MODERN\g	zientara 11/9/2012 11:40am
Customer Name	e: SEVENS		MENTAI	Requested By: don/PF	
Service Location Address:	n: SEVENS	ON ENVIRON	@ VANDEMARK	Dia # D	
City:	LOCKPO	I I RANSIT RO	DAD	D: // D: /	
Contact:	KEN PAIS	SLY		Trip Charge Reason:	
Phone:	(716) 284	-0431 Time Windows		Arrival Time: D35	Depart Time: 305
Recurring:		- 0		- -	
Removal:	· · ·	0	Open/Close: 0	0 Destination	
	U .	0	Delivery: 0	0	
Work Order	Qty	Action	Туре	Description	
000601163	1.	HAULING	DUMPTRUCK	Dump Truck Services	3
Service Not	<sup>es:</sup> TONS	CONTAMINA	TED INDUSTRIAL TO N	MLF (M12-2603)	
Access Notes:					
Access Notes:					х.
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<u>معرجية ومنطقية مشرط المناقبة ا</u>

1445 Pletcher Road Model City, NY 14 (716) 754-8226 Truck:	<b>IODERN</b> Corporation					10021913		
Model City, NY 14 (716) 754-8226 Truck:	107				LICKCU	- HURT/1012		
Truck:			•		Date:	11/9/2012	15	
Truck:			-		Time:	15:34:23 -	15:35:06	
-	GAM-15			Gross:	96300	Scale POUIn	Scale OUTBO	
Customer:	0250310002/Modern Disposal Roll Off			. Tare:	28240	POU	P.T.	
Carrier:		Truck Type:	TA	Net:	68060	POU		
		Route:	BROKER/SUB OUT	VARIOUS	BRC	w∩∙ ∩	000601163 -	
Generator:	0250310002/Modern Disposal Roll Off -	Profile:	M12-2603/VANDEM	IARK CHEN	AIC.		00001103	
Comment:	0151720045 SEVENSON ENVIRON @ VA	NDEMARK						
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APPENDIX H

FLOWABLE FILL LABORATORY TESTING RESULTS

**APPENDIX H-1** 

FLOWABLE FILL TEST CYLINDER RESULTS

	S		X WALL PER T RESULTS 0-5084 (Method					67
Client Project Location Sample Number ID	: N : S : C	Romano Associates Vandemark Plant Stab Sample 1 Cement-Flyash Stabili		Date Job No. Tested By Checked By		10/22/20 12LS27 RL JB		
Location	: 1	Lockport, NY		Spec. Gravity	÷	2.35	Assume	d Averag
		Physical	Property Data	·				
Initial Height ( in )		: 4.902		Final Height	( in )			4.90
Initial Diameter ( i		: 5.94		Final Diamet				5.9
Initial Wet Weight		: 3541.30		Final Wet We			1	3701.1
Wet Density ( pcf )		: 99.22		Wet Density	-		1	103.
Moisture Content %		: 37.99		Moisture Cor				44.2
Dry Density ( pcf )		: 71.91		Dry Density				71.9
Initial Void Ratio		: 1.0393		Final Void R		/		1.039
Saturation, %		: 85.9		Saturation, %			4	100
		Test I	Parameters					
Fluid		: De-Aired Water		Effective				
Cell Pressure psi	)	: 65.00		Confining Pr	essur	e (nsi)		2
Head Water osi		: 46.30		Gradient		c (por)	1	14.6
Tail Water osi	)	: 43.70					i	11.0
Permeability Input	Data		1.00E-5	HIDDE	1-1-1			
For Last Data Point			cm/sec					
Flow, Q (cc)		: 14.40	÷		<b>.</b>	****		
Length, L (in)		: 4.90	들 1.00E-6					
Area, A (sqin	)	: 27.71	1.00E-6					
Head, h (psi)		: 2.60	IRM			+++++		
Time, t (min		: 60.00						
Temp, T (Deg		: 19.6	1.00E-7	5	10	15	20	25
		Computed	d Permeability		Read	aings		

**APPENDIX H-2** 

IN-SITU FLOWABLE FILL TEST CORE RESULTS

CORE # 1	S		F FLEX WALI TEST RESU STM D-5084 (N			J	67
Client	4	Romano Assoc	ates	Date	: 11/26/20	12	
Project Location			ant Stabilization	Job No.	: 12LS27		
Sample Number		Sample 3 - Lo		Tested By	: RL	0 MIC 80 MIC 10	
ID			Stabilized Soil	Checked By	: JBJr		
Location		Lockport, NY					
				Spec. Gravity	: 2.27	Assume	d Average
		P	hysical Propert	y Data			
Initial Height (in	1)	: 3.	620	Final Height	( in )	÷	3.61
Initial Diameter (			.58	Final Diame			3.5
Initial Wet Weigh				Final Wet W			892.4
Wet Density ( pc	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.03	Wet Density			94.5
Moisture Content			.50	Moisture Co			64.6
Dry Density ( pcl			.61	Dry Density			57.4
Initial Void Ratio		: 1.5		Final Void R			1.467
Saturation,%			3.9	Saturation,9		1	100.
			Test Paramet	ers			
Fluid		: De-Aire	l Water	Effective			
Cell Pressure ps	i)	: 65	.00	Confining P	ressure (psi)		1
Head Water bs	i)	: 56	.60	Gradient		:	24.4
Tail Water 35	i)	: 53	.40				
Permeability Inp	ut Data		1.00	DE-4			
For Last Data Poi			cm/sec				
Flow, Q (cc	)	. 20	.60				
Length, L (in			.61				
Area, A (sqi			.60 1100 .61 395 95 .20 34				
11104, 11 (04)			.20				
Head h (ne			00 1 -				
			9.6 1.00	0 5	10	15	20
Time, t (mi	or C)	. 1	2.0	û 5		10	20
Time, t (mi	eg C)				Readings	and Canada a	
Time, t (mi	eg C)		omputed Permo	eability	Readings	ayıl)anın (man a	

ORE #2	TES	A WALL PERMEABILITY T RESULTS -5084 (Method A)
Client :	Romano Associates	Date : 11/26/2012
Project Location :	Vandemark Plant Stal	lization Job No. : 12L\$2758.02
Sample Number :	Sample 4 - Short	Tested By : RL
ID :	Cement-Flyash Stabil	
Location :	Lockport, NY	
		Spec. Gravity : 2.35 Assumed Average
	Physical	Property Data
Initial Height ( in )	: 3.840	Final Height (in) : 3.80
Initial Diameter (in)	: 3.65	Final Diameter (in) : 3.6
Initial Wet Weight (g)		Final Wet Weight (g) : 1016.4
Wet Density (pcf)	: 963.80	Wet Density (pcf) : 97.1
Moisture Content %	: 55.50	Moisture Content % : 60.6
Dry Density (pcf)	: 52.35	Dry Density (pcf) : 60.4
a color dia color di accione di ac	: 1.8011	Final Void Ratio : 1.425
Saturation, %	: 72.4	Saturation, % : 100.
	Test	Parameters
Fluid	: De-Aired Water	Effective
Cell Pressure psi)	: 65.00	Confining Pressure (psi) : 1
Head Water )si)	: 56.70	Gradient : 24.6
Tail Water >si)	: 53.30	
Permeability Input Dat	a	1.00E-5
For Last Data Point		cm/sec
Flow, Q (cc)	: 19.70	
Length, L (in)	: 3.81	
Area, A (sqin)	: 10.46	
Head, h (psi)	: 3.40	WX
Time, t (min)	: 180.00	
Temp, T (Deg C)		1.00E-7 1.00E-7 1.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tomp, i (Dog C)	. 17.0	0 5 10 15 20 Readings
		d Permeability
PERMEABILITY, K =		( cm/sec ) at 20 Degrees C

At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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