

**CONSTRUCTION
CERTIFICATION REPORT
FOR**

**BUFFALO LAKESIDE
COMMERCE PARK
BUFFALO'S UNION SHIP CANAL
REDEVELOPMENT - PHASE I
BUFFALO, NEW YORK**

prepared for:

Erie County Industrial Development Agency
Buffalo, New York

prepared by:

URS
77 Goodell Street
Buffalo, NY 14203

October 2006

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FOR

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Prepared For:

ERIE COUNTY INDUSTRIAL DEVELOPMENT AGENCY

BUFFALO, NEW YORK

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BUFFALO, NEW YORK

September 2006

ENGINEER CERTIFICATION

I certify that the Remedial Action Work Plans prepared for the Hanna Furnace Site Subparcel 1, by Malcolm Pirnie dated February 2002 and for Subparcel 2 by O'Brien & Gere Engineers Inc. dated November 2002, were implemented, that construction activities were completed substantially in accordance with these Department-approved Remedial Action Work Plans and that the activities were personally witnessed by persons under my supervision.



Robert E. Murphy

STATE OF NEW YORK
ROBERT E. MURPHY
LICENSE NO. 066031
LICENSED PROFESSIONAL ENGINEER

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1.0 INTRODUCTION

1.1 Purpose of Report

The purpose of this Construction Certification Report is to provide pertinent information necessary to document that site activities conducted during Phase 1 of the redevelopment of the former Hanna Furnace Corporation property were performed in conformance with the Soils Management Plan (SMP) developed for this site (see URS 2003). This document is not intended as a certification of the construction work associated with the installation of subsurface utilities and roadways.

Now identified as Buffalo Lakeside Commerce Park, this property is currently being redeveloped through the Erie County Industrial Development Agency (ECIDA). Acting on behalf of the ECIDA, URS Corporation (URS) provided project engineer oversight for all site activities performed from September 2003 through October 2004. Destro & Brothers Concrete Company, Inc. (Destro) was retained by ECIDA as the project's general contractor. Destro subcontracted the on-site environmental work to Nature's Way Environmental Consultants & Contractors, Inc. (Nature's Way). The New York State Department of Environmental Conservation (NSYDEC) provided regulatory agency oversight during this phase of the project.

1.2 Site Background

The former Hanna Furnace Corporation site is a vacant industrial property of approximately 113 acres which encircles the eastern portion of the Union Ship Canal. Situated along the eastern shore of Lake Erie at the southern edge of the City of Buffalo, New York, this property is bordered on the west by New York State Route 5, on the south by the Lackawanna Commerce Park, on the east by railroad tracks, and on the north by wetland areas and the former Shenango Steel property. For the purposes of redevelopment, the property has been divided into four parcels (Parcels 1 through 4). Phase 1 of redevelopment, which involved an approximate 24-acre portion of Parcels 1 and 2 (here referred to as the "Site"), has been completed (see Figure 1). This portion of the property was once part of the railroad yard and main manufacturing area for

the former Hanna Furnace Corporation facility. Structures formerly located on the Site included several production buildings, four blast furnaces, and various support structures.

The Buffalo Union Steel Corporation purchased the former railroad yard and manufacturing area in 1900. The Union Ship Canal was constructed in 1910 to service the facility. Pig iron manufacturing commenced between 1900 to 1915 with the construction of the blast furnaces. Following construction of the blast furnaces the property was acquired from the Buffalo Union Steel Corporation by the Hanna Furnace Company. In 1929, the National Steel Company purchased the property and the new corporate entity became known as the Hanna Furnace Corporation.

Iron ore, lime, coke, and other raw materials were delivered via the canal and stockpiled on concrete pads along the south side of the canal (i.e., Parcel 3), north of the Site. The pig iron manufactured on site was transported to customers via the railroad.

In 1982, all operations at the property ceased. The Jordan Foster Scrap Corporation purchased the property in 1983 and subsequently dismantled many of the on-site structures. After filing for bankruptcy in 1986, the Jordan Foster Scrap Corporation leased the property to the Equity Scrap Processing Company. In 1998, the City of Buffalo gained title to the property and on-site structure demolition continued up until the initiation of redevelopment activities.

Since 1982, various agencies and environmental consultants have conducted numerous investigations of the Site in an attempt to characterize the nature and extent of on-site contamination. Site-Specific Action Levels (SSALs) were established for individual compounds to help determine whether excavated soil/fill material could be reused on site. The SSALs, as presented in Table 1, were approved by both the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH), and were developed using the laboratory analytical results from previous investigations in conjunction with the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) No. 4046 guidelines plus a review of site conditions and anticipated future use. The site-specific SMP was developed to establish the procedures necessary to protect workers during redevelopment

activities as well as the protocols to be followed during the excavation and handling of soil and groundwater encountered during operations.

2.0 CONSTRUCTION ACTIVITIES AFFECTING SOIL MANAGEMENT

The primary purpose of Phase 1 of the former Hanna Furnace Corporation property redevelopment effort was construction of the infrastructure (i.e., roadways, utilities, etc.) for the Site. As part of the construction, it was necessary to excavate on-site soil/fill materials, which needed to be properly managed in accordance with the SMP.

Soil/fill was regularly field tested for pH by URS field personnel at the time of excavation. Any excavated soil/fill with a pH between 6.5 and 9.0 was reused on site as non-utility trench subgrade fill or in the berms. Per the SMP, if the pH was greater than 9.0, but less than 12.5, the excavated material could only be reused on site as non-utility trench subgrade fill, but this type of material was never encountered. If the pH was greater than 12.5, then the excavated soil/fill was to be classified as hazardous and stockpiled on site pending off-site disposal, but again, this circumstance never occurred. Any excavated soil suspected of being petroleum-impacted was temporarily staged on site on polyethylene sheeting and covered by polyethylene sheeting. These stockpiles were maintained pending sample collection and characterization to determine if the material could be reused on site or must be disposed of off-site at a licensed facility.

2.1 General Right-of-Way Excavation

A major part of the Phase 1 redevelopment involved the construction of a system of streets and sidewalks providing access onto, and throughout, the Site (see Figures 1 and 2). Excavation within the general right-of-way (ROW) for these streets was required in preparation for the backfill and installation of base materials necessary for proper roadway construction, as shown on Figures 3 and 4.

As part of the construction of the infrastructure for the first phase of development at the former Union Ship Canal Site, approximately 20,000 cubic yards of soil/fill materials were to be excavated for construction of utilities and roadways. In accordance with the NYSDEC-approved SMP for the project, soil samples were to be collected at a frequency of one per 2,000 cubic yards of soil to be excavated. This required that a minimum of 10 samples be collected and analyzed for the Target Compound List (TCL) of organics and the Target Analyte List (TAL) of metals. The results of the analyses were to be compared to the Site Specific Action Levels (SSALs) contained in the SMP (Table 1) and, then managed accordingly.

As agreed, the NYSDEC allowed URS to utilize the results of soil samples collected during previous investigations from borings located within, or near, the proposed Right-of-Way for the utility/roadways to satisfy this requirement. As shown on Figures 5 and 6, a total of 8 surface soil sampling locations and 10 soil borings were identified within the proposed roadway alignment and/or within 50 feet of it. Whereas the overall number of samples was sufficient to satisfy the SMP requirements, most of the borings and/or sampling points were located within the northern portion of the proposed roadway. Consequently, it was determined that some additional borings should be installed and sampled to characterize soils in the southern portion of the proposed roadway. As a result, during March 2003, URS installed six additional soil borings (i.e. SB-05 to SB- 10) at the approximate locations shown on Figures 5 and 6. These borings were extended to the proposed excavation depth, through the fill materials into the underlying native soils, or to a depth of 10 feet, whichever was greater. A composite sample of the fill materials was collected from each boring and submitted to a NYSDOH certified laboratory for analysis.

The results of the analyses for the samples collected during the previous investigations are contained in Appendix A. The results for the samples collected during this project are contained in Appendix B. A summary of the analytical results for the surface and subsurface soil samples is presented in Tables 2 and 3, respectively. As indicated in these tables, the contaminant concentrations in all the previous samples were below the SSALs. Additionally, the same was true for all the recent samples with the exception of samples from TB-08 and TB-10 which exceeded the SSALS for barium (652 mg/kg vs 500 mg/kg) and total cyanide (101 mg/kg vs 50 mg/kg), respectively.

In order to investigate the extent of the barium and cyanide contamination, a series of soil borings was installed on a radial grid pattern at distances of 10, 20 and 30 feet around each of the two borings with a composite sample of the fill material being collected in each boring. These samples were analyzed for barium and/or cyanide, as applicable to that location. Maps showing the location of the supplemental soil borings relative to TB-08 and TB-10 are contained in Appendix C. The analytical data for these samples also is contained in Appendix C and, summarized in Table 4 for TB-08 and Table 5 for TB-10. As shown in the tables, none of the supplemental samples indicated barium or cyanide at concentrations that exceeded the SSALs. Consequently, it was agreed with the Department that only the soils around each of the two original borings (i.e. TB-08 and TB-10) needed to be excavated and disposed offsite in a permitted landfill.

The laboratory analytical results established that the contaminant concentrations detected in the native soil and fill to be excavated from within the general ROW did not exceed the Site SSALs , with the exception of the two areas around TB-08 and TB-10.. Therefore, in accordance with the SMP, the native soil/fill was assumed to be “clean” and reusable on site within Parcels 1 and 2 (but not within the utility trenches) as either subgrade fill or as part of the above grade berms, depending on the soil/fill’s pH levels. During the period of September 2003 through October 2004, excavation within the general ROW for the construction of on-site roads “A”, “B”, “C”, “D” and “E” (see Figure 1) and the accompanying sidewalks was completed. In addition to continuous visual and olfactory inspection, URS field personnel conducted periodic field checks for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). Soil samples were collected, placed in Ziploc bags, and allowed to warm inside a heated vehicle or directly in the sun (depending on the season). The PID was then used to measure VOC concentrations within the headspace of the bag. URS field personnel also used portable field instruments or pH paper strips to measure soil pH. All excavated soil/fill, other than the exceptions discussed in subsequent sections below, was determined to be reusable on site as either non-utility trench subgrade fill or as part of the berms. Destro reused this material to construct part of the above grade berms encircling the Site.

Section III of the SMP included provisions for managing “*significantly different*” (i.e., *visually, PID readings, olfactory, etc.*) material encountered during excavation. Although some

areas of petroleum-impacted soil/fill material were encountered during ROW excavation, it was not “significantly different” from material identified in previous Site investigations.

2.2 Utilities Excavation

In addition to the construction of streets and sidewalks, subsurface utilities were installed as part of the Site’s infrastructure. Sanitary sewer, storm sewer, and water lines were installed beneath or alongside the streets throughout the Site and connected to existing off-site services. A “utility corridor” paralleling on-site roads was also constructed for the purpose of future utility installations (primarily natural gas, telephone, and electric).

Excavation of native soil/fill was required to pre-specified depths in preparation for the installation of piping and the backfill of base materials necessary for proper utility construction. Excavation depths reached 15-20 feet below existing grade for extensive sections of the sanitary sewer, particularly along “D” and “C” roads (it is not the intent of this report to provide as-built drawings of the subsurface utilities; however, they can be provided upon request). As previously stated, laboratory analytical results established that the contaminant concentrations detected in the native soil and fill to be excavated from these areas, with the exception of the fill materials immediately around TB-08 and TB-10, did not exceed the Site SSALs. Therefore, the native soil/fill was assumed to be “clean” and was reused on site, dependent on pH, as detailed above.

From September 2003 through October 2004, excavation and installation of the sanitary sewer, storm sewer, water line, and utility corridor was completed. URS field personnel conducted field checks of pH and for the presence of VOCs. With a few exceptions, which are discussed in subsequent sections, all soil/fill excavated during utility installation was determined to be reusable on site as either non-utility trench subgrade fill or in the berms. Destro reused this material to construct part of the above grade berms encircling the Site. As indicated above, previously undelineated petroleum-impacted soil/fill material was encountered in a few areas (i.e., sanitary sewer manhole No. 8 [MH-8], sanitary sewer manhole No. 11 [MH-11], and the “duct bank”) and managed according to the SMP (i.e., temporarily staged on-site prior to off-site disposal).

2.3 NAPL Areas Excavations/Pipeline

Previous subsurface investigations had identified three areas north of “C” Road where petroleum-related non-aqueous phase liquid (NAPL) was present in the soil (see Figures 1 and 2). These areas were identified as NAPL Areas No. 1, No. 2, and No. 3. The SMP developed for the Site required that these areas be excavated and the material either treated on site or disposed of off site at a licensed facility.

Further investigation by previous consultants/contractors delineated the presumed extent of these NAPL areas. In total, it was estimated that approximately 1,388 cubic yards of material was impacted by the NAPL and would need to be excavated. The estimated NAPL areas’ boundaries were subsequently surveyed and staked. However, the final extent of NAPL area excavation was, pursuant to Section II, Part 6.6 of the SMP, to “be established in the field based on visual evidence of NAPL” and a NYSDEC representative was “required to approve the extent of excavation.”

On separate occasions in November and December 2003, Nature’s Way advanced borings using a direct-push drill rig within the NAPL areas. Representative soil samples were collected for laboratory analysis for the purpose of pre-excavation characterization of the impacted soil for off-site disposal approval. The laboratory analytical results are included in Appendix D.

Between February 2003 and August 2004, excavation of the three NAPL areas was completed. Based on previous investigations, NAPL Area No. 1 was excavated to a depth of approximately 5 feet below grade. NAPL Areas No. 2 and No. 3 were excavated to a depth of approximately 8-12 feet below grade. Upon reaching the groundwater table (approximately 4-5 feet below grade), each excavation was continually dewatered throughout the soil removal process. At Nature’s Way’s discretion, excavated soil was either loaded directly into trucks for transportation and disposal off site or temporarily staged on site in a polyethylene-lined bermed area and covered by polyethylene sheeting. If the soil moisture content was deemed to be

excessive, then the trucks were lined with polyethylene sheeting for transport to the disposal facility.

The entire soil column delineated by previous investigations, from the existing ground surface to the final depth, was excavated and disposed of from NAPL Areas No. 1 and No. 2. While the top 4 feet of NAPL Area No. 3 was assumed to be “clean” and was stripped off and staged separately onsite, subsequent laboratory analysis of this “stripped soil” indicated exceedances of the Site SSALs (see Appendix E). As a result, this soil was also eventually disposed of offsite. Based primarily on visual and olfactory inspection, significantly more impacted soil was encountered than anticipated, particularly in NAPL Areas No. 2 and No. 3. The final extent of the NAPL areas’ excavation exceeded the previously delineated boundaries. Inspection of NAPL area soil by URS field personnel using a PID was also regularly conducted, but because of the type (primarily semi-volatile organic compounds [SVOCs]) and the highly weathered nature of contaminants the PID exhibited low readings, not truly indicative of actual SVOC concentrations. URS field personnel consulted regularly with Mr. David Locey of the NYSDEC regarding each expansion of the NAPL areas. The final extent of each excavation was determined by Mr. Locey based on the physical evidence. Confirmation soil samples from the sidewalls and floors of each NAPL area were collected to further corroborate the final excavation limits. The laboratory analytical results for these samples are included in Appendix F.

In total, approximately 3,520 tons of NAPL-impacted soil were excavated and disposed of off site at the Waste Management disposal facility in Chaffee, New York. The total volume of NAPL-impacted soil was not transported off site for disposal at one time. In the interim, Nature’s Way, under direction from ECIDA, switched disposal facilities in order to control costs. The remaining approximately 3,653 tons of NAPL-impacted soil were excavated and disposed of off site at the Ensol disposal facility in Tonawanda, New York. Disposal approvals and additional predisposal laboratory analytical results are included in Appendix G.

On May 27, 2004, during expansion of the NAPL Area No. 2 excavation to the south, a 24-inch-diameter iron pipe was uncovered approximately 4 feet below grade oriented in an east/west direction. A small hole was opened in the top of the pipe, and inspection revealed petroleum-impacted sludge and water within it. Pursuant to the NYSDEC’s request, the lateral

extent of this pipe was traced by excavating test pits along its length to the east and west of NAPL Area No. 2. The pipe extended approximately 450 feet to the west of NAPL Area No. 2 and approximately 500 feet to the east. Once the limits were defined, the pipe was then opened at regular intervals and cleaned using a sewer jet/vacuum truck. The pipe sludge was staged on site in a polyethylene-lined bermed area and covered by polyethylene sheeting pending off-site disposal. Due to its proximity to the NAPL areas, this contaminated material was considered to be from the same source and, therefore, final NAPL area disposal volumes include this material. The pipe liquid, which included the petroleum-impacted sludge/water and the wash water, was transferred to on-site Baker tanks pending on-site treatment and discharge. Visual and olfactory inspection of the soil/fill material excavated from the test pits used for the pipeline delineation and cleaning did not indicate obvious contamination. Therefore, the NYSDEC approved the use of this material to backfill the test pits.

The NAPL Area pipeline extended eastward beyond the Phase 1 project boundary onto the Phase 2 project site (see Figure 2). Due to the initiation of Phase 2 Union Ship Canal Redevelopment construction, it was not possible to complete the pipe cleaning to its eastern limit. Cleaning of the pipe was halted by the ECIDA on August 5, 2004 at approximately 300 feet east of NAPL Area No. 2 and the pipe end was plugged with sandbags. ECIDA and the NYSDEC agreed that completion of the pipe cleaning to the east would be postponed until a later, unspecified date. Pursuant to a request from ECIDA and NYSDEC, a water sample was collected at the location where cleaning was halted for laboratory analysis (see Appendix H). The test pit located approximately 300 feet east of NAPL Area No. 2 was backfilled using existing material by the Phase 2 Contractor per the ECIDA's request and marked for future reference.

2.4 Previously Undelineated Petroleum-Impacted Soil/Fill Material

During excavation for the construction and installation of utilities, previously undelineated petroleum-impacted soil/fill material was encountered in the areas described below. All material was managed in accordance with the SMP.

2.4.1 Sanitary Sewer Manhole No. 8 (MH-8)

While approaching sanitary sewer manhole No. 8 (MH-8) from the west during excavation of the sanitary sewer, unanticipated petroleum-impacted soil was encountered on November 18, 2003 to an approximate depth of 16 feet below grade from roadway station C7+60 to C8+10 (see Figure 2). Based on visual and olfactory inspection results, URS directed Destro to temporarily stage this material on site. The material was underlain and covered by polyethylene sheeting. It was obvious, due to the extent of contamination, that this material could not be reused on site; therefore, characterization sampling for Site reuse was deemed unnecessary. Nature's Way collected soil samples for laboratory analysis for predisposal characterization. The disposal facility's approval and the predisposal characterization laboratory analytical results are included in Appendix I.

In total, approximately 124 tons of MH-8 soil were excavated and disposed of off site at the Waste Management disposal facility in Chaffee, New York.

2.4.2 Sanitary Sewer Manhole No. 11 (MH-11)

On December 1, 2003, during excavation for the sanitary sewer in the vicinity of manhole No. 11 (MH-11) previously undelineated petroleum-impacted soil was encountered to an approximate depth of 12 to 14 feet below grade from roadway station B13+40 to B11+35 (see Figure 2). Based on visual and olfactory inspection, URS initially directed Destro to temporarily stage this material on site in separate piles pending characterization for possible on-site reuse, the material was underlain and covered by polyethylene sheeting. Like the MH-8 material, it was obvious (due to the extent of contamination) that this material would not be able to be reused on site and, therefore, characterization sampling for Site reuse was unnecessary. Once it became apparent that there was a significant volume of material that had to be staged, Destro was directed to construct a large polyethylene-lined bermed area where all MH-11 petroleum-impacted soil could be staged in one pile. Nature's Way collected soil samples for laboratory analysis for predisposal characterization (see Appendix J).

In total, approximately 1,728 tons of MH-11 soil were excavated and disposed of off site at the Waste Management disposal facility in Chaffee, New York. Approximately 154 tons of MH-11 soil were excavated and disposed of off site at the Ensol disposal facility in Tonawanda, New York.

2.4.3 “Duct Bank”

Also on December 1, 2003, during excavation for the sanitary sewer in the vicinity of MH-11, an east/west oriented subsurface structure was encountered and unintentionally broken open during operations. Referred to as the “duct bank” (see Figure 2), this structure was located approximately 3 to 4 feet below grade. Constructed of a concrete floor and sides with steel plates across its top, this structure measured approximately 4 feet wide by 6 feet deep and resembled a utility duct tunnel. An unknown, but significant, volume of water with a heavy petroleum sheen was contained within the duct bank, which spilled into the sanitary sewer excavation when the duct bank was broken open. This water was managed in the same manner as all water encountered during excavation and pumped into on-site Baker tanks pending treatment and/or discharge. Sludge-type material was also present within the structure. Upon notification, the NYSDEC requested that the lateral extent of the duct bank be determined, that any petroleum-impacted contents, both liquid and solid, be disposed of or treated as appropriate, and that the duct bank be thoroughly cleaned and then backfilled with clean fill. Other remnants of the duct bank were discovered in a small, naturally-formed “sink hole” approximately 600 feet to the west where it appeared that the duct bank’s roof had collapsed. The duct bank was also unearthed as far east as NAPL Area No. 2 (approximately 500 feet away) when NAPL Area No. 2 was being expanded to the south. Visual inspection indicated that the duct bank extended further west and east beyond these remnants noted above. Further inspection using test pits revealed that earthen barriers had formed in some locations to the west and east of MH-11 during the collapse of the duct bank’s roof. These barriers had effectively restricted the petroleum-impacted area to a stretch of duct bank measuring from approximately 100 feet to the west of MH-11 to approximately 120 feet to the east.

Cleaning and backfilling of the impacted sections of the duct bank was completed on March 10-17 and 25, 2004. The water within the duct bank was managed pursuant to the

procedures established for all other water encountered during Site operations. Some soil/fill material initially excavated from the top of the duct bank was considered to be reusable on site and was added to the berms, but the majority of material, based on visual and olfactory inspection, was temporarily staged on site pending off-site transportation and disposal at a licensed facility. Similar to the MH-11 “hot spot”, it was obvious, due to the extent of contamination, that this material would not be able to be reused on site; therefore, characterization sampling for Site reuse was unnecessary. Due to its proximity to the MH-11 “hot spot”, the duct bank contamination was considered to be from the same source and this material was staged with the MH-11 soil within the polyethylene-lined bermed area. Predisposal sampling characterization for the duct bank material was conducted along with the MH-11 characterization. The total volume disposed of from MH-11 includes the duct bank material.

The eastern section of the duct bank, from MH-11 eastward approximately 120 feet, was the more contaminated section. Once this section was dewatered and the solids were removed, Nature’s Way proceeded to pressure wash the walls and floor. During this process, a petroleum sheen and product was observed infiltrating through some cracks in the duct bank’s south wall. The NYSDEC requested additional excavation along the south side of the south wall (i.e., outside the duct bank) to determine the source of the sheen and product. Petroleum-impacted soil was encountered during this excavation work and subsequently removed and staged in the polyethylene-lined bermed area pending off-site transportation and disposal. Confirmatory soil samples were collected from this excavation by Nature’s Way, per NYSDEC request, and submitted for laboratory analysis (see Appendix K).

2.5 Metals-Impacted Soil/Fill Material

2.5.1 Barium “Hot Spot”

As discussed previously, the investigations had identified a localized area in the vicinity of TB-8 (survey station C7+37) with concentrations of barium in excess of Site SSALs (see Figure 2). Therefore, it was necessary to excavate this “hot spot” and dispose of the material off site at a licensed facility.

On November 17, 2003, Destro excavated the barium “hot spot”. Measuring approximately 10 feet by 10 feet by 16 feet deep, this material was staged temporarily on site in one pile underlain and covered by polyethylene sheeting.

Nature’s Way collected predisposal characterization samples for laboratory analysis. The disposal facility’s approval and predisposal characterization laboratory analytical results are included in Appendix L.

In total, approximately 84 tons of barium-impacted soil were excavated and disposed of off site at the Waste Management disposal facility in Chaffee, New York.

2.5.2 Cyanide “Hot Spot”

Additionally, the investigations had identified a localized area in the vicinity of TB-10 (survey station B14+30) with concentrations of cyanide in excess of Site SSALs (see Figure 2). Therefore, it was necessary to excavate this “hot spot” and dispose of the material off site at a licensed facility.

On March 30, 2004, Destro excavated the cyanide “hot spot”. Measuring approximately 10 feet by 10 feet by 13 feet deep, this material was staged temporarily on site in one pile underlain and covered by polyethylene sheeting.

Nature’s Way collected predisposal characterization samples for laboratory analysis. Disposal facility approvals and predisposal characterization laboratory analytical results are included in Appendix M.

In total, approximately 107 tons of cyanide-impacted soil were excavated with approximately 20 tons being disposed off site at the Waste Management disposal facility in Chaffee, New York and, approximately 87 tons being disposed off site at the Ensol disposal facility in Tonawanda, New York.

2.6 Underground Storage Tanks

2.6.1 Underground Storage Tank No. 1

On March 24, 2004, during excavation of the ROW for “B” Road, a previously unknown underground storage tank (UST) was uncovered. URS subsequently notified Mr. David Locey of the NYSDEC. Located at survey station B11+60 (see Figure 2), the tank measured 48 inches in diameter by 120 inches long, which equates to a volume of approximately 1,000 gallons. An unknown liquid was in the tank and there was significant petroleum odor. Tank liquid was collected with a clear bailer, which appeared to be predominantly water with a heavy petroleum sheen or minimal product layer (~0.25-inches thick). A small diameter (~0.5-inch) leak evident along the bottom of one end was plugged. Nature’s Way utilized their vacuum truck to remove the contents of the tank, which were transferred to an on-site Baker tank for future treatment. The tank was excavated and moved to the polyethylene-lined bermed area pending transportation and off-site disposal.

Once the tank was moved to the bermed area, Destro excavated petroleum-impacted soil at this location, presumably caused by the leaking UST. An area measuring approximately 10 feet by 18 feet by 5 feet deep was excavated and staged separately within the bermed area. Nature’s Way continued to use the vacuum truck to transfer petroleum-impacted water from the excavation to an on-site Baker tank. At the NYSDEC’s request, excavation confirmation soil samples and predisposal characterization soil samples were collected for laboratory analysis. The disposal facility’s approval and the laboratory analytical results are included in Appendix N.

In total, approximately 34 tons of soil were excavated and disposed of off site at the Waste Management disposal facility in Chaffee, New York.

2.6.2 Underground Storage Tank No. 2

On June 10, 2004, during excavation of the utility corridor along the west side of “B” Road, an unknown UST was uncovered. Located at survey station B12+30 (see Figure 2), the

tank measured 48 inches in diameter by 72 inches long, which equates to a volume between 500 and 1,000 gallons. Approximately 30 gallons of unknown liquid was in the tank. One end of the UST had been damaged when it was uncovered, but no spillage was evident. This end of the tank was propped up to prevent any fluid leakage. Destro notified Nature's Way, who was not present on site, and URS attempted unsuccessfully to contact Mr. David Locey of the NYSDEC. The UST was then secured for the night.

On June 11, 2004, Nature's Way pumped the liquid contents of the UST to a 55-gallon drum. After checking the UST with a lower explosive limit (LEL) meter for explosivity, one end of the tank was cut open for easier access. Tank sludge was removed and placed in a second 55-gallon drum, and the tank's interior was wiped down. The drums were sealed and staged on site with the UST within the polyethylene-lined bermed area pending transportation and disposal off site. Since no contamination was evident in the soil encircling the UST, no confirmatory soil samples were requested by the NYSDEC.

On September 30, 2004, the two 55-gallon drums were transported off site by Nature's Way and delivered on October 1, 2004 to Industrial Oil Tank Services, Inc. in Oriskany, New York for processing/disposal (see Appendix O).

2.7 Other Soil Management Issues

2.7.1 South Buffalo Railway Berm

Beginning September 16, 2003, during excavation of the general ROW for "D" Road, it became necessary to excavate through the railroad berm of the former South Buffalo Railway, which is located within the City of Lackawanna (see Figure 1). This soil/fill material was not suspected of being contaminated but, because it originated from the City of Lackawanna area of the Site, laboratory analysis was conducted before it was reused in the berms, which were to be located on City of Buffalo property (see Appendix P). The results confirmed that this material could be reused on site as either non-utility trench subgrade fill or in the berms. Destro reused this material as part of the above grade berm located along the southern boundary of the Site.

2.7.2 Diesel Spill

On November 6, 2003, Destro was conducting normal sanitary sewer excavation and construction operations along “C” Road. The trench was being dewatered directly to the ground to the north of “C” Road because the water’s pH was within acceptable limits in this area. Excavated soil/fill material was being transported by Destro’s trucks to the above grade berm to the east of “D” Road, along the southern property boundary. The trucks’ route along a dirt road was in close proximity to the water discharge area. Later in the day, URS field personnel noticed a heavy sheen on the pooled discharge water. Further inspection revealed that one of Destro’s truck’s fuel tanks had been punctured during transit between the excavation area and the berm, resulting in a release of diesel fuel.

URS instructed Destro to contact the NYSDEC and report the spill. This spill was assigned NYSDEC spill number 0375387. Nature’s Way applied absorbent pads on the pooled water to control some of the sheen. The following day, Ms. Francine Gallego of the NYSDEC arrived on site to investigate the diesel spill. She instructed Destro to excavate the top few inches of dirt road in specific areas, determined by her, where petroleum sheen or product was present. This material was then staged on site and underlain and covered by polyethylene sheeting pending sampling, off-site transport, and disposal.

In total, approximately 20 tons of diesel-impacted soil were transported off site and disposed of at the Waste Management disposal facility in Chaffee, New York, but this volume is not included with the final Phase 1 totals. Costs associated with the handling, sampling, and disposal of this material were the responsibility of Destro only.

As indicated on the NSYDEC website, spill number 0375387 was closed by the NYSDEC on July 29, 2004.

2.7.3 Sanitary Sewer Manhole No. 8 (MH-8) Test Pit

On July 9, 2004, at the NYSDEC's request, Nature's Way excavated two test pits (see Figure 2) in the immediate vicinity of sanitary sewer manhole No. 8 (MH-8). The purpose of these test pits was to determine if the contamination encountered and excavated in November 2003 (see Section 2.4.1) had been effectively removed. Located northeast and southeast of MH-8, each test pit measured approximately 4 feet by 15 feet by 15-16 feet deep. Soil samples were collected from each pit in Ziploc bags and allowed to warm in the sun. PID measurements of each bag's headspace for VOCs indicated no contamination.

At the NYSDEC's request, soil samples were collected for laboratory analysis (see Appendix Q) as confirmation of the visual and olfactory evidence. The test pits were subsequently backfilled with the excavated material pursuant to NYSDEC approval.

2.8 Backfill

Virgin clean fill material was delivered on site from recognized commercial suppliers to backfill all excavations to final grade. No additional testing was necessary for this material, but a certificate authenticating the fill was virgin material was required from each supplier (see Appendix R).

2.9 Groundwater Management

According to Section III, page C-3 of the SMP, "(s)hould it be necessary to dewater the excavations, the water can be discharged onto the ground unless staining or elevated PID readings are observed in the excavation, a sheen is present on the water surface or if the pH is less than 6.5 or greater than 8.5."

Elevated pH and/or sheen on the groundwater surface were prevalent conditions during the course of this project. As a result, a significant volume of groundwater was dewatered, virtually continuously during operations, from on-site excavations into Baker tanks for storage

and subsequent processing/treatment. There were very few locations where the groundwater's pH was within the originally established acceptable range for direct discharge onto the ground (e.g., the south end of "D" Road, a short middle section of "C" Road, and the west end of "A" Road).

If elevated pH was the only concern, then Nature's Way would mix muriatic acid with the groundwater stored in the Baker tank to neutralize the pH to within the originally established acceptable range. The groundwater was then discharged directly onto the ground while the effluent was monitored for pH by URS or Nature's Way field personnel. Initially, it was acceptable to discharge this treated groundwater to any on-site area away from the work zone. In an effort to control costs due to the significantly increased, and unanticipated, volume of on-site groundwater needing pH treatment, the ECIDA petitioned the NYSDEC for a more lenient pH limit. When the NYSDEC agreed and raised the acceptable pH limit to 11.0 on March 2, 2004 (see Appendix S), it then became necessary to discharge the groundwater, whether directly from the excavation or from Baker tanks, to specific pre-approved areas. Eventually, all groundwater was discharged to an infiltration trench located south of "C" Road designed and constructed in July 2004 explicitly for this purpose.

If a sheen was present on the groundwater surface during excavation then, regardless of pH, this water was pumped into Baker tanks pending treatment and/or disposal. Following pH neutralization (if necessary), the groundwater would be allowed to settle in the Baker tank so any sheen would concentrate on the water's surface. It was the accepted and approved practice to then decant the lower 90% (approximately) of the Baker tank groundwater volume directly onto the ground in approved on-site areas. The effluent was monitored for pH and sheen; discharge was halted if sheen was observed in the effluent. The remaining Baker tank groundwater volume (approximately 10%) was subsequently treated by two methods during this project: either through disposal directly to the Erie County Sewer District (ECSD) or through carbon filtration prior to on-site discharge.

A limit was established for the total volume of stored groundwater that could be discharged to the ECSD. This water was discharged directly by Nature's Way to an ECSD sewer manhole located east of "D" Road either through pumping/gravity drain directly from the Baker

tanks or via vacuum truck transfer. ECSD's disposal approvals and the predisposal characterization laboratory analytical results for this groundwater are included in Appendix T. When the approved volume of groundwater to be discharged to the ECSD was reached, then two 1,000-pound carbon filter vessels were used to treat this type of groundwater for the remainder of the project. Nature's Way would accumulate a sufficient volume of groundwater with sheen in Baker tanks before utilizing this method. Pilot tests were conducted before each use of the carbon filters where pre- and post-carbon filter water samples were collected and submitted for laboratory analysis (see Appendix U). During actual discharge operations, the effluent was monitored for sheen by URS or Nature's Way field personnel. This water was discharged to the same locations used for the decanted water mentioned previously.

3.0 LABORATORY ANALYTICAL DATA

As required by the SMP and/or requested by the NYSDEC, soil and groundwater samples were collected at various times during the course of this project and submitted for laboratory analysis. The purposes of these soil samples included characterization for possible Site reuse, predisposal characterization, and confirmation of excavation limits. Groundwater samples were collected for predisposal characterization, characterization to determine treatment options, determination of pre- and post-carbon filtration concentrations, and characterization of possible contaminants and their concentrations for future reference.

Nature's Way utilized two laboratories during the course of this project, Paradigm Environmental Services, Inc. of Rochester, New York (NYSDOH ELAP #10958) and PSC Analytical Services, Inc. of Burlington, Ontario, Canada (NYSDOH ELAP #10756). Both laboratories are accredited under the New York State Department of Health Environmental Laboratory Approval Program (NYSDOH ELAP).

3.1 NAPL Areas Excavations/Pipeline

Soil samples were collected for laboratory analysis from the NAPL areas on numerous occasions for a variety of reasons. On November 6, 2003 and again on December 12, 2003,

Nature's Way used a direct-push drill rig to collect representative soil samples from all three NAPL areas for predisposal characterization. Because the volume of material to be disposed of kept increasing during excavation, the disposal facilities required more laboratory analysis. In addition, Nature's Way switched disposal facilities during the NAPL areas' excavation, and the new disposal facility required their own laboratory analysis. As a result, additional predisposal characterization soil samples were collected from the NAPL areas on February 29, 2004, May 18, 2004, May 28, 2004, June 28, 2004, and July 16, 2004. The laboratory analytical results for predisposal characterization are included in Appendix G.

Based on the results from previous investigations, it had been assumed that the top 4 feet of NAPL Area No. 3 was "clean" and able to be reused on site. This material was stripped off during excavation operations and staged separately near the berm pending laboratory analysis. Soil samples were collected on March 3, 2004. However, the laboratory analytical results indicated exceedances of Site SSALs (see Appendix B). The NYSDEC requested additional samples and analysis as confirmation, which were collected on March 25, 2004. The laboratory analysis of these samples confirmed the Site SSAL exceedances. As a result, this stripped bermed material was included with the other NAPL areas' soil for off-site disposal.

Representative soil samples were collected from all three NAPL areas and submitted for laboratory analysis to confirm the excavation limits established by URS and NYSDEC field personnel through visual and olfactory observations. Samples were collected from all sidewalls and the floors of each NAPL area. Because NAPL Areas No. 2 and No. 3 were extended beyond their original presumed limits, additional confirmation samples were necessary. Confirmation soil samples were collected from NAPL Area No. 1 on February 16, 2004 (they were re-sampled on March 3, 2004 due to a laboratory mix-up). NAPL Area No. 2 was sampled on February 18, 2004 (and re-sampled on March 3, 2004 due to a laboratory mix-up) and July 30, 2004. Confirmation soil samples were collected from NAPL Area No. 3 on March 3, 2004, August 5, 2004, and August 9, 2004. The laboratory analytical results for excavation limits' confirmation sampling are included in Appendix F.

Samples were collected on several occasions for laboratory analysis to determine treatment options for containerized NAPL groundwater. On February 18, 23, and 24, 2004,

samples of containerized NAPL groundwater were collected from on-site Baker tanks to determine the feasibility of decanting the majority of this water directly to the ground without carbon filtration. On March 3, 2004, pursuant to a request from the NYSDEC, a groundwater sample was collected directly from NAPL Area No. 3 for the same purpose. The laboratory analytical results are included in Appendix V.

On August 5, 2004, prior to temporarily backfilling the NAPL Area pipeline test pit located approximately 300 feet east of NAPL Area No. 2, the ECIDA and NYSDEC requested a groundwater sample be collected to characterize possible contaminants and their respective concentrations. The laboratory analytical results are included in Appendix H.

3.2 Previously Undelineated Petroleum-Impacted Soil/Fill Material

3.2.1 Sanitary Sewer Manhole No. 8 (MH-8)

As stated previously, due to the extent of petroleum impact to the soil encountered during sanitary sewer excavation in the vicinity of MH-8, it was obvious that this material would not be able to be reused on site and, therefore, characterization sampling for Site reuse was unnecessary.

On December 3, 2003, representative soil samples were collected from the stockpiles excavated from the vicinity of MH-8 and submitted for laboratory analysis for predisposal characterization (see Appendix I).

3.2.2 Sanitary Sewer Manhole No. 11 (MH-11)

As previously stated, it was obvious (due to the extent of contamination encountered during sanitary sewer excavation in the vicinity of MH-11) that this material would not be able to be reused on site; therefore, characterization sampling for Site reuse was unnecessary.

On March 4, 2004, representative soil samples were collected from the stockpiles excavated from the vicinity of MH-11 and submitted for laboratory analysis for predisposal characterization. Additional predisposal characterization soil samples were collected on March 24, 2004 and April 5, 2004. The laboratory analytical results for predisposal characterization are included in Appendix J.

3.2.3 “Duct Bank”

Characterization sampling for Site reuse was also unnecessary for the excavated duct bank material. In addition, predisposal sampling characterization for the duct bank material was included with the MH-11 stockpiled material. However, the NYSDEC requested confirmation soil samples be collected from an additional excavation along the south side of the south wall (i.e., outside the duct bank). These samples were collected for laboratory analysis on March 16, 2004 and the results are included in Appendix K.

3.3 Metals-Impacted Soil/Fill Material

3.3.1 Barium “Hot Spot”

On March 22, 2004, soil samples were collected from the barium-impacted soil stockpile for laboratory analysis for predisposal characterization. The laboratory analytical results are included in Appendix L.

3.3.2 Cyanide “Hot Spot”

On March 31, 2004, soil samples were collected from the cyanide-impacted soil stockpile for laboratory analysis for predisposal characterization. The laboratory analytical results are included in Appendix M.

3.4 Underground Storage Tanks

3.4.1 Underground Storage Tank No. 1

As stated previously, once the UST was removed to the polyethylene-lined bermed area, Destro excavated petroleum-impacted soil from an area measuring approximately 10 feet by 18 feet by 5 feet deep. Pursuant to the NYSDEC's request, confirmation soil samples were collected from the excavation on March 25, 2004 for laboratory analysis. Also on March 25, 2004, soil samples were collected from the stockpiled excavated soil for laboratory analysis for predisposal characterization. The laboratory analytical results for both are included in Appendix N.

3.4.2 Underground Storage Tank No. 2

As stated previously, once the UST was removed to the polyethylene-lined bermed area, no contamination was evident in the soil encircling the tank. As a result, no confirmatory soil samples were requested by the NYSDEC.

3.5 Other Soil Management Issues

3.5.1 South Buffalo Railway Berm

As stated previously, characterization sampling of this stockpiled soil was necessary to determine possible Site reuse. Soil samples were collected for laboratory analysis on October 7, 2003 and the results are included in Appendix P.

3.5.2 Sanitary Sewer Manhole No. 8 (MH-8) Test Pit

During test pit excavation on July 9, 2004, the NYSDEC requested the collection of soil samples to confirm the visual and olfactory evidence indicating no contamination prior to backfilling. The laboratory analytical results are included in Appendix Q.

3.6 Miscellaneous Groundwater

At various times during the course of this project, it was necessary to treat groundwater stored in on-site Baker tanks which was impacted by a petroleum sheen. Two methods were used for this purpose: direct disposal to the ECSD and carbon filtration.

Predisposal characterization groundwater samples were collected on December 3, 2003 from on-site Baker tanks and submitted for laboratory analysis prior to discharge to the ECSD (see Appendix R).

Prior to utilizing carbon filtration, Nature's Way was required to collect groundwater samples from the influent and effluent of the carbon filters to verify that the effluent concentrations were within acceptable limits. Pre- and post-carbon filter groundwater samples were collected on November 10, 25, and 26, 2003, December 30, 2003, and February 26, 2004. The laboratory analytical results are included in Appendix U.

On several occasions, NAPL areas groundwater was collected for laboratory analysis to determine if it was feasible to decant it directly to the ground without prior treatment. These groundwater samples were collected on February 18, 23, and 24, 2004, and March 3, 2004. The laboratory analytical results are included in Appendix V.

4.0 REFERENCES

URS Corporation, 2003. Erie County Industrial Development Agency Buffalo's Union Ship Canal Phase 1 Soils Management Plan, Volume 3 of 3. May.

TABLES

TABLE 1

**BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE 1
SITE SPECIFIC ACTION LEVELS**

| Parameter | Highest Value At Parcel 2 | | Soil Cleanup Guidelines | Eastern U.S. Background Range | Site Specific Action Levels |
|--------------------------------|---------------------------|--------------|-------------------------|-------------------------------|-----------------------------|
| | Surface Soil | Subsurf Soil | | | |
| Total VOCs (ppm) | | | | | |
| Total VOCs | 0.278 (3) | 0.777 (5) | NA | | 10 |
| SVOC (ppm) | | | | | |
| Total SVOCs | 2,772 | 63.92 | 500 | | 500 |
| Pesticides/PCBs (ppm) | | | | | |
| Total Pesticides | No Data | No Data | | | 10 |
| Total PCBs (surface to 1 ft) | 0.443 | | 1 | | 1 |
| Total PCBs (greater than 1 ft) | | 0.031 | 10 | | 10 |
| Metals (ppm) | | | | | |
| Aluminum | 33500 | 66500 | SB | 33000 | |
| Antimony | 51.5 | 48.2 | SB | NA | |
| Arsenic | 29.3 | 59.8 | 7.5 or SB | | 50 |
| Barium | 381 | 722 | 300 or SB | | 500 |
| Beryllium | 6.7 | 12.5 | 0.16 or SB | 0-1.75 | |
| Cadmium | 10.8 | 7.5 | (10) | | 20 |
| Calcium | 205000 | 266000 | SB | 130-35000 | |
| Chromium | 416 | 88.8 | (50) | | 200 |
| Cobalt | 10.2 | 9.9 | 30 or SB | 2.5-60 | |
| Copper | 4310 | 1530 | 25 or SB | 1-50 | |
| Iron | 163000 | 189000 | 2000 or SB | 2000-550000 | |
| Lead | 1480 | 1890 | (1000) | | 1000 |
| Magnesium | 44100 | 37500 | SB | 100-5000 | |
| Manganese | 6670 | 4560 | SB | 50-5000 | |
| Mercury | 4.4 | 0.54 | 0.1 | | 1 |
| Nickel | 56.6 | 21.5 | 13 or SB | 0.5-25 | |
| Potassium | 3380 | 5280 | SB | 8500-43000 | |
| Selenium | 12.4 | 41.9 | 2 or SB | | 50 |
| Silver | 5.3 | 2.7 | SB | | 1000 |
| Sodium | 1300 | 1400 | SB | 6000-8000 | |
| Thallium | 10.9 | 12.2 | SB | NA | |
| Vanadium | 67.5 | 98.5 | 150 or SB | 1-300 | |
| Zinc | 1460 | 982 | 20 or SB | 9-50 | |
| Cyanide | 1.5 | 32.3 | NA | NA | 50 |

NOTES:

Bold - Site-specific action levles (SSALs)

NC - No Criteria Established

NA - Not Available

NO - Naturally occurring compound.

SB - Site Background

Soil cleanup guidelines and Eastern U.S. background ranges were obtained from NYSDEC TAGM #4046 (1/24/94). Value in parentheses are NYSDEC revised values for non-residential sites but have not yet been incorporated into TAGM #4046.

TABLE 2
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE I
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS

| Location ID | | | MPI (1999) | | | | MPI (2000) Debris Piles | | | |
|-----------------------------|-------|------|------------|-----------|------------|------------|-------------------------|------------|------------|------------|
| Sample ID | | | Comp SB-4 | Comp SB-5 | Comp SB-11 | Comp SB-35 | Grab SS-11 | Grab SS-14 | Grab SS-15 | Grab SS-18 |
| Matrix | | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Depth Interval (ft) | | | - | - | - | - | - | - | - | - |
| Date Sampled | | | 1/25/99 | 1/25/99 | 1/28/99 | 1/28/99 | 2/23/00 | 2/24/00 | 2/24/00 | 2/24/00 |
| Parameter | Units | SSAL | | | | | | | | |
| Total VOCs | ppm | 10 | NA | NA | NA | NA | 0.021 | 0.002 | 0.005 | 0.005 |
| Total SVOCs | ppm | 500 | 5.186 | 6.820 | 1.788 | 12.810 | 1.133 | 6.230 | 17.156 | 5.392 |
| Total Pesticides | | 10 | NA | NA | NA | NA | - | 0.005 | 0.011 | - |
| Total PCBs (surface to 1ft) | | 1 | NA | NA | NA | NA | - | - | - | - |
| Total PCBs (>1ft) | | 10 | NA | NA | NA | NA | - | - | - | - |
| Metals | | | | | | | | | | |
| Aluminum | ppm | | 30,400 | 22,700 | 21,300 | 24,000 | 4,010 | 7,670 | 7,300 | 6,600 |
| Antimony | ppm | | - | - | 7.65 | 9.02 | - | - | - | - |
| Arsenic | ppm | 50 | - | - | - | - | 6.3 | - | 3.7 | 3.0 |
| Barium | ppm | 500 | 350 | 247 | 222 | 204 | 40.2 | 71.3 | 80.3 | 87.8 |
| Beryllium | ppm | | 7.45 | 5.21 | 5.29 | 4.12 | - | - | 0.73 | 0.92 |
| Cadmium | ppm | 20 | - | 6.7 | - | 0.707 | - | 1.4 | 1.9 | 1.5 |
| Calcium | ppm | | 163,000 | 118,000 | 154,000 | 125,000 | 52,900 | 65,100 | 62,100 | 52,100 |
| Chromium | ppm | 200 | 12.2 | 127 | 24.5 | 20.7 | 8.2 | 13.2 | 13.3 | 17.6 |
| Cobalt | ppm | | 1.89 | 5.55 | 5.88 | 5.15 | - | 6.7 | 4.5 | 5.2 |
| Copper | ppm | | 27.7 | 40.9 | 49.7 | 51.2 | 11.0 | 14.7 | 39.0 | 49.1 |
| Iron | ppm | | 13,700 | 79,300 | 80,800 | 77,000 | 7,910 | 14,300 | 13,700 | 13,300 |
| Lead | ppm | 1000 | 33.9 | 185 | 1,120 | 177 | 15.2 | 22.4 | 188 | 117 |
| Magnesium | ppm | | 38,200 | 23,500 | 20,900 | 12,500 | 17,700 | 19,200 | 9,470 | 11,500 |
| Manganese | ppm | | 2,320 | 3,530 | 2,670 | 2,690 | 230 | 422 | 510 | 610 |
| Mercury | ppm | 1 | - | - | - | - | - | 0.12 | 0.30 | 0.48 |
| Nickel | ppm | | 14.2 | 34.1 | 24.8 | 25 | 7.7 | 15.6 | 13.5 | 18.1 |
| Potassium | ppm | | 2,010 | 1,570 | 1,560 | 1,490 | 1,100 | 1,870 | 1,470 | 1,270 |
| Selenium | ppm | 50 | - | - | - | - | 33.1 | 33.2 | 21.4 | 24.0 |
| Silver | ppm | 1000 | 1,170 | 1,020 | 662 | 531 | - | - | - | - |
| Sodium | ppm | | 6.26 | 30.1 | 14.8 | 19.6 | - | 230 | - | - |
| Thallium | ppm | | - | - | - | - | - | - | 2.7 | - |
| Vanadium | ppm | | 75.8 | 322 | 331 | 393 | 16.4 | 15.9 | 13.4 | 13.3 |
| Zinc | ppm | | 76 | 320 | 330 | 390 | 63.8 | 66.5 | 192 | 108 |
| Cyanide | ppm | 50 | 2.17 | 11.4 | 21.2 | 10.1 | - | - | - | - |

█ : Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 2
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS

| Location ID | | | OB&G Samples | | | | | |
|-----------------------------|-------|------|--------------|--------|--------|---------|---------|---------|
| Sample ID | | | SB-02 | SB-05 | SB-08 | SB-09 | SB-10 | SB-11 |
| Matrix | | | Soil | Soil | Soil | Soil | Soil | Soil |
| Depth Interval (ft) | | | 0-0.5' | 0-0.5' | 0-0.5' | 0-0.5' | 0-0.5' | 0-0.5' |
| Date Sampled | | | 8/10/01 | 8/9/01 | 8/2/01 | 7/31/01 | 7/31/01 | 7/31/01 |
| Parameter | Units | SSAL | | | | | | |
| Total VOCs | ppm | 10 | NA | NA | NA | 0.278 | NA | NA |
| Total SVOCs | ppm | 500 | 11.056 | 0.9 | 1.778 | 42.29 | 26.74 | 2.4 |
| Total Pesticides | | 10 | NA | NA | NA | NA | NA | NA |
| Total PCBs (surface to 1ft) | | 1 | NA | NA | NA | NA | NA | NA |
| Total PCBs (>1ft) | | 10 | NA | NA | NA | NA | NA | NA |
| Metals | | | | | | | | |
| Aluminum | ppm | | 8,260 | 2,010 | 3,320 | 31,600 | 12,000 | 2,030 |
| Antimony | ppm | | 1.11 | 10.6 | 12.5 | 6.2 | 30.2 | 10.8 |
| Arsenic | ppm | 50 | 9.0 | 1.8 | 1.3 | 18.3 | 14.7 | 1.8 |
| Barium | ppm | 500 | 87.9 | 26.1 | 28.9 | 284 | 145 | 20.9 |
| Beryllium | ppm | | 1.1 | 0.077 | 0.20 | 6.7 | 1.9 | 0.16 |
| Cadmium | ppm | 20 | 0.46 | 0.14 | 0.35 | 2.1 | 6.6 | 0.38 |
| Calcium | ppm | | 47,600 | 1,130 | 5,330 | 185,000 | 47,900 | 7,110 |
| Chromium | ppm | 200 | 20.8 | 6.8 | 10.6 | 18.2 | 27.1 | 9.5 |
| Cobalt | ppm | | 2.4 | 0.52 | 1.9 | 4.2 | 6.9 | 1.1 |
| Copper | ppm | | 64.5 | 5.1 | 23.1 | 96.6 | 150 | 16.4 |
| Iron | ppm | | 28,800 | 1,800 | 12,000 | 28,700 | 94,600 | 10,500 |
| Lead | ppm | 1000 | 190 | 21.8 | 41.5 | 169 | 408 | 49.4 |
| Magnesium | ppm | | 9,230 | 647 | 2,410 | 30,200 | 5,630 | 906 |
| Manganese | ppm | | 1,180 | 33.5 | 189 | 2530 | 3860 | 148 |
| Mercury | ppm | 1 | 0.29 | 0.099 | 0.070 | 0.47 | 3.1 | 0.072 |
| Nickel | ppm | | 13.1 | 2.1 | 8.6 | 8.2 | 19.0 | 2.2 |
| Potassium | ppm | | 2,320 | 1,700 | 1,180 | 2,110 | 1,910 | 333 |
| Selenium | ppm | 50 | 1.1 | 0.89 | 1.0 | 2.4 | 0.98 | 0.90 |
| Silver | ppm | 1000 | 2.1 | 1.8 | 2.1 | 2.1 | 2.0 | 1.8 |
| Sodium | ppm | | 543 | 134 | 161 | 914 | 432 | 359 |
| Thallium | ppm | | 2.1 | 1.8 | 1.6 | 2.1 | 1.5 | 1.5 |
| Vanadium | ppm | | 17.4 | 3.3 | 1.1 | 10.6 | 9.8 | 0.30 |
| Zinc | ppm | | 304 | 96.8 | 88.0 | 196 | 1340 | 67.3 |
| Cyanide | ppm | 50 | - | - | - | - | - | - |

█ : Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 3
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS

| Location ID | | | MPI | | | | OB&G | | | |
|-----------------------------|-------|------|-----------|-----------|------------|------------|----------|--------|--------|---------|
| Sample ID | | | Comp SB-4 | Comp SB-5 | Comp SB-11 | Comp SB-35 | SB-02 | SB-05 | SB-08 | SB-09 |
| Matrix | | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Depth Interval (ft) | | | - | - | - | - | 6-8' | 4-6' | 4-6' | 6-8' |
| Date Sampled | | | 1/25/99 | 1/25/99 | 1/28/99 | 1/28/99 | 10/10/01 | 8/9/01 | 8/2/01 | 7/31/01 |
| Parameter | Units | SSAL | | | | | | | | |
| Total VOCs | ppm | 10 | NA | NA | NA | NA | NA | NA | NA | 0.084 |
| Total SVOCs | ppm | 500 | 1.639 | 0.199 | - | - | NA | NA | 1.936 | 1.59 |
| Total Pesticides | | 10 | NA | NA | NA | NA | NA | NA | NA | NA |
| Total PCBs (surface to 1ft) | | 1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Total PCBs (>1ft) | | 10 | NA | NA | NA | NA | NA | NA | NA | NA |
| Metals | | | | | | | | | | |
| Aluminum | ppm | | 28,800 | 27,600 | 43,200 | 43,100 | 13,500 | 5,120 | 10,200 | 38,200 |
| Antimony | ppm | | - | - | 10.3 | - | 23.0 | 0.96 | 24.7 | 20.2 |
| Arsenic | ppm | 50 | - | - | - | - | 11.0 | 3.8 | 7.5 | 15.4 |
| Barium | ppm | 500 | 289 | 274 | 389 | 264 | 97.3 | 64.1 | 133 | 348 |
| Beryllium | ppm | | 4.91 | 4.63 | 7.6 | 6.17 | 2.5 | 0.75 | 1.1 | 7.4 |
| Cadmium | ppm | 20 | - | - | - | - | 1.9 | 0.53 | 3.2 | 0.56 |
| Calcium | ppm | | 154,000 | 156,000 | 255,000 | 193,000 | 83,700 | 22,700 | 53,100 | 220,000 |
| Chromium | ppm | 200 | 4.36 | 14.4 | 20.2 | 4.7 | 11.1 | 8.0 | 32.2 | 10.2 |
| Cobalt | ppm | | 3.08 | 3.34 | 4.93 | 4.56 | 5.1 | 0.80 | 9.0 | 3.0 |
| Copper | ppm | | 10.7 | 26.5 | 13.8 | 8.49 | 26.2 | 31.2 | 73.4 | 8.4 |
| Iron | ppm | | 20,600 | 32,800 | 25,400 | 29,900 | 16,500 | 9,580 | 80,500 | 11,600 |
| Lead | ppm | 1000 | 9.78 | 62.7 | 24.4 | 15.3 | 25.1 | 102 | 200 | 12.8 |
| Magnesium | ppm | | 12,600 | 13,400 | 26,800 | 14,000 | 7,620 | 3,690 | 12,000 | 15,900 |
| Manganese | ppm | | 2,030 | 2,440 | 5,150 | 2,480 | 670 | 428 | 2,350 | 3,600 |
| Mercury | ppm | 1 | - | - | - | - | 0.083 | 0.19 | 0.072 | 0.19 |
| Nickel | ppm | | 8.71 | 17.8 | 23.8 | 13.7 | 12.9 | 4.5 | 15.1 | 13.4 |
| Potassium | ppm | | 1,140 | 1,830 | 2,970 | 1,420 | 1,390 | 1,260 | 1,340 | 3,090 |
| Selenium | ppm | 50 | - | - | - | - | 41.9 | 1.1 | 1.0 | 3.0 |
| Silver | ppm | 1000 | - | - | - | - | 3.8 | 2.2 | 1.1 | 2.3 |
| Sodium | ppm | | 521 | 562 | 746 | 443 | 206 | 196 | 376 | 897 |
| Thallium | ppm | | - | - | - | - | 3.8 | 2.2 | 3.8 | 3.4 |
| Vanadium | ppm | | 11.2 | 17 | 24.8 | 19.3 | 18.1 | 8.7 | 10.5 | 6.4 |
| Zinc | ppm | | 40.2 | 182 | 37 | 475 | 87.5 | 559 | 415 | 33.6 |
| Cyanide | ppm | 50 | 17.4 | 20.1 | 32.7 | 20.9 | 7.7 | 7.8 | 14.0 | 1.5 |

█ : Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 3
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE 1
SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS

| Location ID | | | OB&G | | URS | | | | | |
|-----------------------------|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sample ID | | | SB-10 | SB-11 | TB-5 | TB-6 | TB-7 | TB-8 | TB-9 | TB-10 |
| Matrix | | | Soil |
| Depth Interval (ft) | | | 0.5-2' | 4-6' | 2-4' | 2-4' | 8-10' | 6-8' | 4-6' | 6-8' |
| Date Sampled | | | 7/31/01 | 7/31/01 | 2/20/03 | 2/21/03 | 2/24/03 | 2/24/03 | 2/25/03 | 2/25/03 |
| Parameter | Units | SSAL | | | | | | | | |
| Total VOCs | ppm | 10 | NA | NA | - | 0.002 | 0.006 | 0.006 | - | - |
| Total SVOCs | ppm | 500 | 5.546 | NA | 2.236 | 2.500 | 0.110 | 0.110 | - | - |
| Total Pesticides | | 10 | NA | NA | - | - | - | - | - | - |
| Total PCBs (surface to 1ft) | | 1 | NA | NA | - | - | - | - | - | - |
| Total PCBs (>1ft) | | 10 | NA | NA | - | - | - | - | - | - |
| Metals | | | | | | | | | | |
| Aluminum | ppm | | 10,300 | 13,400 | 5,690 | 27,400 | 34,700 | 43,000 | 24,000 | 45,500 |
| Antimony | ppm | | 40.4 | 16.1 | 0.62 | 0.62 | 0.86 | 0.68 | 0.89 | 1.1 |
| Arsenic | ppm | 50 | 10.3 | 6.6 | 0.55 | 0.54 | 0.76 | 0.59 | 0.79 | 0.94 |
| Barium | ppm | 500 | 200 | 77.6 | 64.3 | 207 | 291 | 652 | 233 | 467 |
| Beryllium | ppm | | 1.7 | 2.2 | 0.60 | 4.1 | 6.3 | 7.5 | 3.9 | 7.2 |
| Cadmium | ppm | 20 | 4.5 | 0.40 | 0.050 | 0.049 | 0.069 | 0.054 | 0.071 | 0.085 |
| Calcium | ppm | | 36,900 | 55,600 | 8,980 | 119,000 | 229,000 | 259,000 | 172,000 | 309,000 |
| Chromium | ppm | 200 | 24.2 | 6.3 | 12.0 | 21.7 | 5.1 | 11.7 | 2.7 | 6.3 |
| Cobalt | ppm | | 7.4 | 2.9 | 5.2 | 5.3 | 2.3 | 3.0 | 1.4 | 2.7 |
| Copper | ppm | | 88.7 | 8.7 | 9.7 | 18.9 | 0.48 | 0.38 | 0.50 | 0.60 |
| Iron | ppm | | 129,000 | 21,800 | 24,600 | 102,000 | 2,230 | 8,310 | 2,300 | 3,310 |
| Lead | ppm | 1000 | 146 | 10.5 | 0.32 | 9.4 | 0.45 | 0.35 | 0.46 | 0.55 |
| Magnesium | ppm | | 3,320 | 6,060 | 636 | 7,960 | 13,500 | 19,900 | 9,360 | 16,100 |
| Manganese | ppm | | 2,900 | 809 | 222 | 2,790 | 2,390 | 4,370 | 1,250 | 3,230 |
| Mercury | ppm | 1 | 0.44 | 0.13 | 0.08 | 0.18 | 0.11 | 0.09 | 0.12 | 0.14 |
| Nickel | ppm | | 10.0 | 10.7 | 0.25 | 0.25 | 0.34 | 0.27 | 0.36 | 0.43 |
| Potassium | ppm | | 1,160 | 1,080 | 412 | 2,440 | 1,860 | 3,510 | 1,170 | 2,260 |
| Selenium | ppm | 50 | 0.97 | 1.3 | 0.62 | 0.62 | 0.86 | 0.68 | 0.89 | 1.1 |
| Silver | ppm | 1000 | 1.9 | 2.7 | 0.45 | 0.44 | 5.4 | 4.5 | 3.1 | 5.7 |
| Sodium | ppm | | 273 | 203 | 437 | 570 | 972 | 585 | 507 | 1,880 |
| Thallium | ppm | | 9.0 | 2.7 | 0.80 | 0.79 | 1.1 | 0.86 | 1.1 | 1.4 |
| Vanadium | ppm | | 9.7 | 13.4 | 19.1 | 28.3 | 8.4 | 26.1 | 6.1 | 9.4 |
| Zinc | ppm | | 982 | 90.1 | 25.9 | 300 | 0.17 | 0.14 | 0.18 | 0.21 |
| Cyanide | ppm | 50 | 0.90 | 0.96 | 0.20 | 2.72 | 0.95 | 1.27 | 11.6 | 101 |

█ : Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 4
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SB-8 SUPPLEMENTAL SAMPLING
SUMMARY OF BARIUM RESULTS

| Location ID | | | SB-8 | | | | | | | |
|---------------------|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sample ID | | | 30N | 10N | 20SE | 40SE | 30W | 10W | 10E | 30E |
| Matrix | | | Soil |
| Depth Interval (ft) | | | 0-4' | 0-4' | 0-4' | 0-4' | 0-16' | 0-16' | 0-16' | 0-16' |
| Date Sampled | | | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 |
| Parameter | Units | SSAL | | | | | | | | |
| Metals | | | | | | | | | | |
| Barium | ppm | 500 | 102 | 63.6 | 175 | 233 | 252 | 317 | 174 | 217 |

: Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 4
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SB-8 SUPPLEMENTAL SAMPLING
SUMMARY OF BARIUM RESULTS

| Location ID | | | SB-8 | | | | | | | |
|---------------------|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sample ID | | | 40SW | 30S | 20SW | 10S | 20NE | 40NE | 40NW | 20NW |
| Matrix | | | Soil |
| Depth Interval (ft) | | | 0-10' | 0-4' | 0-4' | 0-4' | 0-4' | 0-4' | 0-4' | |
| Date Sampled | | | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 | 8/14/03 |
| Parameter | Units | SSAL | | | | | | | | |
| Metals | | | | | | | | | | |
| Barium | ppm | 500 | 317 | 164 | 186 | 113 | 115 | 158 | 112 | 51.9 |

: Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 5
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SB-10 SUPPLEMENTAL SAMPLING
SUMMARY OF CYANIDE RESULTS

| Location ID | | | SB-10 | | | | | | | |
|---------------------|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sample ID | | | 30N | 10N | 10S | 30S | 30W | 10W | 40NW | 20NW |
| Matrix | | | Soil |
| Depth Interval (ft) | | | 0-4' | 0-4' | 0-10' | 0-6' | 0-10' | 0-10' | 0-12' | 0-4' |
| Date Sampled | | | 8/12/03 | 8/12/03 | 8/12/03 | 8/12/03 | 8/12/03 | 8/12/03 | 8/13/03 | 8/13/03 |
| Parameter | Units | SSAL | | | | | | | | |
| Metals | | | | | | | | | | |
| Cyanide | ppm | 50 | 2.81 | 0.526 | 6.74 | 22.8 | 6.77 | 2.62 | 8.79 | 1.08 |

 : Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

TABLE 5
BUFFALO'S UNION SHIP CANAL REDEVELOPMENT - PHASE1
SB-10 SUPPLEMENTAL SAMPLING
SUMMARY OF CYANIDE RESULTS

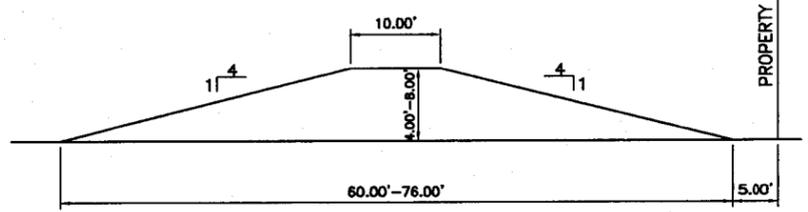
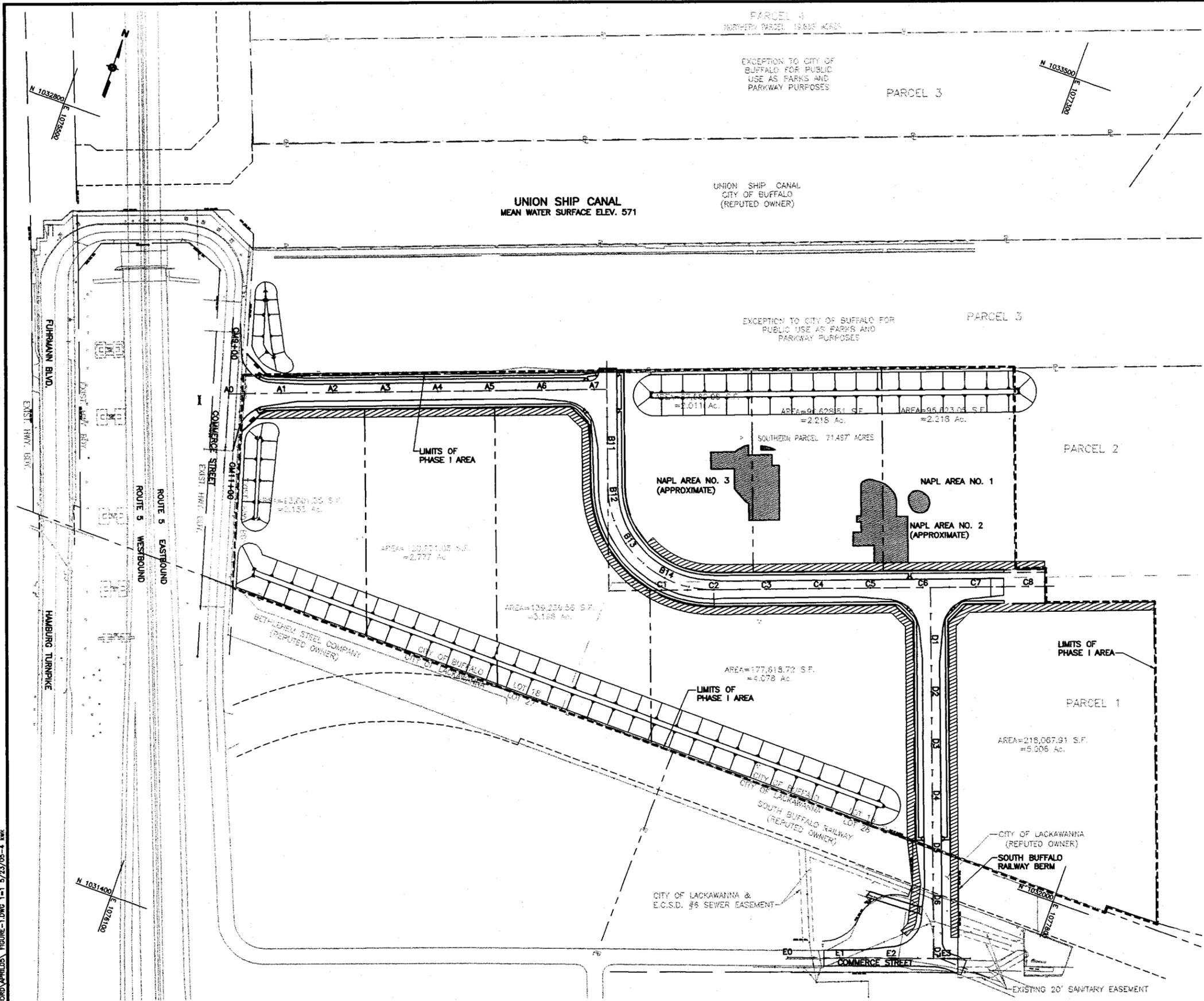
| Location ID | | | SB-10 | | | | | | | |
|---------------------|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sample ID | | | 20SE | 40SE | 10E | 30E | 40SW | 20SW | 20NE | 40NE |
| Matrix | | | Soil |
| Depth Interval (ft) | | | 0-4' | 0-6' | 0-4' | 0-4' | 0-6' | 0-4' | 0-4' | 0-4' |
| Date Sampled | | | 8/13/03 | 8/13/03 | 8/13/03 | 8/13/03 | 8/13/03 | 8/13/03 | 8/13/03 | 8/13/03 |
| Parameter | Units | SSAL | | | | | | | | |
| Metals | | | | | | | | | | |
| Cyanide | ppm | 50 | 6.60 | 0.683 | 0.840 | 2.90 | 20.5 | 14.5 | 1.01 | 2.71 |

: Value exceeds SSAL criteria

NA : NOT ANALYZED

- : NOT DETECTED

FIGURES



EXCAVATED MATERIAL BERM DETAIL

10' 0 10'

SCALE: 1" = 10'

- LEGEND
- NAPL AREA
 - UTILITY CORRIDOR
 - EXISTING PARCEL LIMIT
 - FUTURE PARCEL LIMIT
 - EXCAVATED MATERIAL EARTHEN BERM (APPROXIMATE)
 - AS ROADWAY STATION POINT

100' 0 100'

SCALE: 1" = 100'

WARNING
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| NO. | MADE BY | APPROVED BY | DATE | DESCRIPTION |
|-----------|---------|-------------|------|-------------|
| REVISIONS | | | | |

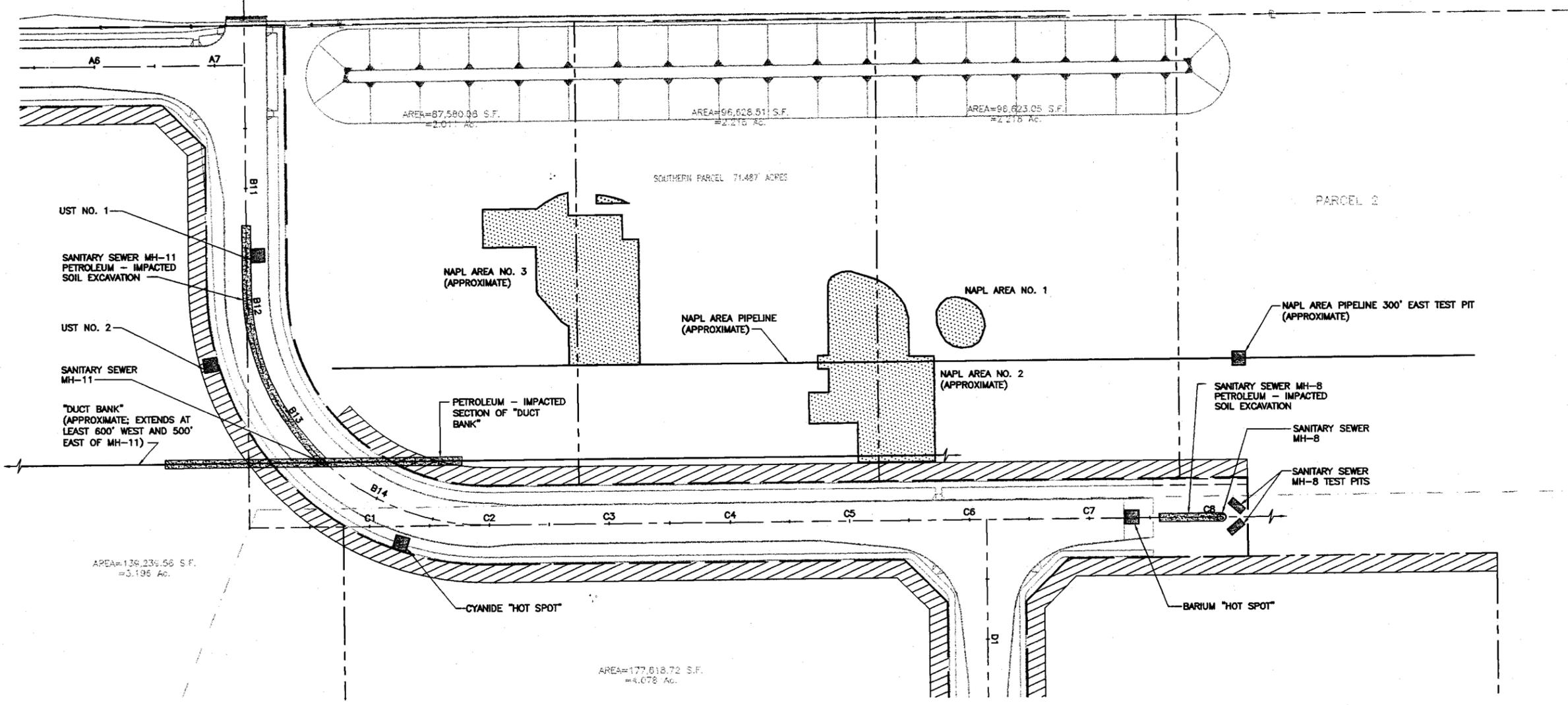
DESIGNED



EXCEPTION TO CITY OF BUFFALO FOR
PUBLIC USE AS PARKS AND
PARKWAY PURPOSES

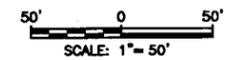
PARCEL 3

PARCEL 2



LEGEND

-  ACTUAL LIMITS OF NAPL IMPACTED SOIL REMOVAL
-  UTILITY CORRIDOR
-  EXISTING PARCEL LIMIT
-  FUTURE PARCEL LIMIT
-  EXCAVATED MATERIAL EARTHEN BERM (APPROXIMATE)



A5 ROADWAY STATION POINT

HA1172803.00000 CAD/RECORD/APP/FILES/FIGURE-2.DWG 1-1 5/23/05-5 KWK

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| NO. | MADE BY | APPROVED BY | DATE | DESCRIPTION |
|-----------|---------|-------------|------|-------------|
| REVISIONS | | | | |

DESIGNED BY: **ELB**
 DRAWN BY: **PAL**
 CHECKED BY: **BJS**
 PROJ. ENGR. **MJA**

URS Corporation
 Group Consultants
 640 Ellicott Street, Buffalo, New York 14203
 (716)856-3636 - (716)856-2545 fax

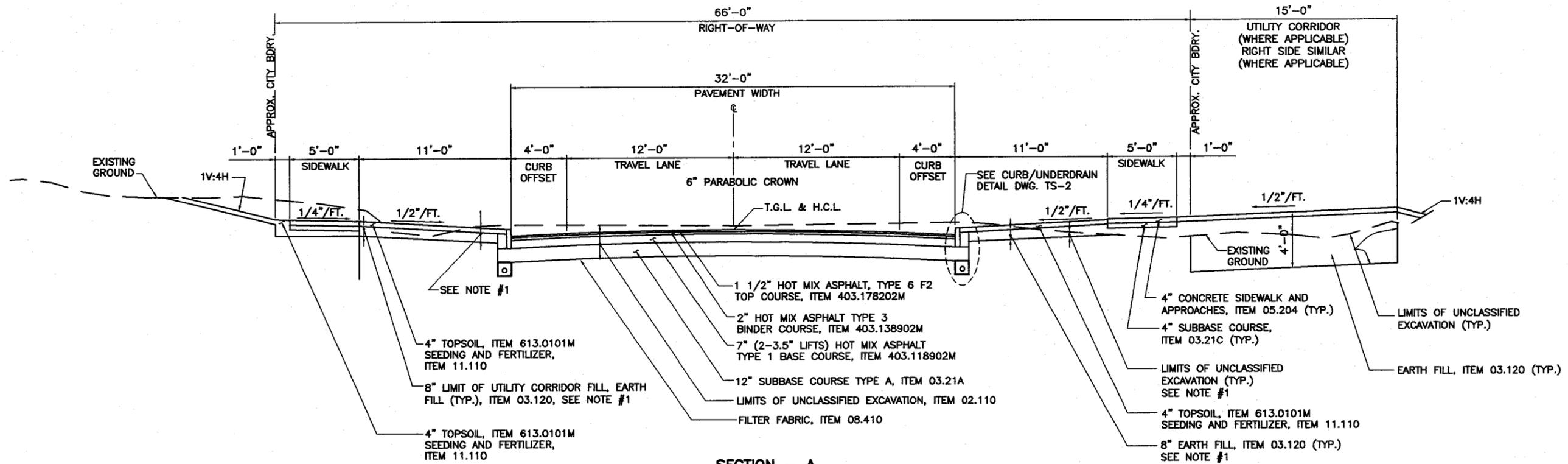
JOB No. 11172803.00000

ECIDA

ERIE COUNTY
 UNION SHIP CANAL
 PHASE 1
 BUFFALO NEW YORK

UNIQUE SOILS
 MANAGEMENT AREAS

Scale: AS SHOWN Date: APRIL 2005 **FIGURE 2**



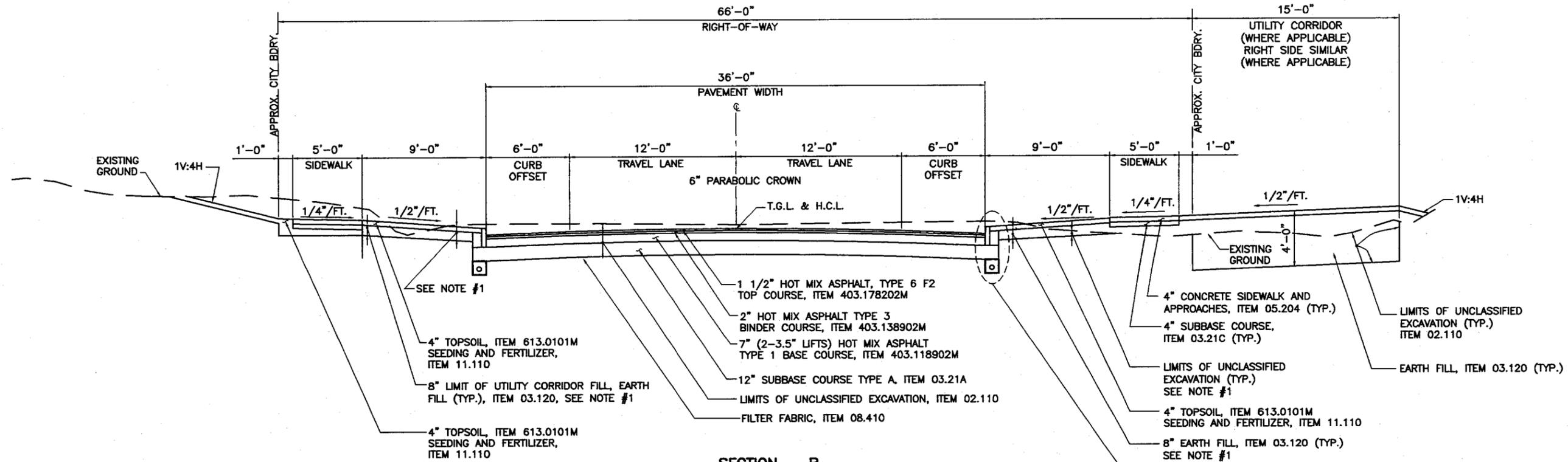
SECTION - A

0' 2' 4' 6' 8'

SCALE: 1/4" = 1'-0"

NOTES:

1. REQUIREMENTS FOR 8 INCHES OF EARTH FILL APPLY TO UNION SHIP CANAL SITE ONLY AND DO NOT APPLY TO ROADWAY CONSTRUCTED WITHIN THE CITY OF LACKAWANNA.



SECTION - B

0' 2' 4' 6' 8'

SCALE: 1/4" = 1'-0"

N:\1172803\00000\CA\RECORD\APRIL05\Figure-3.DWG 1=1 4/23/05-2 RJK

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| NO. | MADE BY | APPROVED BY | DATE | DESCRIPTION |
|-----------|---------|-------------|------|-------------|
| REVISIONS | | | | |

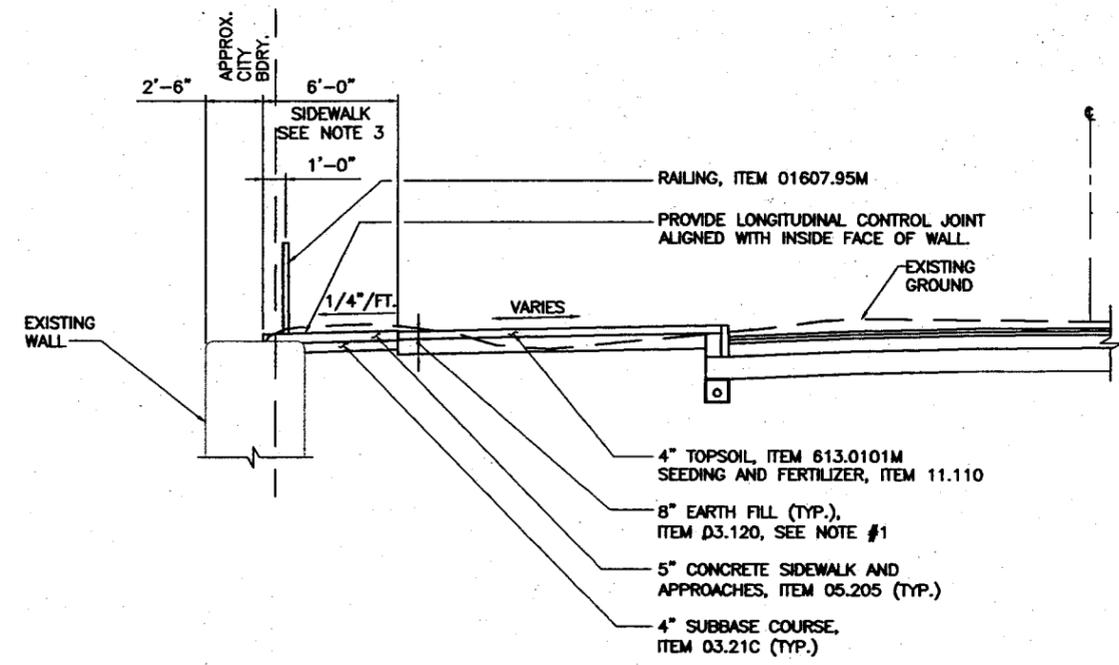
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DRAWN BY: ELB
CHECKED BY: MJA
PROJ. ENGR. MJA

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Group Consultants
640 Ellicott Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax
JOB No. 11172803.00000

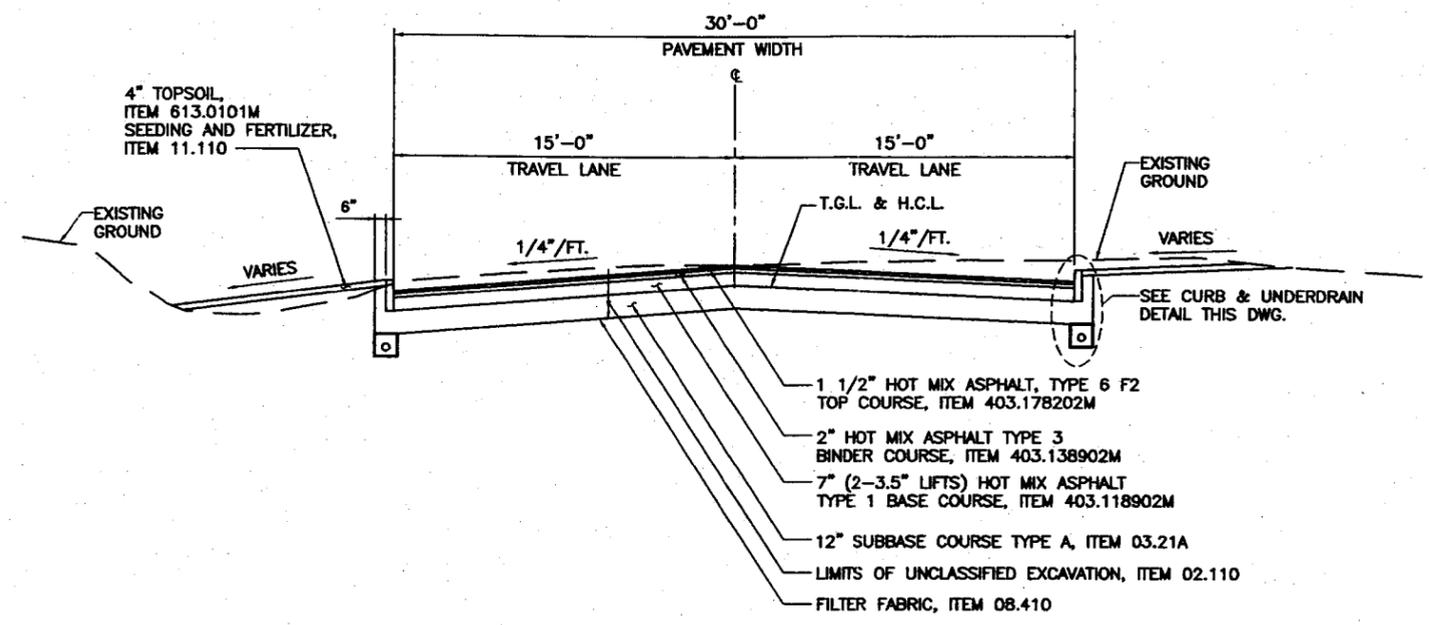


ERIE COUNTY
UNION SHIP CANAL
PHASE 1
BUFFALO NEW YORK

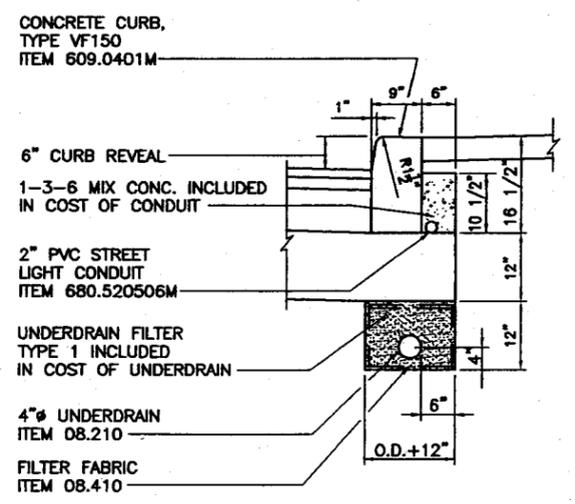
TYPICAL SECTIONS
(1 OF 2)
Scale: AS SHOWN Date: APRIL 2005
FIGURE 3



SECTION - C
 SCALE: 1/4" = 1'-0"



SECTION - D
 SCALE: 1/4" = 1'-0"



CURB & UNDERDRAIN DETAIL
 SCALE: 3/4" = 1'-0"

| TABLE OF SECTIONS | | | |
|-------------------|-------------|--------------------|--|
| BEGIN STATION | END STATION | APPLICABLE SECTION | REMARKS |
| A0+14 | A7+24.74 | A | SECTION C APPLIES TO LEFT SIDEWALK |
| B9+60 | B9+97 | A | |
| B9+97 | B14+97.67 | B | |
| C2+00 | C7+53.44 | A | |
| D0+00 | D7+11.68 | A | SIDEWALKS ARE NOT APPLICABLE SOUTH OF STA. D 4+85, LEFT AND RIGHT SIDE |
| E0+70 | E2+91 | D | |
| F1+00 | F1+60 | D | |

NOTES:
 1. REQUIREMENTS FOR 8 INCHES OF EARTH FILL APPLY TO UNION SHIP CANAL SITE ONLY AND DO NOT APPLY TO ROADWAY CONSTRUCTED WITHIN THE CITY OF LACKAWANNA.

N:\1172803\0000\CAD\RECORD\APRIL05\Figure-4.dwg 1-1 4/5/05-1 RAL

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| NO. | MADE BY | APPROVED BY | DATE | DESCRIPTION |
|-----------|---------|-------------|------|-------------|
| REVISIONS | | | | |

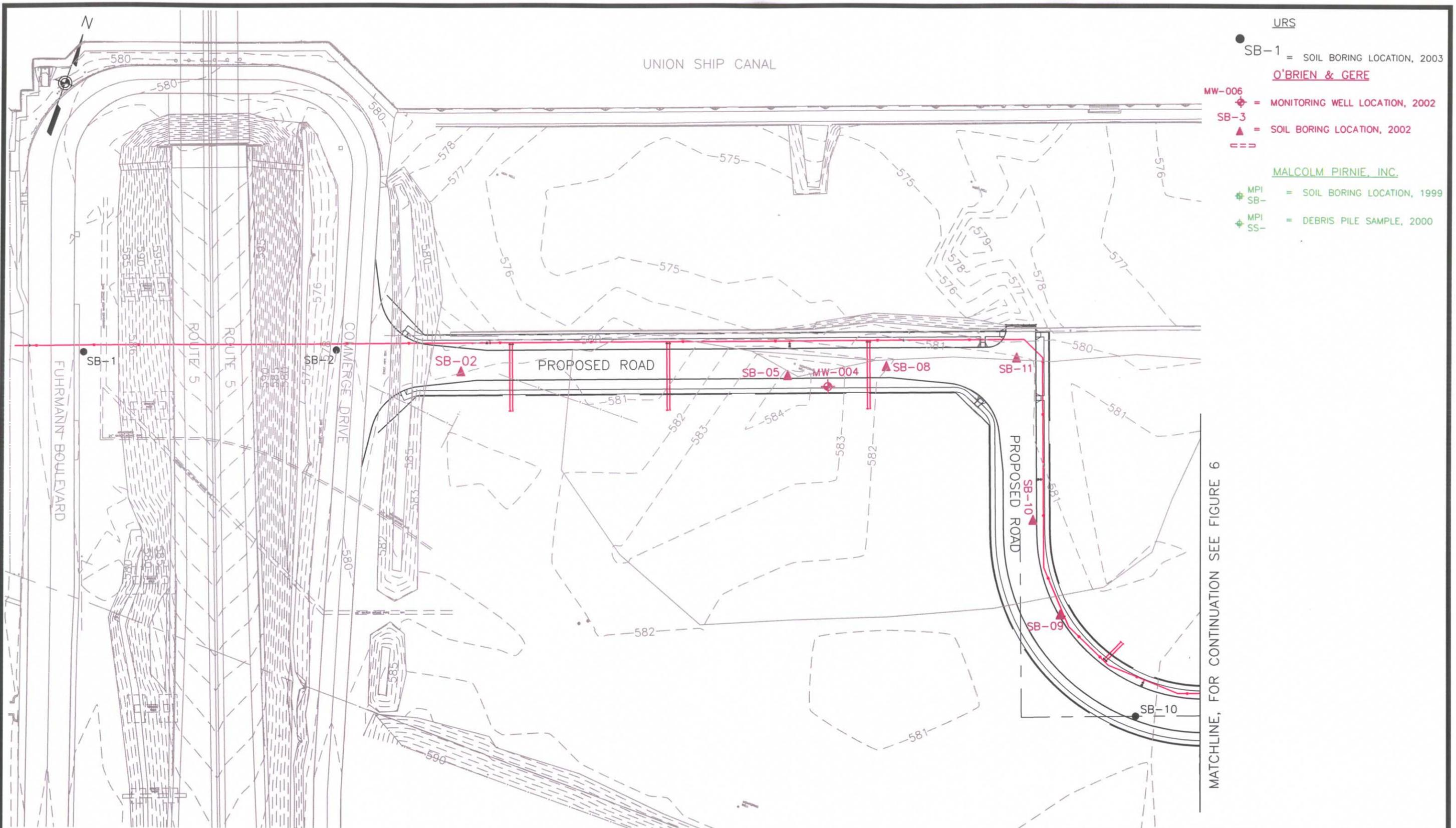
DESIGNED BY: DB
 DRAWN BY: ELB
 CHECKED BY: MJA
 PROJ. ENGR. MJA

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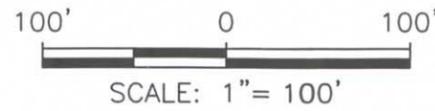
ECIDA

ERIE COUNTY
UNION SHIP CANAL
 PHASE 1
 BUFFALO NEW YORK

TYPICAL SECTIONS
 (2 OF 2)
 Scale: AS SHOWN Date: MAY 2003 **FIGURE 4**

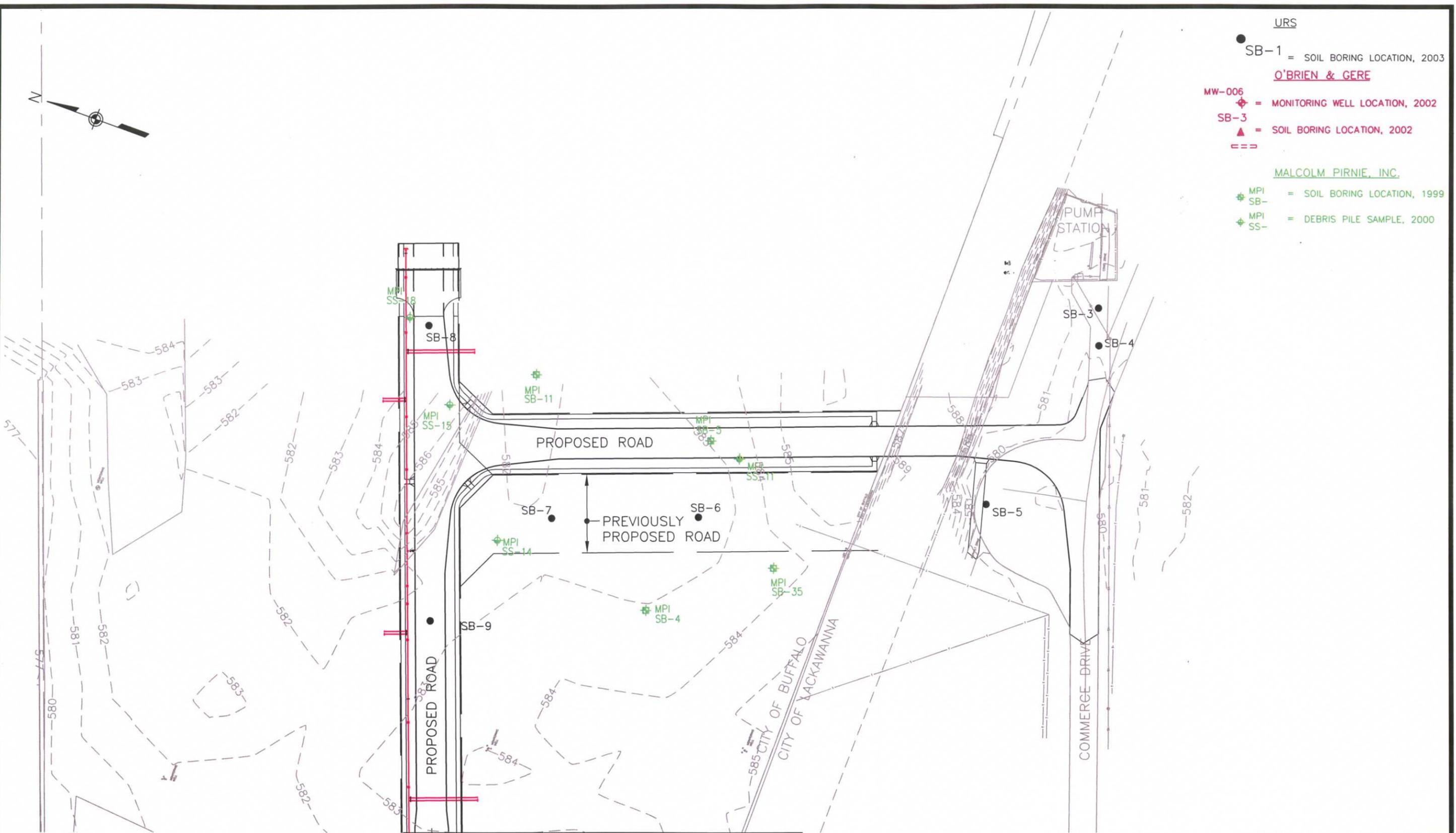


- URS
- SB-1 = SOIL BORING LOCATION, 2003
- O'BRIEN & GERE**
- ◆ MW-006 = MONITORING WELL LOCATION, 2002
- ▲ SB-3 = SOIL BORING LOCATION, 2002
- ▬▬▬
- MALCOLM PIRNIE, INC.**
- ◆ MPI SB- = SOIL BORING LOCATION, 1999
- ◆ MPI SS- = DEBRIS PILE SAMPLE, 2000

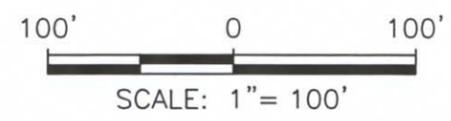


UNION SHIP CANAL
SOIL CHARACTERIZATION SAMPLING LOCATION PLAN

| | |
|------------|----------|
| URS | FIGURE 5 |
|------------|----------|



MATCHLINE, FOR CONTINUATION SEE FIGURE 5

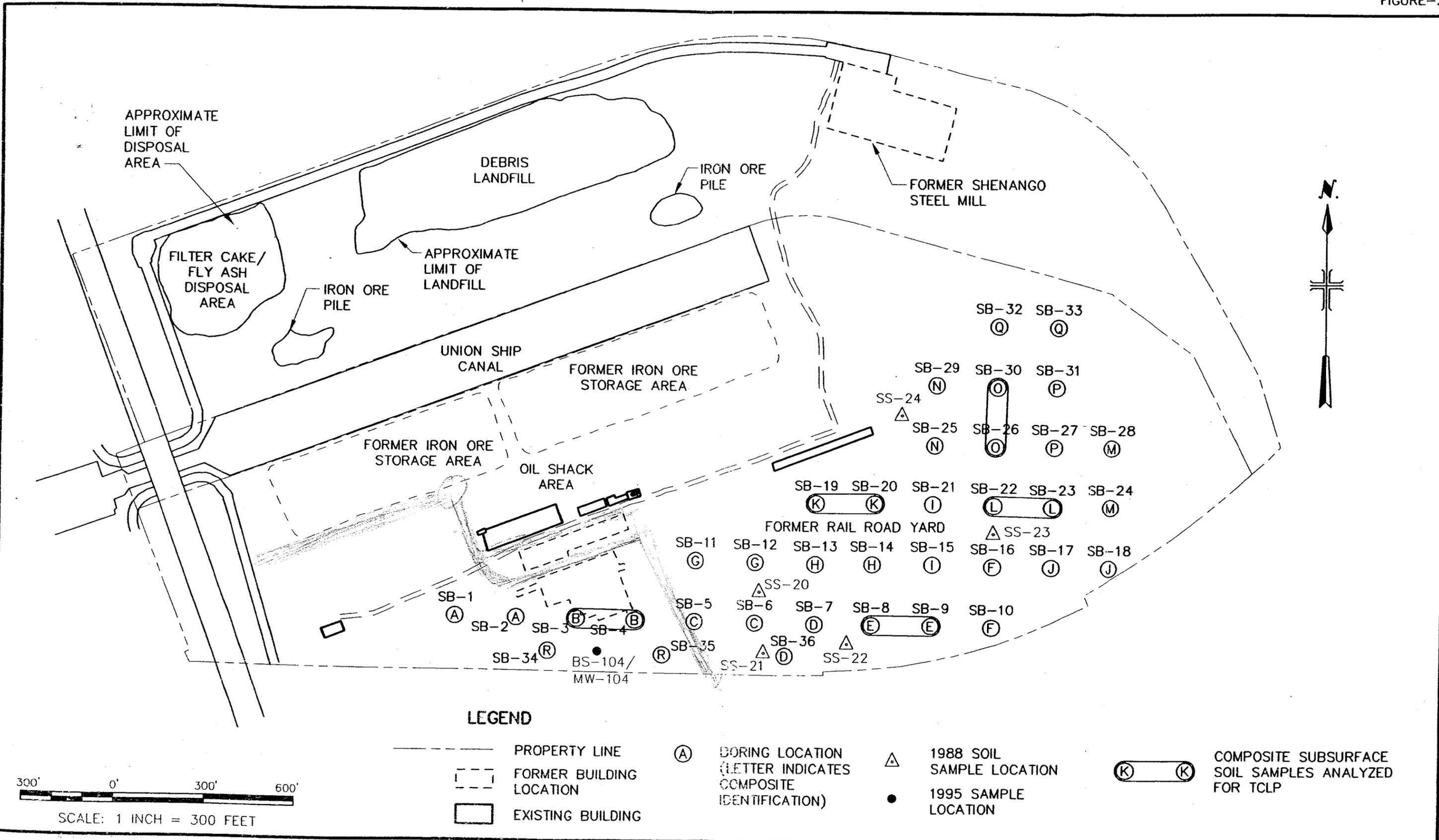


| | |
|--|----------|
| UNION SHIP CANAL SOIL CHARACTERIZATION SAMPLING LOCATION PLAN | |
| URS | FIGURE 6 |

APPENDIX A

DATA FROM PREVIOUS INVESTIGATIONS

8108 3587001200 I:\ACAD\PROJ\35870012\3587GFG1 Scale: 1:1 Date: 09/07/1999 Time: 13:23



| Table 1 Buffalo Economic Renaissance Corporation Hanna Furnace Site Summary of Composite Sample Locations | |
|--|----------------------|
| Sample Numbers | Borings in Composite |
| A1, A2 | SB-1 and SB-2 |
| → B1, B2 | SB-3 and SB-4 |
| → C1, C2 | SB-5 and SB-6 |
| D1, D2 | SB-7 and SB-36 |
| E1, E2 | SB-8 and SB-9 |
| F1, F2 | SB-10 and SB-16 |
| → G1, G2 | SB-11 and SB-12 |
| H1, H2 | SB-13 and SB-14 |
| I1, I2 | SB-15 and SB-21 |
| J1, J2 | SB-17 and SB-18 |
| K1, K2 | SB-19 and SB-20 |
| L1, L2 | SB-22 and SB-23 |
| M1, M2 | SB-24 and SB-28 |
| N1, N2 | SB-25 and SB-29 |
| O1, O2 | SB-26 and SB-30 |
| P1, P2 | SB-27 and SB-31 |
| Q1, Q2 | SB-32 and SB-33 |
| → R1, R2 | SB-34 and SB-35 |

Note: Sample numbers A1 through R1 are surface soil samples collected from the 0 to 2 feet depth interval. Samples A2 through R2 are subsurface soil samples collected from the 2-feet to base of fill interval.

SEE MALCOLM PIRNIE BORING LOCATION
MAP FOR BORING AND COMPOSITE LOCATIONS

Table 3
 Buffalo Economic Renaissance Corporation
 Hanna Furnace Site
 Summary of Analytical Results
 Composite Samples - Surface Soil

| Sample Location | A-1 | B-1 | C-1 | D-1 | E-1 | F-1 | G-1 | H-1 | I-1 | J-1 | K-1 | L-1 | M-1 | N-1 | O-1 | P-1 | Q-1 | R-1 | TAGM | Background |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|-----------------------------|
| Collection Date | 1/25/99 | 1/25/99 | 1/25/99 | 1/27/99 | 1/27/99 | 1/27/99 | 1/28/99 | 1/28/99 | 1/28/99 | 1/26/99 | 1/26/99 | 1/28/99 | 1/27/99 | 1/29/99 | 1/29/99 | 1/29/99 | 1/29/99 | 1/28/99 | 4046 | Concentrations ¹ |
| PAHs/Phenolic Compounds (ug/kg) | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | 120 J | 100 J | 130 J | | | | | | | 89 J | 76 J | | | | | | 65 J | | 13000 | NA |
| 2-Methylnaphthalene | 91 J | 96 J | 210 J | 65 J | | | | | | 94 J | 80 J | | | | | | | | 36400 | NA |
| Acenaphthylene | 200 J | | | | | | | | | | | | | | | | | | 41000 | NA |
| Acenaphthene | 400 | 140 J | | | | | | | | | | | | | | | | 130 J | 50000 | NA |
| Phenanthrene | 1500 | 560 | 460 J | 160 J | 730 | | 78 J | | 99 J | 74 J | 100 J | | | | | | 130 J | | 50000 | NA |
| Anthracene | 530 | 170 J | | | 180 J | | | | | 240 J | 1100 | 310 J | | | 160 J | | 1200 | 310 | 50000 | NA |
| Fluoranthene | 200 J | 470 | 630 | 290 J | 680 | | 220 J | 83 J | 110 J | 79 J | 330 | 78 J | | | | | 340 | 110 J | 50000 | NA |
| Pyrene | 5200 | 680 | 820 | 350 | 590 | | 270 J | 120 J | 110 J | 660 | 1600 | 590 | 120 J | 110 J | 280 J | 120 J | 1700 | 2000 | 50000 | NA |
| Benzo(a)anthracene | 3700 | 250 J | 390 J | 230 J | 320 J | | 180 J | 75 J | | 520 | 880 | 460 | 130 J | | 310 | | 1600 | 2200 | 50000 | NA |
| Chrysene | 3300 | 410 | 530 J | 290 J | 280 J | | 240 J | 84 J | 88 J | 700 | 880 | 270 J | 95 J | 93 J | 170 J | 78 J | 980 | 1400 | 224 | NA |
| Benzo(b)fluoranthene | 6400 | 700 | 930 J | 510 | 340 J | | 410 | 150 J | 120 J | 710 | 1500 | 460 | 130 J | | 310 | | 1600 | 2200 | 50000 | NA |
| Benzo(k)fluoranthene | 1900 | 250 J | 560 J | 260 J | | | | | | 1300 | 1300 | 400 | 170 J | | 260 J | 150 J | 1400 | 1800 | 1100 | NA |
| Benzo(a)pyrene | 5100 | 430 | 480 J | 470 | 260 J | | 210 J | 100 J | 73 J | 450 | 350 | | | | | | 520 | 660 | 1100 | NA |
| Indeno(1,2,3-cd)pyrene | 3700 | 430 | 560 J | 430 | | | | | | 810 | 920 | 280 J | 100 J | 150 J | 220 J | 110 J | 990 | 1200 | 61 | NA |
| Dibenzo(a,h)anthracene | 960 | | 560 J | | | | | | | 650 | 550 | | | | | | 460 | 750 | 3200 | NA |
| Benzo(g,h,i)perylene | 4100 | 500 | 560 J | 480 | 120 J | | 180 J | | | 700 | | 200 J | | | | | 480 | 680 | 14 | NA |
| Metals (mg/kg) | | | | | | | | | | | | | | | | | | | | |
| Aluminum | 24800 | 30400 | 22700 | 25300 | 20800 | 37400 | 21300 | 16600 | 20400 | 20900 | 17600 | 21100 | 23900 | 45700 | 29100 | 26600 | 16300 | 24000 | SB | 33000 |
| Antimony | | | | 6.99 | | 8.48 | 7.65 | 15.1 | 12.8 | 7.78 | | 9.26 | 11.2 | | 7.4 | 10.1 | 7.42 | 9.02 | SB | NA |
| Arsenic | | | | 15.4 | | | | | 21.9 | | | | | | 61.7 | | | | 7.5 or SB | 3 - 12 |
| Barium | 193 | 350 | 247 | 220 | 194 | 338 | 222 | 174 | 127 | 160 | 192 | 220 | 252 | 238 | 365 | 272 | 80.7 | 204 | 300 or SB | 15 - 600 |
| Beryllium | 4.19 | 7.45 | 5.21 | 4.78 | 3.05 | 5.39 | 5.29 | 2.88 | 2.18 | 3.43 | 3.04 | 5.64 | 3.68 | 6.86 | 6.62 | 4.92 | 1.44 | 4.12 | .016 or SB | 0 - 1.75 |
| Cadmium | | | 6.7 | | | | | 7.3 | | 8 | | 1.19 | | | | | | 0.707 | 1 or SB | 0.1-1 |
| Calcium | 119000 | 163000 | 118000 | 137000 | 102000 | 191000 | 154000 | 77100 | 48000 | 123000 | 88700 | 158000 | 82500 | 212000 | 194000 | 139000 | 73400 | 125000 | SB | 130-35000 |
| Chromium | 24.5 | 12.2 | 127 | 42.8 | 51.2 | 23.2 | 24.5 | 54.7 | 86.3 | 38.4 | 65.7 | 18.2 | 48.5 | 6.89 | 20.3 | 23.4 | 78.2 | 20.7 | 10 or SB | 1.5 - 40 |
| Cobalt | 3.79 | 1.89 | 5.55 | 6.26 | 12.7 | 5.64 | 5.88 | 13.4 | 15.7 | 5.9 | 7.5 | 5.79 | 9.56 | 4.75 | 4.12 | 7.24 | 7.03 | 5.15 | 30 or SB | 2.5 - 60 |
| Copper | 31.7 | 27.7 | 40.9 | 42.8 | 44.6 | 39.1 | 49.7 | 48.2 | 108 | 120 | 181 | 39.1 | 48.6 | 20.1 | 168 | 96.4 | 98.9 | 51.2 | 25 or SB | 1 - 50 |
| Cyanide, Total | 6.67 | 2.17 | 11.4 | 16.5 | 3.35 | 10.4 | 21.2 | 5.58 | 3.52 | 8.18 | 7.64 | 10.2 | 4.34 | 28.8 | 3.54 | 3.76 | 11.3 | 10.1 | 1600 ² | NA |
| Iron | 57200 | 13700 | 79300 | 82500 | 60100 | 59900 | 80800 | 202000 | 236000 | 65100 | 70400 | 137000 | 193000 | 23800 | 56200 | 114000 | 103000 | 77000 | 2000 or SB | 2000 - 550000 |
| Lead | 170 | 33.9 | 185 | 97.2 | 203 | 115 | 1120 | 220 | 285 | 274 | 611 | 116 | 208 | 22.1 | 245 | 218 | 618 | 177 | 400 ² | 4 - 500 |
| Magnesium | 9270 | 38200 | 23500 | 20400 | 16400 | 18800 | 20900 | 11400 | 5890 | 18100 | 16400 | 10900 | 10700 | 15400 | 23900 | 16100 | 14100 | 12500 | SB | 100 - 5000 |
| Manganese | 2590 | 2320 | 3530 | 2860 | 2110 | 3920 | 2670 | 5750 | 4590 | 2950 | 3030 | 3340 | 5250 | 1900 | 10400 | 2020 | 1950 | 2690 | SB | 50 - 5000 |
| Mercury | 0.21 | | | | | | | | 0.047 | | | | | | | | | | 0.1 | 0.001 - 0.2 |
| Nickel | 20.5 | 14.2 | 34.1 | 30.2 | 35.8 | 28.9 | 24.8 | 53.5 | 96.9 | 33.3 | 40.6 | 24.8 | 52.7 | 11.9 | 52.1 | 23.7 | 42.8 | 25 | 13 or SB | 0.5 - 25 |
| Potassium | 1290 | 2010 | 1570 | 1730 | 1710 | 2310 | 1560 | 1420 | 1110 | 1050 | 1250 | 969 | 1880 | 1100 | 2090 | 1530 | 715 | 1490 | SB | 8500 - 43000 |
| Silver | 429 | 1170 | 1020 | 579 | 370 | 796 | 662 | 456 | 264 | 557 | 512 | 396 | 702 | 454 | 944 | 434 | 191 | 531 | SB | NA |
| Sodium | 19.7 | 6.26 | 30.1 | 27.3 | 37.5 | 26.6 | 14.8 | 66.3 | 48.9 | 26.4 | 37.3 | 18.3 | 54.9 | 14.9 | 17.2 | 27.8 | 44.4 | 19.6 | SB | 6000 - 8000 |
| Vanadium | 343 | 75.8 | 322 | 266 | 251 | 412 | 331 | 1050 | 1100 | 1150 | 1020 | 233 | 582 | 63.7 | 128 | 446 | 472 | 393 | 150 or SB | 1 - 300 |
| Zinc | 340 | 76 | 320 | 270 | 250 | 410 | 330 | 1100 | 1100 | 1200 | 1000 | 230 | 580 | 64 | 130 | 450 | 470 | 390 | 20 or SB | 9 - 50 |

Notes:
 PAHS - Polycyclic Aromatic Hydrocarbons.
 Blank space denotes analyte was not detected.
 Only compounds detected in at least one sample included in table.
 NA - No NYSDEC TAGM 4046 Soil Background Concentration.
 SB - Site Background.
 J - Estimated concentrations.
 1 - Background concentrations from NYSDEC TAGM 4046.
 2 - USEPA Region 3 Soil Screening Levels (SSLs).
 Shading indicates that concentration exceeds Guidance Value, and the background range is used when there is no Guidance Value.

Table 4
Buffalo Economic Renaissance Corporation
Hanna Furnace Site
Summary of Analytical Results
Composite Samples - Subsurface Soil

| Sample Location | A-2 | B-2 | C-2 | D-2 | E-2 | F-2 | G-2 | H-2 | I-2 | J-2 | K-2 | L-2 | M-2 | N-2 | O-2 | P-2 | Q-2 | R-2 | TAGM | Background | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|-------------------|-----------------------------|-------------|
| Collection Date | 1/25/99 | 1/25/99 | 1/25/99 | 1/27/99 | 1/27/99 | 1/27/99 | 1/28/99 | 1/28/99 | 1/28/99 | 1/26/99 | 1/26/99 | 1/28/99 | 1/27/99 | 1/29/99 | 1/29/99 | 1/29/99 | 1/29/99 | 1/28/99 | 4046 | Concentrations ¹ | |
| PAHs/Phenolic Compounds (ug/kg) | | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | | 140 J | 79 J | | 150 J | | | | | | | | | | | | | | 13000 | NA | |
| 2-Methylnaphthalene | | 230 J | 120 J | | 96 J | | | | | | | | | | | | | | 36400 | NA | |
| Acenaphthene | | | | | 170 J | | | | | | | | | | | | | | 50000 | NA | |
| Phenanthrene | 450 J | 180 J | | | 1400 | | | | | | 380 J | | | | | | | | 50000 | NA | |
| Anthracene | | | | | 360 | | | | | | 110 J | | | | | | | | 50000 | NA | |
| Fluoranthene | 710 | 170 J | | | 980 | 96 J | | | | | 630 | | | | | | | | 50000 | NA | |
| Pyrene | 900 | 170 J | | | 1100 | | | | | | 570 | | | | | | | | 50000 | NA | |
| Benzo(a)anthracene | 410 J | 110 J | | | 450 | | | | | | 320 J | | | | | | | | 224 | NA | |
| Chrysene | 500 J | 160 J | | | 460 | | | | | | 320 J | | | | | | | | 400 | NA | |
| Benzo(b)fluoranthene | 650 | 220 J | | | 390 | | | | | | 400 J | | | | | | | | 1100 | NA | |
| Benzo(k)fluoranthene | | | | | 150 J | | | | | | | | | | | | | | 1100 | NA | |
| Benzo(a)pyrene | 470 J | 160 J | | | 330 | | | | | | 310 J | | | | | | | | 61 | NA | |
| Indeno(1,2,3-cd)pyrene | 330 J | | | | | | | | | | 220 J | | | | | | | | 3200 | NA | |
| Benzo(g,h,i)perylene | 410 J | 99 J | | | 210 J | | | | | | 220 J | | | | | | | | 50000 | NA | |
| Metals (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
| Aluminum | 40800 | 28800 | 27600 | 38900 | 28500 | 38000 | 43200 | 27400 | 31200 | 33300 | 50300 | 54000 | 17700 | 46200 | 40900 | 23900 | 12200 | 43100 | SB | 33000 | |
| Antimony | | | | 11 | 11.4 | 10.6 | 10.3 | 13.5 | 13.2 | | | | 16.6 | 11.2 | 11.9 | | | | SB | NA | |
| Arsenic | | | | | | | | 20.4 | | | | | 35.6 | | | | | | 7.5 or SB | 3 - 12 | |
| Barium | 226 | 289 | 274 | 286 | 260 | 215 | 389 | 226 | 305 | 356 | 408 | 240 | 202 | 416 | 310 | 344 | 89.3 | 264 | 300 or SB | 15 - 600 | |
| Beryllium | 6.4 | 4.91 | 4.63 | 6.73 | 5.05 | 4.19 | 7.6 | 4.52 | 5.09 | 5.82 | 8.57 | 8.38 | 3.42 | 9.61 | 7.65 | 6.6 | 0.73 | 6.17 | .016 or SB | 0 - 1.75 | |
| Cadmium | | | | 8.1 | | | | | | 4.7 | 1.05 | | 7.8 | | | | | | 1 or SB | 0.1-1 | |
| Calcium | 196000 | 154000 | 156000 | 233000 | 166000 | 169000 | 255000 | 102000 | 162000 | 148000 | 201000 | 221000 | 85000 | 296000 | 236000 | 188000 | 37400 | 193000 | SB | 130-35000 | |
| Chromium | 5.89 | 4.36 | 14.4 | 12 | 30.5 | 27.4 | 20.2 | 27.7 | 28.6 | 23 | 20.4 | 5.18 | 35.2 | 9.05 | 13.2 | 12.5 | 25.9 | 4.7 | 10 or SB | 1.5 - 40 | |
| Cobalt | | 3.08 | 3.34 | | 7.61 | 7.85 | 4.93 | 10.6 | 11.3 | 4.26 | 5.03 | 4.4 | 11.2 | 4.97 | 3.69 | 9.91 | 14 | 4.56 | 30 or SB | 2.5 - 60 | |
| Copper | 9.58 | 10.7 | 26.5 | 21.9 | 20.2 | 20.1 | 13.8 | 9.18 | 21.4 | 13.4 | 42.2 | 12.7 | 5.53 | 12.3 | 11.6 | 14.9 | 30.7 | 8.49 | 25 or SB | 1 - 50 | |
| Cyanide, Total | 8.04 | 17.4 | 20.1 | 33.2 | 5.79 | 5.02 | 32.7 | 7.65 | 11.9 | 6.35 | 3.23 | 4.23 | 18.5 | 3.25 | 0.99 | 26 | 1.05 | 20.9 | 1600 ² | NA | |
| Iron | 4250 | 20600 | 32800 | 37100 | 115000 | 137000 | 25400 | 177000 | 200000 | 78200 | 209000 | 19500 | 200000 | 18000 | 8610 | 105000 | 34700 | 29900 | 2000 or SB | 2000 - 550000 | |
| Lead | | 9.78 | 62.7 | 56.2 | 85.1 | 175 | 24.4 | 66.5 | 77.1 | 50 | 166 | 16.2 | 65.4 | | 34.1 | 35.9 | 15.3 | 400 ² | SB | 4 - 500 | |
| Magnesium | 13100 | 12600 | 13400 | 19000 | 11700 | 7960 | 26800 | 9080 | 7950 | 16600 | 25000 | 14100 | 5320 | 16900 | 15700 | 8200 | 14900 | 14000 | SB | 100 - 5000 | |
| Manganese | 2630 | 2030 | 2440 | | 2010 | 2950 | 5150 | 2540 | 2670 | 3210 | 3690 | 2460 | 2660 | 2730 | 3670 | 2100 | 671 | 2480 | SB | 50 - 5000 | |
| Mercury | | | | | 0.057 | 0.034 | | | | 0.028 | | | 0.022 | | | | 0.097 | | 0.1 | | 0.001 - 0.2 |
| Nickel | 9.92 | 8.71 | 17.8 | 11.5 | 16.7 | 32 | 23.8 | 27.8 | 25.6 | 20.9 | 23.4 | 11.8 | 27.2 | 11.4 | 16.6 | 16.1 | 33.5 | 13.7 | 13 or SB | 0.5 - 25 | |
| Potassium | 1200 | 1140 | 1830 | 1590 | 1460 | 2210 | 2970 | 2410 | 1080 | 1960 | 2510 | 1440 | 1490 | 2240 | 1700 | 1280 | 1940 | 1420 | SB | 8500 - 43000 | |
| Sodium | 467 | 521 | 562 | 713 | 328 | 420 | 746 | 356 | 279 | 680 | 610 | 458 | 201 | 568 | 558 | 391 | 189 | 443 | SB | 6000 - 8000 | |
| Vanadium | 8.4 | 11.2 | 17 | 17.8 | 57.8 | 46.5 | 24.8 | 78 | 68.7 | 42.8 | 25.1 | 17.3 | 104 | 17.2 | 21.2 | 34.5 | 25.7 | 19.3 | 150 or SB | 1 - 300 | |
| Zinc | 9.05 | 40.2 | 182 | 107 | 197 | 1040 | 37 | 1670 | 1030 | 331 | 445 | 90.3 | 683 | | 11.1 | 263 | 101 | 475 | 20 or SB | 9 - 50 | |

Notes:

PAHS - Polycyclic Aromatic Hydrocarbons.

Blank space denotes analyte was not detected.

Only compounds detected in at least one sample included in table.

NA - No NYSDEC TAGM 4046 Soil Background Concentration.

SB - Site Background.

J - Estimated concentrations.

1 - Background concentrations from NYSDEC TAGM 4046.

2 - USEPA Region 3 Soil Screening Levels (SSLs).

Shading indicates that concentration exceeds Guidance Value, and the background range is used when there is no Guidance Value.



11/00 MALCOLM PIRNIE, INC. 11/00



LEGEND

- US GEOLOGICAL SURVEY**
- ◆ USGS = SOIL BORING, 1982
- △ RECRA = SURFACE SOIL SAMPLE, 1988
- ▲ RECRA = SURFACE WATER/SEDEMENT SAMPLE PAIR, 1988
- △ RECRA = POND WATER/SEDEMENT SAMPLE PAIR, 1988
- ◆ RECRA = MONITORING WELL (DESTROYED), 1988
- NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
- ◇ DEC SS- = SURFACE SOIL SAMPLE, 1990
- ▲ DEC SS- = SURFACE SOIL SAMPLE, 1994
- ABB ENVIRONMENTAL SERVICES, INC.**
- ◆ ABB MW- = MONITORING WELL LOCATION, 1995
- △ ABB SS- = SURFACE SOIL SAMPLE LOCATION, 1995
- ▲ ABB SW/SD- = SURFACE WATER/SEDEMENT SAMPLE LOCATION, 1995
- ◆ ABB TP- = TEST PIT LOCATION, 1995
- ABB WT- = DRUM SAMPLE LOCATION, 1995
- ◆ ABB CD/CL = STRUCTURE SEDEMENT/ LIQUID SAMPLE, 1995
- MALCOLM PIRNIE, INC.**
- ◆ MPI SB- = SOIL BORING LOCATION, 1999
- ◆ MPI SB- = SHALLOW BORING, 2000
- ◆ MPI MW- = MONITORING WELL 2000
- ◆ MPI SS- = DEBRIS PILE SAMPLE, 2000
- ◆ = PROPOSED BORING
- ▨ = SOIL/FILL PILE

NOTE:
ALL SAMPLING LOCATIONS ARE ESTIMATED EXCEPT FOR MALCOLM PIRNIE, 2000 INVESTIGATION LOCATIONS.

MALCOLM PIRNIE
11/00

HANNA FURNACE SITE
BUFFALO, NEW YORK
SOUTH BUFFALO REDEVELOPMENT PLAN
DOWNTOWN DEVELOPMENT, INC.

FIGURE 2-1
SITE SAMPLING
LOCATIONS BY INVESTIGATION

TABLE 3-2

SUMMARY OF ANALYTICAL RESULTS - FILL PILES

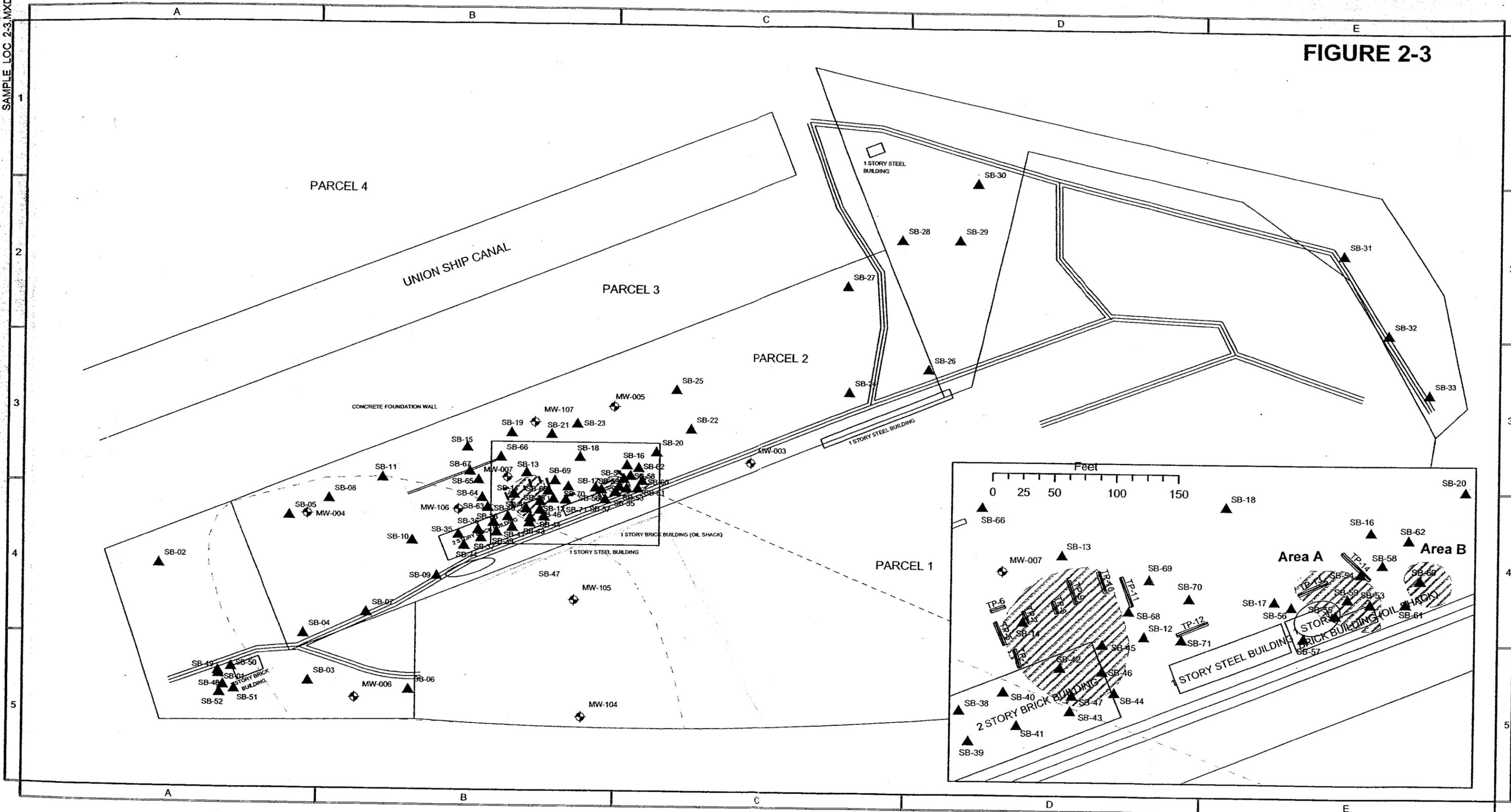
SUPPLEMENTAL INVESTIGATION
HANNA FURNACE - FORMER RAILROAD YARD AREA

| PARAMETER ⁽¹⁾ | SAMPLE LOCATION | | | | | | | | | | | | | | | | | | | | NYSDEC TAGM VALUES ⁽²⁾ | EASTERN U.S. BACKGROUND RANGE ⁽²⁾ | | | |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|--|------------------|-----------------------|----------|
| | SS-1 2/23/00 | SS-2 2/23/00 | SS-3 2/23/00 | SS-4 2/23/00 | SS-5 2/23/00 | SS-6 2/23/00 | SS-7 2/23/00 | SS-8 2/23/00 | SS-9 2/23/00 | SS-10 2/23/00 | SS-11 2/23/00 | SS-12 2/24/00 | Duplicate (SS-12) | SS-13 2/24/00 | SS-14 2/24/00 | SS-15 2/24/00 | SS-16 2/24/00 | SS-17 2/24/00 | SS-18 2/24/00 | SS-19 2/24/00 | | | SS-20 2/24/00 | TRIP BLANK 2/25/00 | |
| PESTICIDES/PCBS (ug/kg) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aldrin | | | | 500 J | | 2.9 J | | | | | | | | | | | | | | | | | NA | 41 | - |
| 4,4'-DDE | | | | | | | | | | 7.9 J | | | | 3.9 J | | | 2.6 J | | | | | | NA | 2100 | - |
| 4,4'-DDT | | | 8.0 J | | | | | | | 10.9 J | | | | | 4.7 J | 10.8 J | | | | | | 13.8 J | NA | 2100 | - |
| alpha-Chlordane | | | | 500 | | 29.3 | | | | | | | | | | | | | | | | 15 J | NA | 540 | - |
| gamma-Chlordane | | | | | | | | | | | | | | | | | 2.1 J | | | | | | NA | 540 | - |
| Heptachlor | | | | 3.2 J | | | | | | | | | | | | | | | | | | | NA | 20 | - |
| Aroclor 1254 | | | | | | 1200 | | | | | | | | | | | | | | | | | NA | 1000 | - |
| Aroclor 1260 | | | | 3820 | | | | | | | | | | | | | | | | | | | NA | 1000 | - |
| METALS (mg/kg) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aluminum | 5,810 | 28,600 | 21,000 | 10,500 | 11,600 | 2,950 | 7,350 | 25,500 | 8,140 | 4,950 | 4,010 | 5,230 | 7,250 | 7,700 | 7,670 | 7,300 | 4,830 | 4,680 | 6,600 | 5,460 | 6,480 | NA | SB | 33,000 | |
| Antimony | | | | | | | | | | | | | | | | | | | 7.2 J | | | | NA | SB | - |
| Arsenic | 6.31 | 4.8 | | 5.5 | 6.3 | 10.6 | 5.3 | | 17.9 | 4.6 | 6.3 | | | 5.4 | | 3.7 | 3.6 | 22.9 | 3.0 | | | 11.7 | NA | 7.5 or SB | 3 - 12 |
| Barium | 75.4 J | 316 J | 248 J | 327 J | 175 J | 53.1 J | 55.5 J | 150 J | 83.7 J | 65.7 J | 40.2 J | 49.5 J | 85.5 J | 96.1 J | 71.3 | 80.3 J | 60.4 J | 298 J | 87.8 J | 55.0 J | 86.6 J | NA | 300 or SB | 15 - 600 | |
| Beryllium | | | | 0.74 B | | | | | | | | | | | | | | | | | | | NA | .016 or SB | 0 - 1.75 |
| Cadmium | 4.6 J | 2.3 J | 4.5 J | 5.3 J | 4.6 J | 19.9 J | 1.7 J | 2.6 J | 2.0 J | 2.5 J | | 2.2 J | 1.4 J | 3.3 J | 1.4 J | 1.9 J | 3.1 J | 19.9 J | 1.5 J | 1.4 J | 3.7 J | NA | (10) | 0.1 - 1 | |
| Calcium | 27,500 | 209,000 | 124,000 | 22,600 | 29,400 | 14,200 | 65,700 | 157,000 | 24,500 | 23,800 | 52,900 | 64,100 | 67,000 | 55,600 | 65,100 | 62,100 | 56,300 | 32,900 | 52,100 | 52,700 | 36,200 | NA | SB | 130 - 35,000 | |
| Chromium | 11.7 J | 17.3 J | 45.4 J | 28.9 J | 81.1 J | 193 J | 11.5 J | 10.2 J | 20.7 J | 10.1 J | 8.2 | 31.3 J | 32.8 J | 22.0 J | 13.2 J | 13.3 J | 13.0 J | 38.4 J | 17.6 J | 9.53 | 42.9 J | NA | (50) | 1.5 - 40 | |
| Cobalt | 9.6 B | | 5.0 B | 13.5 | 11.2 B | 15.9 | 8.6 | | 7.7 B | 5.6 | | | | 6.4 B | 6.7 B | 4.5 B | 6.5 B | 13.1 | 5.2 B | 5.0 B | 6.7 B | NA | 30 or SB | 2.5 - 60 | |
| Copper | 46.3 J | 13.2 | 20.9 J | 50.4 J | 40.2 J | 58.3 J | 19.5 J | 9.4 | 15.3 | 22.9 J | 11.0 | 19.9 J | 11.5 | 70.2 J | 14.7 | 39.0 J | 62.5 J | 50.1 J | 49.1 J | 21.6 J | 69.4 J | NA | 25 or SB | 1 - 50 | |
| Iron | 56,900 | 18,500 | 58,000 | 27,400 | 47,800 | 244,000 | 17,200 | 25,400 | 20,100 | 16,700 | 75,910 | 21,000 | 10,900 | 20,300 | 14,300 | 13,700 | 20,200 | 108,000 | 13,300 | 13,100 | 27,800 | NA | 2,000 or SB | 2,000 - 550,000 | |
| Lead | 80.2 J | 38.1 J | 93.4 J | 89.0 J | 571 J | 89.4 J | 20.5 J | 29.3 J | 46.8 J | 85.6 J | 15.2 J | 49.0 J | 61.8 J | 121 J | 22.4 J | 188 J | 136 J | 766 J | 117 J | 46.1 J | 208 J | NA | (1000) | 4 - 500 | |
| Magnesium | 4,830 | 18,500 | 23,600 | 6,000 | 8,660 | 3,070 | 12,400 | 14,400 | 4,740 | 6,620 | 17,700 | 13,900 | 15,000 | 13,400 | 19,200 | 9,470 | 13,600 | 7,200 | 11,500 | 17,100 | 14,300 | NA | SB | 100 - 5,000 | |
| Manganese | 1,240 | 3,320 | 1,770 | 426 | 777 | 2,410 | 413 | 1,300 | 194 | 303 | 230 | 741 | 1,470 | 419 | 422 | 510 | 395 | 1,310 | 610 | 304 | 384 | NA | SB | 50 - 5,000 | |
| Mercury | 0.29 J | | 0.19 J | 0.54 J | 0.15 J | | | | | | | | | 0.18 J | 0.42 J | 0.30 J | | 0.67 J | 0.43 J | 0.17 J | 0.19 J | NA | 0.1 | 0.001 - 0.2 | |
| Nickel | 29.0 J | | 13.9 J | 41.7 J | 29.3 J | 84.8 J | 21.4 J | | 17.8 J | 15.4 J | 7.7 J | 9.2 J | 6.9 J | 24.7 J | 13.6 J | 15.5 J | 14.3 J | 38.9 J | 18.1 J | 12.1 J | 19.0 J | NA | 13 or SB | 0.5 - 25 | |
| Potassium | 1,110 B | 4,970 | 3,270 | 2,170 | 2,510 | 657 B | 1,050 B | 3,120 | 2,100 | 696 B | 1,100 B | 872 B | 1,430 | 1,910 | 1,870 | 1,470 | 1,410 | 1,360 | 1,270 | 1,500 | 1,450 | NA | SB | 8,500 - 43,000 | |
| Selenium | 2.3 | 35.2 J | 35.9 J | 11.5 J | 17.3 J | | 23.7 J | 28.0 J | 10.9 J | 15.3 J | 33.1 J | 25.6 J | 29.2 J | 21.5 J | 33.2 J | 21.4 J | 25.2 J | | 24.0 J | 29.7 J | 52.6 J | NA | 2 or SB | 0.1 - 3.9 | |
| Sodium | | 675 B | 532 B | | | | | | | 291 B | | | 301 B | | 230 B | | | | | | | NA | SB | 6,000 - 8,000 | |
| Thallium | | | | | | | 2.4 J | 4.8 J | | | | | | | | | | | | | | NA | SB | - | |
| Vanadium | 27.0 | | 8.7 B | 22.6 | 25.3 | 9.0 B | 14.9 | 9.9 B | 44.2 | 12.7 | 16.4 | 15.9 | 15.0 | 17.2 | 15.9 | 13.4 | 18.6 | 17.6 | 13.3 | 14.6 | 22.9 | NA | 150 or SB | 1 - 300 | |
| Zinc | 64.5 J | 133 J | 261 J | 76.4 J | 299 J | 86.4 J | 64.8 J | 101 J | 93.5 J | 46.2 J | 63.8 J | 113 J | 140 J | 23.9 J | 66.5 J | 192 J | 315 J | 2,380 J | 108 J | 77.5 J | 52.4 J | NA | 20 or SB | 9 - 50 | |
| Cyanide | | 3.5 | 12.0 | | | 3.6 | | 12.7 | | | | | 1.7 | 3.0 | | | | | | | | NA | - | - | |

Notes:
 (1) Only those parameters having a value above the laboratory detection limit, and found at a minimum of one location are shown.
 (2) Soil Cleanup Guidelines and Eastern U.S. Background Range from NYSDEC TAGM 4046 (1/24/94). Value in parentheses are NYSDEC revised values for nonresidential sites but have not yet been incorporated into TAGM 4046.
 - Soil cleanup guideline or background range not available.

B - Result is between Instrument Detection Limit and Contact Required Detection Limit.
 J - Indicates an estimate value. Result is below quantitation limit but above zero.
 NA - Not Analyzed
 Blank space indicates analyte was not detected.
 Shaded/bold text indicates guidance criteria or background range was exceeded.

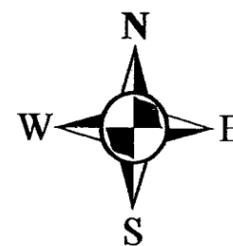
FIGURE 2-3



Legend

- TEST PIT
- ◆ MONITORING WELL
- ▲ SOIL BORING
- ELEVATED pH IN GROUNDWATER
- ▨ APPROXIMATE LOCATION OF NAPL

HANNA FURNACE - SUB PARCEL 2
 REBUILD NOW - N.Y.
 EMPIRE STATE DEVELOPMENT



**AREAS OF CONCERN
 EXTENT OF NAPL AND ELEVATED pH
 IN GROUND WATER**

AUGUST 2002
 10569.25466.001



TABLE 2-4

SUMMARY OF DEBRIS PILE CHARACTERISTICS

SUPPLEMENTAL INVESTIGATION

HANNA FURNACE - FORMER RAILROAD YARD AREA

| Debris Pile ID No. | Sample ID | Debris Pile Contents | PID Screening Results | Sampled Depth (ft bgs) | Estimated Area (ft ²) | Estimated Depth | Estimated Volume (yd ³) |
|--------------------|---------------------|---|-----------------------|------------------------|-----------------------------------|-----------------|-------------------------------------|
| DP-1 | SS-12 | C & D debris, concrete rubble, rebar, | 0.2 | 3-5 | 20,394 | 2 | 1,510 |
| | SS-13 | sand and gravel | 0.2 | 2-4 | | | |
| DP-2 | | C & D debris, sand and gravel | | | 154 | 2 | 11+ |
| DP-3 | SS-8 ⁽²⁾ | C & D debris, concrete, sand and gravel | 0.2 | 3-5 | 28,680 | 3.5 | 3,717 |
| | SS-10 | | 0.2 | 3-5 | | | |
| | SS-11 | | 0.2 | 3-5 | | | |
| DP-4 | SS-9 | Stone, gravel | 0.2 | 4-6 | 6,790 | 2 | 503 |
| DP-5 | | C & D debris, concrete, sand and gravel, silt | | | 3,416 | 3 | 316 |
| DP-6 | SS-3 | C & D debris, sand, gravel, silt, | 0.2 | 3-5 | 56,502 | 3 | 6,278 |
| | SS-4 | | 0.2 | 2-4 | | | |
| | SS-5 | | 0.2 | 2-4 | | | |
| | SS-6 | | 0.2 | 3-5 | | | |
| | SS-7 | | 0.2 | 2-4 | | | |
| DP-7 | | Lime flux, slag | | | 2,575 | 2.5 | 238 |
| DP-8 | | Trash, tires | | | 400 | 2 | 30 |

TABLE 2-4

SUMMARY OF DEBRIS PILE CHARACTERISTICS

SUPPLEMENTAL INVESTIGATION
HANNA FURNACE - FORMER RAILROAD YARD AREA

| Depris Pile ID No. | Sample ID | Debris Pile Contents | PID Screening Results | Sampled Depth (ft bgs) | Estimated Area (ft ²) | Estimated Depth | Estimated Volume (yd ³) |
|--------------------|-----------|---|--------------------------|------------------------|-----------------------------------|-----------------|-------------------------------------|
| DP-9 | | C & D debris, wood, concrete, sand, misc. metal | | | 1,295 | 2 | 96 |
| DP-10 | SS-2 | C & D debris, concrete, rebar, brick, asphalt | 0.5 | 2-4 | 2,311 | 2 | 171 |
| DP-11 | | C & D debris, concrete, sand and gravel | | | 862 | 2 | 64 |
| DP-12 | | C & D debris, concrete, sand and gravel | | | 646 | 2 | 48 |
| DP-13 | | C & D debris, concrete, sand and gravel | | | 1,233 | 2 | 91 |
| DP-15 | | Slag, railroad ties | | | 2,194 | 3 | 244 |
| DP-16 | | Wood, metal, debris, | | | 433 | 2 | 32 |
| DP-17 | | Sand | | | 909 | 4.5 | 9 |
| DP-18 | | Sinter, | | | 884 | 5 | 164 |
| X DP-23 | SS-15 | C & D debris, concrete, sand and gravel | 0.4 | 3-5 | 81,100 | 3 | 9,011 |
| | SS-16 | | 0.2 | 2-4 | | | |
| | SS-17 | | 1.6 / 0.2 ⁽³⁾ | 3-5 | | | |
| X | SS-18 | | 0.2 | 4-6 | | | |
| | SS-19 | | 0.2 | 3-5 | | | |
| | SS-20 | | 0.2 | 3-5 | | | |

TABLE 2-4

SUMMARY OF DEBRIS PILE CHARACTERISTICS

**SUPPLEMENTAL INVESTIGATION
HANNA FURNACE - FORMER RAILROAD YARD AREA**

| Debris Pile ID No. | Sample ID | Debris Pile Contents | PID Screening Results | Sampled Depth (ft bgs) | Estimated Area (ft ²) | Estimated Depth | Estimated Volume (yd ³) |
|--------------------|-----------|---|-----------------------|------------------------|-----------------------------------|-----------------|-------------------------------------|
| DP-A | SS-1 | Fill as slag, gravel, RR ties, tires, metal | 0.2 | 2-4 | 7,500 | 4.5 | 1,250 |
| DP-B | SS-14 | Fill as sand, gravel, brick, misc. metal | 0.2 | 0-3 | 150 | 2 | 11 |

NOTES:

Sampled debris piles indicated by shaded / stipple pattern.

- (1) All debris piles sampled above grade unless noted.
- (2) White fill material sampled below grade surface at SS-8 per NYSDEC request.
- (3) Elevated PID reading measured in proximity to RR tie within excavation.



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Table 4
Hanna Furnace Subparcel 2
Surface Soil Samples
Volatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | SB-09 | SB-13 | SB-18 |
|---------------------------------------|--------------|----------------------------|--|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 0.0 - 0.5 ft | 0.0 - 0.5 ft | 0.0 - 0.5 ft |
| | Sample Date | | | 07/31/2001 | 07/30/2001 | 07/30/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID | SOLID | SOLID |
| 1,1,1-Trichloroethane | | 1 | 0.8 | 0.014 U | 0.011 U | 0.013 U |
| 1,1,2,2-Tetrachloroethane | | 1 | 0.6 | 0.014 U | 0.011 U | 0.013 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 1 | 6 | 0.014 U | 0.011 U | 0.013 U |
| 1,1,2-Trichloroethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| 1,1-Dichloroethane | | 1 | 0.2 | 0.014 U | 0.011 U | 0.013 U |
| 1,1-Dichloroethene | | 1 | 0.4 | 0.014 U | 0.011 U | 0.013 U |
| 1,2,4-Trichlorobenzene | | 1 | 3.4 | 0.014 U | 0.011 U | 0.013 U |
| 1,2-Dibromo-1-chloropropane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| 1,2-Dibromoethane (EDB) | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| 1,2-Dichlorobenzene | | 1 | 7.9 | 0.014 U | 0.011 U | 0.013 U |
| 1,2-Dichloroethane | | 1 | 0.1 | 0.014 U | 0.011 U | 0.013 U |
| 1,2-Dichloropropane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| 1,3-Dichlorobenzene | | 1 | 1.6 | 0.014 U | 0.011 U | 0.013 U |
| 1,4-Dichlorobenzene | | 1 | 8.5 | 0.014 U | 0.011 U | 0.013 U |
| 2-Butanone (MEK) | | 1 | 0.3 | 0.04 | 0.011 U | 0.027 |
| 2-Hexanone | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| 4-Methyl-2-pentanone (MIBK) | | 1 | 1 | 0.014 U | 0.011 U | 0.013 U |
| Acetone | | 1 | 0.2 | 0.14 | 0.04 | 0.12 |
| Benzene | | 1 | 0.06 | 0.014 U | 0.011 U | 0.013 U |
| Bromodichloromethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Bromoform | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Bromomethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Carbon disulfide | | 1 | 2.7 | 0.016 | 0.002 J | 0.005 J |
| Carbon tetrachloride | | 1 | 0.6 | 0.014 U | 0.011 U | 0.013 U |
| Chlorobenzene | | 1 | 1.7 | 0.014 U | 0.011 U | 0.013 U |
| Chloroethane | | 1 | 1.9 | 0.014 U | 0.011 U | 0.013 U |
| Chloroform | | 1 | 0.3 | 0.014 U | 0.011 U | 0.013 U |
| Chloromethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Cyclohexane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Dibromochloromethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Dichlorodifluoromethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Ethylbenzene | | 1 | 5.5 | 0.009 J | 0.011 U | 0.013 U |
| Isopropylbenzene | | 1 | 5 | 0.014 U | 0.011 U | 0.013 U |
| Methyl acetate | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Methyl tert butyl ether | | 1 | 0.12 | 0.014 U | 0.011 U | 0.013 U |

NOTES: U - Not detected, J - Estimated value, -- - Not analyzed.
NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.



Table 4
Hanna Furnace Subparcel 2
Surface Soil Samples
Volatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | SB-09 | SB-13 | SB-18 |
|---------------------------|--------------|----------------------------|--|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 0.0 - 0.5 ft | 0.0 - 0.5 ft | 0.0 - 0.5 ft |
| | Sample Date | | | 07/31/2001 | 07/30/2001 | 07/30/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID | SOLID | SOLID |
| Methylcyclohexane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Methylene chloride | | 1 | 0.1 | 0.014 U | 0.011 U | 0.013 U |
| Styrene | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Tetrachloroethene | | 1 | 1.4 | 0.014 U | 0.011 U | 0.013 U |
| Toluene | | 1 | 1.5 | 0.024 | 0.011 U | 0.001 J |
| Trichloroethene | | 1 | 0.7 | 0.014 U | 0.011 U | 0.013 U |
| Trichlorofluoromethane | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Vinyl chloride | | 1 | 0.2 | 0.014 U | 0.011 U | 0.013 U |
| Xylene (total) | | 1 | 1.2 | 0.049 | 0.011 U | 0.013 U |
| cis-1,2-Dichloroethene | | 1 | 0.25 | 0.014 U | 0.011 U | 0.013 U |
| cis-1,3-Dichloropropylene | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| trans-1,2-Dichloroethene | | 1 | 0.3 | 0.014 U | 0.011 U | 0.013 U |
| trans-1,3-Dichloropropene | | 1 | NC | 0.014 U | 0.011 U | 0.013 U |
| Total VOCs | | 10 | NC | 0.278 | 0.042 | 0.153 |

NOTES: U - Not detected, J - Estimated value, --- - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.



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Table 5
Hanna Furnace Subparcel 2
Surface Soil Samples
Semivolatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended | SB-01 | SB-02 | SB-03 | SB-04 | SB-05 | SB-06 | SB-07 | SB-08 |
|------------------------------|--------------|----------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 0.0 - 0.5 ft |
| Sample Date | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Matrix | Matrix | | | SOLID |
| 1,1'-Biphenyl | | NC | NC | 1.1 J | 0.34 U | 0.39 U | 0.14 J | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,2'-oxybis(1-Chloropropane) | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,4,5-Trichlorophenol | | NC | 0.1 | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 2,4,6-Trichlorophenol | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,4-Dichlorophenol | | NC | 0.4 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,4-Dimethylphenol | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,4-Dinitrophenol | | NC | 0.2 | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 2,4-Dinitrotoluene | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2,6-Dinitrotoluene | | NC | 1 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2-Chloronaphthalene | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2-Chlorophenol | | NC | 0.8 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2-Methylnaphthalene | | NC | 36.4 | 5 J | 0.087 J | 0.13 J | 0.97 | 0.33 U | 0.19 J | 0.11 J | 0.33 U |
| 2-Methylphenol | | NC | 0.1 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 2-Nitroaniline | | NC | 0.43 | 10 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 2-Nitrophenol | | NC | 0.33 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 3,3-Dichlorobenzidine | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 3-Nitroaniline | | NC | 0.5 | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 4,6-Dinitro-2-methylphenol | | NC | NC | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 4-Bromophenyl phenyl ether | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 4-Chloro-3-methylphenol | | NC | 0.24 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 4-Chloroaniline | | NC | 0.22 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 4-Chlorophenyl phenyl ether | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 4-Methylphenol | | NC | 0.9 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| 4-Nitroaniline | | NC | NC | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| 4-Nitrophenol | | NC | 0.1 | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| Acenaphthene | | NC | 50 | 7.5 J | 0.062 J | 0.39 U | 0.21 J | 0.33 U | 0.37 U | 0.18 J | 0.33 U |
| Acenaphthylene | | NC | 41 | 17 J | 0.11 J | 0.45 | 0.43 | 0.33 U | 0.59 | 0.96 | 0.33 U |
| Acetophenone | | NC | NC | 1.5 J | 0.34 U | 0.068 J | 0.34 U | 0.33 U | 0.079 J | 0.38 U | 0.33 U |
| Anthracene | | NC | 50 | 34 J | 0.19 J | 0.46 | 1.4 | 0.33 U | 0.66 | 0.99 | 0.33 U |
| Atrazine | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Benzo(a)anthracene | | NC** | 0.224** | (270 J) | (0.89) | (0.68) | (1.2 J) | 0.33 U | (0.64) | (5.7 J) | 0.086 J |
| Benzaldehyde | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Benzo(a)pyrene | | NC** | 0.061** | (240 J) | (0.91 J) | (0.6 J) | (1.4 J) | 0.034 J | (0.56 J) | (5.6 J) | (0.077 J) |
| Benzo(b)fluoranthene | | NC** | 0.224** | (270 J) | (1.2 J) | (0.62 J) | (2.2 J) | 0.065 J | (0.66 J) | (5.9 J) | 0.11 J |
| Benzo(ghi)perylene | | NC | 50 | (75 J) | 0.27 J | 0.47 J | 0.7 J | 0.33 U | 0.35 J | 1.7 J | 0.045 J |

NOTES: U - Not detected, J - Estimated value, --- - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 ** - Carcinogenic PAH



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Table 5
Hanna Furnace Subparcel 2
Surface Soil Samples
Semivolatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended Soil Cleanup | SB-01 | SB-02 | SB-03 | SB-04 | SB-05 | SB-06 | SB-07 | SB-08 |
|------------------------------|--------------|----------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | | 0.0 - 0.5 ft |
| | Sample Date | | | 07/31/2001 | 08/10/2001 | 08/01/2001 | 08/09/2001 | 08/09/2001 | 08/01/2001 | 08/09/2001 | 08/02/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID |
| Benzo(k)fluoranthene | | NC** | 0.224** | (330 J) | (1 J) | (0.57 J) | (1.2 J) | 0.049 J | (0.56 J) | (7.6 J) | 0.13 J |
| Bis (2-chloroethoxy) methane | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Bis (2-chloroethyl) ether | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Bis(2-ethylhexyl)phthalate | | NC | 50 | 2.9 J | 0.61 | 0.048 J | 0.13 J | 0.48 | 0.26 J | 1.1 J | 0.25 J |
| Butyl benzyl phthalate | | NC | 50 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Caprolactam | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Carbazole | | NC | NC | 6.6 J | 0.074 J | 0.081 J | 0.16 J | 0.33 U | 0.19 J | 0.42 | 0.33 U |
| Chrysene | | NC** | 0.4** | (270 J) | (1 J) | (0.78 J) | (1.1 J) | 0.053 J | (0.68 J) | (6.1 J) | 0.11 J |
| Di-n-butyl phthalate | | NC | 8.1 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Di-n-octyl phthalate | | NC | 50 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Dibenzo(a,h)anthracene | | NC** | 0.014** | (37 J) | 0.34 U | (0.25 J) | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Dibenzofuran | | NC | 6.2 | (9.2 J) | 0.058 J | 0.081 J | 0.85 | 0.33 U | 0.074 J | (1.1 J) | 0.33 U |
| Diethyl phthalate | | NC | 7.1 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Dimethyl phthalate | | NC | 2 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Fluoranthene | | NC | 50 | (460 J) | 1.6 | 1.2 | 1.5 | 0.084 J | 0.7 | 8.8 | 0.19 J |
| Fluorene | | NC | 50 | 7.9 J | 0.061 J | 0.39 U | 0.18 J | 0.33 U | 0.37 U | 0.17 J | 0.054 J |
| Hexachlorobenzene | | NC | 0.41 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Hexachlorobutadiene | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Hexachlorocyclopentadiene | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Hexachloroethane | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Indeno(1,2,3-cd)pyrene | | NC** | 3.2** | (110 J) | 0.48 J | 0.64 J | 0.94 J | 0.036 J | 0.47 J | 2.9 J | 0.068 J |
| Isophorone | | NC | 4.4 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| N-Nitrosodipropylamine | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| N-Nitrosodiphenylamine | | NC | NC | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Naphthalene | | NC | 13 | 8.1 J | 0.084 J | 0.11 J | 1.1 | 0.33 U | 0.17 J | 0.11 J | 0.33 U |
| Nitrobenzene | | NC | 0.2 | 10 U | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | 0.33 U |
| Pentachlorophenol | | NC | 1 | 26 U | 0.84 U | 0.98 U | 0.86 U | 0.83 U | 0.92 U | 0.95 U | 0.83 U |
| Phenanthrene | | NC | 50 | (170 J) | 0.77 | 0.48 | 1.8 | 0.034 J | 0.36 J | 4.6 | 0.2 J |
| Phenol | | NC | 0.03 | (1.2 J) | 0.34 U | 0.39 U | 0.34 U | 0.33 U | 0.37 U | 0.38 U | (0.097 J) |
| Pyrene | | NC | 50 | (460 J) | 1.6 J | 0.92 | 2.3 | 0.063 J | 0.71 | 11 J | 0.29 J |
| Total carcinogenic PAHs | | NC | 10 | (1527) | 5.48 | 4.14 | 8.04 | 0.237 | 3.75 | (34.9) | 0.581 |
| Total PAHs | | NC | 500 | (2771.5) | 10.314 | 8.36 | 18.33 | 0.42 | 7.48 | 63.52 | 1.36 |
| Total SVOCs | | 500 | NC | [2794] | 11.056 | 8.638 | 19.81 | 0.9 | 8.083 | 65.19 | 1.775 |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 ** - Carcinogenic PAH

Table 5
Hanna Furnace Subparcel 2
Surface Soil Samples
Semivolatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | SB-09 | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15 | SB-17 |
|------------------------------|-----------|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | 0.0 - 0.5 ft |
| Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Matrix | | | SOLID | SOLID | SOLID | SOLID | SOLID | SOLID | SOLID | SOLID | SOLID |
| 1,1'-Biphenyl | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.15 J | 0.35 U | 0.04 J | 0.33 U | 0.061 J |
| 1,2'-oxybis(1-Chloropropane) | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2,4,5-Trichlorophenol | | NC | 0.1 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 2,4,6-Trichlorophenol | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2,4-Dichlorophenol | | NC | 0.4 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2,4-Dimethylphenol | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2,4-Dinitrophenol | | NC | 0.2 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 2,4-Dinitrotoluene | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2,6-Dinitrotoluene | | NC | 1 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2-Chloronaphthalene | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2-Chlorophenol | | NC | 0.8 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2-Methylnaphthalene | | NC | 36.4 | 0.12 J | 0.12 J | 0.33 U | 1.2 | 0.094 J | 0.21 J | 0.07 J | 0.27 J |
| 2-Methylphenol | | NC | 0.1 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 2-Nitroaniline | | NC | 0.43 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 2-Nitrophenol | | NC | 0.33 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 3,3-Dichlorobenzidine | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 3-Nitroaniline | | NC | 0.5 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 4,6-Dinitro-2-methylphenol | | NC | NC | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 4-Bromophenyl phenyl ether | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 4-Chloro-3-methylphenol | | NC | 0.24 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 4-Chloroaniline | | NC | 0.22 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 4-Chlorophenyl phenyl ether | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 4-Methylphenol | | NC | 0.9 | 1.1 U | 0.36 U | 0.33 U | 0.045 J | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| 4-Nitroaniline | | NC | NC | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| 4-Nitrophenol | | NC | 0.1 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| Acenaphthene | | NC | 50 | 0.2 J | 0.065 J | 0.034 J | 0.082 J | 0.071 J | 0.11 J | 0.33 U | 0.09 J |
| Acenaphthylene | | NC | 41 | 1.5 | 1.8 | 0.33 U | 0.1 J | 0.15 J | 1.2 | 0.33 U | 1.3 |
| Acetophenone | | NC | NC | 1.1 U | 0.063 J | 0.034 J | 0.35 U | 0.043 J | 0.077 J | 0.043 J | 0.079 J |
| Anthracene | | NC | 50 | 1.4 | 2.1 | 0.33 U | 0.26 J | 0.22 J | 1.3 | 0.052 J | 1.4 |
| Atrazine | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Benzo(a)anthracene | | NC** | 0.224** | (3.3) | (2.9 J) | 0.099 J | (1.3 J) | (0.64) | (1.3 J) | 0.19 J | (1.3 J) |
| Benzaldehyde | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Benzo(a)pyrene | | NC** | 0.061** | (3.2) | (2.3 J) | (0.16 J) | (1.6 J) | (0.55 J) | (1.5 J) | (0.19 J) | (1.4 J) |
| Benzo(b)fluoranthene | | NC** | 0.224** | (3) | (2.4 J) | 0.14 J | (2.2 J) | (0.54 J) | (2.2 J) | (0.27 J) | (2.2 J) |
| Benzo(ghi)perylene | | NC | 50 | 3.8 | 0.65 J | 0.066 J | 1.9 J | 0.6 J | 0.43 J | 0.088 J | 0.56 J |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 ** - Carcinogenic PAH



Table 5
Hanna Furnace Subparcel 2
Surface Soil Samples
Semivolatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended | SB-09 | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15 | SB-17 |
|------------------------------|--------------|----------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 0.0 - 0.5 ft |
| | Sample Date | | | 07/31/2001 | 07/31/2001 | 08/02/2001 | 08/02/2001 | 07/30/2001 | 07/31/2001 | 08/02/2001 | 08/01/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID |
| Benzo(k)fluoranthene | | NC** | 0.224** | (2.9) | (2.3 J) | 0.16 J | (2.1 J) | (0.48 J) | (1.9 J) | 0.21 J | (1.3 J) |
| Bis (2-chloroethoxy) methane | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Bis (2-chloroethyl) ether | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Bis(2-ethylhexyl)phthalate | | NC | 50 | 0.3 J | 0.36 U | 1.2 | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Butyl benzyl phthalate | | NC | 50 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.076 J | 0.66 | 0.27 J |
| Caprolactam | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Carbazole | | NC | NC | 0.36 J | 0.16 J | 0.33 U | 0.12 J | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Chrysene | | NC** | 0.4** | (3.5) | (3.1) | 0.11 J | (1.5 J) | (0.72 J) | (1.6 J) | 0.23 J | (1.5 J) |
| Di-n-butyl phthalate | | NC | 8.1 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.2 J | 0.33 U | 0.38 U |
| Di-n-octyl phthalate | | NC | 50 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Dibenzo(a,h)anthracene | | NC** | 0.014** | (1.6) | (0.48 J) | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Dibenzofuran | | NC | 6.2 | 0.13 J | 0.064 J | 0.33 U | 0.23 J | 0.062 J | 0.11 J | 0.033 J | 0.14 J |
| Diethyl phthalate | | NC | 7.1 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Dimethyl phthalate | | NC | 2 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Fluoranthene | | NC | 50 | 5.5 | 4.1 | 0.11 J | 0.63 | 1.2 | 1.9 | 0.33 J | 1.8 |
| Fluorene | | NC | 50 | 0.17 J | 0.048 J | 0.33 U | 0.11 J | 0.06 J | 0.095 J | 0.33 U | 0.38 U |
| Hexachlorobenzene | | NC | 0.41 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Hexachlorobutadiene | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Hexachlorocyclopentadiene | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Hexachloromethane | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Indeno(1,2,3-cd)pyrene | | NC** | 3.2** | (4.3) | 1.1 J | 0.12 J | 2 J | 0.68 J | 0.8 J | 0.14 J | 0.81 J |
| Isophorone | | NC | 4.4 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| N-Nitrosodipropylamine | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| N-Nitrosodiphenylamine | | NC | NC | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Naphthalene | | NC | 13 | 0.11 J | 0.094 J | 0.33 U | 0.65 | 0.082 J | 0.22 J | 0.056 J | 0.33 J |
| Nitrobenzene | | NC | 0.2 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Pentachlorophenol | | NC | 1 | 2.7 U | 0.92 U | 0.83 U | 0.89 U | 0.89 U | 0.89 U | 0.83 U | 0.95 U |
| Phenanthrene | | NC | 50 | 2.2 | 1.1 | 0.057 J | 1.1 | 0.75 | 1.2 | 0.27 J | 0.77 |
| Phenol | | NC | 0.03 | 1.1 U | 0.36 U | 0.33 U | 0.35 U | 0.35 U | 0.35 U | 0.33 U | 0.38 U |
| Pyrene | | NC | 50 | 4.7 | 1.8 J | 0.11 J | 1.8 J | 0.93 | 0.97 J | 0.31 J | 0.76 J |
| Total carcinogenic PAHs | | NC | 10 | (21.8) | (14.58) | 0.789 | (10.7) | 3.87 | 9.62 | 1.289 | 8.84 |
| Total PAHs | | NC | 500 | 41.5 | 26.437 | 1.166 | 18.532 | 8.027 | 17.255 | 2.465 | 16.22 |
| Total SVOCs | | 500 | NC | 42.29 | 26.744 | 2.4 | 19.077 | 8.298 | 17.988 | 3.201 | 17.02 |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 ** - Carcinogenic PAH



Table 7
Hanna Furnace Subparcel 2
Surface Soil Samples
Inorganic Data

| Compound | Sample ID | Site-Specific | NYS TAGM 4046 | SB-01 | SB-02 | SB-03 | SB-04 | SB-05 | SB-06 | SB-07 | SB-08 |
|-----------|--------------|---------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Action Level | Recommended Soil Cleanup | 0.0 - 0.5 ft |
| | Sample Date | | | 07/31/2001 | 08/10/2001 | 08/01/2001 | 08/09/2001 | 08/09/2001 | 08/01/2001 | 08/09/2001 | 08/02/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID |
| Aluminum | | NC | SB | 26500 | 8260 | 30800 | 19800 | 2010 | 28500 | 25200 | 3320 |
| Antimony | | NC | SB | 8.0 J | 1.1 J | 11.2 J | 12.6 UJ | 10.6 UJ | 19.7 J | 13.4 UJ | 12.5 UJ |
| Arsenic | | 50 | 7.5 | (13.8 J) | (9.0) | (12.0 J) | (17.6) | 1.8 U | (12.8 J) | 5.3 | 1.3 |
| Barium | | 500 | 300 | 225 | 87.9 | 272 | 150 | 26.1 | 265 | 238 | 28.9 |
| Beryllium | | NC | 0.16 | (5.1) | (1.1) | (5.8) | (3.6) | 0.077 | (5.5) | (4.7) | (0.20) |
| Cadmium | | 20 | 10* | 2.0 | 0.46 | 2.1 | 1.0 U | 0.14 | 2.7 | 1.1 U | 0.35 |
| Calcium | | NC | SB | 161000 J | 47600 J | 169000 J | 82700 J | 1130 J | 159000 J | 149000 J | 5330 |
| Chromium | | 200 | 50* | 17.0 | 20.8 J | 17.0 | 20.9 J | 8.8 J | 19.6 | 27.4 J | 10.6 |
| Cobalt | | NC | 30 | 3.7 | 2.4 | 5.1 | 5.2 | 0.52 | 5.4 | 2.9 | 1.9 |
| Copper | | NC | 25 | (61.0 J) | (64.5 J) | (32.1 J) | (90.0 J) | 5.1 J | (60.2 J) | (69.9 J) | 23.1 J |
| Cyanide | | 50 | NC | — | — | — | — | — | — | — | — |
| Iron | | NC | 2000 | (30100 J) | (28800) | (41200 J) | (78600) | 1800 | (59400 J) | (41800) | (12000) |
| Lead | | 1000 | 1000* | 152 J | 190 | 68.9 J | 119 | 21.8 | 109 J | 117 | 41.5 J |
| Magnesium | | NC | SB | 17200 J | 9230 J | 15400 J | 5920 J | 647 J | 19900 J | 16300 J | 2410 |
| Manganese | | NC | SB | 2450 J | 1180 | 1810 J | 2610 | 33.5 | 2680 J | 4240 | 189 |
| Mercury | | 1 | 0.1 | (0.14) | (0.29) | 0.089 | 0.093 | 0.099 U | 0.094 U | (0.17) | 0.070 |
| Nickel | | NC | 13 | 8.1 | (13.1) | 7.1 | (41.4) | 2.1 | 7.2 | (47.2) | 8.6 |
| Potassium | | NC | SB | 1570 | 2320 J | 1410 | 870 J | 1700 J | 2160 | 1910 J | 1180 |
| Selenium | | 50 | 2 | 0.83 UJ | 1.1 UJ | 0.96 UJ | 1.0 UJ | 0.89 UJ | (10.5 J) | 1.1 UJ | 1.0 UJ |
| Silver | | 1000 | SB | 1.5 | 2.1 U | 1.4 | 2.1 U | 1.8 U | 1.6 | 2.2 U | 2.1 U |
| Sodium | | NC | SB | 827 | 543 | 601 | 242 | 134 | 916 | 601 | 161 |
| Thallium | | NC | SB | 1.7 UJ | 2.1 UJ | 1.9 UJ | 2.1 UJ | 1.8 UJ | 2.0 UJ | 2.2 UJ | 1.8 J |
| Vanadium | | NC | 150 | 8.3 U | 17.4 | 9.6 U | 41.3 | 3.3 | 10.0 U | 25.9 | 1.1 |
| Zinc | | NC | 20 | (230 J) | (304 J) | (170 J) | (483 J) | (96.8 J) | (289 J) | (296 J) | (88.0 J) |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 * - indicates NYSDEC revised values for nonresidential sites which have not yet been incorporated into TAGM 4046.
 SB - Site Background.



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Table 7
Hanna Furnace Subparcel 2
Surface Soil Samples
Inorganic Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | SB-09 | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15 | SB-16 |
|-----------|--------------|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | 0.0 - 0.5 ft |
| Units | Sample Depth | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Matrix | Sample Date | | | | | | | | | | |
| Aluminum | | NC | SB | 31600 | 12000 | 2030 | 9100 | 8540 | 8650 | 2390 | 23000 |
| Antimony | | NC | SB | 6.2 J | 30.2 J | 10.8 UJ | 51.5 J | 25.8 J | 31.1 J | 33.8 J | 21.3 J |
| Arsenic | | 50 | 7.5 | (18.3 J) | (14.7 J) | 1.8 U | (22.4) | 1.9 U | 2.9 J | 3.3 | (17.2 J) |
| Barium | | 500 | 300 | 284 | 145 | 20.9 | 299 | 82.4 | 177 | 35.9 | 247 |
| Beryllium | | NC | 0.16 | (6.7) | (1.9) | 0.16 | (1.3) | (1.6) | (1.5) | (0.48) | (4.2) |
| Cadmium | | 20 | 10* | 2.1 | 6.6 | 0.38 | 9.1 | 2.0 | 6.0 | 3.1 | 5.7 |
| Calcium | | NC | SB | 185000 J | 47900 J | 7110 | 66000 | 58900 J | 35600 J | 30000 | 145000 J |
| Chromium | | 200 | 50* | 18.2 | 27.1 | 9.3 | (416 J) | 11.7 | 41.6 | 32.0 | 32.8 |
| Cobalt | | NC | 30 | 4.2 | 6.9 | 1.1 | 10.2 | 6.2 | 7.1 | 4.2 | 5.5 |
| Copper | | NC | 25 | (96.6 J) | (150 J) | 16.4 J | (4310 J) | (158 J) | (1130 J) | (69.1 J) | (664 J) |
| Cyanide | | 50 | NC | — | — | — | — | — | — | — | 1.5 J |
| Iron | | NC | 2000 | (28700 J) | (94600 J) | (10500) | (125000) | (84100 J) | (87600 J) | (110000) | (68700 J) |
| Lead | | 1000 | 1000* | 169 J | 408 J | 49.4 J | (1120 J) | 51.1 J | 463 J | 353 J | 326 J |
| Magnesium | | NC | SB | 30200 J | 5630 J | 906 | 13900 | 3430 J | 4490 J | 6980 | 30900 J |
| Manganese | | NC | SB | 2530 J | 3860 J | 148 | 3000 | 1610 J | 2700 J | 1730 | 3170 J |
| Mercury | | 1 | 0.1 | (0.47) | (3.1 J) | 0.072 | (0.67) | (0.30) | (1.8 J) | 0.090 U | (14.4 J) |
| Nickel | | NC | 13 | 8.2 | (19.0) | 2.2 | (33.6) | 1.3 | (31.5) | (17.4) | (14.6) |
| Potassium | | NC | SB | 2310 | 1910 | 333 | 679 | 886 | 1050 | 281 | 2580 |
| Selenium | | 50 | 2 | (2.4 J) | 0.98 UJ | 0.90 UJ | 1.1 UJ | 0.96 UJ | 0.90 UJ | 0.95 UJ | 1.9 J |
| Silver | | 1000 | SB | 2.1 | 2.0 | 1.8 U | 5.3 | 1.9 U | 1.1 | 1.9 U | 2.3 |
| Sodium | | NC | SB | 914 | 432 | 359 | 326 | 215 | 247 | 113 | 956 |
| Thallium | | NC | SB | 2.1 UJ | 1.5 J | 1.5 J | 9.4 J | 7.5 J | 4.1 J | 10.9 J | 3.1 UJ |
| Vanadium | | NC | 150 | 10.6 U | 9.8 U | 0.30 | 11.1 U | 9.6 U | 9.0 U | 9.5 U | 10.6 U |
| Zinc | | NC | 20 | (196 J) | (1340 J) | (67.3 J) | (1130 J) | (342 J) | (1140 J) | (99.1 J) | (892 J) |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 * - indicates NYSDEC revised values for nonresidential sites which have not yet been incorporated into TAGM 4046.
 SB - Site Background.



Table 8
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Volatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended | SB-09 | SB-13 | SB-14 | SB-16 | SB-18 |
|---------------------------------------|--------------|----------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 6.0 - 8.0 ft | 0.5 - 2.0 ft | 6.0 - 8.0 ft | 2.0 - 4.0 ft | 2.0 - 4.0 ft |
| | Sample Date | | | 07/31/2001 | 07/30/2001 | 07/31/2001 | 08/01/2001 | 07/30/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID | SOLID | SOLID | SOLID | SOLID |
| 1,1,1-Trichloroethane | | 1 | 0.8 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,1,2-Tetrachloroethane | | 1 | 0.6 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 1 | 6 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,1,2-Trichloroethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,1-Dichloroethane | | 1 | 0.2 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,1-Dichloroethene | | 1 | 0.4 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2,4-Trichlorobenzene | | 1 | 3.4 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2-Dibromo-3-chloropropane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2-Dibromoethane (EDB) | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2-Dichlorobenzene | | 1 | 7.9 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2-Dichloroethane | | 1 | 0.1 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,2-Dichloropropane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,3-Dichlorobenzene | | 1 | 1.6 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 1,4-Dichlorobenzene | | 1 | 8.5 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 2-Butanone (MEK) | | 1 | 0.3 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 2-Hexanone | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| 4-Methyl-2-pentanone (MIBK) | | 1 | 1 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.004 J |
| Acetone | | 1 | 0.2 | 0.06 | 0.033 | 0.07 J | 0.035 | 0.079 |
| Benzene | | 1 | 0.06 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Bromodichloromethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Bromoform | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Bromomethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Carbon disulfide | | 1 | 2.7 | 0.024 J | 0.003 J | 0.028 U | 0.015 U | 0.031 |
| Carbon tetrachloride | | 1 | 0.6 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Chlorobenzene | | 1 | 1.7 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Chloroethane | | 1 | 1.9 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Chloroform | | 1 | 0.3 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Chloromethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Cyclohexane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Dibromochloromethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Dichlorodifluoromethane | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Ethylbenzene | | 1 | 5.3 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Isopropylbenzene | | 1 | 5 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Methyl acetate | | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |
| Methyl tert butyl ether | | 1 | 0.12 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U |

NOTES: U - Not detected, J - Estimated value, --- Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.



O'BRIEN & GERE
ENGINEERS, INC.

Table 8
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Volatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | SB-09 | SB-13 | SB-14 | SB-16 | SB-18 |
|---------------------------|-----------|----------------------------|--|---------|---------|---------|---------|-------|
| Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Matrix | | | SOLID | SOLID | SOLID | SOLID | SOLID | SOLID |
| Methylcyclohexane | 1 | NC | 0.025 U | 0.018 U | 0.18 J | 0.006 J | 0.013 U | |
| Methylene chloride | 1 | 0.1 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| Styrene | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| Tetrachloroethene | 1 | 1.4 | 0.025 U | 0.018 U | 0.42 J | 0.015 U | 0.013 U | |
| Toluene | 1 | 1.5 | 0.025 U | 0.018 U | 0.005 J | 0.004 J | 0.002 J | |
| Trichloroethene | 1 | 0.7 | 0.025 U | 0.018 U | 0.004 J | 0.015 U | 0.013 U | |
| Trichlorofluoromethane | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| Vinyl chloride | 1 | 0.2 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| Xylene (total) | 1 | 1.2 | 0.025 U | 0.018 U | 0.081 J | 0.003 J | 0.013 U | |
| cis-1,2-Dichloroethene | 1 | 0.25 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| cis-1,3-Dichloropropylene | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| trans-1,2-Dichloroethene | 1 | 0.3 | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| trans-1,3-Dichloropropene | 1 | NC | 0.025 U | 0.018 U | 0.028 U | 0.015 U | 0.013 U | |
| Total VOCs | 10 | NC | 0.084 | 0.036 | 0.777 | 0.05 | 0.119 | |

NOTES: U - Not detected, J - Estimated value, -- - Not analyzed.
NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.



O'BRIEN & GERE
ENGINEERS, INC.

Table 9
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Semivolatile Organic Compound Data

| Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | COMP-38-39 | COMP-40-41 | SB-06 | SB-08 | SB-09 | SB-10 | SB-13 | SB-14 |
|------------------------------|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sample Depth | Level | Soil Cleanup | 1.0 - 1.5 ft | 1.5 - 2.0 ft | 4.0 - 6.0 ft | 4.0 - 6.0 ft | 6.0 - 8.0 ft | 0.5 - 2.0 ft | 0.5 - 2.0 ft | 6.0 - 8.0 ft |
| Sample Date | | | 03/26/2002 | 03/26/2002 | 08/01/2001 | 08/02/2001 | 07/31/2001 | 07/31/2001 | 07/30/2001 | 07/31/2001 |
| Units | mg/Kg | mg/Kg | mg/kg | mg/kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Compound | Matrix | | SOLID |
| 1,1'-Biphenyl | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,2'-oxybis(1-Chloropropane) | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,4,5-Trichlorophenol | NC | 0.1 | 0.39 U | 0.45 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 2,4,6-Trichlorophenol | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,4-Dichlorophenol | NC | 0.4 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,4-Dimethylphenol | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,4-Dinitrophenol | NC | 0.2 | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 2,4-Dinitrotoluene | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2,6-Dinitrotoluene | NC | 1 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2-Chloronaphthalene | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2-Chlorophenol | NC | 0.8 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2-Methylnaphthalene | NC | 16.4 | 0.04 J | 0.071 J | 0.55 U | 0.36 U | 0.63 U | 0.063 J | 0.48 U | 2.3 |
| 2-Methylphenol | NC | 0.1 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 2-Nitroaniline | NC | 0.43 | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 2-Nitrophenol | NC | 0.33 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 3,3-Dichlorobenzidine | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 3-Nitroaniline | NC | 0.5 | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 4,6-Dinitro-2-methylphenol | NC | NC | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 4-Bromophenyl phenyl ether | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 4-Chloro-3-methylphenol | NC | 0.24 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 4-Chloroaniline | NC | 0.22 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 4-Chlorophenyl phenyl ether | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 4-Methylphenol | NC | 0.9 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| 4-Nitroaniline | NC | NC | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| 4-Nitrophenol | NC | 0.1 | 0.95 U | 1.1 U | 1.4 U | 0.91 U | 1.6 U | 0.94 U | 1.2 U | 1.7 U |
| Acenaphthene | NC | 30 | 0.39 U | 0.015 J | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Acenaphthylene | NC | 41 | 0.39 U | 0.45 U | 0.067 J | 0.36 U | 0.63 U | 0.28 J | 0.48 U | 0.66 U |
| Acetophenone | NC | NC | 0.39 U | 0.45 U | 0.056 J | 0.045 J | 0.12 J | 0.37 U | 0.055 J | 0.66 U |
| Anthracene | NC | 50 | 0.39 U | 0.04 J | 0.55 U | 0.36 U | 0.63 U | 0.21 J | 0.48 U | 0.66 U |
| Azazine | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Benzo(a)anthracene | NC** | 0.224** | 0.025 J | 0.11 J | 0.11 J | 0.064 J | 0.14 J | (0.45) | 0.48 U | 0.66 U |
| Benzaldehyde | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Benzo(a)pyrene | NC** | 0.061** | 0.015 J | 0.052 J | (0.14 J) | (0.076 J) | (0.1 J) | (0.43) | 0.48 U | 0.66 U |
| Benzo(b)fluoranthene | NC** | 0.224** | 0.015 J | 0.053 J | 0.17 J | 0.1 J | 0.1 J | (0.44) | 0.48 U | 0.66 U |
| Benzo(ghi)perylene | NC | 50 | 0.01 J | 0.037 J | 0.12 J | 0.038 J | 0.63 U | 0.52 | 0.48 U | 0.66 U |

NOTES: U - Not detected, J - Estimated value, -- Not analyzed.
NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
** - Carcinogenic PAH



O'BRIEN & GERE
ENGINEERS, INC.

Table 9
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Semivolatile Organic Compound Data

| Compound | Sample ID | Site-Specific Action Level | NYS TAGM 4046 Recommended Soil Cleanup | COMP-38-39 | COMP-40-41 | SB-06 | SB-08 | SB-09 | SB-10 | SB-13 | SB-14 |
|------------------------------|--------------|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | | 1.0 - 1.5 ft | 1.5 - 2.0 ft | 4.0 - 6.0 ft | 4.0 - 6.0 ft | 6.0 - 8.0 ft | 0.5 - 2.0 ft | 0.5 - 2.0 ft | 6.0 - 8.0 ft |
| | Sample Date | | | 03/26/2002 | 03/26/2002 | 08/01/2001 | 08/02/2001 | 07/31/2001 | 07/31/2001 | 07/30/2001 | 07/31/2001 |
| | Units | mg/Kg | mg/Kg | mg/kg | mg/kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID |
| Benzo(k)fluoranthene | | NC** | 0.224** | 0.015 J | 0.058 J | 0.15 J | 0.095 J | 0.11 J | (0.44) | 0.48 U | 0.66 UJ |
| Bis (2-chloroethoxy) methane | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Bis (2-chloroethyl) ether | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Bis(2-ethylhexyl)phthalate | | NC | 50 | 0.017 J | 0.15 J | 0.35 J | 0.36 U | 0.33 J | 0.12 J | 0.48 U | 0.66 UJ |
| Butyl benzyl phthalate | | NC | 50 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Caprolactam | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Carbazole | | NC | NC | 0.39 U | 0.014 J | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Chrysene | | NC** | 0.4** | 0.036 J | 0.12 J | 0.14 J | 0.1 J | 0.14 J | (0.32) | 0.48 U | 0.66 UJ |
| Di-n-butyl phthalate | | NC | 8.1 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Di-n-octyl phthalate | | NC | 50 | 0.017 J | 0.02 J | 0.35 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Dibenzo(a,h)anthracene | | NC** | 0.014** | 0.39 U | (0.026 J) | 0.55 U | 0.36 U | 0.63 U | (0.28 J) | 0.48 U | 0.66 UJ |
| Dibenzofuran | | NC | 6.2 | 0.016 J | 0.068 J | 0.35 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Diethyl phthalate | | NC | 7.1 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Dimethyl phthalate | | NC | 2 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Fluoranthene | | NC | 50 | 0.037 J | 0.31 J | 0.14 J | 0.12 J | 0.21 J | 0.47 | 0.058 J | 0.66 UJ |
| Fluorene | | NC | 50 | 0.39 U | 0.019 J | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Hexachlorobenzene | | NC | 0.41 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Hexachlorobutadiene | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Hexachlorocyclopentadiene | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Hexachloroethene | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Indeno(1,2,3-cd)pyrene | | NC** | 3.2** | 0.39 U | 0.031 J | 0.13 J | 0.042 J | 0.63 U | 0.67 | 0.48 U | 0.66 UJ |
| Isophorone | | NC | 4.4 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| N-Nitrosodipropylamine | | NC | NC | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| N-Nitrosodiphenylamine | | NC | NC | 0.39 U | 0.026 J | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 UJ |
| Naphthalene | | NC | 13 | 0.02 J | 0.043 J | 0.55 U | 0.36 U | 0.63 U | 0.043 J | 0.48 U | 0.66 U |
| Nitrobenzene | | NC | 0.2 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Pentachlorophenol | | NC | 1 | 0.95 UJ | 1.1 UJ | 1.4 UJ | 0.91 U | 1.6 UJ | 0.94 UJ | 1.2 UJ | 1.7 UJ |
| Phenanthrene | | NC | 50 | 0.086 J | 0.56 | 0.55 U | 0.096 J | 0.16 J | 0.18 J | 0.035 J | 0.66 UJ |
| Phenol | | NC | 0.03 | 0.39 U | 0.45 U | 0.55 U | 0.36 U | 0.63 U | 0.37 U | 0.48 U | 0.66 U |
| Pyrene | | NC | 50 | 0.031 J | 0.24 J | 0.13 J | 0.16 J | 0.18 J | 0.43 | 0.06 J | 0.66 UJ |
| Total carcinogenic PAHs | | NC | 10 | 0.106 | 0.45 | 0.84 | 0.477 | 0.59 | 3.23 | — | — |
| Total PAHs | | NC | 500 | 0.33 | 1.785 | 1.297 | 0.891 | 1.14 | 5.426 | 0.173 | 2.3 |
| Total SVOCs | | 500 | NC | 0.38 | 2.063 | 1.703 | 1.936 | 1.59 | 5.546 | 0.228 | 2.3 |

NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 ** - Carcinogenic PAH



O'BRIEN & GERE
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Table 11
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Inorganic Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended | SB-01 | SB-02 | SB-03 | SB-04 | SB-05 | SB-06 | SB-07 | SB-08 |
|-----------|--------------|----------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 4.0 - 6.0 ft | 6.0 - 8.0 ft | 4.0 - 6.0 ft | 2.0 - 4.0 ft | 4.0 - 6.0 ft |
| | Sample Date | | | 07/31/2001 | 08/10/2001 | 08/01/2001 | 08/09/2001 | 08/09/2001 | 08/01/2001 | 08/09/2001 | 08/02/2001 |
| | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| | Matrix | | | SOLID |
| Aluminum | | NC | SB | 56000 | 13500 J | 47900 | 40300 | 5120 | 36900 | 39000 | 10200 |
| Antimony | | NC | SB | 24.2 UJ | 23.0 UJ | 24.5 UJ | 16.3 UJ | 0.96 J | 19.6 UJ | 18.1 UJ | 24.7 J |
| Arsenic | | 50 | 7.5 | (17.2 J) | (11.0 J) | (16.4 J) | 2.5 | 3.8 J | (19.6 J) | 3.0 U | 7.5 |
| Barium | | 500 | 300 | (500) | 97.3 J | (1658 J) | 291 | 64.1 | (722 J) | 214 | 133 |
| Beryllium | | NC | 0.16 | (10.1) | (2.5 J) | (11.4) | (7.5) | (0.75) | (8.0) | (6.8) | (1.1) |
| Cadmium | | 20 | 10* | 0.90 | 1.9 UJ | 0.42 | 1.4 U | 0.53 | 0.27 | 1.5 U | 3.2 |
| Calcium | | NC | SB | 266000 J | 83700 J | 263000 J | 236000 J | 22700 J | 184000 J | 197000 J | 53100 |
| Chromium | | 200 | 50* | 10.6 | 11.1 J | 6.9 | 2.6 J | 8.0 J | 5.2 | 3.9 J | 32.2 |
| Cobalt | | NC | 30 | 4.3 | 5.1 J | 3.5 | 1.4 | 0.80 | 2.2 | 1.8 | 9.0 |
| Copper | | NC | 25 | 10.1 UJ | (26.2 J) | 10.2 UJ | 14.0 J | (31.2 J) | 8.2 UJ | 4.0 J | (73.4 J) |
| Cyanide | | 50 | NC | 13.2 J | 7.7 J | 30.5 J | 32.3 | 7.8 J | 18.1 J | 0.28 | 14.0 J |
| Iron | | NC | 2000 | (24500 J) | (16500 J) | (4260 J) | (11900) | (9580) | (5690 J) | (13500) | (80500) |
| Lead | | 1000 | 1000* | 27.3 J | 25.1 J | 7.9 J | 18.9 | 102 | 5.1 J | 552 | 200 J |
| Magnesium | | NC | SB | 16800 J | 7620 J | 16900 J | 20800 J | 3690 J | 14600 J | 13300 J | 12000 |
| Manganese | | NC | SB | 1650 J | 670 J | 1940 J | 2120 | 428 | 1410 J | 2520 | 2350 |
| Mercury | | 1 | 0.1 | 0.20 U | 0.083 UJ | 0.20 U | 0.13 U | (0.19) | 0.15 U | 0.16 U | 0.072 |
| Nickel | | NC | 13 | 2.1 | 12.9 J | 0.52 | 2.4 | 4.5 | 4.3 | 1.0 | (15.1) |
| Potassium | | NC | SB | 975 | 1390 J | 748 | 2090 J | 1260 J | 1110 | 1600 J | 1340 |
| Selenium | | 50 | 2 | (6.8 J) | (41.9 J) | 2.0 UJ | (32.1 J) | 1.1 UJ | 1.6 UJ | (24.2 J) | 1.0 UJ |
| Silver | | 1000 | SB | 2.7 | 3.8 UJ | 4.1 U | 2.7 U | 2.2 U | 3.3 U | 3.0 U | 1.1 |
| Sodium | | NC | SB | 468 | 206 J | 293 | 601 | 196 | 416 | 622 | 376 |
| Thallium | | NC | SB | 4.0 UJ | 3.8 UJ | 4.1 UJ | 2.7 UJ | 2.2 UJ | 3.3 UJ | 3.0 UJ | 3.8 J |
| Vanadium | | NC | 150 | 20.2 U | 18.1 J | 9.8 | 11.4 | 8.7 | 4.1 | 14.0 | 10.5 U |
| Zinc | | NC | 20 | 40.3 UJ | (87.5 J) | 40.8 UJ | (53.1 J) | (519 J) | 32.7 UJ | (32.1 J) | (415 J) |

NOTES: U - Not detected, J - Estimated value, -- - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 * - Indicates NYSDEC revised values for nonresidential sites which have not yet been incorporated into TAGM 4046.
 SB - Site Background.



O'BRIEN & GERE
ENGINEERS, INC.

Table 11
Hanna Furnace Subparcel 2
Subsurface Soil Samples
Inorganic Data

| Compound | Sample ID | Site-Specific Action | NYS TAGM 4046 Recommended | SB-09 | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15 | SB-16 |
|-------------|--------------|----------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Sample Depth | Level | Soil Cleanup | 6.0 - 8.0 ft | 0.5 - 2.0 ft | 4.0 - 6.0 ft | 2.0 - 4.0 ft | 0.5 - 2.0 ft | 6.0 - 8.0 ft | 4.0 - 6.0 ft | 2.0 - 4.0 ft |
| Sample Date | Units | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Matrix | | | | SOLID |
| Aluminum | | NC | SB | 38200 | 10300 | 13400 J | 14100 | 29500 | 47800 | 25900 | 24700 |
| Antimony | | NC | SB | 20.2 UJ | 40.4 J | 16.1 UJ | 48.2 J | 17.5 J | 24.1 UJ | 24.5 J | 5.2 J |
| Arsenic | 50 | 7.5 | (15.4 J) | (10.3 J) | 6.6 J | (16.6) | (8.4 J) | (20.7 J) | (59.8 J) | (16.2 J) | |
| Barium | 300 | 300 | (348) | 200 | 77.6 J | 226 | 256 | (324) | 144 | 156 | |
| Beryllium | NC | 0.16 | (7.4) | (1.7) | (2.2 J) | (2.3) | (5.5) | (8.4) | (4.4) | (4.1) | |
| Cadmium | 20 | 10* | 0.56 | 4.5 | 0.40 J | 7.5 | 1.7 | 0.47 | 3.2 | 0.77 | |
| Calcium | NC | SB | 220000 J | 36900 J | 55600 J | 57500 | 182000 J | 211000 J | 160000 | 153000 J | |
| Chromium | 200 | 50* | 10.2 | 24.3 | 6.3 J | (88.8) | 9.3 | 7.1 | 39.3 | 7.5 | |
| Cobalt | NC | 30 | 3.0 | 7.4 | 2.9 J | 8.4 | 5.7 | 3.5 | 9.9 | 5.1 | |
| Copper | NC | 25 | 8.4 UJ | (88.7 J) | 8.7 UJ | (1530 J) | (165 J) | (72.2 J) | (62.7 J) | | |
| Cyanide | 50 | NC | 1.5 J | 0.90 J | 0.96 J | 5.0 J | 12.3 J | 8.6 J | 3.3 J | 2.2 J | |
| Iron | NC | 2000 | (11600 J) | (129000 J) | (21800 J) | (133000) | (57200 J) | (7120 J) | (79600) | (23300 J) | |
| Lead | 1000 | 1000* | 12.8 J | 146 J | 10.5 J | (11890 J) | 37.6 J | 15.9 J | 92.0 J | 56.7 J | |
| Magnesium | NC | SB | 15900 J | 3320 J | 6060 J | 9820 | 10500 J | 16600 J | 11000 | 37500 J | |
| Manganese | NC | SB | 3600 J | 2900 J | 809 J | 2480 | 1790 J | 2070 J | 3660 | 1080 J | |
| Mercury | 1 | 0.1 | 0.19 U | (0.44) | 0.13 UJ | (0.54) | (0.11) | 0.17 U | 0.12 U | (0.23) | |
| Nickel | NC | 13 | 13.4 U | 10.0 | 10.7 UJ | (15.4) | 10.6 U | 1.8 | (18.6) | 6.0 | |
| Potassium | NC | SB | 3090 | 1160 | 1080 J | 1010 | 703 | 1700 | 2030 | 2230 | |
| Selenium | 50 | 2 | (3.0 J) | 0.97 UJ | 1.3 UJ | 1.1 UJ | (2.1 J) | (6.8 J) | 1.3 UJ | 1.5 UJ | |
| Silver | 1000 | SB | 2.3 | 1.9 UJ | 2.7 UJ | 2.6 | 2.6 U | 4.0 UJ | 2.7 U | 3.0 UJ | |
| Sodium | NC | SB | 897 | 273 | 203 J | 295 | 284 | 500 | 370 | | |
| Thallium | NC | SB | 3.4 UJ | 9.0 J | 2.7 UJ | 12.2 J | 2.6 UJ | 4.0 UJ | 2.7 UJ | 3.0 UJ | |
| Vanadium | NC | 150 | 6.4 | 9.7 U | 13.4 UJ | 10.6 U | 13.2 U | 15.0 | 13.3 U | 14.9 U | |
| Zinc | NC | 20 | 33.6 UJ | (982 J) | (96.1 J) | (649 J) | (53.9 J) | 40.2 UJ | (242 J) | (259 J) | |

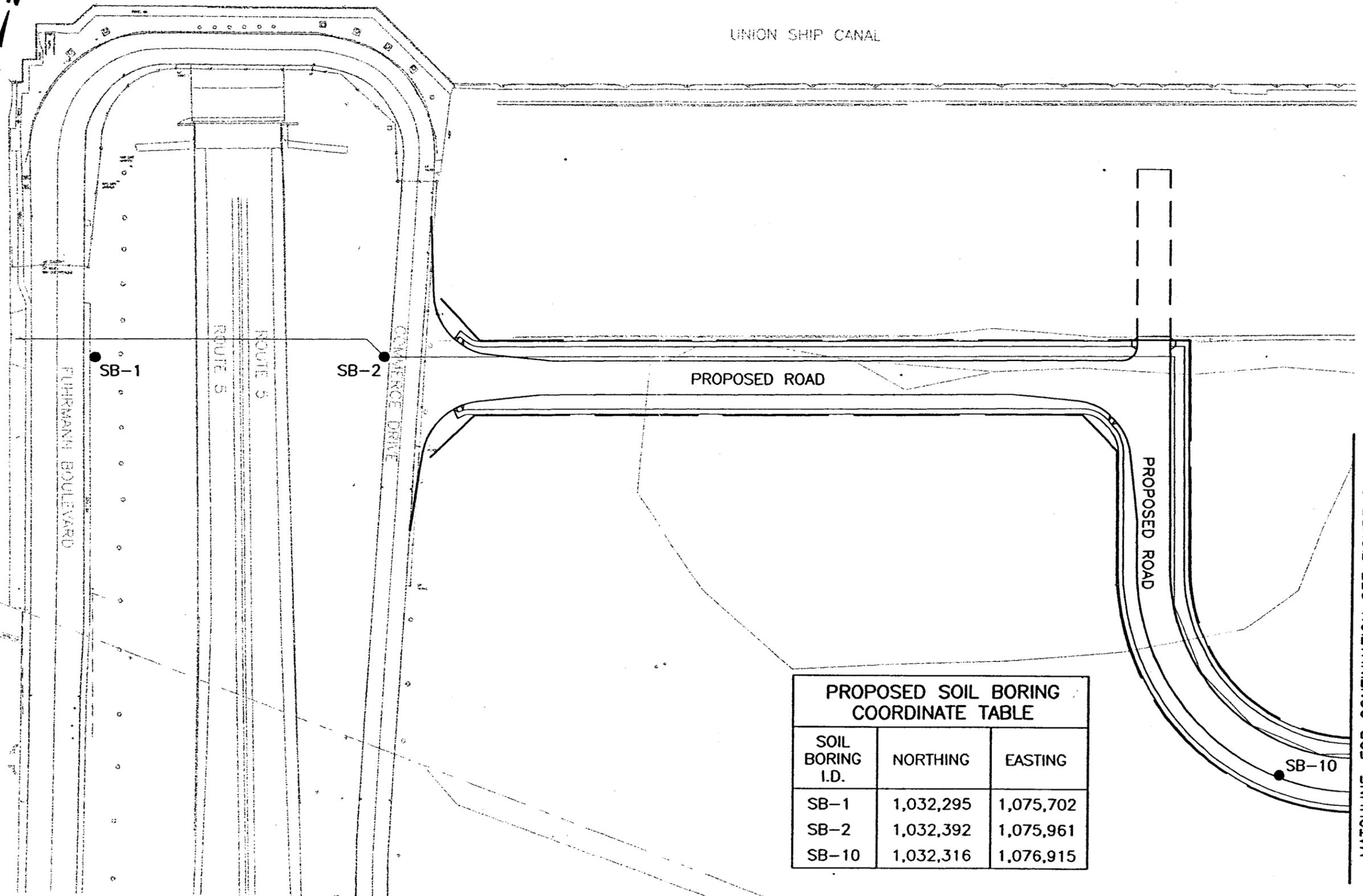
NOTES: U - Not detected, J - Estimated value, — - Not analyzed.
 NC - No screening value available, [] - Exceeds Site-Specific Action Level, () - Exceeds NYS TAGM 4046 - Recommended Soil Cleanup.
 * - Indicates NYSDEC revised values for nonresidential sites which have not yet been incorporated into TAGM 4046.
 SB - Site Background.

APPENDIX B

**GENERAL EXCAVATION – SOIL CHARACTERIZATION
INFORMATION**

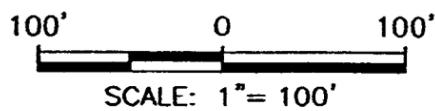
APPENDIX B-1

SOIL BORING LOGS URS (FEBRUARY 2003)



**PROPOSED SOIL BORING
COORDINATE TABLE**

| SOIL BORING I.D. | NORTHING | EASTING |
|------------------|-----------|-----------|
| SB-1 | 1,032,295 | 1,075,702 |
| SB-2 | 1,032,392 | 1,075,961 |
| SB-10 | 1,032,316 | 1,076,915 |

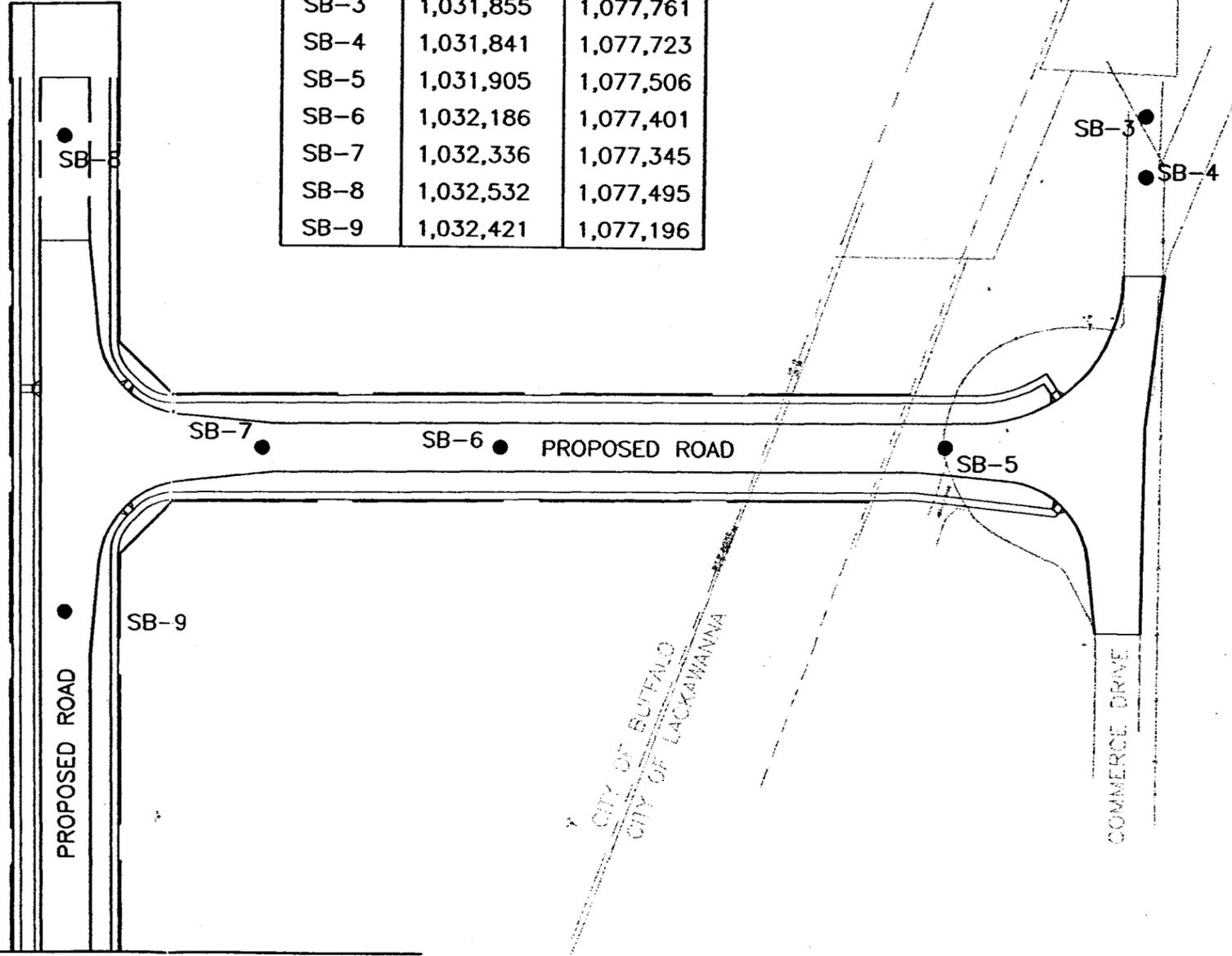


| | |
|--|----------|
| UNION SHIP CANAL PROPOSED SOIL BORING LOCATION PLAN | |
| URS | FIGURE 1 |

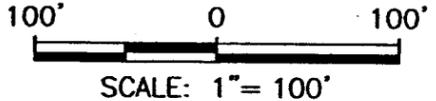
MATCHLINE, FOR CONTINUATION SEE FIGURE 2



| PROPOSED SOIL BORING COORDINATE TABLE | | |
|---------------------------------------|-----------|-----------|
| SOIL BORING I.D. | NORTHING | EASTING |
| SB-3 | 1,031,855 | 1,077,761 |
| SB-4 | 1,031,841 | 1,077,723 |
| SB-5 | 1,031,905 | 1,077,506 |
| SB-6 | 1,032,186 | 1,077,401 |
| SB-7 | 1,032,336 | 1,077,345 |
| SB-8 | 1,032,532 | 1,077,495 |
| SB-9 | 1,032,421 | 1,077,196 |



MATCHLINE, FOR CONTINUATION SEE FIGURE 1



| | |
|--|----------|
| UNION SHIP CANAL PROPOSED SOIL BORING LOCATION PLAN | |
| URS | FIGURE 2 |

| URS Corporation | | | | | | | | | | TEST BORING LOG | | | |
|---|--------|-------|------|--------------|--------------|------------|----------------------|--------------------------------------|---|------------------------------|----------------|----------|-------|
| PROJECT: Union Ship Canal | | | | | | | | | | BORING NO: TB-1 | | | |
| CLIENT: City of Buffalo, DPW | | | | | | | | | | SHEET: 1 of 1 | | | |
| BORING CONTRACTOR: SJB Services | | | | | | | | | | JOB NO.: 11172800.00 | | | |
| GROUNDWATER: | | | | | | | | | | BORING LOCATION: W. of Rte 5 | | | |
| CAS. SAMPLER CORE TUBE | | | | | | | | | | GROUND ELEVATION: | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | | | Split spoon | | | DATE STARTED: 02/17/03 | | | |
| | | | | DIA. | | | 2" | | | DATE FINISHED: 02/17/03 | | | |
| | | | | WT. | | | 140# | | | DRILLER: J. Tajdowski | | | |
| | | | | FALL | | | 30" | | | GEOLOGIST: J. Doerr | | | |
| * POCKET PENETROMETER READING | | | | | | | | | | REVIEWED BY: D. Lenhardt | | | |
| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | | REMARKS | |
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | | USCS | PID | MOISTURE | |
| | | 1 | SS | 44 | 50/4 | 100% N=>50 | Black/Gray | Very Dense | 0.0-9.6: FILL; 0.0-2.0: Fine to coarse gravel asphalt and concrete | | | 0.0 | Moist |
| | | 2 | SS | 10 | 11 | 80% N=24 | Dark Brown | Medium Dense | 2.0-4.0: Silty fine sand, some medium sand, trace fine rounded gravel | | | 0.0 | |
| 5 | | 3 | SS | 4 | 5 | 60% N=10 | Yellow/Black | ↓ | 4.0-8.0: Coarse sand, trace fine to medium sand and fine gravel | | | 0.0 | |
| | | 4 | SS | 6 | 7 | 75% N=17 | Brown | | 8.0-9.6: Silt, some fine sand, trace fine angular gravel | | | 0.0 | |
| 10 | | 5 | SS | 3 | 10 | 70% N=23 | ↓ | Soft | 9.6-17.5: PEAT, Trace thin partings fine sand and/or clay | | PT | 0.0 | |
| | 6 | SS | 2 | 2 | N=4 | ↓ | | Very Soft | | | | 0.0 | |
| | 7 | SS | 1 | 2 | 60% N=5 | ↓ | | | | | | 0.0 | |
| 15 | | 8 | SS | WoH | WoH | 20% N=WoH | ↓ | Soft | | | | 0.0 | |
| | | 9 | SS | 2 | 2 | 50% N=3 | | ↓ | | | SP | 0.0 | |
| | | 10 | SS | 1 | 2 | N=3 | | Gray | 17.5-17.7: Medium to coarse sand | | | 0.0 | |
| 20 | | | 2 | 5 | 10% N=9 | Stiff | 17.7-2.0: Silty CLAY | | CL | 0.0 | *1.0 TSP Moist | | |
| | | | | | | | | End boring at scheduled depth of 20' | | | | | |
| 25 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis | | | | | | | | | | PROJECT NO. 11172800.00 | | | |
| | | | | | | | | | | BORING NO. TB-1 | | | |

| URS Corporation | | | | | | | | | | TEST BORING LOG | | | | |
|---|-------------------------|-------|------|-----------------|-----------------|---------------|-------------------------|--------------------------------------|--|------------------------------|------|-----|----------|-------------|
| PROJECT: Union Ship Canal | | | | | | | | | | BORING NO: TB-2 | | | | |
| CLIENT: City of Buffalo, DPW | | | | | | | | | | SHEET: 1 of 1 | | | | |
| BORING CONTRACTOR: SJB Services | | | | | | | | | | JOB NO.: 11172800.00 | | | | |
| GROUNDWATER: | | | | | | | | | | BORING LOCATION: E. of Rte 5 | | | | |
| CAS. SAMPLER CORE TUBE | | | | | | | | | | GROUND ELEVATION: | | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | | Split spoon | | | | DATE STARTED: 02/17/03 | | | | |
| | | | | DIA. | | 2" | | | | DATE FINISHED: 02/17/03 | | | | |
| | | | | WT. | | 140# | | | | DRILLER: J. Tajdowski | | | | |
| | | | | FALL | | 30" | | | | GEOLOGIST: J. Doerr | | | | |
| * POCKET PENETROMETER READING | | | | | | | | | | REVIEWED BY: D. Lenhardt | | | | |
| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | | | REMARKS | |
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | | | USCS | PID | MOISTURE | |
| | [Cross-hatched pattern] | 1 | SS | 16 38 | 50 18 | 80% N=88 | Brown ↓ | Very Dense | 0.0-8.0: FILL; 0.0-4.0; Fine to coarse gravel some silt | | | | 0.0 | Moist |
| | | 2 | SS | 13 30 | 14 25 | 60% N=44 | ↓ | | | | | | 0.0 | |
| 5 | | 3 | SS | 13 14 | 15 6 | 50% N=29 | Black/ Gray | Medium Dense | 4.0-8.0; Fine to coarse sand and fine gravel | | | | 0.0 | |
| | | 4 | SS | 3 2 | 2 3 | 30% N=4 | Blue | Loose | | | | | 0.0 | |
| | [Wavy pattern] | 5 | SS | 1 1 | 1 1 | 40% N=2 | Brown ↓ | Very Soft | 8.0-13.4 PEAT, some wood fragments | | | PT | 0.0 | Wet @ 8' |
| 10 | | 6 | SS | 1/12 1 | | 0% N=<1 | ↓ | | 10.0-12.0: No Recovery | | | | 0.0 | |
| | | 7 | SS | 2 2 | 3 3 | 80% N=4 | ↓ | | | | | | 0.0 | |
| 15 | [Diagonal lines] | 8 | SS | 16 6 | 6 14 | 90% N=12 | Gray ↓ | Stiff | 13.4-16.5: Silty Clay, some fine sand, fine angular gravel, trace decayed roots, twigs | | | CL | 0.0 | Moist |
| | | 9 | SS | 10 | 50/4 | 100% N=>50 | Brown ↓ | Hard | 16.5-20.0: Silty, sandy CLAY, some fine to coarse angular gravel and rock fragments, TILL | | | ML | 0.0 | Dry |
| 20 | | 10 | SS | 40 | 50/4 | N=>50 | ↓ | | | | | | 0.0 | |
| | | | | | | | | End boring at scheduled depth of 20' | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis | | | | | | | | | | PROJECT NO. 11172800.00 | | | | |
| | | | | | | | | | | BORING NO. TB-2 | | | | |

URS Corporation

TEST BORING LOG

PROJECT: Union Ship Canal

BORING NO: TB-3

CLIENT: City of Buffalo, DPW

SHEET: 1 of 1

BORING CONTRACTOR: SJB Services

JOB NO.: 11172797

GROUNDWATER:

BORING LOCATION:

| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE |
|-------------------------------|------|-------|------|------|------|-------------|------|------|
| | | | | | | Split spoon | | |
| | | | | DIA. | | 2" | | |
| | | | | WT. | | 140# | | |
| | | | | FALL | | 30" | | |
| * POCKET PENETROMETER READING | | | | | | | | |

| | |
|-------------------|----------------------|
| GROUND ELEVATION: | |
| DATE STARTED: | 02/18/03 |
| DATE FINISHED: | 02/18/03 |
| DRILLER: | J. Tajdowski |
| GEOLOGIST: | J. Doerr/T. Burmeier |
| REVIEWED BY: | D. Lenhardt |

| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | REMARKS | |
|---------------|-------------------------|-----|------|-----------------|-----------------|---------------|-------------------------|-----------------------------|--|-----|----------|--------------------------|
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | |
| | [Cross-hatched pattern] | 1 | SS | 10 8 | 10 5 | 70% N=18 | Dark Brown | Medium Dense | 0.0-6.0: FILL; 0.0-4.0; Silty loam, some fine sand 0.4-6.0 Cinder and ash, some clinker | | 0.0 | Moist |
| | | 2 | SS | 6 6 | 6 5 | 50% N=12 | Black | | | | 0.0 | |
| 5 | | 3 | SS | 2 4 | 3 3 | 60% N=7 | Brown | Loose | | | 0.0 | Wet @ 6' |
| | [Diagonal lines] | 4 | SS | 3 1 | 1 2 | 50% N=2 | Gray | Very Soft | 6.0-10.7: CLAY, some silt, plastic, some staining | CL | 0.0 | *1.0TSF |
| | | 5 | SS | 1 2 | 1 2 | 50% N=3 | | | | | 0.0 | *1.25TSF |
| 10 | | 6 | SS | WoH 3 | 2 4 | 70% N=5 | Gray/ Yellow | Loose | 10.7-12.9: SILT, some fine clay, grading downward to silty fine sand | ML | 0.0 | *3.0TSF *1.0TSF |
| | [Diagonal lines] | 7 | SS | 7 6 | 10 16 | 100% N=16 | | Stiff | 12.9-25.0: silty CLAY, fining downward to CLAY | CL | 0.0 | *1.0TSF Moist |
| 15 | | 8 | SS | 2 5 | 4 7 | 100% N=9 | | Very Soft | | | 0.0 | *0.5TSF |
| | [Diagonal lines] | 9 | SS | 6 4 | 5 4 | 85% N=9 | Gray | | | | 0.0 | *0.5TSF |
| | | 10 | SS | WoH WoH | WoH WoH | 100% N=WoH | | Very Soft | | | 0.0 | *0.5TSF |
| 20 | | 11 | SS | WoH WoH | WoH WoH | 100% N=WoH | | | | | 0.0 | *0.5TSF |
| | [Diagonal lines] | 12 | SS | WoH WoH | 3 3 | 100% N=WoH | Red- Brown | | | | 0.0 | *0.5TSF Very Moist |
| 25 | | 13 | SS | 1 23 | 1 3 | 70% N=24 | Brown | | | | 0.0 | Moist |
| | [Diagonal lines] | 14 | SS | 5 10 | 6 37 | 70% N=16 | | Very Stiff to Hard | 25.0-34.5; silty sandy CLAY some fine to coarse angular gravel and rock fragments | ML | 0.0 | Moist Dry Moist |
| | | 15 | SS | 18 31 | 19 3 | 60% N=50 | Gray | | | | 0.0 | |
| 30 | | 16 | SS | 32 50/4 | 26 N=>50 | 100% N=>50 | | | | | 0.0 | Dry |
| | [Diagonal lines] | 17 | SS | 20 26 | 27 23 | 40% N=53 | | | | | 0.0 | |
| 35 | | 18 | SS | 18 | 50/4 | 80% N=>50 | Dark Gray | | 34.5-40.0: Levanna Shale member | VBr | 0.0 | |

Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis

PROJECT NO. 11172797
BORING NO. TB-3

URS Corporation

TEST BORING LOG

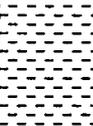
BORING NO: TB-3

PROJECT:

SHEET: 2 of 2

CLIENT:

JOB NO.: 11172797.00

| DEPTH FEET | SAMPLE | | | | | DESCRIPTION | | | | | REMARKS | |
|---------------|---|-----|------|-----------------|-------|-------------|-----------|-------------------------|---|------|---------|----------|
| | STRATA | NO. | TYPE | BLOWS PER 6" | | RECOVERY | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | USCS | PID | MOISTURE |
| | | | | 23 | 50/4 | RQD | | | | | | |
| |  | SS | 19 | 23 | 50/4 | 100% | Dark Gray | Moderately Hard | Skaneateles Formation, weathered, with clay seams | VBr | 0.0 | Dry |
| | | | | | N=>50 | | | | | | | |
| 40 | | SS | 20 | 49 | 50 | 80% | | | | | | |
| | | | | 50/2 | | N=>50 | | | | | | |
| | | | | | | | | | End boring at scheduled depth of 40' | | | |
| | | | | | | | | | 2" monitoring well installed. | | | |
| 45 | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |

Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis

PROJECT NO. 1117797.00
BORING NO. TB-3

URS Corporation

TEST BORING LOG

| | | | | | | | | | | | |
|---------------------------------|------|-------|------|------|------|--------------------------|------|------|-------------------------|--|--|
| PROJECT: Union Ship Canal | | | | | | BORING NO: TB-4 | | | | | |
| CLIENT: City of Buffalo, DPW | | | | | | SHEET: 1 of 1 | | | | | |
| BORING CONTRACTOR: SJB Services | | | | | | JOB NO.: 11172797 | | | | | |
| GROUNDWATER: | | | | | | BORING LOCATION: | | | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE | GROUND ELEVATION: | | |
| | | | | | | Split spoon | | | DATE STARTED: 02/18/03 | | |
| | | | | DIA. | | 2" | | | DATE FINISHED: 02/18/03 | | |
| | | | | WT. | | 140# | | | DRILLER: J. Tajdowski | | |
| | | | | FALL | | 30" | | | GEOLOGIST: T. Burmeier | | |
| * POCKET PENETROMETER READING | | | | | | REVIEWED BY: D. Lenhardt | | | | | |

| DEPTH FEET | SAMPLE | | | | | DESCRIPTION | | | | | REMARKS | |
|------------|--------------------------|---------|------|----------------------|--------------|----------------------|--|--|-------------------|--|-----------------------|------------|
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | |
| 5 | [Cross-hatched pattern] | 1 | SS | 20 25 | 65% | Medium Brown | Dense | 0.0-6.5: FILL; Silty clay soil over fine granular angular gravel with silty clay matrix. | | 0.0 | Moist | |
| | | 2 | SS | 8 3 | 45% | Dark Brown | Loose | | | 0.0 | | |
| | | 3 | SS | 1 1 | 35% | | Very Loose | | | 0.0 | | |
| 10 | [Diagonal lines pattern] | 4 | SS | 1 2 | 40% | Gray | Soft | 6.5-11.0: CLAY, plastic, trace silt, mottled yellow | CL | 0.0 | Wet @6.5' | |
| | | 5 | SS | 2 2 | 75% | | | | | Yellow Brown | Stiff | 0.0 |
| | | 6 | SS | 2 2 | 85% | Stiff | 11.0-13.0: CLAY, with interbedded silty fine sand layers (1"-3" thick) | | | | | 0.0 |
| | | 7 | SS | 2 4 | 4 | | | | | Medium | 13.0-15.5: Silty CLAY | 0.0 |
| 15 | [Diagonal lines pattern] | 8 | SS | 2 3 | 100% | Stiff Brown | 15.5-23.0: CLAY, plastic, sticky | | 0.0 | | | Wet |
| | | 9 | SS | 9 7 | 15 | | | | Soft to Very Soft | 23.0-28.0: Silty CLAY, with fine to coarse sand and fine gravel. Gravel content increases with depth | 0.0 | Very Moist |
| | | 10 | SS | 2 3 | 5 | Stiff to Very Stiff | 28.0-34.0: GRAVEL, coarse with silty fine sand matrix | 0.0 | | | Moist | |
| 20 | [Diagonal lines pattern] | 11 | SS | 2 1 | 100% | | | Soft to Very Soft | | | 0.0 | *0.75TSF |
| | | 12 | SS | 2 1 | 3 | Stiff to Very Stiff | | | | | | 0.0 |
| | | 13 | SS | WoH WoH | 100% | | | Stiff to Very Stiff | | | | 0.0 |
| 25 | [Diagonal lines pattern] | 14 | SS | 1 1 | 1 | Stiff to Very Stiff | | | | | | 0.0 |
| | | 15 | SS | WoH WoH | 100% | | | Stiff to Very Stiff | | | | 0.0 |
| | | 16 | SS | WoH WoH | WoH | Stiff to Very Stiff | | | | | | 0.0 |
| 30 | [Diagonal lines pattern] | 17 | SS | 6 5 | 100% | | | Medium to Very Dense | | | | 0.0 |
| | | 18 | SS | 5 5 | 10 | Medium to Very Dense | | | | | | 0.0 |
| | | 19 | SS | 5 8 | 100% | | | Medium to Very Dense | | | | 0.0 |
| 35 | [Diagonal lines pattern] | 20 | SS | 12 26 | 20 | Medium to Very Dense | | | | | | 0.0 |
| | | 21 | SS | 27 27 | 35% | | | Medium to Very Dense | | | | 0.0 |
| | | 22 | SS | 31 48 | 58 | Medium to Very Dense | | | | | | 0.0 |
| 23 | SS | 9 17 | 50% | Medium to Very Dense | | | | | 0.0 | | | |
| 24 | SS | 25 26 | 42 | | | Medium to Very Dense | | | | 0.0 | | |
| 25 | SS | 22 29 | 45% | Medium to Very Dense | | | | | | 0.0 | | |
| 26 | SS | 34 50/4 | 63 | | | Medium to Very Dense | | | | 0.0 | | |
| 27 | SS | 31 20 | 65% | Medium to Very Dense | | | | | | 0.0 | | |
| 28 | SS | 26 28 | 46 | | | Medium to Very Dense | | | | 0.0 | | |
| 29 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 30 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 31 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 32 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 33 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 34 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 35 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 36 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 37 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 38 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 39 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 40 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 41 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 42 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 43 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 44 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 45 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 46 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 47 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 48 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 49 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 50 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 51 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 52 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 53 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 54 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 55 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 56 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 57 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 58 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 59 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 60 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 61 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 62 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 63 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 64 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 65 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 66 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 67 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 68 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 69 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 70 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 71 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 72 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 73 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 74 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 75 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 76 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 77 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 78 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 79 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 80 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 81 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 82 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 83 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 84 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 85 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 86 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 87 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 88 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 89 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 90 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 91 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 92 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 93 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 94 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 95 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 96 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 97 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 98 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 99 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 100 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 101 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 102 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 103 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 104 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 105 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 106 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 107 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 108 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 109 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 110 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 111 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 112 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 113 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 114 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 115 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 116 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 117 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 118 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 119 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 120 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 121 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 122 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 123 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 124 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 125 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 126 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 127 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 128 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 129 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 130 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 131 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 132 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 133 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 134 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 135 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 136 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 137 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 138 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 139 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 140 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 141 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 142 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 143 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| 144 | SS | | | | | Medium to Very Dense | | | | 0.0 | | |
| 145 | SS | | | Medium to Very Dense | | | | | | 0.0 | | |
| | | | | | | | | | | | | |

URS Corporation

TEST BORING LOG

PROJECT: Union Ship Canal

BORING NO: TB-5

CLIENT: City of Buffalo, DPW

SHEET: 1 of 1

BORING CONTRACTOR: SJB Services

JOB NO.: 11172797

GROUNDWATER:

BORING LOCATION:

| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE |
|-------------------------------|------|-------|------|------|------|-------------|------|------|
| | | | | DIA. | | Split spoon | | |
| | | | | WT. | | 2" | | |
| | | | | FALL | | 140# | | |
| | | | | | | 30" | | |
| * POCKET PENETROMETER READING | | | | | | | | |

GROUND ELEVATION:

DATE STARTED: 02/20/03

DATE FINISHED: 02/20/03

DRILLER: J. Tajdowski

GEOLOGIST: T. Burmeier

REVIEWED BY: D. Lenhardt

| DEPTH FEET | SAMPLE | | | | | DESCRIPTION | | | | | REMARKS | |
|------------|--------|-----|------|--------------|--------------|--------------|------------------------------|--|-------|-----|---------------------|--|
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | |
| | | 1 | SS | 50/4 | 50% | Black | Dense | 0.0-1.0: ASPHALT Pavement | | 0.0 | Moist | |
| | | 2 | SS | 15 10 | 60% | | Medium Dense | 1.0-6.0: Fine granular FILL, coal, in part | | 0.0 | | |
| 5 | | 3 | SS | 9 7 | 19 | | Dense | | | 0.0 | | |
| | | 4 | SS | 4 3 | 50% | | Very Loose | | | 0.0 | | |
| | | 5 | SS | 3 2 | 6 | | Loose | | | 0.0 | | |
| | | 6 | SS | 1 1 | 25% | Light Gray | Medium Stiff | 6.0-8.0: Fine silty SAND | SM | 0.0 | Wet @6' | |
| | | 7 | SS | 1 3 | 2 | | Stiff | 8.0-11.5: Silty CLAY | CL | 0.0 | *03.0TSF Moist | |
| 10 | | 8 | SS | 3 3 | 60% | Yellow | Stiff | trace fine gravel | | 0.0 | | |
| | | 9 | SS | 4 8 | 50% | Brown | | 11.5-12.0: Fine silty SAND | | 0.0 | | |
| | | 10 | SS | 9 7 | 17 | | | 12.0-18.0: CLAY | CL | 0.0 | *2.75TSF Very Moist | |
| 15 | | 11 | SS | 6 6 | 70% | Medium Brown | Medium Stiff | clay becomes sticky | | 0.0 | *1.0TSF | |
| | | 12 | SS | 2 2 | 85% | Gray | Stiff | several 1/4" thick silty sand layers | | 0.0 | *<0.5TSF | |
| | | 13 | SS | 3 2 | 5 | Brown | | 18.0-23.0: Silty CLAY, trace sand and fine gravel | | 0.0 | | |
| 20 | | 14 | SS | 4 3 | 100% | | Soft to Very Soft | 23.0-32.0: Silty CLAY with fine to coarse sand and fine gravel. Gravel content increases with depth. | ML/CL | 0.0 | | |
| | | 15 | SS | 4 3 | 7 | | | | | 0.0 | | |
| | | 16 | SS | 1 2 | 100% | | | | | 0.0 | | |
| | | 17 | SS | 1 2 | 3 | | | | | 0.0 | | |
| | | 18 | SS | WoH 1 | 100% | | | | | 0.0 | | |
| | | 19 | SS | 1 1 | 2 | | | | | 0.0 | | |
| | | 20 | SS | WoH WoH | 100% | | | | | 0.0 | | |
| | | 21 | SS | WoH 1 | WoH | | | | | 0.0 | | |
| 25 | | 22 | SS | 1 1 | 50% | | STIFF | | | 0.0 | | |
| | | 23 | SS | 10 4 | 11 | | | | | 0.0 | | |
| | | 24 | SS | 6 6 | 60% | | | | | 0.0 | | |
| | | 25 | SS | 33 50/4 | 39 | | Hard to Dense and Very Dense | | | 0.0 | moist | |
| 30 | | 26 | SS | 10 15 | 55% | | | | | 0.0 | | |
| | | 27 | SS | 21 32 | 36 | | | | | 0.0 | | |
| | | 28 | SS | 7 17 | 40% | | | | | 0.0 | | |
| | | 29 | SS | 24 30 | 41 | | | | | 0.0 | Wet @32' | |
| | | 30 | SS | 15 20 | 50% | Medium Brown | | 32.0-36.0: Silty CLAY and angular coarse gravel | | 0.0 | | |
| | | 31 | SS | 20 24 | 40 | | | | | 0.0 | | |
| 35 | | 32 | SS | 34 50/3 | 35% | | | | | 0.0 | | |
| | | 33 | SS | | 50 | | | | | 0.0 | | |

Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis

PROJECT NO. 11172797

BORING NO. TB-5

URS Corporation

TEST BORING LOG

PROJECT: Union Ship Canal

BORING NO: TB-6

CLIENT: City of Buffalo, DPW

SHEET: 1 of 1

BORING CONTRACTOR: SJB Services

JOB NO.: 11172797

GROUNDWATER:

BORING LOCATION:

| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE |
|-------------------------------|------|-------|------|------|------|-------------|------|------|
| | | | | DIA. | | Split spoon | | |
| | | | | WT. | | 2" | | |
| | | | | FALL | | 140# | | |
| | | | | | | 30" | | |
| * POCKET PENETROMETER READING | | | | | | | | |

GROUND ELEVATION:

DATE STARTED: 02/20/03

DATE FINISHED: 02/21/03

DRILLER: J. Tajdowski

GEOLOGIST: T. Burmeier

REVIEWED BY: D. Lenhardt

| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | | REMARKS | |
|------------|------------------|-----|------|--------------|----|----------|--------------|-----------------------|---|------|-----|----------|-----------------------------------|
| | STRATA | NO. | TYPE | BLOWS PER 6" | | RECOVERY | COLOR | CONSISTENCY | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | |
| | | | | 20 | 13 | RQD | | HARDNESS | | | | | |
| 5 | [Cross-hatched] | 1 | 33 | 20 | 13 | 85% | Rusty Brown | Dense | 0.0-4.0: FILL; Iron oxide silt to sand size particles | | | 0.0 | Moist |
| | | | | 20 | 34 | | | | | | | | |
| | | 2 | 38 | 15 | 21 | 85% | | | | | | | |
| | | | | 17 | 10 | | | | | | | | |
| | | 3 | 20 | 4 | 10 | 65% | Tan/Gray | Medium Dense | | | | | |
| 10 | [Cross-hatched] | 4 | 12 | 8 | 4 | 85% | Blue Green | Loose | | | | 0.0 | |
| | | | | 8 | 5 | | | | | | | | |
| | | 5 | 9 | 3 | 4 | 70% | | | | | | | |
| | | | | 5 | 2 | | | | | | | 0.0 | |
| 15 | [Wavy] | 6 | 3 | 1 | 1 | 55% | Dark Brown | Soft | 10.0-12.0: PEAT; Woody fibers mixed with silt and clay at 12' | PT | | 0.0 | |
| | | | | 2 | 2 | | | | | | | | |
| 15 | [Diagonal lines] | 7 | 4 | 3 | 2 | 35% | Gray Brown | Medium | 12.0-18.0: Silty CLAY fine silty sand seams @ 14' | CL | ↓ | 0.0 | *1.75TSF Very Moist *1.0TSF |
| | | | | 2 | 3 | | | | | | | | |
| | | 8 | 7 | WoH | 2 | 60% | Yellow Brown | Stiff | | | | | |
| 20 | [Diagonal lines] | | | 5 | 5 | | | | | | | 0.0 | |
| | | 9 | 30 | 10 | 12 | 55% | Gray Brown | Very Stiff | 18.0-20.0: Clayey SILT, trace organics | ML | ↓ | 0.0 | *0.5TSF |
| | | | | 18 | 18 | | | | | | | | |
| 10 | 14 | 3 | 6 | 10% | | | | | | | | | |
| 25 | [Diagonal lines] | | | 8 | 7 | | | | | | | 0.0 | |
| | | 11 | 6 | 2 | 2 | 90% | Gray Brown | Medium Stiff to Stiff | 20.0-22.0: CLAY | CL | ↓ | 0.0 | *1.25TSF |
| | | | | 4 | 5 | | | | | | | | |
| 12 | 7 | 4 | 3 | 100% | | | | | | | | | |
| 30 | [Diagonal lines] | | | 4 | 2 | | | | | | | 0.0 | |
| | | 13 | 3 | 1 | 1 | 0% | Gray Brown | Soft | 22.0-32.0: Silty CLAY, with fine sand and trace fine gravel | ML | ↓ | 0.0 | moist |
| | | | | 2 | 1 | | | | | | | | |
| 14 | 3 | WoH | 1 | 100% | | | | | | | | | |
| 30 | [Diagonal lines] | | | 2 | 1 | | | | | | | 0.0 | |
| | | 15 | 2 | WoH | 1 | 100% | Gray Brown | Stiff | 32.0-34.00: Silty CLAY, with fine sand and fine gravel | ML | ↓ | 0.0 | Wet @32' |
| | | | | 1 | 2 | | | | | | | | |
| 16 | 3 | WoH | WoH | 100% | | | | | | | | | |
| 35 | [Diagonal lines] | | | 3 | 3 | | | | | | | 0.0 | |
| | | 17 | 8 | 4 | 4 | 100% | Gray Brown | Very Dense | 34.0-35.0: CLAY and Dolostone GRAVEL | ML | ↓ | 0.0 | |
| | | | | 4 | 5 | | | | | | | | |
| 18 | 100 | 35 | 100 | 50% | | | | | | | | | |
| | | | | | | | | | | | 0.0 | | |

Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples submitted for laboratory analysis

PROJECT NO. 11172797

BORING NO. TB-6

| URS Corporation | | | | | | | | | | TEST BORING LOG | | | | |
|--|-------------------------|-------|------|-----------------|-----------------|-------|---|-------------------------|---|---|------|-----|----------|--|
| PROJECT: Union Ship Canal | | | | | | | | | | BORING NO: TB-7 | | | | |
| CLIENT: City of Buffalo, DPW | | | | | | | | | | SHEET: 1 of 1 | | | | |
| BORING CONTRACTOR: SJB Services | | | | | | | | | | JOB NO.: 11172800.00 | | | | |
| GROUNDWATER: | | | | | | | | | | BORING LOCATION: | | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | | CAS. | SAMPLER | CORE | TUBE | GROUND ELEVATION: | | | | |
| | | | | | | | Split spoon | | | DATE STARTED: 02/21/03 | | | | |
| | | | | | | | 2" | | | DATE FINISHED: 02/21/03 | | | | |
| | | | | | | | 140# | | | DRILLER: J. Tajdowski | | | | |
| | | | | | | | 30" | | | GEOLOGIST: T. Burmeier | | | | |
| * POCKET PENETROMETER READING | | | | | | | | | | REVIEWED BY: D. Lenhardt | | | | |
| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | | | REMARKS | |
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | | | USCS | PID | MOISTURE | |
| 5 | [Cross-hatched pattern] | 1 | SS | 26 | 47 | 90% | Brown | Very | 0.0-10.0: FILL; 0.0-1.0: Silt and gravel | | | 0.0 | Moist | |
| | | | | 60 | 104 | N=107 | Blue/ | Dense | 1.0-2.0 Sand, clay and fine to coarse slag gravel | | | | | |
| | | 2 | SS | 26 | 14 | 50% | Gray/ | Medium | 2.0-4.0: Silt to coarse gravel size slag | | | | | |
| | | | | 9 | 6 | N=23 | Yellow | | Dense | | | | | |
| | | 3 | SS | 13 | 12 | 65% | Brown | ↓ | 4.0-4.7: Iron oxide silty sand | | | | | |
| | | | | 5 | 3 | N=17 | Tan | | 4.7-8.0: Coarse sand (slag) | | | | | |
| | | 4 | SS | 6 | 5 | 0% | | | Loose | | | | | |
| | | | | 5 | 8 | N=10 | | | | | | | | |
| | | 5 | SS | 4 | 4 | 100% | Blue- | | Loose | 8.0-10.0 Coarse Sand and vesicular slag | | | | |
| | | | | 5 | 7 | N=9 | Gray | | | | | | | |
| 10 | | | | | | | Boring completed at scheduled 10' depth | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving, no samples collected for laboratory analysis. | | | | | | | | | | PROJECT NO. 11172800.00 | | | | |
| | | | | | | | | | | BORING NO. TB-7 | | | | |

| URS Corporation | | | | | | | | | | TEST BORING LOG | | | | |
|--|-------------------------|---|------|--------------|--------------|---------------|----------------------|----------------------|--|--------------------------|----------|---|--|--|
| PROJECT: Union Ship Canal | | | | | | | | | | BORING NO: TB-8 | | | | |
| CLIENT: City of Buffalo, DPW | | | | | | | | | | SHEET: 1 of 1 | | | | |
| BORING CONTRACTOR: SJB Services | | | | | | | | | | JOB NO.: 11172800.00 | | | | |
| GROUNDWATER: | | | | | | | | | | BORING LOCATION: | | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE | GROUND ELEVATION: | DATE STARTED: 02/21/03 | | | | |
| | | | | DIA. | | Split spoon | | | | DATE FINISHED: 02/21/03 | | | | |
| | | | | WT. | | 140# | | | | DRILLER: J. Tajdowski | | | | |
| | | | | FALL | | 30" | | | | GEOLOGIST: T. Burmeier | | | | |
| * POCKET PENETROMETER READING | | | | | | | | | | REVIEWED BY: D. Lenhardt | | | | |
| DEPTH FEET | STRATA | SAMPLE | | | | | DESCRIPTION | | | | | REMARKS | | |
| | | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | | | |
| | [Cross-hatched pattern] | 1 | SS | 12 50/2 | 15 N=>50 | 85% N=>50 | Brown Gray | Very Dense | 0.0-10.0: FILL: 0.0-1.0; Silt to fine gravel 1.0-2.0: Slag gravel and silt, trace coal 2.0-4.0: Coarse slag gravel | | 0.0 | Moist Wet @ 6' | | |
| | | 2 | SS | 50/4 | N=>50 | 100% N=>50 | Brown | ↓ | | | 0.0 | | | |
| 5 | | 3 | SS | 8 16 | 12 13 | 0% N=28 | ↓ | Medium Dense | 4.0-6.0: No Recovery | | 0.0 | | | |
| | | 4 | SS | 22 11 | 12 11 | 60% N=23 | ↓ | ↓ | 6.0-8.0: Coarse sand to fine gravel size slag | | 0.0 | | | |
| | | 5 | SS | 6 22 | 12 15 | 60% N=34 | Red- Brown | Dense | 8.0-10.0: Iron oxide silt to fine sand, trace slag, sheen | | 0.0 | | | |
| 10 | | Boring completed at scheduled 10' depth | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving. Samples collected from 6'-8' fro analysis for VOCs, SVOCs, Metals, CN, and PCB/Pesticide. | | | | | | | | | | PROJECT NO. 11172800.00 | | BORING NO. TB-8 | | |

URS Corporation

TEST BORING LOG

PROJECT: Union Ship Canal

BORING NO: TB-9

CLIENT: City of Buffalo, DPW

SHEET: 1 of 1

BORING CONTRACTOR: SJB Services

JOB NO.: 11172800.00

BORING LOCATION:

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION:

| DATE | TIME | LEVEL | TYPE | TYPE | | Split spoon | | |
|-------------------------------|------|-------|------|------|--|-------------|--|--|
| | | | | DIA. | | 2" | | |
| | | | | WT. | | 140# | | |
| | | | | FALL | | 30" | | |
| * POCKET PENETROMETER READING | | | | | | | | |

| | |
|----------------|--------------|
| DATE STARTED: | 02/24/03 |
| DATE FINISHED: | 02/24/03 |
| DRILLER: | J. Tajdowski |
| GEOLOGIST: | T. Burmeier |
| REVIEWED BY: | D. Lenhardt |

| DEPTH FEET | SAMPLE | | | | | | DESCRIPTION | | | | REMARKS | |
|------------|--------|-----|------|--------------|--------------|--------------|----------------------|----------------------|---|-----|----------|----------|
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | USCS | PID | MOISTURE | |
| | | 1 | SS | 25 29 | 36 16 | 85% N=65 | Brown ↓ | Very Dense | 0.0-10.0: FILL; 0.0-2.0: Silt and fine to coarse gravel | | 0.0 | Wet @ 6' |
| | | 2 | SS | 6 11 | 8 12 | 60% N=17 | ↓ | Medium Dense | 2.0-4.0: Silty sandy slag, trace vesicular slag | | 0.0 | |
| 5 | | 3 | SS | 5 5 | 5 4 | 100% N=10 | Gray ↓ | Dense | 4.0-6.0: coarse sand to fine slag gravel | | 0.0 | |
| | | 4 | SS | 5 7 | 4 5 | 100% N=11 | Blue-Green ↓ | | 6.0-9.0: Coarse sand to fine gravel | | 0.0 | |
| 10 | | 5 | SS | 6 12 | 9 8 | 85% N=21 | Black ↓ | | 9.0-10.0: Silt and coarse sand size granular fill | | 0.0 | |
| 15 | | | | | | | | | Boring completed at scheduled 10' depth | | | |
| 20 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |

Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving. Samples collected from 4'-6' fro analysis for VOCs, SVOCs, Metals, CN, and PCB/Pesticide.

PROJECT NO. 11172800.00
BORING NO. TB-9

| URS Corporation | | | | | | | | | | TEST BORING LOG | | | |
|--|-------------------------|-------|------|-----------------|-----------------|---------------|-------------------------|-------------------------|--|--------------------------|---------|----------|--|
| PROJECT: Union Ship Canal | | | | | | | | | | BORING NO: TB-10 | | | |
| CLIENT: City of Buffalo, DPW | | | | | | | | | | SHEET: 1 of 1 | | | |
| BORING CONTRACTOR: SJB Services | | | | | | | | | | JOB NO.: 11172800.00 | | | |
| GROUNDWATER: | | | | | | | | | | BORING LOCATION: | | | |
| DATE | TIME | LEVEL | TYPE | TYPE | CAS. | SAMPLER | CORE | TUBE | GROUND ELEVATION: | | | | |
| | | | | | | Split spoon | | | DATE STARTED: 02/24/03 | | | | |
| | | | | DIA. | | 2" | | | DATE FINISHED: 02/24/03 | | | | |
| | | | | WT. | | 140# | | | DRILLER: J. Tajdowski | | | | |
| | | | | FALL | | 30" | | | GEOLOGIST: T. Burmeier | | | | |
| * POCKET PENETROMETER READING | | | | | | | | | | REVIEWED BY: D. Lenhardt | | | |
| DEPTH FEET | SAMPLE | | | | | DESCRIPTION | | | | | REMARKS | | |
| | STRATA | NO. | TYPE | BLOWS PER 6" | RECOVERY RQD | COLOR | CONSISTENCY HARDNESS | MATERIAL DESCRIPTION | | USCS | PID | MOISTURE | |
| | [Cross-hatched pattern] | 1 | SS | 29 65 | 50 N=115 | 100% N=>50 | Gray ↓ | Very Dense | 0.0-10.0: FILL; 0.0-2.0: Silt and fine to coarse slag gravel | | 0.0 | Moist | |
| | | 2 | SS | 47 | 50/4 | 90% N=>50 | ↓ | ↓ | 2.0-5.5: Fine to coarse slag gravel and coal | | 0.0 | | |
| 5 | | 3 | SS | 9 12 | 6 9 | 60% N=18 | Brown ↓ | Medium Dense | 5.5-6.0: Fine sand, some silty slag | | 0.0 | Wet | |
| | | 4 | SS | 13 12 | 10 12 | 65% N=22 | Blue- Green ↓ | ↓ | 6.0-9.0: Coarse sand to fine gravel | | 0.0 | @ 5.5 | |
| | | 5 | SS | 5 8 | 10 6 | 85% N=18 | ↓ | ↓ | 9.0-10.0: Silt, trace fine to coarse granular fill | | 0.0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| Boring completed at scheduled 10' depth | | | | | | | | | | | | | |
| Comments :Boring advanced utilizing a truck mounted CME 75 drill rig and 4-1/4 ID HSA. Samples collected for geotechnical archiving. Samples collected from 6'-8' fro analysis for VOCs, SVOCs, Metals, CN, and PCB/Pesticide. | | | | | | | | | | PROJECT NO. 11172800.00 | | | |
| | | | | | | | | | | BORING NO. TB-10 | | | |

APPENDIX B-2

ANALYTICAL RESULTS – BORINGS TB-05 THROUGH

TB-10

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5 (2-4)

| | | |
|----------------------------------|-------------------|---------------------------------|
| Lab Name: AES, Inc. | Contract: | |
| Lab Code: AES | Case No.: URS0301 | SAS No.: |
| Matrix: (soil/water) SOIL | | SDG No.: TB-5 (2-4) |
| Sample wt/vol: 5.000 (g/mL) G | | Lab Sample ID: TB-5 (2-4) |
| Level: (low/med) LOW | | Lab File ID: C0636 |
| % Moisture: not dec. 20. | | Date Received: 02/20/03 |
| GC Column: RTX502.2 ID: .32 (mm) | | Date Analyzed: 02/28/03 |
| Soil Extract Volume: _____ (uL) | | Dilution Factor: 1.0 |
| | | Soil Aliquot Volume: _____ (uL) |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|------------|--------------------------------|-----|---|
| 74-87-3 | -----Chloromethane | 12. | U |
| 74-83-9 | -----Bromomethane | 12. | U |
| 75-01-4 | -----Vinyl Chloride | 12. | U |
| 75-00-3 | -----Chloroethane | 12. | U |
| 75-09-2 | -----Methylene Chloride | 6. | U |
| 67-64-1 | -----Acetone | 12. | U |
| 75-15-0 | -----Carbon Disulfide | 6. | U |
| 75-35-4 | -----1,1-Dichloroethene | 6. | U |
| 75-34-3 | -----1,1-Dichloroethane | 6. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 6. | U |
| 67-66-3 | -----Chloroform | 6. | U |
| 107-06-2 | -----1,2-Dichloroethane | 6. | U |
| 78-93-3 | -----2-Butanone | 12. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 6. | U |
| 56-23-5 | -----Carbon Tetrachloride | 6. | U |
| 75-27-4 | -----Bromodichloromethane | 6. | U |
| 78-87-5 | -----1,2-Dichloropropane | 6. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 6. | U |
| 79-01-6 | -----Trichloroethene | 6. | U |
| 124-48-1 | -----Dibromochloromethane | 6. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 6. | U |
| 71-43-2 | -----Benzene | 6. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 6. | U |
| 75-25-2 | -----Bromoform | 6. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 12. | U |
| 591-78-6 | -----2-Hexanone | 12. | U |
| 127-18-4 | -----Tetrachloroethene | 6. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 6. | U |
| 108-88-3 | -----Toluene | 6. | U |
| 108-90-7 | -----Chlorobenzene | 6. | U |
| 100-41-4 | -----Ethylbenzene | 6. | U |
| 100-42-5 | -----Styrene | 6. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 6. | U |
| 106-42-3 | -----m,p-Xylenes | 6. | U |
| 95-47-6 | -----o-Xylene | 6. | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-5 (2-4)

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: URS0301 SAS No.:
Matrix: (soil/water) SOIL
Sample wt/vol: 5.000 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. 20.
GC Column: RTX502.2 ID: .32 (mm)
Soil Extract Volume: _____ (uL)

SDG No.: TB-5 (2-4)
Lab Sample ID: TB-5 (2-4)
Lab File ID: C0636
Date Received: 02/20/03
Date Analyzed: 02/28/03
Dilution Factor: 1.0
Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-6 (2-4)

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: URS0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix: (soil/water) SOIL

Lab Sample ID: TB-6 (2-4)

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: C0639

Level: (low/med) LOW

Date Received: 02/21/03

% Moisture: not dec. 19.

Date Analyzed: 03/03/03

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|------------|--------------------------------|-----|---|
| 74-87-3 | -----Chloromethane | 12. | U |
| 74-83-9 | -----Bromomethane | 12. | U |
| 75-01-4 | -----Vinyl Chloride | 12. | U |
| 75-00-3 | -----Chloroethane | 12. | U |
| 75-09-2 | -----Methylene Chloride | 6. | U |
| 67-64-1 | -----Acetone | 12. | U |
| 75-15-0 | -----Carbon Disulfide | 6. | U |
| 75-35-4 | -----1,1-Dichloroethene | 6. | U |
| 75-34-3 | -----1,1-Dichloroethane | 6. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 6. | U |
| 67-66-3 | -----Chloroform | 6. | U |
| 107-06-2 | -----1,2-Dichloroethane | 6. | U |
| 78-93-3 | -----2-Butanone | 12. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 6. | U |
| 56-23-5 | -----Carbon Tetrachloride | 6. | U |
| 75-27-4 | -----Bromodichloromethane | 6. | U |
| 78-87-5 | -----1,2-Dichloropropane | 6. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 6. | U |
| 79-01-6 | -----Trichloroethene | 6. | U |
| 124-48-1 | -----Dibromochloromethane | 6. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 6. | U |
| 71-43-2 | -----Benzene | 6. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 6. | U |
| 75-25-2 | -----Bromoform | 6. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 12. | U |
| 591-78-6 | -----2-Hexanone | 12. | U |
| 127-18-4 | -----Tetrachloroethene | 6. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 6. | U |
| 108-88-3 | -----Toluene | 2. | U |
| 108-90-7 | -----Chlorobenzene | 6. | U |
| 100-41-4 | -----Ethylbenzene | 6. | U |
| 100-42-5 | -----Styrene | 6. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 6. | U |
| 106-42-3 | -----m,p-Xylenes | 6. | U |
| 95-47-6 | -----o-Xylene | 6. | U |

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-6 (2-4)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-6 (2-4)
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: C0639
 Level: (low/med) LOW Date Received: 02/21/03
 % Moisture: not dec. 19. Date Analyzed: 03/03/03
 GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

IA
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-7 (8-10)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-7 (8-10)
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: C0631
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: not dec. 42. Date Analyzed: 02/28/03
 GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS. NO. COMPOUND Q

| | | | |
|------------|--------------------------------|-----|---|
| 74-87-3 | -----Chloromethane | 17. | U |
| 74-83-9 | -----Bromomethane | 17. | U |
| 75-01-4 | -----Vinyl Chloride | 17. | U |
| 75-00-3 | -----Chloroethane | 17. | U |
| 75-09-2 | -----Methylene Chloride | 6. | J |
| 67-64-1 | -----Acetone | 17. | U |
| 75-15-0 | -----Carbon Disulfide | 9. | U |
| 75-35-4 | -----1,1-Dichloroethene | 9. | U |
| 75-34-3 | -----1,1-Dichloroethane | 9. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 9. | U |
| 67-66-3 | -----Chloroform | 9. | U |
| 107-06-2 | -----1,2-Dichloroethane | 9. | U |
| 78-93-3 | -----2-Butanone | 17. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 9. | U |
| 56-23-5 | -----Carbon Tetrachloride | 9. | U |
| 75-27-4 | -----Bromodichloromethane | 9. | U |
| 78-87-5 | -----1,2-Dichloropropane | 9. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 9. | U |
| 79-01-6 | -----Trichloroethene | 9. | U |
| 124-48-1 | -----Dibromochloromethane | 9. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 9. | U |
| 71-43-2 | -----Benzene | 9. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 9. | U |
| 75-25-2 | -----Bromoform | 9. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 17. | U |
| 591-78-6 | -----2-Hexanone | 17. | U |
| 127-18-4 | -----Tetrachloroethene | 9. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 9. | U |
| 108-88-3 | -----Toluene | 9. | U |
| 108-90-7 | -----Chlorobenzene | 9. | U |
| 100-41-4 | -----Ethylbenzene | 9. | U |
| 100-42-5 | -----Styrene | 9. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 9. | U |
| 106-42-3 | -----m,p-Xylenes | 9. | U |
| 95-47-6 | -----o-Xylene | 9. | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-7 (8-10)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-7 (8-10)
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: C0631
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: not dec. 42. Date Analyzed: 02/28/03
 GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-8 (6-8)

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: URS0301 SAS No.: SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-8 (6-8)
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: C0632
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: not dec. 26. Date Analyzed: 02/28/03
 GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|------------|--------------------------------|-----|---|
| 74-87-3 | -----Chloromethane | 14. | U |
| 74-83-9 | -----Bromomethane | 14. | U |
| 75-01-4 | -----Vinyl Chloride | 14. | U |
| 75-00-3 | -----Chloroethane | 14. | U |
| 75-09-2 | -----Methylene Chloride | 6. | J |
| 67-64-1 | -----Acetone | 14. | U |
| 75-15-0 | -----Carbon Disulfide | 7. | U |
| 75-35-4 | -----1,1-Dichloroethene | 7. | U |
| 75-34-3 | -----1,1-Dichloroethane | 7. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 7. | U |
| 67-66-3 | -----Chloroform | 7. | U |
| 107-06-2 | -----1,2-Dichloroethane | 7. | U |
| 78-93-3 | -----2-Butanone | 14. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 7. | U |
| 56-23-5 | -----Carbon Tetrachloride | 7. | U |
| 75-27-4 | -----Bromodichloromethane | 7. | U |
| 78-87-5 | -----1,2-Dichloropropane | 7. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 7. | U |
| 79-01-6 | -----Trichloroethene | 7. | U |
| 124-48-1 | -----Dibromochloromethane | 7. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 7. | U |
| 71-43-2 | -----Benzene | 7. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 7. | U |
| 75-25-2 | -----Bromoform | 7. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 14. | U |
| 591-78-6 | -----2-Hexanone | 14. | U |
| 127-18-4 | -----Tetrachloroethene | 7. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 7. | U |
| 108-88-3 | -----Toluene | 7. | U |
| 108-90-7 | -----Chlorobenzene | 7. | U |
| 100-41-4 | -----Ethylbenzene | 7. | U |
| 100-42-5 | -----Styrene | 7. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 7. | U |
| 106-42-3 | -----m,p-Xylenes | 7. | U |
| 95-47-6 | -----o-Xylene | 7. | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-8 (6-8)

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: URS0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix: (soil/water) SOIL

Lab Sample ID: TB-8 (6-8)

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: C0632

Level: (low/med) LOW

Date Received: 02/24/03

% Moisture: not dec. 26.

Date Analyzed: 02/28/03

GC Column: RTX502.2 ID: .32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9 (4-6)

| | |
|----------------------------------|---------------------------------|
| Lab Name: AES, Inc. | Contract: |
| Lab Code: AES | SAS No.: |
| Case No.: URS0301 | SDG No.: TB-5 (2-4) |
| Matrix: (soil/water) SOIL | Lab Sample ID: TB-9 (4-6) |
| Sample wt/vol: 5.000 (g/mL) G | Lab File ID: C0633 |
| Level: (low/med) LOW | Date Received: 02/25/03 |
| % Moisture: not dec. 44. | Date Analyzed: 02/28/03 |
| GC Column: RTX502.2 ID: .32 (mm) | Dilution Factor: 1.0 |
| Soil Extract Volume: _____ (uL) | Soil Aliquot Volume: _____ (uL) |

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------------------------|---|---|
| 74-87-3 | -----Chloromethane | 18. | U |
| 74-83-9 | -----Bromomethane | 18. | U |
| 75-01-4 | -----Vinyl Chloride | 18. | U |
| 75-00-3 | -----Chloroethane | 18. | U |
| 75-09-2 | -----Methylene Chloride | 9. | U |
| 67-64-1 | -----Acetone | 18. | U |
| 75-15-0 | -----Carbon Disulfide | 9. | U |
| 75-35-4 | -----1,1-Dichloroethene | 9. | U |
| 75-34-3 | -----1,1-Dichloroethane | 9. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 9. | U |
| 67-66-3 | -----Chloroform | 9. | U |
| 107-06-2 | -----1,2-Dichloroethane | 9. | U |
| 78-93-3 | -----2-Butanone | 18. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 9. | U |
| 56-23-5 | -----Carbon Tetrachloride | 9. | U |
| 75-27-4 | -----Bromodichloromethane | 9. | U |
| 78-87-5 | -----1,2-Dichloropropane | 9. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 9. | U |
| 79-01-6 | -----Trichloroethene | 9. | U |
| 124-48-1 | -----Dibromochloromethane | 9. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 9. | U |
| 71-43-2 | -----Benzene | 9. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 9. | U |
| 75-25-2 | -----Bromoform | 9. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 18. | U |
| 591-78-6 | -----2-Hexanone | 18. | U |
| 127-18-4 | -----Tetrachloroethene | 9. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 9. | U |
| 108-88-3 | -----Toluene | 9. | U |
| 108-90-7 | -----Chlorobenzene | 9. | U |
| 100-41-4 | -----Ethylbenzene | 9. | U |
| 100-42-5 | -----Styrene | 9. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 9. | U |
| 106-42-3 | -----m,p-Xylenes | 9. | U |
| 95-47-6 | -----o-Xylene | 9. | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-9 (4-6)

| | | | |
|----------------------------------|-------------------|---------------------|---------------------------------|
| Lab Name: AES, Inc. | Contract: | SDG No.: TB-5 (2-4) | |
| Lab Code: AES | Case No.: URS0301 | SAS No.: | Lab Sample ID: TB-9 (4-6) |
| Matrix: (soil/water) SOIL | | | Lab File ID: C0633 |
| Sample wt/vol: 5.000 (g/mL) G | | | Date Received: 02/25/03 |
| Level: (low/med) LOW | | | Date Analyzed: 02/28/03 |
| % Moisture: not dec. 44. | | | Dilution Factor: 1.0 |
| GC Column: RTX502.2 ID: .32 (mm) | | | Soil Aliquot Volume: _____ (uL) |
| Soil Extract Volume: _____ (uL) | | | |

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-10 (6-8)

| | | |
|----------------------------------|-------------------|---------------------------------|
| Lab Name: AES, Inc. | Contract: | |
| Lab Code: AES | Case No.: URS0301 | SAS No.: |
| Matrix: (soil/water) SOIL | | SDG No.: TB-5 (2-4) |
| Sample wt/vol: 5.000 (g/mL) G | | Lab Sample ID: TB-10 (6-8) |
| Level: (low/med) LOW | | Lab File ID: C0634 |
| % Moisture: not dec. 53. | | Date Received: 02/25/03 |
| GC Column: RTX502.2 ID: .32 (mm) | | Date Analyzed: 02/28/03 |
| Soil Extract Volume: _____ (uL) | | Dilution Factor: 1.0 |
| | | Soil Aliquot Volume: _____ (uL) |

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|--------------------------------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |
| 74-87-3 | -----Chloromethane | 21. | U |
| 74-83-9 | -----Bromomethane | 21. | U |
| 75-01-4 | -----Vinyl Chloride | 21. | U |
| 75-00-3 | -----Chloroethane | 21. | U |
| 75-09-2 | -----Methylene Chloride | 11. | U |
| 67-64-1 | -----Acetone | 21. | U |
| 75-15-0 | -----Carbon Disulfide | 11. | U |
| 75-35-4 | -----1,1-Dichloroethene | 11. | U |
| 75-34-3 | -----1,1-Dichloroethane | 11. | U |
| 156-60-5 | -----1,2-Dichloroethene-trans | 11. | U |
| 67-66-3 | -----Chloroform | 11. | U |
| 107-06-2 | -----1,2-Dichloroethane | 11. | U |
| 78-93-3 | -----2-Butanone | 21. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 11. | U |
| 56-23-5 | -----Carbon Tetrachloride | 11. | U |
| 75-27-4 | -----Bromodichloromethane | 11. | U |
| 78-87-5 | -----1,2-Dichloropropane | 11. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 11. | U |
| 79-01-6 | -----Trichloroethene | 11. | U |
| 124-48-1 | -----Dibromochloromethane | 11. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 11. | U |
| 71-43-2 | -----Benzene | 11. | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 11. | U |
| 75-25-2 | -----Bromoform | 11. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 21. | U |
| 591-78-6 | -----2-Hexanone | 21. | U |
| 127-18-4 | -----Tetrachloroethene | 11. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 11. | U |
| 108-88-3 | -----Toluene | 11. | U |
| 108-90-7 | -----Chlorobenzene | 11. | U |
| 100-41-4 | -----Ethylbenzene | 11. | U |
| 100-42-5 | -----Styrene | 11. | U |
| 156-59-2 | -----1,2-Dichloroethene-cis | 11. | U |
| 106-42-3 | -----m,p-Xylenes | 11. | U |
| 95-47-6 | -----o-Xylene | 11. | U |

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-10 (6-8)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____
 Matrix: (soil/water) SOIL SDG No.: TB-5 (2-4)
 Sample wt/vol: 5.000 (g/mL) G Lab Sample ID: TB-10 (6-8)
 Level: (low/med) LOW Lab File ID: C0634
 % Moisture: not dec. 53. Date Received: 02/25/03
 GC Column: RTX502.2 ID: .32 (mm) Date Analyzed: 02/28/03
 Soil Extract Volume: _____ (uL) Dilution Factor: 1.0
 Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5 (2-4)

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: URS0301 SAS No.:
 Matrix: (soil/water) SOIL SDG No.: TB-5 (2-4)
 Sample wt/vol: 30.0 (g/mL) G Lab Sample ID: TB-5 (2-4)
 Level: (low/med) LOW Lab File ID: B0580
 % Moisture: 20. decanted: (Y/N) N Date Received: 02/20/03
 Concentrated Extract Volume: 2000.0 (uL) Date Extracted: 02/21/03
 Injection Volume: 2.0 (uL) Date Analyzed: 03/19/03
 GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 420. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 420. | U |
| 95-57-8 | 2-Chlorophenol | 420. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 420. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 420. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 420. | U |
| 95-48-7 | 2-Methylphenol | 420. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 420. | U |
| 106-44-5 | 4-Methylphenol | 420. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 420. | U |
| 67-72-1 | Hexachloroethane | 420. | U |
| 98-95-3 | Nitrobenzene | 420. | U |
| 78-59-1 | Isophorone | 420. | U |
| 88-75-5 | 2-Nitrophenol | 420. | U |
| 105-67-9 | 2,4-Dimethylphenol | 420. | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 420. | U |
| 120-83-2 | 2,4-Dichlorophenol | 420. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420. | U |
| 91-20-3 | Naphthalene | 150. | U |
| 106-47-8 | 4-Chloroaniline | 420. | U |
| 87-68-3 | Hexachlorobutadiene | 420. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 420. | U |
| 91-57-6 | 2-Methylnaphthalene | 260. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 420. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 420. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 420. | U |
| 91-58-7 | 2-Chloronaphthalene | 420. | U |
| 88-74-4 | 2-Nitroaniline | 2100. | U |
| 131-11-3 | Dimethylphthalate | 420. | U |
| 208-96-8 | Acenaphthylene | 420. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 420. | U |
| 99-09-2 | 3-Nitroaniline | 2100. | U |
| 83-32-9 | Acenaphthene | 420. | U |

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-5 (2-4)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-5 (2-4)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0580
 Level: (Low/med) LOW Date Received: 02/20/03
 % Moisture: 20. decanted: (Y/N) N Date Extracted: 02/21/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 9.2

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|-----------|----------------------------|-------|---|
| 51-28-5 | 2,4-Dinitrophenol | 2100. | U |
| 100-02-7 | 4-Nitrophenol | 2100. | U |
| 132-64-9 | Dibenzofuran | 69. | J |
| 121-14-2 | 2,4-Dinitrotoluene | 420. | U |
| 84-66-2 | Diethylphthalate | 420. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 420. | U |
| 86-73-7 | Fluorene | 420. | U |
| 100-01-6 | 4-Nitroaniline | 2100. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2100. | U |
| 86-30-6 | n-Nitrosodiphenylamine | 420. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 420. | U |
| 118-74-1 | Hexachlorobenzene | 420. | U |
| 87-86-5 | Pentachlorophenol | 2100. | U |
| 85-01-8 | Phenanthrene | 270. | J |
| 120-12-7 | Anthracene | 97. | J |
| 86-74-8 | Carbazole | 420. | U |
| 84-74-2 | Di-n-butylphthalate | 420. | U |
| 206-44-0 | Fluoranthene | 140. | J |
| 129-00-0 | Pyrene | 150. | J |
| 85-68-7 | Butylbenzylphthalate | 420. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 830. | U |
| 56-55-3 | Benzo (a) anthracene | 170. | J |
| 218-01-9 | Chrysene | 220. | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 420. | U |
| 117-84-0 | Di-n-octylphthalate | 420. | U |
| 205-99-2 | Benzo (b) fluoranthene | 140. | J |
| 207-08-9 | Benzo (k) fluoranthene | 130. | J |
| 50-32-8 | Benzo (a) pyrene | 140. | J |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 140. | J |
| 53-70-3 | Dibenzo (a, h) anthracene | 420. | U |
| 191-24-2 | Benzo (g, h, i) perylene | 160. | J |

(1) - Cannot be separated from diphenylamine

2,236 ppm
TOTAL

FORM I SV-2

3/90

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-5 (2-4)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-5 (2-4)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0580
 Level: (low/med) LOW Date Received: 02/20/03
 % Moisture: 20. decanted: (Y/N) N Date Extracted: 02/21/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 9.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 9

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|--|-------|------------|-----|
| 1. | ALDOL CONDENSATE | 5.19 | 5000. | ABJ |
| 2. | 90-12-0 Naphthalene, 1-methyl- | 16.10 | 200. | J N |
| 3. | DIMETHYLNAPHTHALENE | 18.05 | 200. | J |
| 4. | TRIMETHYLNAPHTHALENE | 20.78 | 200. | J |
| 5. | 1921-70-6 Pentadecane, 2,6,10,14-tetra | 22.29 | 200. | J N |
| 6. | UNKNOWN | 22.89 | 200. | J |
| 7. | UNKNOWN PAH | 25.13 | 200. | J |
| 8. | 10544-50-0 Cyclic octaatomic sulfur | 26.88 | 2000. | J N |
| 9. | UNKNOWN | 30.25 | 200. | J |
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1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-6 (2-4)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-6 (2-4)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0583
 Level: (low/med) LOW Date Received: 02/21/03
 % Moisture: 19. decanted: (Y/N) N Date Extracted: 02/25/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 8.6

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 410. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 410. | U |
| 95-57-8 | 2-Chlorophenol | 410. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 410. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 410. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 410. | U |
| 95-48-7 | 2-Methylphenol | 410. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 410. | U |
| 106-44-5 | 4-Methylphenol | 410. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 410. | U |
| 67-72-1 | Hexachloroethane | 410. | U |
| 98-95-3 | Nitrobenzene | 410. | U |
| 78-59-1 | Isophorone | 410. | U |
| 88-75-5 | 2-Nitrophenol | 410. | U |
| 105-67-9 | 2,4-Dimethylphenol | 410. | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 410. | U |
| 120-83-2 | 2,4-Dichlorophenol | 410. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 410. | U |
| 91-20-3 | Naphthalene | 260. | J |
| 106-47-8 | 4-Chloroaniline | 410. | U |
| 87-68-3 | Hexachlorobutadiene | 410. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 410. | U |
| 91-57-6 | 2-Methylnaphthalene | 470. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 410. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 410. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 410. | U |
| 91-58-7 | 2-Chloronaphthalene | 410. | U |
| 88-74-4 | 2-Nitroaniline | 2100. | U |
| 131-11-3 | Dimethylphthalate | 410. | U |
| 208-96-8 | Acenaphthylene | 410. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 410. | U |
| 99-09-2 | 3-Nitroaniline | 2100. | U |
| 83-32-9 | Acenaphthene | 410. | U |

FORM I SV-1

3/90

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-6 (2-4)

Lab Name: AES, Inc. Contract: SDG No.: TB-5 (2-4)
 Lab Code: AES Case No.: URS0301 SAS No.: Lab Sample ID: TB-6 (2-4)
 Matrix: (soil/water) SOIL Lab File ID: B0583
 Sample wt/vol: 30.0 (g/mL) G Date Received: 02/21/03
 Level: (low/med) LOW Date Extracted: 02/25/03
 % Moisture: 19. decanted: (Y/N) N Date Analyzed: 03/19/03
 Concentrated Extract Volume: 2000.0 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 2100. | U |
| 100-02-7 | 4-Nitrophenol | 2100. | U |
| 132-64-9 | Dibenzofuran | 110. | J |
| 121-14-2 | 2,4-Dinitrotoluene | 410. | U |
| 84-66-2 | Diethylphthalate | 410. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 410. | U |
| 86-73-7 | Fluorene | 410. | U |
| 100-01-6 | 4-Nitroaniline | 2100. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2100. | U |
| 86-30-6 | n-Nitrosodiphenylamine | 410. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 410. | U |
| 118-74-1 | Hexachlorobenzene | 410. | U |
| 87-86-5 | Pentachlorophenol | 2100. | U |
| 85-01-8 | Phenanthrene | 340. | J |
| 120-12-7 | Anthracene | 410. | U |
| 86-74-8 | Carbazole | 410. | U |
| 84-74-2 | Di-n-butylphthalate | 410. | U |
| 206-44-0 | Fluoranthene | 170. | J |
| 129-00-0 | Pyrene | 140. | J |
| 85-68-7 | Butylbenzylphthalate | 410. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 820. | U |
| 56-55-3 | Benzo (a) anthracene | 170. | J |
| 218-01-9 | Chrysene | 190. | J |
| 117-81-7 | bis(2-Ethylhexyl) phthalate | 410. | U |
| 117-84-0 | Di-n-octylphthalate | 410. | U |
| 205-99-2 | Benzo (b) fluoranthene | 150. | J |
| 207-08-9 | Benzo (k) fluoranthene | 120. | J |
| 50-32-8 | Benzo (a) pyrene | 150. | J |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 120. | J |
| 53-70-3 | Dibenzo (a,h) anthracene | 410. | U |
| 191-24-2 | Benzo (g,h,i) perylene | 110. | J |

(1) - Cannot be separated from diphenylamine

2500 ppm
TOTAL

FORM - SV-2

3/90

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-6 (2-4)

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: URS0301 SAS No.:
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: 19. decanted: (Y/N) N
Concentrated Extract Volume: 2000.0 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N pH: 8.6

SDG No.: TB-5 (2-4)
Lab Sample ID: TB-6 (2-4)
Lab File ID: B0583
Date Received: 02/21/03
Date Extracted: 02/25/03
Date Analyzed: 03/19/03
Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|-------------------------------------|-------|------------|-----|
| 1. | ALDOL CONDENSATE | 5.21 | 5000. | ABJ |
| 2. | 10544-50-0 Cyclic octaatomic sulfur | 27.00 | 20000. | J N |
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1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-7 (8-10)

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: URS0301 SAS No.: SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-7 (8-10)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0581
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: 44. decanted: (Y/N) N Date Extracted: 02/25/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 11.1

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 600. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 600. | U |
| 95-57-8 | 2-Chlorophenol | 600. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 600. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 600. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 600. | U |
| 95-48-7 | 2-Methylphenol | 600. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 600. | U |
| 106-44-5 | 4-Methylphenol | 600. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 600. | U |
| 67-72-1 | Hexachloroethane | 600. | U |
| 98-95-3 | Nitrobenzene | 600. | U |
| 78-59-1 | Isophorone | 600. | U |
| 88-75-5 | 2-Nitrophenol | 600. | U |
| 105-67-9 | 2,4-Dimethylphenol | 600. | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 600. | U |
| 120-83-2 | 2,4-Dichlorophenol | 600. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 600. | U |
| 91-20-3 | Naphthalene | 600. | U |
| 106-47-8 | 4-Chloroaniline | 600. | U |
| 87-68-3 | Hexachlorobutadiene | 600. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 600. | U |
| 91-57-6 | 2-Methylnaphthalene | 600. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 600. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 600. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 600. | U |
| 91-58-7 | 2-Chloronaphthalene | 600. | U |
| 88-74-4 | 2-Nitroaniline | 3000. | U |
| 131-11-3 | Dimethylphthalate | 600. | U |
| 208-96-8 | Acenaphthylene | 600. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 600. | U |
| 99-09-2 | 3-Nitroaniline | 3000. | U |
| 83-32-9 | Acenaphthene | 600. | U |

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-7 (8-10)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URSC301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-7 (8-10)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0581
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: 44. decanted: (Y/N) N Date Extracted: 02/25/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 11.1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

| | | | |
|-----------|----------------------------|-------|---|
| 51-28-5 | 2,4-Dinitrophenol | 3000. | U |
| 100-02-7 | 4-Nitrophenol | 3000. | U |
| 132-64-9 | Dibenzofuran | 600. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 600. | U |
| 84-66-2 | Diethylphthalate | 600. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 600. | U |
| 86-73-7 | Fluorene | 600. | U |
| 100-01-6 | 4-Nitroaniline | 3000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3000. | U |
| 86-30-6 | n-Nitrosodiphenylamine | 600. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 600. | U |
| 118-74-1 | Hexachlorobenzene | 600. | U |
| 87-86-5 | Pentachlorophenol | 3000. | U |
| 85-01-8 | Phenanthrene | 600. | U |
| 120-12-7 | Anthracene | 600. | U |
| 86-74-8 | Carbazole | 600. | U |
| 84-74-2 | Di-n-butylphthalate | 600. | U |
| 206-44-0 | Fluoranthene | 600. | U |
| 129-00-0 | Pyrene | 600. | U |
| 85-68-7 | Butylbenzylphthalate | 600. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1200. | U |
| 56-55-3 | Benzo(a)anthracene | 600. | U |
| 218-01-9 | Chrysene | 600. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110. | J |
| 117-84-0 | Di-n-octylphthalate | 600. | U |
| 205-99-2 | Benzo(b)fluoranthene | 600. | U |
| 207-08-9 | Benzo(k)fluoranthene | 600. | U |
| 50-32-8 | Benzo(a)pyrene | 600. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 600. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 600. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 600. | U |

(1) - Cannot be separated from diphenylamine

IF
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-7 (8-10)

Lab Name: AES, Inc. Contract: SDG No.: TB-5 (2-4)
 Lab Code: AES Case No.: URS0301 SAS No.: Lab Sample ID: TB-7 (8-10)
 Matrix: (soil/water) SOIL Lab File ID: B0581
 Sample wt/vol: 30.0 (g/mL) G Date Received: 02/24/03
 Level: (low/med) LOW Date Extracted: 02/25/03
 % Moisture: 44. decanted: (Y/N) N Date Analyzed: 03/19/03
 Concentrated Extract Volume: 2000.0 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: 11.1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 3

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|-------------------------------------|-------|------------|-----|
| 1. | ALDOL CONDENSATE | 5.17 | 8000. | ABJ |
| 2. | 10544-50-0 Cyclic octaatomic sulfur | 26.87 | 2000. | J N |
| 3. | UNKNOWN | 30.25 | 300. | J |
| 4. | | | | |
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-8 (6-8)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-8 (6-8)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0582
 Level: (low/med) LOW Date Received: 02/24/03
 % Moisture: 25. decanted: (Y/N) N Date Extracted: 02/25/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/19/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 10.1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

| | | | |
|---------------|------------------------------|-------|---|
| 108-95-2----- | Phenol | 440. | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 440. | U |
| 95-57-8----- | 2-Chlorophenol | 440. | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 440. | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 440. | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 440. | U |
| 95-48-7----- | 2-Methylphenol | 440. | U |
| 108-60-1----- | bis(2-chloroisopropyl) ether | 440. | U |
| 106-44-5----- | 4-Methylphenol | 440. | U |
| 621-64-7----- | n-Nitroso-di n-propylamine | 440. | U |
| 67-72-1----- | Hexachloroethane | 440. | U |
| 98-95-3----- | Nitrobenzene | 440. | U |
| 78-59-1----- | Isophorone | 440. | U |
| 88-75-5----- | 2-Nitrophenol | 440. | U |
| 105-67-9----- | 2,4-Dimethylphenol | 440. | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 440. | U |
| 120-83-2----- | 2,4-Dichlorophenol | 440. | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 440. | U |
| 91-20-3----- | Naphthalene | 440. | U |
| 106-47-8----- | 4-Chloroaniline | 440. | U |
| 87-68-3----- | Hexachlorobutadiene | 440. | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 440. | U |
| 91-57-6----- | 2-Methylnaphthalene | 440. | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 440. | U |
| 88-06-2----- | 2,4,5-Trichlorophenol | 440. | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 440. | U |
| 91-58-7----- | 2-Chloronaphthalene | 440. | U |
| 88-74-4----- | 2-Nitroaniline | 2200. | U |
| 131-11-3----- | Dimethylphtalate | 440. | U |
| 208-96-8----- | Acenaphthylene | 440. | U |
| 506-20-2----- | 2,6-Dinitrotoluene | 440. | U |
| 99-09-2----- | 3-Nitroaniline | 2200. | U |
| 83-32-9----- | Acenaphthene | 440. | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-8 (6-8)

Lab Name: AES, Inc.
 Lab Code: AES
 Matrix: (soil/water) SOIL
 Sample wt/vol: 30.0 (g/mL) G
 Level: (low/med) LOW
 % Moisture: 25. decanted: (Y/N) N
 Concentrated Extract Volume: 2000.0 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N
 Contract: _____
 Case No.: URS0301
 SAS No.: _____
 pH: 10.1

SDG No.: TB-5 (2-4)
 Lab Sample ID: TB-8 (6-8)
 Lab File ID: B0582
 Date Received: 02/24/03
 Date Extracted: 02/25/03
 Date Analyzed: 03/19/03
 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

| | | | |
|-----------|----------------------------|-------|---|
| 51-28-5 | 2,4-Dinitrophenol | 2200. | U |
| 100-02-7 | 4-Nitrophenol | 2200. | U |
| 132-64-9 | Dibenzofuran | 440. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 440. | U |
| 84-66-2 | Diethylphthalate | 440. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 440. | U |
| 86-73-7 | Fluorene | 440. | U |
| 100-01-6 | 4-Nitroaniline | 2200. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2200. | U |
| 86-30-6 | n-Nitrosodiphenylamine | 440. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 440. | U |
| 118-74-1 | Hexachlorobenzene | 440. | U |
| 87-86-5 | Pentachlorophenol | 2200. | U |
| 85-01-8 | Phenanthrene | 440. | U |
| 120-12-7 | Anthracene | 440. | U |
| 86-74-8 | Carbazole | 440. | U |
| 84-74-2 | Di-n-butylphthalate | 440. | U |
| 206-44-0 | Fluoranthene | 440. | U |
| 129-00-0 | Pyrene | 440. | U |
| 85-68-7 | Butylbenzylphthalate | 440. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 890. | U |
| 56-55-3 | Benzo(a)anthracene | 440. | U |
| 218-01-9 | Chrysene | 440. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110. | J |
| 117-84-0 | Di-n-octylphthalate | 440. | U |
| 205-99-2 | Benzo(b)fluoranthene | 440. | U |
| 207-08-9 | Benzo(k)fluoranthene | 440. | U |
| 50-32-8 | Benzo(a)pyrene | 440. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 440. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 440. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 440. | U |

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-8 (6-8)

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: URS0301 SAS No.:
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: 25. decanted: (Y/N) N
Concentrated Extract Volume: 2000.0 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N pH: 10.1

SDG No.: TB-5 (2-4)
Lab Sample ID: TB-8 (6-8)
Lab File ID: B0582
Date Received: 02/24/03
Date Extracted: 02/25/03
Date Analyzed: 03/19/03
Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|-------------------------------------|-------|------------|-----|
| 1. | ALDOL CONDENSATE | 5.18 | 6000. | ABS |
| 2. | 10544-50-0 Cyclic octaatomic sulfur | 26.90 | 5000. | J N |
| 3. | UNKNOWN | 30.25 | 300. | J |
| 4. | | | | |
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1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-9 (4-6)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: TB-9 (4-6)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0596
 Level: (low/med) LOW Date Received: 02/25/03
 % Moisture: 44. decanted: (Y/N) N Date Extracted: 02/27/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/24/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 11.1

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 600. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 600. | U |
| 95-57-8 | 2-Chlorophenol | 600. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 600. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 600. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 600. | U |
| 95-48-7 | 2-Methylphenol | 600. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 600. | U |
| 106-44-5 | 4-Methylphenol | 600. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 600. | U |
| 67-72-1 | Hexachloroethane | 600. | U |
| 98-95-3 | Nitrobenzene | 600. | U |
| 78-59-1 | Isophorone | 600. | U |
| 88-75-5 | 2-Nitrophenol | 600. | U |
| 105-67-9 | 2,4-Dimethylphenol | 600. | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 600. | U |
| 120-83-2 | 2,4-Dichlorophenol | 600. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 600. | U |
| 91-20-3 | Naphthalene | 600. | U |
| 106-47-8 | 4-Chloroaniline | 600. | U |
| 87-68-3 | Hexachlorobutadiene | 600. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 600. | U |
| 91-57-6 | 2-Methylnaphthalene | 600. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 600. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 600. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 600. | U |
| 91-58-7 | 2-Chloronaphthalene | 600. | U |
| 88-74-4 | 2-Nitroaniline | 3000. | U |
| 131-11-3 | Dimethylphthalate | 600. | U |
| 208-96-8 | Acenaphthylene | 600. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 600. | U |
| 99-09-2 | 3-Nitroaniline | 3000. | U |
| 83-32-9 | Acenaphthene | 600. | U |

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TB-9 (4-6)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-9 (4-6)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0596
 Level: (low/med) LOW Date Received: 02/25/03
 % Moisture: 44. decanted: (Y/N) N Date Extracted: 02/27/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/24/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 11.1

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|-----------|------------------------------|-----------------|-------|---|
| 51-28-5 | 2,4-Dinitrophenol | 3000. | | U |
| 100-02-7 | 4-Nitrophenol | 3000. | | U |
| 132-64-9 | Dibenzofuran | 600. | | U |
| 121-14-2 | 2,4-Dinitrotoluene | 600. | | U |
| 84-66-2 | Diethylphthalate | 600. | | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 600. | | U |
| 86-73-7 | Fluorene | 600. | | U |
| 100-01-6 | 4-Nitroaniline | 3000. | | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3000. | | U |
| 86-30-6 | n-Nitrosodiphenylamine | 600. | | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 600. | | U |
| 118-74-1 | Hexachlorobenzene | 600. | | U |
| 87-86-5 | Pentachlorophenol | 3000. | | U |
| 85-01-8 | Phenanthrene | 600. | | U |
| 120-12-7 | Anthracene | 600. | | U |
| 86-74-8 | Carbazole | 600. | | U |
| 84-74-2 | Di-n-butylphthalate | 600. | | U |
| 206-44-0 | Fluoranthene | 600. | | U |
| 129-00-0 | Pyrene | 600. | | U |
| 85-68-7 | Butylbenzylphthalate | 600. | | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1200. | | U |
| 56-55-3 | Benzo (a) anthracene | 600. | | U |
| 218-01-9 | Chrysene | 600. | | U |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 600. | | U |
| 117-84-0 | Di-n-octylphthalate | 600. | | U |
| 205-99-2 | Benzo (b) fluoranthene | 600. | | U |
| 207-08-9 | Benzo (k) fluoranthene | 600. | | U |
| 50-32-8 | Benzo (a) pyrene | 600. | | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 600. | | U |
| 53-70-3 | Dibenzo (a,h) anthracene | 600. | | U |
| 191-24-2 | Benzo (g,h,i) perylene | 600. | | U |

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-9 (4-6)

Lab Name: AES, Inc. Contract: SDG No.: TB-5 (2-4)
 Lab Code: AES Case No.: URS0301 SAS No.: Lab Sample ID: TB-9 (4-6)
 Matrix: (soil/water) SOIL Lab File ID: B0596
 Sample wt/vol: 30.0 (g/mL) G Date Received: 02/25/03
 Level: (low/med) LOW Date Extracted: 02/27/03
 % Moisture: 44. decanted: (Y/N) N Date Analyzed: 03/24/03
 Concentrated Extract Volume: 2000.0 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: 11.1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|------------------|------|------------|-----|
| 1. | ALDOL CONDENSATE | 4.81 | 8000. | ABJ |
| 2. | | | | |
| 3. | | | | |
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| 29. | | | | |
| 30. | | | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-10 (6-8)

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: URS0301 SAS No.:
 Matrix: (soil/water) SOIL SDG No.: TB-5 (2-4)
 Sample wt/vol: 30.0 (g/mL) G Lab Sample ID: TB-10 (6-8)
 Level: (low/med) LOW Lab File ID: B0597
 % Moisture: 53. decanted: (Y/N) N Date Received: 02/25/03
 Concentrated Extract Volume: 2000.0 (uL) Date Extracted: 02/27/03
 Injection Volume: 2.0 (uL) Date Analyzed: 03/24/03
 GPC Cleanup: (Y/N) N pH: 10.9 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 710. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 710. | U |
| 95-57-8 | 2-Chlorophenol | 710. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 710. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 710. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 710. | U |
| 95-48-7 | 2-Methylphenol | 710. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 710. | U |
| 106-44-5 | 4-Methylphenol | 710. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 710. | U |
| 67-72-1 | Hexachloroethane | 710. | U |
| 98-95-3 | Nitrobenzene | 710. | U |
| 78-59-1 | Isophorone | 710. | U |
| 88-75-5 | 2-Nitrophenol | 710. | U |
| 105-67-9 | 2,4-Dimethylphenol | 710. | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 710. | U |
| 120-83-2 | 2,4-Dichlorophenol | 710. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 710. | U |
| 91-20-3 | Naphthalene | 710. | U |
| 106-47-8 | 4-Chloroaniline | 710. | U |
| 87-68-3 | Hexachlorobutadiene | 710. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 710. | U |
| 91-57-6 | 2-Methylnaphthalene | 710. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 710. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 710. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 710. | U |
| 91-58-7 | 2-Chloronaphthalene | 710. | U |
| 88-74-4 | 2-Nitroaniline | 3500. | U |
| 131-11-3 | Dimethylphthalate | 710. | U |
| 208-96-8 | Acenaphthylene | 710. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 710. | U |
| 99-09-2 | 3-Nitroaniline | 3500. | U |
| 83-32-9 | Acenaphthene | 710. | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-10 (6-8)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: URS0301 SAS No.: _____ SDG No.: TB-5 (2-4)
 Matrix: (soil/water) SOIL Lab Sample ID: TB-10 (6-8)
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0597
 Level: (low/med) LOW Date Received: 02/25/03
 % Moisture: 53. decanted: (Y/N) N Date Extracted: 02/27/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 03/24/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 10.9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------|----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 3500. | U |
| 100-02-7 | 4-Nitrophenol | 3500. | U |
| 132-64-9 | Dibenzofuran | 710. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 710. | U |
| 84-66-2 | Diethylphthalate | 710. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 710. | U |
| 86-73-7 | Fluorene | 710. | U |
| 100-01-6 | 4-Nitroaniline | 3500. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3500. | U |
| 86-30-6 | n-Nitrosodiphenylamine | 710. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 710. | U |
| 118-74-1 | Hexachlorobenzene | 710. | U |
| 87-86-5 | Pentachlorophenol | 3500. | U |
| 85-01-8 | Phenanthrene | 710. | U |
| 120-12-7 | Anthracene | 710. | U |
| 86-74-8 | Carbazole | 710. | U |
| 84-74-2 | Di-n-butylphthalate | 710. | U |
| 206-44-0 | Fluoranthene | 710. | U |
| 129-00-0 | Pyrene | 710. | U |
| 85-68-7 | Butylbenzylphthalate | 710. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1400. | U |
| 56-55-3 | Benzo(a)anthracene | 710. | U |
| 218-01-9 | Chrysene | 710. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 710. | U |
| 117-84-0 | Di-n-octylphthalate | 710. | U |
| 205-99-2 | Benzo(b)fluoranthene | 710. | U |
| 207-08-9 | Benzo(k)fluoranthene | 710. | U |
| 50-32-8 | Benzo(a)pyrene | 710. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 710. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 710. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 710. | U |

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB-10 (6-8)

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: URS0301 SAS No.:
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
& Moisture: 53. decanted: (Y/N) N
Concentrated Extract Volume: 2000.0 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N pH: 10.9

SDG No.: TB-5 (2-4)
Lab Sample ID: TB-10 (6-8)
Lab File ID: B0597
Date Received: 02/25/03
Date Extracted: 02/27/03
Date Analyzed: 03/24/03
Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 5

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---------------|--------------------------|-------|------------|-----|
| 1. | ALDOL CONDENSATE | 4.82 | 10000. | ABJ |
| 2. 10544-50-0 | Cyclic octaatomic sulfur | 26.23 | 400. | J N |
| 3. | UNKNOWN HYDROCARBON | 34.04 | 500. | J |
| 4. | UNKNOWN COLUMN BLEED | 36.23 | 600. | J |
| 5. | UNKNOWN COLUMN BLEED | 37.23 | 1000. | J |
| 6. | | | | |
| 7. | | | | |
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ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5 (2-4)

| | | | |
|---------------------------------|-------------|-------------------|----------------------------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: SDG No.: TB-5 (2-4) |
| Matrix: (soil/water) | Soil | | Lab Sample ID: TB-5 (2-4) |
| Sample wt/vol: | 30.0 G | | Lab File ID: B339 |
| % Moisture: | 20 | | Date Received: 02/20/03 |
| Extraction: (SepF/Cont/So Sone) | | | Date Extracted: 02/20/03 |
| Concentrated Extract Volur | 10000 uL | | Date Analyzed: 03/01/03 |
| Injection Volume: | 1.5 uL | | Dilution Factor: 1.0 |
| GPC Cleanup: (Y/N) | N pH: 8.2 | | Sulfur Cleanup: (Y/N) Y |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|------------|--------------------|-----|---|
| 319-84-6 | alpha-BHC | 2.1 | U |
| 319-85-7 | beta-BHC | 2.1 | U |
| 319-86-8 | delta-BHC | 2.1 | U |
| 58-89-9 | gamma-BHC(Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 2.1 | U |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 2.1 | U |
| 60-57-1 | Dieldrin | 4.2 | U |
| 72-55-9 | 4,4'-DDE | 4.2 | U |
| 72-20-8 | Endrin | 4.2 | U |
| 33213-65-9 | Endosulfan II | 4.2 | U |
| 72-54-8 | 4,4'-DDD | 4.2 | U |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U |
| 50-29-3 | 4,4'-DDT | 4.2 | U |
| 72-43-5 | Methoxychlor | 21 | U |
| 53494-70-5 | Endrin Ketone | 4.2 | U |
| 7421-36-3 | Endrin Aldehyde | 4.2 | U |
| 5103-71-9 | alpha-Chlordane | 2.1 | U |
| 5103-74-2 | gamma-Chlordane | 2.1 | U |
| 8001-35-2 | Toxaphene | 210 | U |
| 12674-11-2 | Aroclor 1016 | 42 | U |
| 11104-28-2 | Aroclor 1221 | 42 | U |
| 11141-16-5 | Aroclor 1232 | 42 | U |
| 53469-21-9 | Aroclor 1242 | 42 | U |
| 12672-29-6 | Aroclor 1248 | 42 | U |
| 11097-69-1 | Aroclor 1254 | 42 | U |
| 11096-82-5 | Aroclor 1260 | 42 | U |

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-6 (2-4)

| | | | |
|----------------------------------|-----------|-------------------|------------------------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: SDG No.: TB-5 (2-4) |
| Matrix: (soil/water) | Soil | | Lab Sample ID: TB-6 (2-4) |
| Sample wt/vol: | 30.0 G | | Lab file ID: B362 |
| % Moisture: | 19 | | Date Received: 02/21/03 |
| Extraction: (SepF/Cont/So) Song | | | Date Extracted: 02/25/03 |
| Concentrated Extract Volur 10000 | uL | | Date Analyzed: 03/03/03 |
| Injection Volume: | 1.5 uL | | Dilution Factor: 1.0 |
| GPC Cleanup: (Y/N) | N | pH: 8.6 | Sulfur Cleanup: (Y/N) Y |

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------------|-----------------------|---|
| 319-84-6 | alpha-BHC | 2.1 | U |
| 319-85-7 | beta-BHC | 2.1 | U |
| 319-86-8 | delta-BHC | 2.1 | U |
| 58-89-9 | gamma-BHC(Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 2.1 | U |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 2.1 | U |
| 60-57-1 | Dieldrin | 4.1 | U |
| 72-55-9 | 4,4'-DDE | 4.1 | U |
| 72-20-8 | Endrin | 4.1 | U |
| 33213-65-9 | Endosulfan II | 4.1 | U |
| 72-54-8 | 4,4'-DDD | 4.1 | U |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U |
| 50-29-3 | 4,4'-DDT | 4.1 | U |
| 72-43-5 | Methoxychlor | 21 | U |
| 53494-70-5 | Endrin Ketone | 4.1 | U |
| 7421-36-3 | Endrin Aldehyde | 4.1 | U |
| 5103-71-9 | alpha-Chlordane | 2.1 | U |
| 5103-74-2 | gamma-Chlordane | 2.1 | U |
| 8001-35-2 | Toxaphene | 210 | U |
| 12674-11-2 | Aroclor 1016 | 41 | U |
| 11104-28-2 | Aroclor 1221 | 41 | U |
| 11141-16-5 | Aroclor 1232 | 41 | U |
| 53469-21-9 | Aroclor 1242 | 41 | U |
| 12672-29-6 | Aroclor 1248 | 41 | U |
| 11097-69-1 | Aroclor 1254 | 41 | U |
| 11096-82-5 | Aroclor 1260 | 41 | U |

LD
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-7 (8-10)

| | | | |
|----------------------------------|-----------|-------------------|------------------------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: SDG No.: TB-5 (2-4) |
| Matrix: (soil/water) | Soil | | Lab Sample ID: TB-7 (8-10) |
| Sample wt/vol: | 30.0 G | | Lab File ID: B363 |
| % Moisture: | 42 | | Date Received: 02/24/03 |
| Extraction: (SepF/Conc/So Sonic) | | | Date Extracted: 02/25/03 |
| Concentrated Extract Volur 10000 | uL | | Date Analyzed: 03/03/03 |
| Injection Volume: | 1.5 uL | | Dilution Factor: 1.0 |
| GPC Cleanup: (Y/N) | N | pH: 11.2 | Sulfur Cleanup: (Y/N) Y |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|------------|--------------------|-----|---|
| 319-84-6 | alpha-BHC | 2.9 | U |
| 319-85-7 | beta-BHC | 2.9 | U |
| 319-86-8 | delta-BHC | 2.9 | U |
| 58-89-9 | gamma-BHC(Lindane) | 2.9 | U |
| 76-44-8 | Heptachlor | 2.9 | U |
| 309-00-2 | Aldrin | 2.9 | U |
| 1024-57-3 | Heptachlor epoxide | 2.9 | U |
| 959-98-8 | Endosulfan I | 2.9 | U |
| 60-57-1 | Dieldrin | 5.8 | U |
| 72-55-9 | 4,4'-DDE | 5.8 | U |
| 72-20-8 | Endrin | 5.8 | U |
| 33213-65-9 | Endosulfan II | 5.8 | U |
| 72-54-8 | 4,4'-DDD | 5.8 | U |
| 1031-07-8 | Endosulfan Sulfate | 5.8 | U |
| 50-29-3 | 4,4'-DDT | 5.8 | U |
| 72-45-5 | Methoxychlor | 29 | U |
| 53494-70-5 | Endrin Ketone | 5.8 | U |
| 7421-36-3 | Endrin Aldehyde | 5.8 | U |
| 5103-71-9 | alpha-Chlordane | 2.9 | U |
| 5103-74-2 | gamma-Chlordane | 2.9 | U |
| 8001-35-2 | Toxaphene | 290 | U |
| 12674-11-2 | Aroclor 1016 | 58 | U |
| 11104-28-2 | Aroclor 1221 | 58 | U |
| 11141-16-5 | Aroclor 1232 | 58 | U |
| 53469-21-9 | Aroclor 1242 | 58 | U |
| 12672-29-6 | Aroclor 1248 | 58 | U |
| 11097-69-1 | Aroclor 1254 | 58 | U |
| 11096-82-5 | Aroclor 1260 | 58 | U |

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-S (6-8)

| | | | |
|----------------------------------|-----------|-------------------|-----------------------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: SDG No.: TB-5(2-4) |
| Matrix: (soil/water) | Soil | | Lab Sample ID: TB-8(6-8) |
| Sample wt/vol: | 30.0 G | | Lab File ID: B364 |
| % Moisture: | 26 | | Date Received: 02/24/03 |
| Extraction: (SepF/Cont/So Sont | | | Date Extracted: 02/25/03 |
| Concentrated Extract Volur 10000 | uL | | Date Analyzed: 03/03/03 |
| Injection Volume: | 1.5 uL | | Dilution Factor: 1.0 |
| GPC Cleanup: (Y/N) | N | pH: 10.1 | Sulfur Cleanup: (Y/N) Y |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|------------|--------------------|-----------------|-------|---|
| 319-84-6 | alpha-BHC | 2.3 | U | |
| 319-85-7 | beta-BHC | 2.3 | U | |
| 319-86-8 | delta-BHC | 2.3 | U | |
| 58-89-9 | gamma-BHC(Lindane) | 2.3 | U | |
| 76-44-8 | Heptachlor | 2.3 | U | |
| 309-00-2 | Aldrin | 2.3 | U | |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U | |
| 959-98-8 | Endosulfan I | 2.3 | U | |
| 60-57-1 | Dieldrin | 4.5 | U | |
| 72-55-9 | 4,4'-DDE | 4.5 | U | |
| 72-20-8 | Endrin | 4.5 | U | |
| 33213-65-9 | Endosulfan II | 4.5 | U | |
| 72-54-8 | 4,4'-DDD | 4.5 | U | |
| 1031-07-8 | Endosulfan Sulfate | 4.5 | U | |
| 50-29-3 | 4,4'-DDT | 4.5 | U | |
| 72-43-5 | Methoxychlor | 23 | U | |
| 53494-70-5 | Endrin Ketone | 4.5 | U | |
| 7421-36-3 | Endrin Aldehyde | 4.5 | U | |
| 5103-71-9 | alpha-Chlordane | 2.3 | U | |
| 5103-74-2 | gamma-Chlordane | 2.3 | U | |
| 8001-35-2 | Toxaphene | 230 | U | |
| 12674-11-2 | Aroclor 1016 | 45 | U | |
| 11104-28-2 | Aroclor 1221 | 45 | U | |
| 11141-16-5 | Aroclor 1252 | 45 | U | |
| 53469-21-9 | Aroclor 1242 | 45 | U | |
| 12672-29-6 | Aroclor 1248 | 45 | U | |
| 11097-69-1 | Aroclor 1254 | 45 | U | |
| 11096-82-5 | Aroclor 1260 | 45 | U | |

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9 (4-6)

| | | | |
|----------------------------------|-----------|-------------------|------------------------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: SDG No.: TB-5 (2-4) |
| Matrix: (soil/water) | Soil | | Lab Sample ID: TB-9 (4-6) |
| Sample wt/vol: | 30.0 G | | Lab File ID: B365 |
| % Moisture: | 44 | | Date Received: 02/25/03 |
| Extraction: (SepF/Conn/So Sonc) | | | Date Extracted: 02/25/03 |
| Concentrated Extract Volur 10000 | uL | | Date Analyzed: 03/03/03 |
| Injection Volume: | 1.5 uL | | Dilution Factor: 1.0 |
| GPC Cleanup: (Y/N) | N | pH: 11.1 | Sulfur Cleanup: (Y/N) Y |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG U

| | | | |
|------------|--------------------|-----|---|
| 319-84-6 | alpha-BHC | 3.0 | U |
| 319-85-7 | beta-BHC | 3.0 | U |
| 319-86-8 | delta-BHC | 3.0 | U |
| 58-89-9 | gamma-BHC(Lindane) | 3.0 | U |
| 76-44-8 | Heptachlor | 3.0 | U |
| 309-00-2 | Aldrin | 3.0 | U |
| 1024-57-3 | Heptachlor epoxide | 3.0 | U |
| 959-98-8 | Endosulfan I | 3.0 | U |
| 60-57-1 | Dieldrin | 6.0 | U |
| 72-55-9 | 4,4'-DDE | 6.0 | U |
| 72-20-8 | Endrin | 6.0 | U |
| 33213-65-9 | Endosulfan II | 6.0 | U |
| 72-54-8 | 4,4'-DDD | 6.0 | U |
| 1031-07-8 | Endosulfan Sulfate | 6.0 | U |
| 50-29-3 | 4,4'-DDT | 6.0 | U |
| 72-43-5 | Methoxychlor | 30 | U |
| 53494-70-5 | Endrin Ketone | 6.0 | U |
| 7421-36-3 | Endrin Aldehyde | 6.0 | U |
| 5103-71-9 | alpha-Chlordane | 3.0 | U |
| 5103-74-2 | gamma-Chlordane | 3.0 | U |
| 8001-35-2 | Toxaphene | 300 | U |
| 12674-11-2 | Aroclor 1016 | 60 | U |
| 11104-28-2 | Aroclor 1221 | 60 | U |
| 11141-16-5 | Aroclor 1232 | 60 | U |
| 53469-21-9 | Aroclor 1242 | 60 | U |
| 12672-29-6 | Aroclor 1248 | 60 | U |
| 11097-69-1 | Aroclor 1254 | 60 | U |
| 11096-82-5 | Aroclor 1260 | 60 | U |

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-10 (6-8)

| | | | |
|----------------------------------|-----------|-----------------------|-------------|
| Lab Name: | AES, INC. | Contract: | |
| Lab Code: | AES | Case No. URS 0301 | SAS No.: |
| Matrix: (soil/water) | Soil | SDG No.: | TB-5 (2-4) |
| Sample wt/vol: | 30.0 G | Lab Sample ID: | TB-10 (6-8) |
| % Moisture: | 53 | Lab File ID: | B366 |
| Extraction: (Sep/Cont/So Song) | | Date Received: | 02/25/03 |
| Concentrated Extract Volur 10000 | uL | Date Extracted: | 02/25/03 |
| Injection Volume: | 1.5 uL | Date Analyzed: | 03/03/03 |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1.0 |
| | pH: 10.9 | Sulfur Cleanup: (Y/N) | Y |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | UG/KG | Q |
|------------|--------------------|-------|---|
| 319-84-6 | alpha-BHC | 3.6 | U |
| 319-85-7 | beta-BHC | 3.6 | U |
| 319-86-8 | delta-BHC | 3.6 | U |
| 58-89-9 | gamma-BHC(Lindane) | 3.6 | U |
| 76-44-8 | Heptachlor | 3.6 | U |
| 309-00-2 | Aldrin | 3.6 | U |
| 1024-57-3 | Heptachlor epoxide | 3.6 | U |
| 959-98-8 | Endosulfan I | 3.6 | U |
| 60-57-1 | Dieldrin | 7.1 | U |
| 72-55-9 | 4,4'-DDE | 7.1 | U |
| 72-20-8 | Endrin | 7.1 | U |
| 33213-65-9 | Endosulfan II | 7.1 | U |
| 72-54-8 | 4,4'-DDD | 7.1 | U |
| 1031-07-8 | Endosulfan Sulfate | 7.1 | U |
| 50-29-3 | 4,4'-DDT | 7.1 | U |
| 72-43-5 | Methoxychlor | 36 | U |
| 53494-70-5 | Endrin Ketone | 7.1 | U |
| 7421-36-3 | Endrin Aldehyde | 7.1 | U |
| 5103-71-9 | alpha-Chlordane | 3.6 | U |
| 5103-74-2 | gamma-Chlordane | 3.6 | U |
| 8001-35-2 | Toxaphene | 360 | U |
| 12674-11-2 | Aroclor 1016 | 71 | U |
| 11104-28-2 | Aroclor 1221 | 71 | U |
| 11141-16-5 | Aroclor 1232 | 71 | U |
| 53469-21-9 | Aroclor 1242 | 71 | U |
| 12672-29-6 | Aroclor 1248 | 71 | U |
| 11097-69-1 | Aroclor 1254 | 71 | U |
| 11096-82-5 | Aroclor 1260 | 71 | U |

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5(2-4)

Lab Name: ADIRONDACK ENVIRONMENTAL

Contract: _____

Lab Code: AES

Case No.: URS_0301

SAS No.: _____

SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL

Lab Sample ID: TB-5(2-4)

Level (low/med): LOW

Date Received: 02/20/03

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 5690 | | | P |
| 7440-36-0 | Antimony | 0.62 | U | N | P |
| 7440-38-2 | Arsenic | 0.55 | U | N | P |
| 7440-39-3 | Barium | 64.3 | | | P |
| 7440-41-7 | Beryllium | 0.60 | B | | P |
| 7440-43-9 | Cadmium | 0.050 | U | N | P |
| 7440-70-2 | Calcium | 8980 | | E | P |
| 7440-47-3 | Chromium | 12.0 | | | P |
| 7440-48-4 | Cobalt | 5.2 | B | | P |
| 7440-50-8 | Copper | 9.7 | | | P |
| 7439-89-6 | Iron | 24600 | | E* | P |
| 7439-92-1 | Lead | 0.32 | U | N | P |
| 7439-95-4 | Magnesium | 636 | B | | P |
| 7439-96-5 | Manganese | 222 | | | P |
| 7439-97-6 | Mercury | 0.08 | U | N | AV |
| 7440-02-0 | Nickel | 0.25 | U | N | P |
| 7440-09-7 | Potassium | 412 | B | E | P |
| 7782-49-2 | Selenium | 0.62 | U | N | P |
| 7440-22-4 | Silver | 0.45 | U | | P |
| 7440-23-5 | Sodium | 437 | B | E | P |
| 7440-28-0 | Thallium | 0.80 | U | N | P |
| 7440-62-2 | Vanadium | 19.1 | | | P |
| 7440-66-6 | Zinc | 25.9 | | | P |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-6(2-4)

Lab Name: ADIRONDACK ENVIRONMENTAL

Contract: _____

Lab Code: AES

Case No.: URS_0301

SAS No.: _____

SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL

Lab Sample ID: TB-6(2-4)

Level (low/med): LOW

Date Received: 02/21/03

Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 27400 | | | P |
| 7440-36-0 | Antimony | 0.62 | U | N | P |
| 7440-38-2 | Arsenic | 0.54 | U | N | P |
| 7440-39-3 | Barium | 207 | | | P |
| 7440-41-7 | Beryllium | 4.1 | | | P |
| 7440-43-9 | Cadmium | 0.049 | U | N | P |
| 7440-70-2 | Calcium | 119000 | | E | P |
| 7440-47-3 | Chromium | 21.7 | | | P |
| 7440-48-4 | Cobalt | 5.3 | B | | P |
| 7440-50-8 | Copper | 18.9 | | | P |
| 7439-89-6 | Iron | 102000 | | E* | P |
| 7439-92-1 | Lead | 9.4 | | N | P |
| 7439-95-4 | Magnesium | 7960 | | | P |
| 7439-96-5 | Manganese | 2790 | | | P |
| 7439-97-6 | Mercury | 0.18 | | N | AV |
| 7440-02-0 | Nickel | 0.25 | U | N | P |
| 7440-09-7 | Potassium | 2440 | | E | P |
| 7782-49-2 | Selenium | 0.62 | U | N | P |
| 7440-22-4 | Silver | 0.44 | U | | P |
| 7440-23-5 | Sodium | 570 | B | E | P |
| 7440-28-0 | Thallium | 0.79 | U | N | P |
| 7440-62-2 | Vanadium | 28.3 | | | P |
| 7440-66-6 | Zinc | 300 | | | P |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-7(8-10)

Lab Name: ADIRONDACK ENVIRONMENTAL

Contract: _____

Lab Code: AES

Case No.: URS_0301

SAS No.: _____

SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL

Lab Sample ID: TB-7(8-10)

Level (low/med): LOW

Date Received: 02/24/03

% Solids: 58.0

Concentration Units (ug/L or ng/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 34700 | | | P |
| 7440-36-0 | Antimony | 0.86 | U | N | P |
| 7440-38-2 | Arsenic | 0.76 | U | N | P |
| 7440-39-3 | Barium | 291 | | | P |
| 7440-41-7 | Beryllium | 6.3 | | | P |
| 7440-43-9 | Cadmium | 0.069 | U | N | P |
| 7440-70-2 | Calcium | 229000 | | E | P |
| 7440-47-3 | Chromium | 5.1 | | | P |
| 7440-48-4 | Cobalt | 2.3 | E | | P |
| 7440-50-8 | Copper | 0.48 | U | | P |
| 7439-89-6 | Iron | 2230 | | E* | P |
| 7439-92-1 | Lead | 0.45 | U | N | P |
| 7439-95-4 | Magnesium | 13500 | | | P |
| 7439-96-5 | Manganese | 2390 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | N | AV |
| 7440-02-0 | Nickel | 0.34 | U | N | P |
| 7440-09-7 | Potassium | 1860 | | E | P |
| 7782-49-2 | Selenium | 0.86 | U | N | P |
| 7440-22-4 | Silver | 5.4 | | | P |
| 7440-23-5 | Sodium | 972 | B | E | P |
| 7440-28-0 | Thallium | 1.1 | U | N | P |
| 7440-62-2 | Vanadium | 8.4 | B | | P |
| 7440-66-6 | Zinc | 0.17 | U | | P |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-8(6-8)

Lab Name: ADIRONDACK ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: URS_0301 SAS No.: _____ SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL Lab Sample ID: TB-8(6-8)

Level (low/med): LOW Date Received: 02/24/03

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 43000 | | | P |
| 7440-36-0 | Antimony | 0.68 | U | N | P |
| 7440-38-2 | Arsenic | 0.59 | U | N | P |
| 7440-39-3 | Barium | 652 | | | P |
| 7440-41-7 | Beryllium | 7.5 | | | P |
| 7440-43-9 | Cadmium | 0.054 | U | N | P |
| 7440-70-2 | Calcium | 259000 | | E | P |
| 7440-47-3 | Chromium | 11.7 | | | P |
| 7440-48-4 | Cobalt | 3.0 | E | | P |
| 7440-50-8 | Copper | 0.38 | U | | P |
| 7439-89-6 | Iron | 8310 | | E* | P |
| 7439-92-1 | Lead | 0.35 | U | N | P |
| 7439-95-4 | Magnesium | 19900 | | | P |
| 7439-96-5 | Manganese | 4370 | | | P |
| 7439-97-6 | Mercury | 0.09 | U | N | AV |
| 7440-02-0 | Nickel | 0.27 | U | N | P |
| 7440-09-7 | Potassium | 3510 | | E | P |
| 7782-49-2 | Selenium | 0.68 | U | N | P |
| 7440-22-4 | Silver | 4.5 | | | P |
| 7440-23-5 | Sodium | 585 | E | E | P |
| 7440-28-0 | Thallium | 0.86 | U | N | P |
| 7440-62-2 | Vanadium | 26.1 | | | P |
| 7440-66-6 | Zinc | 0.14 | U | | P |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9(4-6)

Lab Name: ADIRONDACK ENVIRONMENTAL

Contract: _____

Lab Code: AES

Case No.: URS_0301

SAS No.: _____

SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL

Lab Sample ID: TB-9(4-6)

Level (low/med): LOW

Date Received: 02/25/03

Solids: 56.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 24000 | | | P |
| 7440-36-0 | Antimony | 0.89 | U | N | P |
| 7440-38-2 | Arsenic | 0.79 | U | N | P |
| 7440-39-3 | Barium | 233 | | | P |
| 7440-41-7 | Beryllium | 3.9 | | | P |
| 7440-43-9 | Cadmium | 0.071 | U | N | P |
| 7440-70-2 | Calcium | 172000 | | E | P |
| 7440-47-3 | Chromium | 2.7 | B | | P |
| 7440-48-4 | Cobalt | 1.4 | B | | P |
| 7440-50-8 | Copper | 0.50 | U | | P |
| 7439-89-6 | Iron | 2300 | | E* | P |
| 7439-92-1 | Lead | 0.46 | U | N | P |
| 7439-95-4 | Magnesium | 9360 | | | P |
| 7439-96-5 | Manganese | 1250 | | | P |
| 7439-97-6 | Mercury | 0.12 | U | N | AV |
| 7440-02-0 | Nickel | 0.36 | U | N | P |
| 7440-09-7 | Potassium | 1170 | B | E | P |
| 7782-49-2 | Selenium | 0.89 | U | N | P |
| 7440-22-4 | Silver | 3.1 | B | | P |
| 7440-23-5 | Sodium | 507 | B | E | P |
| 7440-28-0 | Thallium | 1.1 | U | N | P |
| 7440-62-2 | Vanadium | 6.1 | B | | P |
| 7440-66-6 | Zinc | 0.18 | U | | P |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments: _____

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-10(6-8)

Lab Name: ADIRONDACK ENVIRONMENTAL Contract: _____

Lab Code: ABS Case No.: URS_0301 SAS No.: _____ SDG No.: TB-5(2-4)

Matrix (soil/water): SOIL Lab Sample ID: TB-10(6-8)

Level (low/med): LOW Date Received: 02/25/03

% Solids: 47.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 45500 | | | P |
| 7440-36-0 | Antimony | 1.1 | U | N | P |
| 7440-38-2 | Arsenic | 0.94 | U | N | P |
| 7440-39-3 | Barium | 467 | | | P |
| 7440-41-7 | Beryllium | 7.2 | | | P |
| 7440-43-9 | Cadmium | 0.085 | U | N | P |
| 7440-70-2 | Calcium | 309000 | | E | P |
| 7440-47-3 | Chromium | 6.3 | | | P |
| 7440-48-4 | Cobalt | 2.7 | B | | P |
| 7440-50-8 | Copper | 0.60 | U | | P |
| 7439-89-6 | Iron | 3310 | | E* | P |
| 7439-92-1 | Lead | 0.55 | U | N | P |
| 7439-95-4 | Magnesium | 16100 | | | P |
| 7439-96-5 | Manganese | 3230 | | | P |
| 7439-97-6 | Mercury | 0.14 | U | N | AV |
| 7440-02-0 | Nickel | 0.43 | U | N | P |
| 7440-09-7 | Potassium | 2260 | | E | P |
| 7782-49-2 | Selenium | 1.1 | U | N | P |
| 7440-22-4 | Silver | 5.7 | | | P |
| 7440-23-5 | Sodium | 1880 | B | E | P |
| 7440-28-0 | Thallium | 1.4 | U | N | P |
| 7440-62-2 | Vanadium | 9.4 | B | | P |
| 7440-66-6 | Zinc | 0.21 | U | | P |
| 7440-42-3 | Boron | | | | NR |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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CONVENTIONALS ANALYSIS DATA SHEET

TB-5 (2-4)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: 030220B-01

Level (Low/Med): Low

Date Received: 2/20/03

% Solids: 79.7

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| % Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.1 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 0.20 | | | EPA 9012 |
| Amenable Cyanide | 0.20 | U | | EPA 9012 |
| | | | | |
| | | | | |
| | | | | |

Comments

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

TB-6 (2-4)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: C30221A-01

Level (Low/Med): Low

Date Received: 2/21/03

* Solids: 80.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.2 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 2.72 | | | EPA 9012 |
| Amenable Cyanide | 0.19 | U | | EPA 9012 |
| | | | | |
| | | | | |
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Comments

U.S. EPA - CLP

CONVENTIONAL ANALYSIS DATA SHEET

TB-7 (8-10)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: C30224B-01

Level (Low/Med): Low

Date Received: 2/24/03

% Solids: 57.7

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.1 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 0.95 | | | EPA 9012 |
| Amenable Cyanide | 0.95 | U | | EPA 9012 |
| | | | | |
| | | | | |
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| | | | | |

Comments

U.S. EPA - CLP

CONVENTIONALS ANALYSIS DATA SHEET

TB-8 (6-8)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: 030224B-02

Level (Low/Med): Low

Date Received: 2/24/03

% Solids: 73.6

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| % Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.1 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 1.27 | | | EPA 9012 |
| Amenable Cyanide | 0.21 | U | | EPA 9012 |
| | | | | |
| | | | | |
| | | | | |

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

TB-9 (4-6)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: 030225B-01

Level (Low/Med): Low

Date Received: 2/25/03

% Solids: 55.8

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| % Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.1 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 11.6 | | | EPA 9012 |
| Amenable Cyanide | 2.0 | | | EPA 9012 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

TB-10 (6-8)

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: URS 0301

SAS No.:

SDG No.: TB-5 (2-4)

Matrix (soil/water): Soil

Lab Sample ID: 030225B-02

Level (Low/Med): Low

Date Received: 2/25/03

% Solids: 46.8

Concentration Units (ug/L or mg/Kg dry weight):

mg/Kg

| Analyte | Concentration | C | Q | Method |
|-------------------|---------------|---|---|----------------|
| Total Solids (TS) | | | | ASTM D3987 |
| % Ash | | | | ASTM D482 |
| Heating Value | | | | ASTM D240 |
| Chlorine | | | | EPA 9075 |
| Bromine | | | | EPA 9075 |
| Iodine | | | | EPA 9075 |
| Ignitability | | | | EPA 1010 |
| Corrosivity | | | | EPA 9045 |
| pH | | | | EPA 9045 |
| Total Phenols | | | | EPA 9065 |
| Reactive Cyanide | | | | SW-846 7.3.2.1 |
| Reactive Sulfide | | | | SW-846 7.3.2.1 |
| Fluoride | | | | EPA 9214 |
| Total Cyanide | 101 | | | EPA 9012 |
| Amenable Cyanide | 0.36 | U | | EPA 9012 |
| | | | | |
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Comments

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 1408

NYS ELAP 10486

Phone: (716)

Client: URS Corporation

Lab 0308153

Project: Union Ship Canal

Client Sample SB-8, 30N 0-4

Alt. Client ID:

Collection 8/14/2003 4:05:00 % 12.60

Lab 0308153-17A

Sample

SAMP

Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 102 | B | 2.20 | mg/Kg-dry | 1 | 8/18/2003 6:59:45 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value, value may not be accurate

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

Limit - Reporting Limit

NC - Not Calculated for values < RL

R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 10N 0-4
Alt. Client ID:
Collection 8/13/2003 4:30:00 % 11.70

Lab 0308153-18A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 63.6 | B | 2.27 | mg/Kg-dry | 1 | 8/18/2003 7:27:40 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

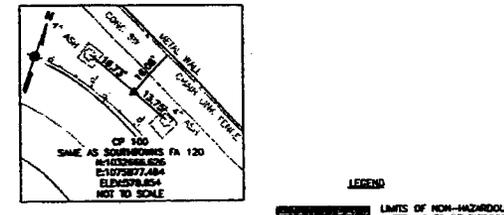
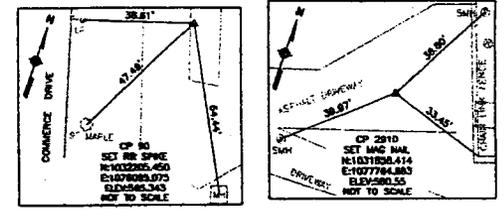
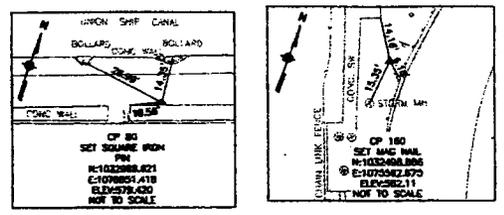
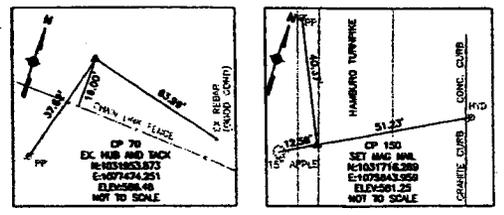
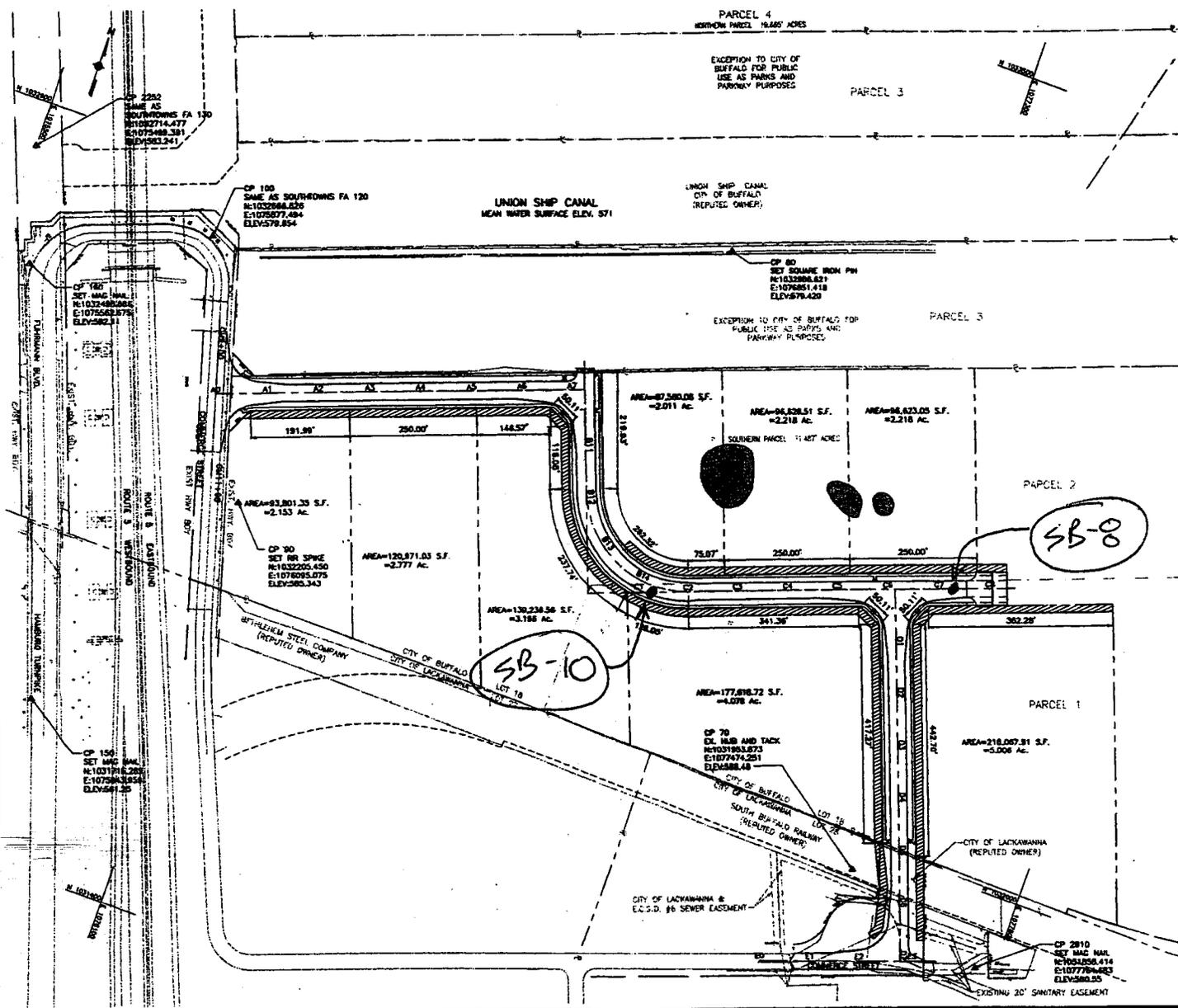
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

APPENDIX C

ANALYTICAL RESULTS – SUPPLEMENTAL BARIUM AND CYANIDE SAMPLING

BORINGS TB-08 AND TB-10



- LEGEND
- LIMITS OF NON-HAZARDOUS MATERIALS TO BE DISPOSED OFF-SITE - REF 02.801
 - UTILITY CORRIDOR
 - SURVEY HORIZONTAL AND VERTICAL CONTROL POINT
 - EXISTING PARCEL LIMIT
 - FUTURE PARCEL LIMIT

SCALE: 1"=100'

THIS IS A VARIATION OF SECTION 7208, SUBSECTION 2, OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON WHOSE NAME APPEARS ON THIS DRAWING, TO BE BOUND BY THE TERMS AND CONDITIONS OF ANY CONTRACT FOR THE DESIGN, ENGINEERING, ARCHITECTURE, SURVEYING, AND THE DESIGN THEREBY FOLLOWED THEREIN AND THE BEST OF SUCH PERSON'S KNOWLEDGE AND BELIEF AT THE TIME OF SUCH DESIGN.

| NO. | DATE | APPROVED BY | DATE | DESCRIPTION |
|-----|------|-------------|------|-------------|
| | | | | |

Soil Boring Depth Information:

SB-8 - Sta C7+20+/-

| Reference | Proposed Loc. | Depth (ft) |
|-----------------|-----------------|------------|
| ✓ 10N | Roadway | 4 |
| ✓ 10E | Sanitary Trench | 16 |
| ✓ 10S | Roadway | 4 |
| ✓ 10W | Sanitary Trench | 16 |
| ✓ 20NE | Roadway | 4 |
| ✓ 20SE | Roadway | 4 |
| ✓ 20SW | Roadway | 4 |
| ✓ 20NW | Roadway | 4 |
| ✓ 30N | Sidewalk | 4 |
| ✓ 30E | Sanitary Trench | 16 |
| ✓ 30S | Sidewalk | 4 |
| ✓ 30W | Sanitary Trench | 16 |
| ✓ 40NE | Roadway | 4 |
| ✓ 40SE | Sidewalk | 4 |
| ✓ 40SW | Storm Trench | 10 |
| ✓ 40NW | Sidewalk | 4 |
| subtotal | | 118 |

SB-10 - Sta C1+25+/-

| Reference | Proposed Loc. | Depth (ft) |
|-----------------|------------------|------------|
| ✓ 10N | Roadway | 4 |
| ✓ 10E | Roadway | 4 |
| ✓ 10S | Storm Trench | 10 |
| ✓ 10W | Storm Trench | 10 |
| ✓ 20NE | Roadway | 4 |
| ✓ 20SE | Greenspace | 4 |
| ✓ 20SW | Sidewalk | 4 |
| ✓ 20NW | Roadway | 4 |
| ✓ 30N | Roadway | 4 |
| ✓ 30E | Roadway | 4 |
| ✓ 30S | Utility Corridor | 6 |
| ✓ 30W | Drainage Inlet | 10 |
| ✓ 40NE | Roadway | 4 |
| ✓ 40SE | Utility Corridor | 6 |
| ✓ 40SW | Utility Corridor | 6 |
| ✓ 40NW | Sanitary Trench | 12 |
| subtotal | | 96 |

| | | |
|--------------|--|------------|
| total | | 214 |
|--------------|--|------------|

Aug 12, 2003
13

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 10N 0-4
Alt. Client ID:
Collection 8/13/2003 4:30:00 % 11.70

Lab 0308153-18A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 63.6 | B | 2.27 | mg/Kg-dry | 1 | 8/18/2003 7:27:40 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 30N 0-4
Alt. Client ID:
Collection 8/14/2003 4:05:00 % 12.60

Lab 0308153-17A Sample SAMP Matrix Soil Test 1_6010B_TAL_S
ICP METALS ANALYSIS BY METHOD 6010B Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 102 | B | 2.20 | mg/Kg-dry | 1 | 8/18/2003 6:59:45 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 20SE 0-4
Alt. Client ID:
Collection 8/14/2003 7:40:00 % 14.60

Lab 0308153-19A Sample SAMP Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 175 | B | 2.17 | mg/Kg-dry | 1 | 8/18/2003 7:32:19 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 40SE 0-4
Alt. Client ID:
Collection 8/14/2003 8:00:00 % 21.10

Lab 0308153-20A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 233 | B | 2.49 | mg/Kg-dry | 1 | 8/18/2003 7:37:09 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 30W 0-16
Alt. Client ID:
Collection 8/14/2003 9:00:00 % 37.90

Lab 0308153-21A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 252 | B | 3.22 | mg/Kg-dry | 1 | 8/18/2003 7:42:00 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 10W 0-16
Alt. Client ID:
Collection 8/14/2003 10:20:00 % 37.10

Lab 0308153-22A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 317 | B | 3.06 | mg/Kg-dry | 1 | 8/18/2003 7:46:36 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486

Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 10E 0-16

Alt. Client ID:

Collection 8/14/2003 11:25:00 % 28.00

Lab 0308153-23A Sample SAMP Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 174 | B | 2.62 | mg/Kg-dry | 1 | 8/18/2003 7:51:22 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 30E 0-16

Alt. Client ID:

Collection 8/14/2003 12:30:00 % 33.40

Lab 0308153-24A Sample SAMP Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 217 | B | 2.89 | mg/Kg-dry | 1 | 8/18/2003 7:56:08 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 40SW 0-10
Alt. Client ID:
Collection 8/14/2003 2:08:00 % 32.60

Lab 0308153-25A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 317 | B | 2.91 | mg/Kg-dry | 1 | 8/18/2003 8:00:55 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 30S 0-4
Alt. Client ID:
Collection 8/14/2003 1:30:00 % 12.70

Lab 0308153-26A Sample SAMP Matrix Soil Test 1_6010B_TAL_S
ICP METALS ANALYSIS BY METHOD 6010B Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 164 | B | 2.16 | mg/Kg-dry | 1 | 8/18/2003 8:14:50 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 1408

NYS ELAP 10486

Phone: (716)

Client: URS Corporation

Lab 0308153

Project: Union Ship Canal

Client Sample SB-8, 20SW 0-4

Alt. Client ID:

Collection 8/14/2003 2:20:00 % 17.00

Lab 0308153-27A

Sample

SAMP

Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 186 | B | 2.41 | mg/Kg-dry | 1 | 8/18/2003 8:19:38 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value, value may not be accurate

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

Limit - Reporting Limit

NC - Not Calculated for values < RL

R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 10S 0-4
Alt. Client ID:
Collection 8/14/2003 2:30:00 % 15.00

Lab 0308153-28A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 113 | B | 2.31 | mg/Kg-dry | 1 | 8/18/2003 8:24:31 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 20NE 0-4
Alt. Client ID:
Collection 8/14/2003 3:00:00 % 13.70

Lab 0308153-29A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 115 | B | 2.23 | mg/Kg-dry | 1 | 8/18/2003 8:29:17 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 40NE 0-4
Alt. Client ID:
Collection 8/14/2003 3:10:00 % 17.20

Lab 0308153-30A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 158 | B | 2.32 | mg/Kg-dry | 1 | 8/18/2003 8:33:59 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 1408

NYS ELAP 10486

Phone: (716)

Client: URS Corporation

Lab 0308153

Project: Union Ship Canal

Client Sample SB-8, 40NW 0-4

Alt. Client ID:

Collection 8/14/2003 3:25:00 % 16.00

Lab 0308153-31A

Sample

SAMP

Matrix Soil

Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B

Prep Method: SW3050B

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 112 | B | 2.25 | mg/Kg-dry | 1 | 8/18/2003 8:38:46 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value, value may not be accurate

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

Limit - Reporting Limit

NC - Not Calculated for values < RL

R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-8, 20NW 0-4
Alt. Client ID:
Collection 8/14/2003 3:30:00 % 10.80

Lab 0308153-32A Sample SAMP Matrix Soil Test 1_6010B_TAL_S

ICP METALS ANALYSIS BY METHOD 6010B

Method: SW6010B Prep Method: SW3050B

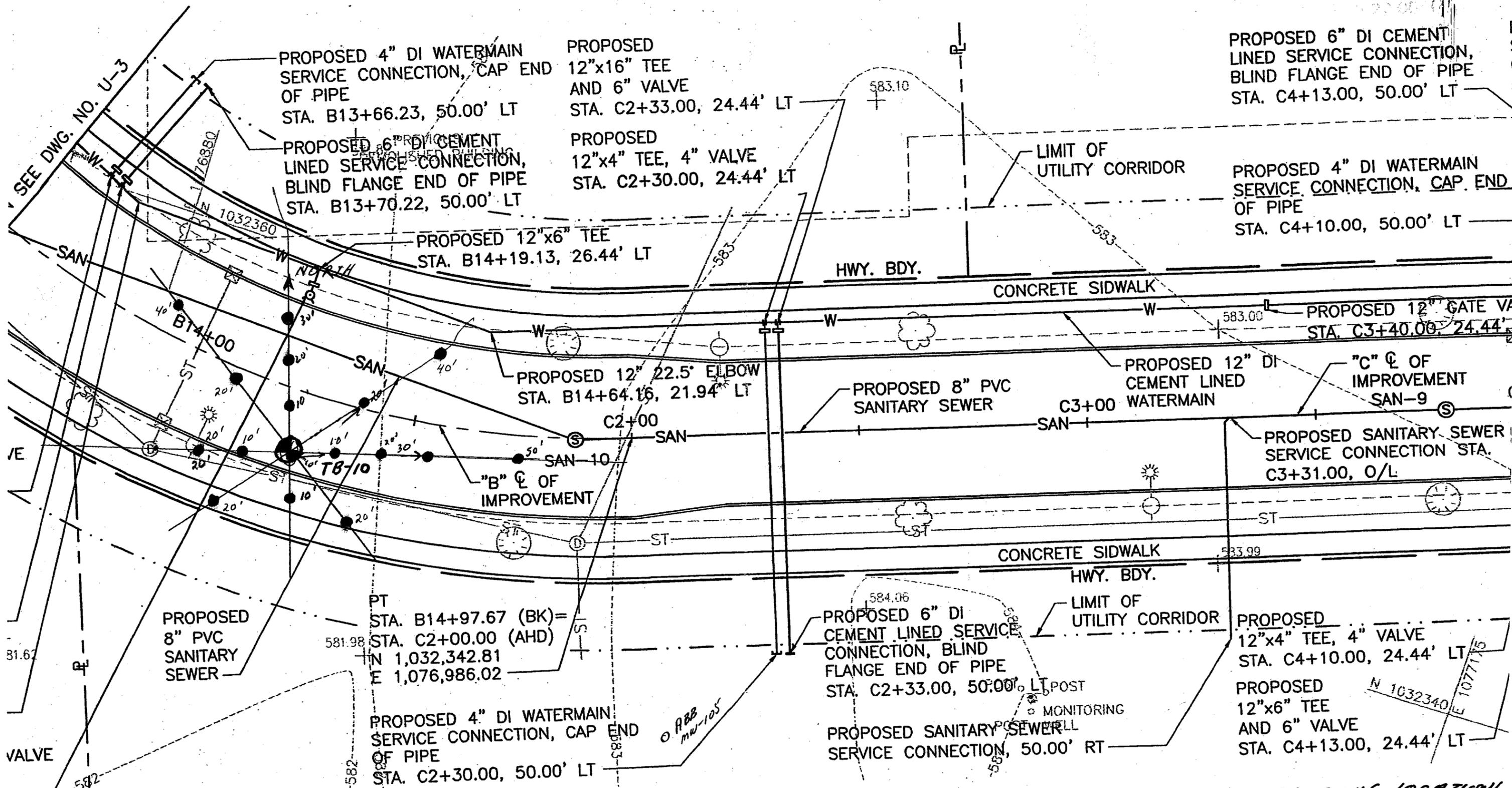
| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|----------------|---------|
| Barium | 51.9 | B | 2.12 | mg/Kg-dry | 1 | 8/18/2003 8:43:28 PM | OPTIMA_030818B | CMO |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits



PROPOSED 6" DI CEMENT LINED SERVICE CONNECTION, BLIND FLANGE END OF PIPE STA. C4+13.00, 50.00' LT

PROPOSED 4" DI WATERMAIN SERVICE CONNECTION, CAP END OF PIPE STA. B13+66.23, 50.00' LT

PROPOSED 12"x16" TEE AND 6" VALVE STA. C2+33.00, 24.44' LT

PROPOSED 6" DI CEMENT LINED SERVICE CONNECTION, BLIND FLANGE END OF PIPE STA. B13+70.22, 50.00' LT

PROPOSED 12"x4" TEE, 4" VALVE STA. C2+30.00, 24.44' LT

PROPOSED 4" DI WATERMAIN SERVICE CONNECTION, CAP END OF PIPE STA. C4+10.00, 50.00' LT

PROPOSED 12"x6" TEE STA. B14+19.13, 26.44' LT

PROPOSED 12" GATE VALVE STA. C3+40.00, 24.44' LT

PROPOSED 12" 22.5° ELBOW STA. B14+64.16, 21.94' LT

PROPOSED 12" DI CEMENT LINED WATERMAIN

PROPOSED SANITARY SEWER SERVICE CONNECTION STA. C3+31.00, 0/L

PROPOSED 8" PVC SANITARY SEWER

PT STA. B14+97.67 (BK) = STA. C2+00.00 (AHD)
N 1,032,342.81
E 1,076,986.02

PROPOSED 6" DI CEMENT LINED SERVICE CONNECTION, BLIND FLANGE END OF PIPE STA. C2+33.00, 50.00' LT

PROPOSED 12"x4" TEE, 4" VALVE STA. C4+10.00, 24.44' LT
PROPOSED 12"x6" TEE AND 6" VALVE STA. C4+13.00, 24.44' LT

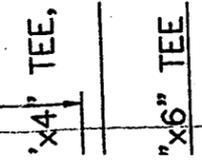
PROPOSED 4" DI WATERMAIN SERVICE CONNECTION, CAP END OF PIPE STA. C2+30.00, 50.00' LT

PROPOSED SANITARY SEWER SERVICE CONNECTION, 50.00' RT

PLAN

SUPPLEMENTAL SAMPLING LOCATIONS FOR TB-10 (CYANIDE)

2" PIPE INSULATION AND CONCRETE ENCASEMENT



1" = 20'

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 30N 0-4
Alt. Client ID:
Collection 8/12/2003 12:08:00 % 11.20

Lab 0308153-01A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 2.81 | | 0.552 | mg/Kg-dry | 1 | 8/19/2003 4:17:28 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

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Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 10N 0-4
Alt. Client ID:
Collection 8/12/2003 12:20:00 % 15.10

Lab 0308153-02A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 0.526 | J | 0.566 | mg/Kg-dry | 1 | 8/19/2003 4:18:25 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

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Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 10S 0-10
Alt. Client ID:
Collection 8/12/2003 3:30:00 % 27.00

Lab 0308153-03A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 6.74 | | 0.640 | mg/Kg-dry | 1 | 8/19/2003 4:19:22 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

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Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486

Phone: (716)

Client: URS Corporation

Lab 0308153

Project: Union Ship Canal

Lab 0308153-04A

Sample

SAMP

Matrix Soil

Client Sample SB-10, 30S 0-6

Alt. Client ID:

Collection 8/12/2003 4:00:00

% 23.20

Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A

Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 22.8 | | 0.626 | mg/Kg-dry | 1 | 8/19/2003 4:20:19 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value, value may not be accurate

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

Limit - Reporting Limit

NC - Not Calculated for values < RL

R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 30W 0-10
Alt. Client ID:
Collection 8/12/2003 5:30:00 % 32.00

Lab 0308153-05A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 6.77 | | 0.694 | mg/Kg-dry | 1 | 8/19/2003 4:21:16 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 10W 0-10
Alt. Client ID:
Collection 8/13/2003 8:20:00 % 35.90

Lab 0308153-06A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 2.62 | | 0.736 | mg/Kg-dry | 1 | 8/19/2003 4:24:10 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 40NW 0-12
Alt. Client ID:
Collection 8/13/2003 9:00:00 % 57.50

Lab 0308153-07A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 8.79 | | 1.14 | mg/Kg-dry | 1 | 8/19/2003 4:27:05 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 20NW 0-4
Alt. Client ID:
Collection 8/13/2003 9:20:00 % 14.70

Lab 0308153-08A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 1.08 | | 0.564 | mg/Kg-dry | 1 | 8/19/2003 4:28:03 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 1408

NYS ELAP 10486

Phone: (716)

Client: URS Corporation

Lab 0308153

Project: Union Ship Canal

Client Sample SB-10, 20SE 0-4

Alt. Client ID:

Collection 8/13/2003 9:40:00 % 9.01

Lab 0308153-09A

Sample

SAMP

Matrix Soil

Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A

Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 6.60 | | 0.544 | mg/Kg-dry | 1 | 8/19/2003 4:29:02 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value, value may not be accurate

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds highest Calibration Standard

Limit - Reporting Limit

NC - Not Calculated for values < RL

R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 40SE 0-6
Alt. Client ID:
Collection 8/13/2003 10:15:00 % 8.80

Lab 0308153-10A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|------------------|---------|
| Cyanide | 0.683 | | 0.532 | mg/Kg-dry | 1 | 8/19/2003 4:30:00 PM | LCHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 10E 0-4
Alt. Client ID:
Collection 8/13/2003 12:50:00 % 9.74

Lab 0308153-11A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 0.840 | | 0.548 | mg/Kg-dry | 1 | 8/19/2003 4:30:58 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 30E 0-4
Alt. Client ID:
Collection 8/13/2003 1:10:00 % 8.33

Lab 0308153-12A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 2.90 | | 0.515 | mg/Kg-dry | 1 | 8/19/2003 4:31:56 PM | LACHAT_CN_030819C | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNF - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

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Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 40SW 0-6
Alt. Client ID:
Collection 8/13/2003 1:55:00 % 25.90

Lab 0308153-13A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 20.5 | B | 0.675 | mg/Kg-dry | 1 | 8/21/2003 8:14:33 AM | LACHAT_CN_030820A | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 20SW 0-4
Alt. Client ID:
Collection 8/13/2003 2:30:00 % 18.50

Lab 0308153-14A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A

Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|------------------|---------|
| Cyanide | 14.5 | B | 0.590 | mg/Kg-dry | 1 | 8/21/2003 8:17:25 AM | LCHAT_CN_030820A | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 20NE 0-4
Alt. Client ID:
Collection 8/13/2003 3:00:00 % 18.70

Lab 0308153-15A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 1.01 | B | 0.603 | mg/Kg-dry | 1 | 8/21/2003 8:18:22 AM | LACHAT_CN_030820A | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 1408

Laboratory Results

NYS ELAP 10486
Phone: (716)

Client: URS Corporation
Lab 0308153
Project: Union Ship Canal

Client Sample SB-10, 40NE 0-4
Alt. Client ID:
Collection 8/13/2003 3:10:00 % 17.10

Lab 0308153-16A Sample SAMP Matrix Soil Test 1_9012A_CN_S

CYANIDE, TOTAL BY METHOD 9012A Method: SW9012A Prep Method: NA

| Analyte | Result | Q | Limit | Units | DF | Date | Run Batch | Analyst |
|---------|--------|---|-------|-----------|----|----------------------|-------------------|---------|
| Cyanide | 2.71 | B | 0.569 | mg/Kg-dry | 1 | 8/21/2003 8:19:19 AM | LACHAT_CN_030820A | LMW |

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.
11172802-00000

SITE NAME
UNION Ship CANAL

SAMPLERS (PRINT/SIGNATURE)
JOHN BOYD

[Signature]

| | | | | | | | | | |
|------------|--------|--|--|--|--|--|--|--|--|
| T. CYANIDE | BARIUM | | | | | | | | |
|------------|--------|--|--|--|--|--|--|--|--|

LAB E+S
COOLER 1 of 1
PAGE 2 of 3

DELIVERY SERVICE: _____ AIRBILL NO.: _____

BOTTLE TYPE AND PRESERVATIVE

| LOCATION IDENTIFIER | DATE | TIME | COMP/GRAB | SAMPLE ID | MATRIX | TOTAL NO. # OF CONTAINERS | 3039 (ASS) | 3039 (ASS) | | | | | | | | | |
|---------------------|---------|------|-----------|------------------|--------|---------------------------|------------|------------|--|--|--|--|--|--|--|--|--|
| SB-10, 20SW | 8/13/03 | 1430 | COMP | SB-10, 20SW 0-4' | SOIL | 1 | ✓ | | | | | | | | | | |
| SB-10, 20NE | | 1500 | | SB-10, 20NE 0-4' | | 1 | ✓ | | | | | | | | | | |
| SB-10, 40NE | | 1510 | | SB-10, 40NE 0-4' | | 1 | ✓ | | | | | | | | | | |
| SB-8, 30N | | 1605 | | SB-8, 30N 0-4' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 10N | | 1630 | | SB-8, 10N 0-4' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 20SE | 8/14/03 | 0740 | | SB-8, 20SE 0-4' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 40SE | | 0800 | | SB-8, 40SE 0-4' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 30W | | 0900 | | SB-8, 30W 0-16' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 10W | | 1020 | | SB-8, 10W 0-16' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 10E | | 1125 | | SB-8, 10E 0-16' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 30E | | 1230 | | SB-8, 30E 0-16' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 40SW | | 1408 | | SB-8, 40SW 0-10' | | 1 | | ✓ | | | | | | | | | |
| SB-8, 30S | | 1330 | | SB-8, 30S 0-4' | | 1 | | ✓ | | | | | | | | | |

REMARKS

SAMPLE TYPE
BEGINNING DEPTH (IN FEET)
ENDING DEPTH (IN FEET)
FIELD LOT NO. # (ERPIMS)

| MATRIX CODES | AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE | SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER | WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS | WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER | WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC | LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE |
|--------------|---|--|---|---|---|---|
|--------------|---|--|---|---|---|---|

| SAMPLE TYPE CODES | TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE | RB# - RINSE BLANK FR# - FIELD REPLICATE | N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE | (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY) |
|-------------------|--|--|--|---|
|-------------------|--|--|--|---|

| | | | | | |
|---|-----------------|--------------|---|-----------------|--------------|
| RELINQUISHED BY (SIGNATURE) <i>[Signature]</i> | DATE 8/14/03 | TIME 1820 | RECEIVED BY (SIGNATURE) <i>[Signature]</i> | DATE 8/14/03 | TIME 1820 |
| RELINQUISHED BY (SIGNATURE) | DATE | TIME | RECEIVED FOR LAB BY (SIGNATURE) | DATE | TIME |

SPECIAL INSTRUCTIONS
IF TOTAL CYANIDE DETECTED,
Analyze for free cyanide

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.
11172802.0000

SITE NAME
UNION SHIP CANAL

SAMPLERS (PRINT/SIGNATURE)

JOHN MOYD *[Signature]*

TOTAL
CYANIDE

LAB S+E

COOLER 1 of 1

BOTTLE TYPE AND PRESERVATIVE

PAGE 1 of 3

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TOTAL NO. # OF CONTAINERS

303 9185

| LOCATION IDENTIFIER | DATE | TIME | COMP/GRAB | SAMPLE ID | MATRIX | TOTAL NO. # OF CONTAINERS | REMARKS | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (ERPIMS) |
|---------------------|---------|------|-----------|-------------------|--------|---------------------------|---------|-------------|---------------------------|------------------------|--------------------------|
| SB-10, 30N | 8/12/03 | 1208 | Comp | SB-10, 30N 0-4' | SOIL | 1 | | | | | |
| SB-10, 10N | | 1220 | | SB-10, 10N 0-4' | | 1 | | | | | |
| SB-10, 10S | | 1530 | | SB-10, 10S 0-10' | | 1 | | | | | |
| SB-10, 30S | | 1600 | | SB-10, 30S 0-6' | | 1 | | | | | |
| SB-10, 30W | ✓ | 1730 | | SB-10, 30W 0-10' | | 1 | | | | | |
| SB-10, 10W | 8/13/03 | 0820 | | SB-10, 10W 0-10' | | 1 | | | | | |
| SB-10, 40NW | | 0900 | | SB-10, 40NW 0-12' | | 1 | | | | | |
| SB-10, 20NW | | 0920 | | SB-10, 20NW 0-4' | | 1 | | | | | |
| SB-10, 20SE | | 0940 | | SB-10, 20SE 0-4' | | 1 | | | | | |
| SB-10, 40SE | | 1015 | | SB-10, 40SE 0-6' | | 1 | | | | | |
| SB-10, 10E | | 1250 | | SB-10, 10E 0-4' | | 1 | | | | | |
| SB-10, 30E | | 1310 | | SB-10, 30E 0-4' | | 1 | | | | | |
| SB-10, 40SW | | 1355 | ✓ | SB-10, 40SW 0-6' | | 1 | | | | | |

MATRIX CODES

- AA - AMBIENT AIR
- SE - SEDIMENT
- SH - HAZARDOUS SOLID WASTE
- SL - SLUDGE
- WP - DRINKING WATER
- WW - WASTE WATER
- WG - GROUND WATER
- SO - SOIL
- DC - DRILL CUTTINGS
- WL - LEACHATE
- GS - SOIL GAS
- WC - DRILLING WATER
- WO - OCEAN WATER
- WS - SURFACE WATER
- WQ - WATER FIELD QC
- LH - HAZARDOUS LIQUID WASTE
- LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

- TB# - TRIP BLANK
- SD# - MATRIX SPIKE DUPLICATE
- RB# - RINSE BLANK
- FR# - FIELD REPLICATE
- N# - NORMAL ENVIRONMENTAL SAMPLE
- MS# - MATRIX SPIKE
- (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

| | | | | | |
|-----------------------------|---------|------|---------------------------------|---------|------|
| RELINQUISHED BY (SIGNATURE) | DATE | TIME | RECEIVED BY (SIGNATURE) | DATE | TIME |
| <i>[Signature]</i> | 8/14/03 | 1820 | <i>[Signature]</i> | 8/14/03 | 1820 |
| RELINQUISHED BY (SIGNATURE) | DATE | TIME | RECEIVED FOR LAB BY (SIGNATURE) | DATE | TIME |
| | | | | | |

SPECIAL INSTRUCTIONS
IF TOTAL CYANIDE DETECTED, Analyze for free cyanide

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.
11122802-00000

SITE NAME
UNION SHIP CANAL

SAMPLERS (PRINT/SIGNATURE)
JOHN BOYD *[Signature]*

LAB S+E
COOLER 1 of 1
PAGE 3 of 3

BOTTLE TYPE AND PRESERVATIVE

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TOTAL NO. # OF CONTAINERS

3039195

| LOCATION IDENTIFIER | DATE | TIME | COMP/GRAB | SAMPLE ID | MATRIX | TOTAL NO. # OF CONTAINERS | REMARKS | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. # (SRPIMS) |
|---------------------|---------|------|-----------|-----------------|--------|---------------------------|---------|-------------|---------------------------|------------------------|--------------------------|
| SB-8, 20SW | 8/14/03 | 1420 | COMP | SB-8, 20SW 0-4' | Soil | 1 | | | | | |
| SB-8, 10S | | 1430 | | SB-8, 10S 0-4' | | 1 | | | | | |
| SB-8, 20NE | | 1500 | | SB-8, 20NE 0-4' | | 1 | | | | | |
| SB-8, 40NE | | 1510 | | SB-8, 40NE 0-4' | | 1 | | | | | |
| SB-8, 40NW | | 1525 | | SB-8, 40NW 0-4' | | 1 | | | | | |
| SB-8, 20NW | | 1530 | | SB-8, 20NW 0-4' | | 1 | | | | | |

MATRIX CODES

- AA - AMBIENT AIR
- SE - SEDIMENT
- SH - HAZARDOUS SOLID WASTE
- SL - SLUDGE
- WP - DRINKING WATER
- WW - WASTE WATER
- WG - GROUND WATER
- SO - SOIL
- DC - DRILL CUTTINGS
- WL - LEACHATE
- GS - SOIL GAS
- WC - DRILLING WATER
- WO - OCEAN WATER
- WS - SURFACE WATER
- WQ - WATER FIELD QC
- LH - HAZARDOUS LIQUID WASTE
- LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

- TB# - TRIP BLANK
- SD# - MATRIX SPIKE DUPLICATE
- RB# - RINSE BLANK
- FR# - FIELD REPLICATE
- N# - NORMAL ENVIRONMENTAL SAMPLE
- MS# - MATRIX SPIKE
- (* - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

| | | | | | | |
|---|-----------------|--------------|---|-----------------|--------------|----------------------|
| RELINQUISHED BY (SIGNATURE) <i>[Signature]</i> | DATE 8/14/03 | TIME 1820 | RECEIVED BY (SIGNATURE) <i>[Signature]</i> | DATE 8/14/03 | TIME 1820 | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY (SIGNATURE) | DATE | TIME | RECEIVED FOR LAB BY (SIGNATURE) | DATE | TIME | |

Distribution: Original accompanies shipment, copy to coordinator field files

APPENDIX D

NAPL AREAS PRE-EXCAVATION DISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS

LABORATORY REPORT OF ANALYSIS

| | | |
|-------------------------|-----------------------------------|----------------------------------|
| Client: | Nature's Way Environmental | Lab Project No.: 03-3115 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: 10237 |
| Client Job No.: | N/A | Sample Type: Soil |
| Field Location: | Area To Be Excavated | Date Sampled: 11/09/2003 |
| | | Date Received: 11/14/2003 |

| Parameter | Date Analyzed | Analytical Method | Result (mg/kg) |
|--------------------|---------------|-------------------|-------------------|
| Cyanide Reactivity | 11/20/2003 | SW846, 7.3 | ND<1 Non Reactive |
| Sulfide Reactivity | 11/20/2003 | SW846, 7.3 | 12 Non Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
Hazardous Waste Regulatory Levels for Reactivity are as follows:
Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director: 
Bruce Hoogesteger

PCB Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3115 |
| Client Job Number: | N/A | Lab Sample Number: | 10237 |
| Field Location: | Area to be Excavated | Date Sampled: | 11/09/2003 |
| Field ID Number: | N/A | Date Received: | 11/14/2003 |
| Sample Type: | Soil | Date Analyzed: | 11/19/2003 |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.622 |
| Aroclor 1221 | ND< 0.622 |
| Aroclor 1232 | ND< 0.622 |
| Aroclor 1242 | ND< 0.622 |
| Aroclor 1248 | ND< 0.622 |
| Aroclor 1254 | ND< 0.622 |
| Aroclor 1260 | ND< 0.622 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

Semi-Volatile Analysis Report for TCLP Extract

Client: Nature's Way Environmental

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3115 |
| Client Job Number: | N/A | Lab Sample Number: | 10237 |
| Field Location: | Area to be Excavated | Date Sampled: | 11/09/2003 |
| Field ID Number: | N/A | Date Received: | 11/14/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 11/19/2003 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 3,000 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 2,000 |
| Pyridine | ND< 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2,000 |

ELAP Number 10958 Method: EPA 8270C Data File: 13884.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for TCLP Extracts

Client: Nature's Way Environmental

Client Job Site: Union Ship Canal
Client Job Number: N/A
Field Location: Area to be Excavated
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 03-3115
Lab Sample Number: 10237
Date Sampled: 11/09/2003
Date Received: 11/14/2003
Date Analyzed: 11/20/2003

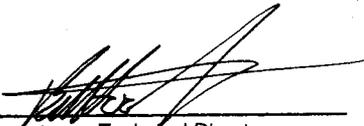
| Pesticide | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| gamma-BHC (Lindane) | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30 |
| Endrin | ND< 1.00 | 20 |
| Heptachlor | ND< 1.00 | 8 |
| Heptachlor Epoxide | ND< 1.00 | 8 |
| Methoxychlor | ND< 1.00 | 10,000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogsteger: Technical Director

Volatile Analysis Report for TCLP Extract

Client: Nature's Way Environmental

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3115 |
| | | Lab Sample Number: | 10237 |
| Client Job Number: | N/A | Date Sampled: | 11/09/2003 |
| Field Location: | Area to be Excavated | Date Received: | 11/14/2003 |
| Field ID Number: | N/A | Date Analyzed: | 11/21/2003 |
| Sample Type: | TCLP Extract | | |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

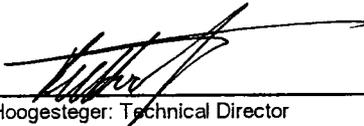
ELAP Number 10958

Method: EPA 8260B

Data File: 17600.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director



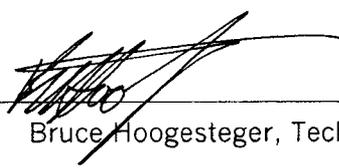
| | | | |
|-------------------------|-------------------------|-------------------------|--------------|
| Client: | NWEC&C, Inc. | Lab Project No.: | 03-3115 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: | 10237 |
| Client Job No.: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Area to be excavated | Date Sampled: | 11/09/2003 |
| Field ID No.: | N/A | Date Received: | 11/14/2003 |

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 11/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Barium | 11/18/2003 | EPA 6010 | 0.600 | 100.0 |
| Cadmium | 11/18/2003 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 11/18/2003 | EPA 6010 | <0.050 | 5.0 |
| Lead | 11/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 11/19/2003 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 11/18/2003 | EPA 6010 | <0.100 | 1.0 |
| Silver | 11/18/2003 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
 Bruce Hoogesteger, Technical Director



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: NWEC&C, Inc.

Lab Project No.: 03-3115

Client Job Site: Union Ship Canal

Sample Type: Solid
Method: SW846 1010

Client Job No.: N/A

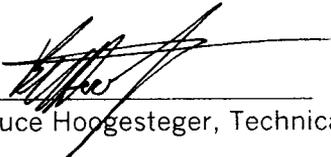
Date(s) Sampled: 11/09/2003
Date Received: 11/14/2003
Date Analyzed: 11/19/2003

Laboratory Report for Flashpoint Analysis

| Lab Sample No. | Field ID No. | Field Location | Flashpoint Results (°C) |
|----------------|--------------|----------------------|-------------------------|
| 10237 | N/A | Area to be excavated | >70 |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director



Client: NWEC&C, Inc.

Lab Project No.: 03-3115

Client Job Site: Union Ship Canal

Sample Type: Solid
Method: SW846 9045C

Client Job No.: N/A

Date(s) Sampled: 11/09/2003
Date Received: 11/14/2003
Date Analyzed: 11/19/2003

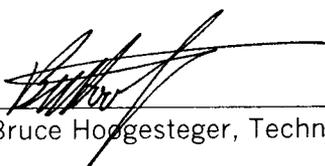
Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|----------------------|-------------------|
| 10237 | N/A | Area to be excavated | 10.03 |
| | | | |
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| | | | |

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoggester, Technical Director

Chain of Custody provides additional sample information.

File ID:033115.xls

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | | | |
|-------------------------------------|----------------------------------|------------|------|---------------------------------------|----------------------------|
| REPORT TO | | INVOICE TO | | LAB PROJECT #: | CLIENT PROJECT #: |
| COMPANY: Nature's Way Environmental | COMPANY: same | ADDRESS: | | 03-3115 | |
| ADDRESS: 3553 Crittenden Rd. | CITY: Crittenden, New York 14038 | STATE: | ZIP: | TURNAROUND TIME: (WORKING DAYS) | |
| PHONE: (716) 937-6527 | FAX: 937-9360 | PHONE: | FAX: | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| ATTN: R. Savage/G. Weber | ATTN: | | | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4 |
| COMMENTS: Please fax results | | | | | <input type="checkbox"/> 5 |

PROJECT NAME/SITE NAME:
Union Ship Canal

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINERS | TCLP | plus pesticides | PCAS | Reactivity/Co | Ignitability | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------|------|-----------|------|------------------------------------|--------|------------|------|-----------------|------|---------------|--------------|---------|----------------------------|
| 11/19/03 | 3:00 | X | | Area To Be Excavated (Boring Comp) | S | 1 | X | X | X | X | X | | 10237 |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: split off reactivity

CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 13°C

| | | |
|--|---|-------------|
| Sampled By: <u>Jon Neubauer</u> Date/Time: | Relinquished By: _____ Date/Time: | Total Cost: |
| Relinquished By: _____ Date/Time: | Received By: _____ Date/Time: | |
| Received By: <u>[Signature]</u> Date/Time: <u>11/03/03</u> | Received @ Lab By: <u>Pamela M. Bilake</u> Date/Time: <u>11/14/03 @ 15:50</u> | P.I.F. |

PAGE 00709
PARADIGM ENV
15856473311
11/21/2003 16:07

03-2003

pH Analysis Report

Client: NWEC&C

Client Job Site: Union Ship Canal

Lab Project Number: 03-3363

Client Job Number: N/A

Date Sampled: 12/12/2003

Date Received: 12/16/2003

Sample Type: Soil

Date Analyzed: 12/16/2003

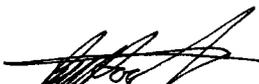
| Lab Sample Number | Field Number | Field Location | Result (pH) |
|-------------------|--------------|----------------------|-------------|
| 10992 | Cap #2 | Area to be Excavated | 9.79 |
| 10993 | Cap #3 | Area to be Excavated | 10.30 |
| | | | |
| | | | |

ELAP Number 10958

Method: EPA 9045C

Comments:

Signature:


Bruce Hoogsteder: Technical Director

Flashpoint by Pensky-Martin Analysis Report

Client: NWEC&C

Client Job Site: Union Ship Canal

Lab Project Number: 03-3363

Client Job Number: N/A

Date Sampled: 12/12/2003

Date Received: 12/16/2003

Sample Type: Soil

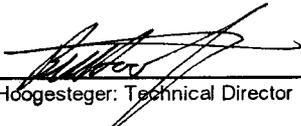
Date Analyzed: 12/18/2003

| Lab Sample Number | Field Number | Field Location | Result (°C) |
|-------------------|--------------|----------------------|-------------|
| 10992 | Cap #2 | Area to be Excavated | >70 |
| 10993 | Cap #3 | Area to be Excavated | >70 |
| | | | |
| | | | |
| | | | |

ELAP Number 10958

Method: SW846 1010

Comments: °C = degrees Centigrade

Signature: 
Bruce Hoogesteger: Technical Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: **NWEC&C**

Lab Project No.: 03-3363

Client Job Site: Union Ship Canal

Sample Type: Soil
 Analytical Method: SW846, 7.3

Client Job No.: N/A

Date Sampled: 12/12/2003
 Date Received: 12/16/2003
 Date Analyzed: 12/19/2003

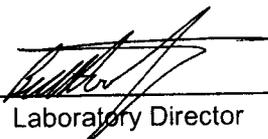
| Lab Sample ID. | Client Sample ID. | Cyanide (mg/kg) | Sulfide (mg/kg) |
|----------------|------------------------|-------------------|--------------------|
| 10992 | Area to be Excavated#2 | ND<1 Non Reactive | 368 Non Reactive |
| 10993 | Area to be Excavated#3 | ND<1 Non Reactive | ND<10 Non Reactive |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP ID. No.: 10709

Comments:

ND denotes Non Detected.
 Hazardous Waste Regulatory Levels for Reactivity are as follows: 500 mg/kg Sulfide and 250 mg/kg Cyanide.

Approved By: _____



Laboratory Director

| | | | |
|-------------------------|--------------------------|-------------------------|--------------|
| Client: | NWEC&C | Lab Project No.: | 03-3363 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: | 10992 |
| Client Job No.: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Area to be Excavated Cap | Date Sampled: | 12/12/2003 |
| Field ID No.: | #2 | Date Received: | 12/16/2003 |

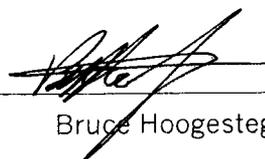
Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 12/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Barium | 12/18/2003 | EPA 6010 | 0.260 | 100.0 |
| Cadmium | 12/18/2003 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 12/18/2003 | EPA 6010 | <0.050 | 5.0 |
| Lead | 12/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 12/18/2003 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 12/18/2003 | EPA 6010 | <0.100 | 1.0 |
| Silver | 12/18/2003 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By:



Bruce Hoogesteger, Technical Director



| | | | |
|-------------------------|--------------------------|-------------------------|--------------|
| Client: | NWEC&C | Lab Project No.: | 03-3363 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: | 10993 |
| Client Job No.: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Area to be Excavated Cap | Date Sampled: | 12/12/2003 |
| Field ID No.: | #3 | Date Received: | 12/16/2003 |

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 12/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Barium | 12/18/2003 | EPA 6010 | 1.18 | 100.0 |
| Cadmium | 12/18/2003 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 12/18/2003 | EPA 6010 | <0.050 | 5.0 |
| Lead | 12/18/2003 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 12/18/2003 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 12/18/2003 | EPA 6010 | <0.100 | 1.0 |
| Silver | 12/18/2003 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for TCLP Extracts

Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| Client Job Number: | N/A | Lab Sample Number: | 10992 |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #2 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/19/2003 |

| Pesticide | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| gamma-BHC (Lindane) | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30 |
| Endrin | ND< 1.00 | 20 |
| Heptachlor | ND< 1.00 | 8 |
| Heptachlor Epoxide | ND< 1.00 | 8 |
| Methoxychlor | ND< 1.00 | 10,000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Pesticide Analysis Report for TCLP Extracts

Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| Client Job Number: | N/A | Lab Sample Number: | 10993 |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #3 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/19/2003 |

| Pesticide | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| gamma-BHC (Lindane) | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30 |
| Endrin | ND< 1.00 | 20 |
| Heptachlor | ND< 1.00 | 8 |
| Heptachlor Epoxide | ND< 1.00 | 8 |
| Methoxychlor | ND< 1.00 | 10,000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

PARADIGM

Environmental

Services, Inc.

179 Lake Avenue Rochester, New York 14608 585-647-2530 FAX 585- 647-3311

TCLP Herbicides

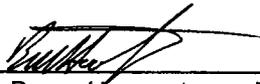
Client: **NWEC&C** **Lab Project No:** 03-3363
Client Job Site: Union Ship Canal **Lab Sample No:** 10993
Client Job No: N/A **Sample Type:** TCLP Extract
Field Location: Area to be Excavated Cap **Date Sampled:** 12/12/2003
Field ID No: #3 **Date Received:** 12/16/2003
Date Analyzed: 12/18/2003

| Parameter | Result UG/L | Reporting Limit UG/L | Regulatory Limit UG/L |
|-------------------|------------------------|-------------------------------------|--------------------------------------|
| 2,4-D | ND | 2000 | 10,000 |
| 2,4,5-TP (Silvex) | ND | 200 | 1,000 |

Analytical Method: EPA 8151 ELAP ID. No.: 10709

Comments: ND denotes Non Detected.

Approved By: _____


Bruce Hoogesteger, Technical Director

Semi-Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10992 |
| Client Job Number: | N/A | | |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #2 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/18/2003 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND < 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND < 40.0 | 130 |
| Hexachlorobenzene | ND < 40.0 | 3,000 |
| Hexachlorobutadiene | ND < 40.0 | 500 |
| Hexachloroethane | ND < 40.0 | 130 |
| Nitrobenzene | ND < 40.0 | 2,000 |
| Pyridine | ND < 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND < 80.0 | 200,000 |
| Pentachlorophenol | ND < 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND < 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND < 40.0 | 2,000 |

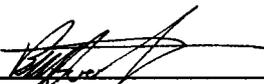
ELAP Number 10958

Method: EPA 8270C

Data File: 14229.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:



Bruce Hoogesteger: Technical Director

Semi-Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10993 |
| Client Job Number: | N/A | | |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #3 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/18/2003 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 3,000 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 2,000 |
| Pyridine | ND< 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2,000 |

ELAP Number 10958 Method: EPA 8270C Data File: 14230.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

Volatile Analysis Report for TCLP Extract

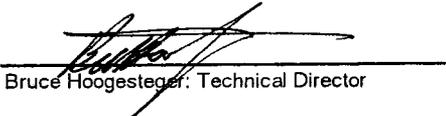
Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10992 |
| Client Job Number: | N/A | | |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #2 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/17/2003 |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958 Method: EPA 8260B Data File: 18157.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogsteger, Technical Director

Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10993 |
| Client Job Number: | N/A | | |
| Field Location: | Area to be Excavated | Date Sampled: | 12/12/2003 |
| Field ID Number: | Cap #3 | Date Received: | 12/16/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/17/2003 |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 18158.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

PCB Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10992 |
| Client Job Number: | N/A | Date Sampled: | 12/12/2003 |
| Field Location: | Area to be Excavated | Date Received: | 12/16/2003 |
| Field ID Number: | Cap #2 | Date Analyzed: | 12/18/2003 |
| Sample Type: | Soil | | |

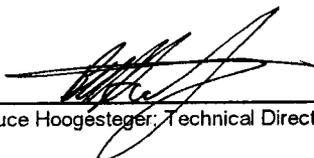
| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND < 0.590 |
| Aroclor 1221 | ND < 0.590 |
| Aroclor 1232 | ND < 0.590 |
| Aroclor 1242 | ND < 0.590 |
| Aroclor 1248 | ND < 0.590 |
| Aroclor 1254 | ND < 0.590 |
| Aroclor 1260 | ND < 0.590 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:


Bruce Hoogesteger, Technical Director

PCB Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

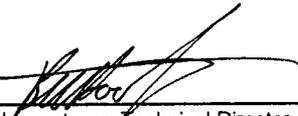
| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3363 |
| | | Lab Sample Number: | 10993 |
| Client Job Number: | N/A | Date Sampled: | 12/12/2003 |
| Field Location: | Area to be Excavated | Date Received: | 12/16/2003 |
| Field ID Number: | Cap #3 | Date Analyzed: | 12/18/2003 |
| Sample Type: | Soil | | |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.589 |
| Aroclor 1221 | ND< 0.589 |
| Aroclor 1232 | ND< 0.589 |
| Aroclor 1242 | ND< 0.589 |
| Aroclor 1248 | ND< 0.589 |
| Aroclor 1254 | ND< 0.589 |
| Aroclor 1260 | ND< 0.589 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

PROJECT NAME/SITE NAME:
Union Ship Canal

| | | | |
|--|-------------------------------------|---|-------------------|
| REPORT TO: COMPANY: NWEC & C | INVOICE TO: COMPANY: Same | LAB PROJECT #: 03-3363 | CLIENT PROJECT #: |
| ADDRESS: 3553 Crittenden Rd. | ADDRESS: | TURNAROUND TIME: (WORKING DAYS) 6-8 5 day CPL | |
| CITY: Crittenden, New York 14038 | CITY: STATE: ZIP: | STD <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | |
| PHONE: (716) 937-6527 937-9360 | PHONE: FAX: | 12/16/03 <i>Salomon</i> | |
| ATTN: R. Savage/G. Weber | ATTN: | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> | |
| COMMENTS: please fax report | | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNT NUMBER | Full TELP | Ignitability | Corrosivity | Reactivity | PCB's | Pestic Herbicides (TELP) | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|------------------------------|--------|--------------|-----------|--------------|-------------|------------|-------|--------------------------|---------|----------------------------|
| 11/2/03 | | X | | Area To Be Excavated Core #2 | S | 4 | X | X | X | X | X | X | | 10992 |
| 2/2/03 | | X | | " #3 | S | 3 | X | X | X | X | X | X | | 10993 |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 10°C

| | | | | |
|--------------------------------|----------------------------|---|-----------------------------------|-------------|
| Sampled By: <i>Corry Hoar</i> | Date/Time: | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: <i>Andrew</i> | Date/Time: | Received By: | Date/Time: | |
| Received By: <i>John</i> | Date/Time: 12/15/03 | Received @ Lab By: <i>Patricia M. Blake</i> | Date/Time: 12/16/03 @ 9:55 | P.I.F.: |

10/13/2004 10:25 15856473311 PAGE 03/03



WASTE MANAGEMENT, INC.

CWM Chemical Services, L.L.C.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107
716/754-8231

December 30, 2003

Mr. Russ Savage
Nature's Way Environmental
3553 Crittenden Rd.
Crittenden, NY 14038

**RE: Approved Profile #CX1578
Development Downtown, Inc.**

Dear Mr. Savage,

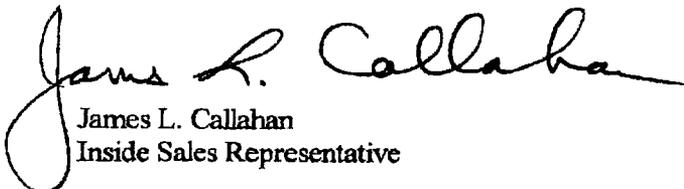
Please be advised that the above referenced application has been approved for disposal at Waste Management's Chaffee Landfill. Enclosed please find a copy of the approved application.

In the event that significant changes in the information provided on the application occur, please notify us immediately. Such changes shall include, but are not limited to, change in process, change in waste composition and change in hauler.

Please contact us 24 hours in advance of any disposal you wish to schedule.

Should you have any questions at all, please contact me directly @ (716) 754-0365.

Sincerely,



James L. Callahan
Inside Sales Representative

Enc.
cc: File



WASTE MANAGEMENT GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? [] YES [] NO
[] Hazardous [X] Non-Hazardous [] TSCA

Profile Number: WMI 1141578
Renewal Date: 6/1/04

A. Waste Generator Information

1. Generator Name: Development Downtown, Inc.
3. Facility Street Address: Commerce Drive
5. Facility City: Buffalo
7. Zip/Postal Code: 14203
9. County: Erie
11. Customer Name: Nature's Way Environmental
13. Customer Contact: R. Savage / G. Weber
15. Billing Address: 3553 Crittenden Rd. Crittenden New York 14038
2. SIC Code:
4. Phone: (716)
6. State/Province: New York
8. Generator USEPA/Federal ID #: NA
10. State/Province ID #: NA
12. Customer Phone: (716) 937-6527
14. Customer Fax: 937-9360

B. Waste Stream Information

1. Description
a. Name of Waste: Soil Contaminated with Non Aqueous Phase Liquid (Petroleum)
b. Process Generating Waste: Historic Industrial operations. Material to be excavated was identified through previous site investigation.

Table with 5 columns: c. Color, d. Strong odor, e. Physical state @ 70°F, f. Layers, g. Free liquid range. Includes handwritten entries like 'Variable', 'Brown/Gray', 'Mild Petroleum type odor', 'Solid', 'Single Layer', 'No Free Liquid', '10.03 to %'.

i. Liquid Flash Point: [] <73°F [] 73-99°F [] 100-139°F [] 140-199°F [X] ≥ 200°F [] Not applicable
j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Table with 2 columns: Constituents, Concentration Range. Includes handwritten entries: Soil + Stone (99.0-99.5), Petroleum (NAPL) (0.1-0.5), Debris (0.5-1.0).

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. [] Oxidizer [] Pyrophoric [] Explosive [] Radioactive
[] Carcinogen [] Infectious [] Shock Sensitive [] Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.) [] YES [X] NO
m. Does the waste represented by this profile contain dioxins? (list in Section B.1.) [] YES [X] NO
n. Does the waste represented by this profile contain asbestos? [] YES [X] NO
o. Does the waste represented by this profile contain benzene? [] YES [X] NO
p. Is the waste subject to RCRA Subpart CC controls? [] YES [X] NO
q. Does the waste contain any Class I or Class II ozone-depleting substances? [] YES [X] NO
r. Does the waste contain debris? (list in Section B.1.) [X] YES [] NO

2. Quantity of Waste Estimated Annual Volume 2400 500 [X] Tons [] Yards [] Drums [] Other specify)

3. Shipping Information

a. Packaging: [X] Bulk Solid; Type/Size: Dump Truck/Trailer
b. Shipping Frequency: Units 500 TONS Per: [] Month [] Quarter [] Year [X] One time [] Other
c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) [] YES [X] NO
d. Reportable Quantity (lbs., kgs.):
e. Hazard Class/ID #:
f. USDOT Shipping Name:



WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA - Tarps Loads For Transport
h. Transporter & Transporter Number Waste Management to provide transportation LCA 9A-480

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
 - a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U) _____
 - b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section B.1.) _____ YES NO
 - c. Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.) _____ YES NO
- 2. Is this a state hazardous waste? _____ YES NO
Identify ALL state hazardous/non hazardous waste codes _____
- 3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? _____ YES NO
If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
- 4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? _____ YES NO
- 5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.) _____ YES NO
 - a. If yes, were the PCBs imported into the U.S.? _____ YES NO
- 6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? _____ YES NO
- 7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? _____ YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: David Stebbins Title: INTERIM PRESIDENT
Name (Type or Print): DAVID STEBBINS Company Name: DEVELOPMENT DOWNTOWN Date: 12/2/03
 Check if additional information is attached. Indicate the number of attached pages _____

D. WMI Management's Decision FOR WMI USE ONLY

1. Management Method Landfill Non-hazardous Solidification Bioremediation Incineration
 Hazardous Stabilization Other (Specify) _____

2. Proposed Ultimate Management Facility: Chaffee Landfill

3. Precautions, Special Handling Procedures, or Limitation on Approval:
Material may be used as daily cover Pending NYSDEC Approval
2 Additional samples required PRIOR to shipment of material.

4. Waste Form _____ 5. Source _____ 6. System Type A23

Special Waste Decision _____ Approved Disapproved

Salesperson's Signature: _____ Date: _____

NYSDEC Region 9 Approval: _____ Date: _____

Special Waste Approvals Person Signature: James J. Callahan Date: 12/17/03

OK per Chad Staniszevski 12/29/03

APPENDIX E

NAPL AREA NO. 3 “BERMED STRIPPED SOIL” LABORATORY ANALYTICAL RESULTS

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 04-Mar-2004
Date Reported: 10-Mar-2004

Submission No.: 4C0186

Sample No.: 010287-010303

NOTES:

"-" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for biota analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:

| Component | MDL | Units | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC | Bermed | Method | Blank |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|
| | | | AREA3 SOUTH | AREA 3 EAST | AREA 3 WEST | AREA3BOTTOM | Stripped Soil | Blank | Spike |
| | | | 010299 04 | 010300 04 | 010301 04 | 010302 04 | 010303 04 | 010287 04 | 010287 04 |
| | | | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| Benzene | 1.0 | ug/kg | <2.0 | <2.0 | <2.0 | < | 1.0 | < | 59 |
| Ethylbenzene | 1.0 | " | <2.0 | <2.0 | <2.0 | < | < | < | 63 |
| Toluene | 1.0 | " | <2.0 | 2.0 | 2.0 | 1.0 | 2.0 | < | 61 |
| m&p-Xylene | 1.0 | " | <2.0 | <2.0 | 2.0 | < | 1.0 | < | 130 |
| o-Xylene | 1.0 | " | <2.0 | <2.0 | 3.0 | < | < | < | 64 |
| Xylenes(Total) | 1.0 | " | <2.0 | <2.0 | 5.0 | < | 1.0 | < | 190 |
| Isopropylbenzene | 1.0 | " | <2.0 | <3.0 | 2.0 | < | <2.0 | < | 57 |
| n-Propylbenzene | 1.0 | " | <2.0 | <3.0 | 5.0 | < | <2.0 | < | 62 |
| p-Isopropyltoluene | 1.0 | " | <2.0 | <3.0 | 10 | < | <2.0 | < | 64 |
| 1,2,4-Trimethylbenzene | 1.0 | " | <2.0 | <3.0 | 4.0 | 1.0 | <2.0 | < | 63 |
| 1,3,5-Trimethylbenzene | 1.0 | " | <2.0 | <3.0 | 6.0 | < | <2.0 | < | 63 |
| n-Butylbenzene | 1.0 | " | <2.0 | <3.0 | 16 | < | <2.0 | < | 65 |
| sec-Butylbenzene | 1.0 | " | <2.0 | <3.0 | 4.0 | < | <2.0 | < | 64 |
| tert-Butylbenzene | 1.0 | " | <2.0 | <3.0 | <2.0 | < | <2.0 | < | 61 |
| Naphthalene | 1.0 | " | 6.0 | <3.0 | 4.0 | < | 45 | < | 49 |
| Methyl-t-butylether | 1.0 | " | <2.0 | <3.0 | <2.0 | < | <2.0 | < | NS |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | 69 | 75 | 81 | 68 | 65 | 73 | 75 |
| d8-Toluene | | | 87 | 95 | 99 | 87 | 93 | 87 | 85 |
| Bromofluorobenzene | | | 84 | 71 | 87 | 76 | 65 | 87 | 88 |
| d10-Ethylbenzene | | | 55 | 31 | 27 | 54 | 30 | 91 | 87 |

PASC - Certificate of Analysis

| Component | MDL | Units | Client ID: | NAPL EXC | Bermed | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|
| | | | Lab No.: | AREA3BOTTOM | Stripped Soil | Blank | Spike | Recovery | Duplicate | Recovery |
| Date Sampled: | | | 010302 04 | 010303 04 | 010287 04 | 010287 04 | 010287 04 | 010287 04 | 010287 04 | 010287 04 |
| | | | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| Naphthalene | 90 | ug/kg | <360 | 6400 | <180 | 3200 | 80 | 3400 | 84 | |
| Acenaphthene | 70 | " | <280 | 11000 | <140 | 3200 | 80 | 3400 | 85 | |
| Fluorene | 40 | " | <160 | 13000 | <80 | 3100 | 79 | 3400 | 86 | |
| Phenanthrene | 30 | " | <120 | 110000 | <60 | 3300 | 81 | 3400 | 85 | |
| Anthracene | 60 | " | <240 | 30000 | <120 | 3300 | 83 | 3500 | 88 | |
| Fluoranthene | 60 | " | <240 | 120000 | <120 | 3200 | 81 | 3400 | 85 | |
| Pyrene | 40 | " | <160 | 90000 | <80 | 3400 | 86 | 3700 | 92 | |
| Benz(a)anthracene | 50 | " | <200 | 50000 | <100 | 3200 | 81 | 3400 | 86 | |
| Chrysene | 40 | " | <160 | 48000 | <80 | 3300 | 83 | 3600 | 90 | |
| Benzo(b)fluoranthene | 40 | " | <160 | 38000 | <80 | 3300 | 83 | 3600 | 89 | |
| Benzo(k)fluoranthene | 40 | " | <160 | 34000 | <80 | 3400 | 84 | 3600 | 90 | |
| Benzo(a)pyrene | 50 | " | <200 | 40000 | <100 | 3200 | 80 | 3500 | 87 | |
| Indeno(1,2,3-cd)pyrene | 60 | " | <240 | 27000 | <120 | 3200 | 80 | 3500 | 86 | |
| Dibenzo(ah)anthracene | 50 | " | <200 | 7100 | <100 | 3200 | 81 | 3500 | 88 | |
| Benzo(ghi)perylene | 60 | " | <240 | 18000 | <120 | 3100 | 78 | 3200 | 79 | |
| Surrogate Recoveries | | % | | | | | | | | |
| d5-Nitrobenzene | | | 59 | 75 | 74 | 80 | 80 | 85 | 85 | |
| 2-Fluorobiphenyl | | | 64 | 82 | 74 | 82 | 82 | 87 | 87 | |
| d14-p-Terphenyl | | | 78 | 85 | 93 | 87 | 87 | 93 | 93 | |

CHAIN OF CUSTODY



ANALYTICAL SERVICES
 5555 North Service Road
 Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
 Tel: (905) 332-8788
 Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NINECTC Inc
 Project Manager: Russ Savage
 Address: 3553 Cr. Henden Rd
Cr. Henden, NY 14038
 Phone #: 716-437-6527 Fax #: 716-937-9360
 Sampled by: Jon Neuberger

8201 STARS
8220 STARS

Level of contamination
(low, high, unknown)

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 8201 STARS | 8220 STARS | Level of contamination (low, high, unknown) |
|-----------------|--|-----------|--------|--------|------|------------|------------|---|
| 10298 | NAPL EXC AREA 3 NORTH | 1 | S | 3/3/04 | | ✓ | ✓ | 2 JUAL |
| 29 | NAPL EXC AREA 3 SOUTH | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 300 | NAPL EXC AREA 3 EAST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 301 | NAPL EXC AREA 3 WEST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 302 | NAPL EXC AREA 3 BOTTOM | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 16W-10304 | NAPL AREA 3 EXCAVATION WATER IN EXCAVATION | 3 | L | 3/3/04 | | ✓ | ✓ | 1 AL 446 x 2 |
| GT0303 | Permed Stripped Soil from NAPL Exc Area 3 | 1 | S | 3/3/04 | | ✓ | ✓ | 2 PDAL |

| | | | |
|--|--|--|-------------------------------------|
| TAT (Turnaround Time) RUSH TAT MUST HAVE PRIOR APPROVAL *some exceptions apply please contact Lab STD 10 Business Days <input type="checkbox"/> RUSH 5 Business Days <input checked="" type="checkbox"/> RUSH 2 Business Days <input type="checkbox"/> RUSH 1 Business Days <input type="checkbox"/> Other Business Days <input type="checkbox"/> | PROJECT INFORMATION Project #: _____ Site: <u>Union Ship Canal</u> PO#: _____ Philip Quote #: _____ Philip Project #: _____ Philip Contact: _____ | SPECIAL DETECTION LIMITS MISA <input type="checkbox"/> SPECIAL REQUIREMENTS / REGULATIONS ASP CATEGORY B3 DELIVERABLES NORMAL TIA | REMARKS ASP |
| | Client Signature: <u>James D. Blaskwitz</u> Affiliation: <u>NINECTC, Inc</u> Date/Time: <u>3/3/04, 3:30 pm</u> | Received By: <u>Kevin Zuelwiler</u> Affiliation: <u>PSC</u> Date/Time: <u>3/3/04, 3:30 pm</u> | Rec'd By: _____ Date/Time: _____ |

WHITE - LAB / YELLOW - CLIENT

SEE OVER FOR COMPLETION & SAMPLING INSTRUCTIONS

OCT-12-2004 14:58 PSC ANALYTICAL SERVICES 1 905 332 1511 P.11

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
 Crittenden, NY
 14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 26-Mar-2004
Date Reported: 06-Apr-2004

Submission No.: 4C1019
Sample No.: 015218-015219

NOTES:

*"-" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DED/DBF analyses)
 The enclosed copy of the Chain of Custody Record may contain information necessary for the
 interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

PASC - Certificate of Analysis

| Component | Client ID: | | BERMED | BERMED | BERMED | BERMED | Method | Blank | % |
|---------------|------------|-------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|
| | MDL | Units | STRIPPED SOIL | STRIPPED SOIL | STRIPPED SOIL | STRIPPED SOIL | Blank | Spike | Recovery |
| | | | 015219 04 | 015219 04 | 015219 04 | 015219 04 | 015218 04 | 015218 04 | 015218 04 |
| | | | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 |
| | | | | Duplicate | M. Spike | MS % Rec. | | | |
| Cyanide total | 100 | ug/kg | 6000 | - | - | - | <MDL | 26000 | 100 |
| Mercury | 40 | ug/kg | 1200 | - | - | - | <MDL | 1100 | 110 |
| Arsenic | 1000 | ug/kg | 22000 | 22000 | 45000 | 95 | <MDL | 25000 | 100 |
| Barium | 500 | " | 230000 | 220000 | 260000 | 72 | <MDL | 51000 | 100 |
| Cadmium | 500 | " | 5800 | 6100 | 27000 | 84 | <MDL | 25000 | 100 |
| Chromium | 500 | " | 40000 | 42000 | 93000 | 110 | <MDL | 50000 | 100 |
| Lead | 1000 | " | 310000 | 270000 | 330000 | 72 | <MDL | 50000 | 100 |
| Selenium | 1000 | " | <MDL | <MDL | 21000 | 87 | <MDL | 25000 | 98 |
| Silver | 500 | " | <MDL | 850 | 24000 | 95 | <MDL | 25000 | 100 |

Metals via 6010
 Mercury via 7471
 Cyanide via 9010

| Component | MDL | Units | BERMED | BERMED | BERMED | BERMED | Method | Blank | % |
|------------------------|-----|-------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | STRIPPED SOIL | STRIPPED SOIL | STRIPPED SOIL | STRIPPED SOIL | Blank | Spike | Recovery |
| | | | 015219 04 25-Mar-2004 | 015219 04 25-Mar-2004 | 015219 04 25-Mar-2004 | 015219 04 25-Mar-2004 | 015218 04 25-Mar-2004 | 015218 04 25-Mar-2004 | 015218 04 25-Mar-2004 |
| | | | Duplicate | M. Spike | MS % Rec. | | | | |
| Benzene | 1.0 | ug/kg | <MDL | <MDL | 61 | 81 | <MDL | 56 | 89 |
| Ethylbenzene | 1.0 | " | <MDL | <MDL | 62 | 82 | <MDL | 61 | 97 |
| Toluene | 1.0 | " | 2.0 | 2.0 | 66 | 88 | <MDL | 57 | 92 |
| m&p-Xylene | 1.0 | " | 1.0 | 1.0 | 120 | 81 | <MDL | 120 | 99 |
| o-Xylene | 1.0 | " | <MDL | <MDL | 64 | 85 | <MDL | 60 | 96 |
| Xylenes(Total) | 1.0 | " | 1.0 | 1.0 | 190 | 83 | <MDL | 180 | 97 |
| Isopropylbenzene | 1.0 | " | <MDL | <MDL | 74 | 98 | <MDL | 57 | 92 |
| n-Propylbenzene | 1.0 | " | <MDL | <MDL | 65 | 87 | <MDL | 61 | 98 |
| p-Isopropyltoluene | 1.0 | " | <MDL | <MDL | 60 | 80 | <MDL | 63 | 100 |
| 1,2,4-Trimethylbenzene | 1.0 | " | <MDL | <MDL | 70 | 92 | <MDL | 61 | 98 |
| 1,3,5-Trimethylbenzene | 1.0 | " | <MDL | <MDL | 73 | 97 | <MDL | 62 | 98 |
| n-Butylbenzene | 1.0 | " | <MDL | <MDL | 47 | 62 | <MDL | 65 | 100 |
| sec-Butylbenzene | 1.0 | " | <MDL | <MDL | 64 | 84 | <MDL | 64 | 100 |
| tert-Butylbenzene | 1.0 | " | <MDL | <MDL | 72 | 95 | <MDL | 61 | 97 |
| Naphthalene | 1.0 | " | 4.0 | 2.0 | 32 | 40 | <MDL | 62 | 99 |
| Methyl-t-butylether | 1.0 | " | <MDL | <MDL | NS | - | <MDL | NS | - |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | 64 | 64 | 69 | 69 | 62 | 65 | 65 |
| d8-Toluene | | | 91 | 91 | 90 | 90 | 79 | 75 | 75 |
| Bromofluorobenzene | | | 71 | 70 | 76 | 76 | 79 | 80 | 80 |
| d10-Ethylbenzene | | | 49 | 55 | 40 | 40 | 96 | 82 | 82 |

8021 STARS via 8260

| Component | MDL | Units | BERMED | BERMED | BERMED | BERMED | BERMED |
|------------------------|-----|-------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | STRIPPED SOIL |
| | | | 015219 04 25-Mar-2004 |
| | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Naphthalene | 9.0 | ug/kg | 1300 | 4100 | 51 | 5300 | 84 |
| Acenaphthene | 7.0 | " | 1500 | 4900 | 62 | 5700 | 87 |
| Fluorene | 4.0 | " | 1800 | 5300 | 65 | 6400 | 97 |
| Phenanthrene | 3.0 | " | 16000 | 16000 | 9.0 | 22000 | 110 |
| Anthracene | 6.0 | " | 3100 | 6200 | 58 | 7400 | 91 |
| Fluoranthene | 6.0 | " | 20000 | 20000 | NA | 24000 | 71 |
| Pyrene | 4.0 | " | 16000 | 13000 | NA | 19000 | 67 |
| Benz(a)anthracene | 5.0 | " | 7900 | 11000 | 110 | 13000 | 100 |
| Chrysene | 4.0 | " | 8500 | 10000 | 35 | 13000 | 91 |
| Benzo(b)fluoranthene | 4.0 | " | 8600 | 12000 | 64 | 12000 | 78 |
| Benzo(k)fluoranthene | 4.0 | " | 5700 | 6900 | 24 | 7800 | 46 |
| Benzo(a)pyrene | 5.0 | " | 6100 | 9900 | 70 | 11000 | 110 |
| Indeno(1,2,3-cd)pyrene | 6.0 | " | 6300 | 9100 | 53 | 10000 | 81 |
| Dibenzo(ah)anthracene | 5.0 | " | 2100 | 5900 | 73 | 6400 | 92 |
| Benzo(ghi)perylene | 6.0 | " | 5800 | 7900 | 39 | 8700 | 62 |
| Surrogate Recoveries | | % | | | | | |
| d5-Nitrobenzene | | | 70 | 48 | 48 | 54 | 54 |
| 2-Fluorobiphenyl | | | 75 | 71 | 71 | 82 | 82 |
| d14-p-Terphenyl | | | 80 | 79 | 79 | 92 | 92 |

PASC - Certificate of Analysis

| Component | MDL | Units | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 015218 04 | 015218 04 | 015218 04 | 015218 04 | 015218 04 |
| | | | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 |
| Naphthalene | 9.0 | ug/kg | <180 | 3100 | 78 | 3000 | 76 |
| Acenaphthene | 7.0 | " | <140 | 3400 | 84 | 3200 | 80 |
| Fluorene | 4.0 | " | <80 | 3500 | 88 | 3300 | 82 |
| Phenanthrene | 3.0 | " | <60 | 3300 | 82 | 3200 | 80 |
| Anthracene | 6.0 | " | <120 | 3200 | 79 | 3100 | 78 |
| Fluoranthene | 6.0 | " | <120 | 3800 | 95 | 3600 | 90 |
| Pyrene | 4.0 | " | <80 | 3200 | 80 | 3100 | 78 |
| Benz(a)anthracene | 5.0 | " | <100 | 3800 | 94 | 3700 | 92 |
| Chrysene | 4.0 | " | <80 | 3800 | 94 | 3600 | 90 |
| Benzo(b)fluoranthene | 4.0 | " | <80 | 4000 | 99 | 3600 | 90 |
| Benzo(k)fluoranthene | 4.0 | " | <80 | 3600 | 90 | 3800 | 95 |
| Benzo(a)pyrene | 5.0 | " | <100 | 3500 | 88 | 3500 | 87 |
| Indeno(1,2,3-cd)pyrene | 6.0 | " | <120 | 3600 | 89 | 3400 | 85 |
| Dibenzo(ah)anthracene | 5.0 | " | <100 | 3600 | 90 | 3500 | 87 |
| Benzo(ghi)perylene | 6.0 | " | <120 | 3700 | 92 | 3500 | 88 |
| Surrogate Recoveries | | % | | | | | |
| d5-Nitrobenzene | | | 50 | 62 | 62 | 58 | 58 |
| 2-Fluorobiphenyl | | | 72 | 90 | 90 | 86 | 86 |
| d14-p-Terphenyl | | | 87 | 96 | 96 | 93 | 93 |

4/6/04

PASC - Summary of Analysis Pre. Dates

Page MS-6 of 6

| | | |
|-----------------------|------------------|------------------|
| Batch Code: | 0401VPC1 | 0401VPC1 |
| Cyanide total | 015218 04 | 015219 04 |
| | 015219 04 | |
| Date Analysed: | 04/04/05 | 04/04/02 |
| Date Prepared: | 04/04/01 | 04/04/01 |

| | | |
|-----------------------|------------------|--|
| Batch Code: | 0331MBS1 | |
| Mercury | 015218 04 | |
| | 015219 04 | |
| Date Analysed: | 04/04/01 | |
| Date Prepared: | 04/03/31 | |

| | | |
|-----------------------|------------------|--|
| Batch Code: | 0402VPX1 | |
| Arsenic | 015218 04 | |
| | 015219 04 | |
| Date Analysed: | 04/04/02 | |
| Date Prepared: | 04/04/02 | |

| | | |
|-----------------------|------------------|------------------|
| Batch Code: | 0329MC01 | 0330MC01 |
| Benzene | 015218 04 | 015219 04 |
| | 015219 04 | |
| Date Analysed: | 04/03/29 | 04/03/30 |
| Date Prepared: | 04/03/29 | 04/03/30 |

| | | |
|-----------------------|------------------|--|
| Batch Code: | 0330SPX1 | |
| Naphthalene | 015218 04 | |
| | 015219 04 | |
| | 015219 04 | |
| Date Analysed: | 04/04/01 | |
| Date Prepared: | 04/03/30 | |

APPENDIX F

NAPL AREAS EXCAVATIONS CONFIRMATION SOIL SAMPLES LABORATORY ANALYTICAL RESULTS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Shlp Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2034 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #1 East | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND < 9.06 |
| n-Butylbenzene | ND < 9.06 |
| sec-Butylbenzene | ND < 9.06 |
| tert-Butylbenzene | ND < 9.06 |
| Ethylbenzene | ND < 9.06 |
| n-Propylbenzene | ND < 9.06 |
| Isopropylbenzene | ND < 9.06 |
| p-Isopropyltoluene | ND < 9.06 |
| Naphthalene | ND < 22.6 |
| Toluene | ND < 9.06 |
| 1,2,4-Trimethylbenzene | ND < 9.06 |
| 1,3,5-Trimethylbenzene | ND < 9.06 |
| m,p-Xylene | ND < 9.06 |
| o-Xylene | ND < 9.06 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND < 9.06 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19117.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441V1.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2035 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #1 West | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND < 8.60 |
| n-Butylbenzene | ND < 8.60 |
| sec-Butylbenzene | ND < 8.60 |
| tert-Butylbenzene | ND < 8.60 |
| Ethylbenzene | ND < 8.60 |
| n-Propylbenzene | ND < 8.60 |
| Isopropylbenzene | ND < 8.60 |
| p-Isopropyltoluene | ND < 8.60 |
| Naphthalene | ND < 21.5 |
| Toluene | ND < 8.60 |
| 1,2,4-Trimethylbenzene | ND < 8.60 |
| 1,3,5-Trimethylbenzene | ND < 8.60 |
| m,p-Xylene | ND < 8.60 |
| o-Xylene | ND < 8.60 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND < 8.60 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19116.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:


Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441V2.XLS



Volatile STARS Analysis Report for Soils/Solids/Sludges

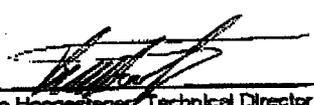
Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2036 |
| Client Job Number: | N/A | Date Sampled: | 02/16/2004 |
| Field Location: | Area #1 South | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| <u>Aromatics</u> | <u>Results in ug / Kg</u> |
|-------------------------|---------------------------|
| Benzene | ND < 10.2 |
| n-Butylbenzene | ND < 10.2 |
| sec-Butylbenzene | ND < 10.2 |
| tert-Butylbenzene | ND < 10.2 |
| Ethylbenzene | ND < 10.2 |
| n-Propylbenzene | 12.9 |
| Isopropylbenzene | ND < 10.2 |
| p-Isopropyltoluene | 64.6 |
| Naphthalene | 100 |
| Toluene | ND < 10.2 |
| 1,2,4-Trimethylbenzene | 212 |
| 1,3,5-Trimethylbenzene | 50.7 |
| m,p-Xylene | ND < 10.2 |
| o-Xylene | ND < 10.2 |
| <u>Miscellaneous</u> | |
| Methyl tert-butyl Ether | ND < 10.2 |

ELAP Number 10958 Method: EPA 8021B (GCMS) Data File: 19119.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Volatile STARS Analysis Report for Soils/Solids/Sludges

 Client: Nature's Way Environmental

Client Job Site: Union Ship Canal

Lab Project Number: 04-0441

Lab Sample Number: 2037

Client Job Number: N/A

Field Location: Area #1 North

Date Sampled: 02/16/2004

Field ID Number: N/A

Date Received: 02/18/2004

Sample Type: Soil

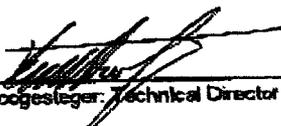
Date Analyzed: 02/20/2004

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND < 9.29 |
| n-Butylbenzene | ND < 9.29 |
| sec-Butylbenzene | ND < 9.29 |
| tert-Butylbenzene | ND < 9.29 |
| Ethylbenzene | ND < 9.29 |
| n-Propylbenzene | ND < 9.29 |
| Isopropylbenzene | ND < 9.29 |
| p-Isopropyltoluene | ND < 9.29 |
| Naphthalene | ND < 23.2 |
| Toluene | ND < 9.29 |
| 1,2,4-Trimethylbenzene | ND < 9.29 |
| 1,3,5-Trimethylbenzene | ND < 9.29 |
| m,p-Xylene | ND < 9.29 |
| o-Xylene | ND < 9.29 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND < 9.29 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19120.D

 Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram

Signature:


 Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441V4.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Unlon Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2038 |
| Client Job Number: | N/A | Date Sampled: | 02/16/2004 |
| Field Location: | Area #1 Bottom | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND < 20.9 |
| n-Butylbenzene | ND < 20.9 |
| sec-Butylbenzene | ND < 20.9 |
| tert-Butylbenzene | ND < 20.9 |
| Ethylbenzene | ND < 20.9 |
| n-Propylbenzene | ND < 20.9 |
| Isopropylbenzene | ND < 20.9 |
| p-Isopropyltoluene | ND < 20.9 |
| Naphthalene | ND < 52.3 |
| Toluene | ND < 20.9 |
| 1,2,4-Trimethylbenzene | ND < 20.9 |
| 1,3,5-Trimethylbenzene | ND < 20.9 |
| m,p-Xylene | ND < 20.9 |
| o-Xylene | ND < 20.9 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND < 20.9 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19120.D

Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram
 Detection limits elevated due to non-target hydrocarbons.

Signature: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441V5.XLS



ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2630 FAX (585) 647-3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2034 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #1 East | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 334 |
| Anthracene | 1,180 |
| Benzo (a) anthracene | 1,730 |
| Benzo (a) pyrene | 1,430 |
| Benzo (b) fluoranthene | 1,460 |
| Benzo (g,h,i) perylene | 887 |
| Benzo (k) fluoranthene | 886 |
| Chrysene | 2,350 |
| Dibenz (a,h) anthracene | ND< 334 |
| Fluoranthene | 4,470 |
| Fluorene | ND< 334 |
| Indeno (1,2,3-cd) pyrene | 1,080 |
| Naphthalene | ND< 334 |
| Phenanthrene | 2,750 |
| Pyrene | 4,050 |

ELAP Number 10956

Method: EPA 8270C

Data File: 15041.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:


 Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441s1.xls



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2035 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #1 West | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 348 |
| Anthracene | ND< 348 |
| Benzo (a) anthracene | ND< 348 |
| Benzo (a) pyrene | ND< 348 |
| Benzo (b) fluoranthene | ND< 348 |
| Benzo (g,h,i) perylene | ND< 348 |
| Benzo (k) fluoranthene | ND< 348 |
| Chrysene | ND< 348 |
| Dibenz (a,h) anthracene | ND< 348 |
| Fluoranthene | ND< 348 |
| Fluorene | ND< 348 |
| Indeno (1,2,3-cd) pyrene | ND< 348 |
| Naphthalene | ND< 348 |
| Phenanthrene | ND< 348 |
| Pyrene | ND< 348 |

ELAP Number 10958 Method: EPA 8270C Data File: 15040.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2036 |
| Client Job Number: | N/A | Date Sampled: | 02/16/2004 |
| Field Location: | Area #1 South | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | 376 |
| Anthracene | 560 |
| Benzo (a) anthracene | 739 |
| Benzo (a) pyrene | 764 |
| Benzo (b) fluoranthene | 800 |
| Benzo (g,h,i) perylene | 658 |
| Benzo (k) fluoranthene | 497 |
| Chrysene | 821 |
| Dibenz (a,h) anthracene | ND < 375 |
| Fluoranthene | 1,300 |
| Fluorene | 599 |
| Indeno (1,2,3-cd) pyrene | 713 |
| Naphthalene | ND < 375 |
| Phenanthrene | 1,810 |
| Pyrene | 1,830 |

ELAP Number 10958

Method: EPA 8270C

Data File: 15039.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:


Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441S3.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2037 |
| Client Job Number: | N/A | Date Sampled: | 02/16/2004 |
| Field Location: | Area #1 North | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 327 |
| Anthracene | ND< 327 |
| Benzo (a) anthracene | ND< 327 |
| Benzo (a) pyrene | ND< 327 |
| Benzo (b) fluoranthene | ND< 327 |
| Benzo (g,h,i) perylene | ND< 327 |
| Benzo (k) fluoranthene | ND< 327 |
| Chrysene | ND< 327 |
| Dibenz (a,h) anthracene | ND< 327 |
| Fluoranthene | ND< 327 |
| Fluorene | ND< 327 |
| Indeno (1,2,3-cd) pyrene | ND< 327 |
| Naphthalene | ND< 327 |
| Phenanthrene | ND< 327 |
| Pyrene | ND< 327 |

ELAP Number 10958

Method: EPA 8270C

Data File: 15036.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:



Bruce Hodgesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 04044154.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0441 |
| | | Lab Sample Number: | 2036 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #1 Bottom | Date Received: | 02/18/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 459 |
| Anthracene | ND< 459 |
| Benzo (a) anthracene | ND< 459 |
| Benzo (a) pyrene | ND< 459 |
| Benzo (b) fluoranthene | ND< 459 |
| Benzo (g,h,i) perylene | ND< 459 |
| Benzo (k) fluoranthene | ND< 459 |
| Chrysene | ND< 459 |
| Dibenz (a,h) anthracene | ND< 459 |
| Fluoranthene | ND< 459 |
| Fluorene | ND< 459 |
| Indeno (1,2,3-cd) pyrene | ND< 459 |
| Naphthalene | ND< 459 |
| Phenanthrene | 618 |
| Pyrene | ND< 459 |

ELAP Number 10958

Method: EPA 8270C

Data File: 15011.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040441S5.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2630 * (800) 724-1997
FAX: (585) 647-3311

| | | | |
|---|--|--|--|
| COMPANY: NATURE'S WAY Environmental | ADDRESS: | LAB PROJECT #: 04-0441 | CLIENT PROJECT #: |
| ADDRESS: 3553 Gaittenden Rd | CITY: Gaittenden STATE: NY ZIP: 14030 | TURNOVER TIME: (WORKING DAYS) | |
| PHONE: 937-6527 FAX: 937-9360 | ATTN: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | STD <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> 65 |

PROJECT NAME/SITE NAME:
Union Ship Canal

ATTN: **Russ Savage / Greg Weber**
COMMENTS: **Please fax a copy of results to above number**

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | RESERVED FOR | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------|------|-----------|------|--------------------------|--------|--------------|---------|----------------------------|
| 12/16/04 | | | X | Area #1 East | Soil | X | | 2034 |
| 2 | | | X | Area #1 West | | X | | 2035 |
| 3 | | | X | Area #1 South | | X | | 2036 |
| 4 | | | X | Area #1 North | | X | | 2037 |
| 5 | | | X | Area #1 Bottom | | X | | 2038 |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: **7°C on ice**

Sampled By: *[Signature]* Date/Time: **2/16/04**

Refrinquished By: *[Signature]* Date/Time: **2/17/04 4:45**

Received By: *[Signature]* Date/Time: **2/17/04 4:45**

Received @ Lab By: *[Signature]* Date/Time: **2/18/04 0948**

Total Cost: _____

P.I.F. _____

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

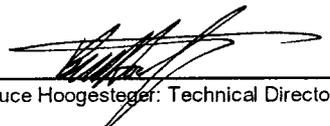
Client: **NWEC&C, Inc**

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2197 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 North | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/03/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 490 |
| Anthracene | ND< 490 |
| Benzo (a) anthracene | ND< 490 |
| Benzo (a) pyrene | ND< 490 |
| Benzo (b) fluoranthene | ND< 490 |
| Benzo (g,h,i) perylene | ND< 490 |
| Benzo (k) fluoranthene | ND< 490 |
| Chrysene | ND< 490 |
| Dibenz (a,h) anthracene | ND< 490 |
| Fluoranthene | ND< 490 |
| Fluorene | ND< 490 |
| Indeno (1,2,3-cd) pyrene | ND< 490 |
| Naphthalene | ND< 490 |
| Phenanthrene | ND< 490 |
| Pyrene | ND< 490 |

ELAP Number 10958 Method: EPA 8270C Data File: 18263.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

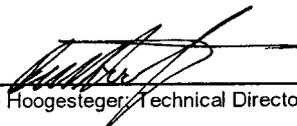
Client: **NWEC&C, Inc**

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2198 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 South | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/03/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 537 |
| Anthracene | ND< 537 |
| Benzo (a) anthracene | ND< 537 |
| Benzo (a) pyrene | ND< 537 |
| Benzo (b) fluoranthene | ND< 537 |
| Benzo (g,h,i) perylene | ND< 537 |
| Benzo (k) fluoranthene | ND< 537 |
| Chrysene | ND< 537 |
| Dibenz (a,h) anthracene | ND< 537 |
| Fluoranthene | ND< 537 |
| Fluorene | ND< 537 |
| Indeno (1,2,3-cd) pyrene | ND< 537 |
| Naphthalene | ND< 537 |
| Phenanthrene | ND< 537 |
| Pyrene | ND< 537 |

ELAP Number 10958 Method: EPA 8270C Data File: 18264.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc**

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| Client Job Number: | N/A | Lab Sample Number: | 2199 |
| Field Location: | Area #2 East | Date Sampled: | 02/18/2004 |
| Field ID Number: | N/A | Date Received: | 02/24/2004 |
| Sample Type: | Soil | Date Analyzed: | 03/03/2004 |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 384 |
| Anthracene | ND< 384 |
| Benzo (a) anthracene | ND< 384 |
| Benzo (a) pyrene | ND< 384 |
| Benzo (b) fluoranthene | ND< 384 |
| Benzo (g,h,i) perylene | ND< 384 |
| Benzo (k) fluoranthene | ND< 384 |
| Chrysene | ND< 384 |
| Dibenz (a,h) anthracene | ND< 384 |
| Fluoranthene | ND< 384 |
| Fluorene | ND< 384 |
| Indeno (1,2,3-cd) pyrene | ND< 384 |
| Naphthalene | ND< 384 |
| Phenanthrene | ND< 384 |
| Pyrene | ND< 384 |

ELAP Number 10958 Method: EPA 8270C Data File: 18265.D

Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc**

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2200 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 West | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/03/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND< 374 |
| Anthracene | ND< 374 |
| Benzo (a) anthracene | ND< 374 |
| Benzo (a) pyrene | ND< 374 |
| Benzo (b) fluoranthene | ND< 374 |
| Benzo (g,h,i) perylene | ND< 374 |
| Benzo (k) fluoranthene | ND< 374 |
| Chrysene | ND< 374 |
| Dibenz (a,h) anthracene | ND< 374 |
| Fluoranthene | ND< 374 |
| Fluorene | ND< 374 |
| Indeno (1,2,3-cd) pyrene | ND< 374 |
| Naphthalene | ND< 374 |
| Phenanthrene | ND< 374 |
| Pyrene | ND< 374 |

ELAP Number 10958 Method: EPA 8270C Data File: 18266.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc**

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2201 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 Bottom | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/03/2004 |
| Sample Type: | Soil | | |

| Base / Neutrals | Results in ug / Kg |
|--------------------------|--------------------|
| Acenaphthene | ND < 597 |
| Anthracene | ND < 597 |
| Benzo (a) anthracene | ND < 597 |
| Benzo (a) pyrene | ND < 597 |
| Benzo (b) fluoranthene | ND < 597 |
| Benzo (g,h,i) perylene | ND < 597 |
| Benzo (k) fluoranthene | ND < 597 |
| Chrysene | ND < 597 |
| Dibenz (a,h) anthracene | ND < 597 |
| Fluoranthene | ND < 597 |
| Fluorene | ND < 597 |
| Indeno (1,2,3-cd) pyrene | ND < 597 |
| Naphthalene | ND < 597 |
| Phenanthrene | ND < 597 |
| Pyrene | ND < 597 |

ELAP Number 10958 Method: EPA 8270C Data File: 18267.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: NWEC&C, Inc.

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2197 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 North | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/25/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | 30.6 |
| n-Butylbenzene | ND< 13.5 |
| sec-Butylbenzene | ND< 13.5 |
| tert-Butylbenzene | ND< 13.5 |
| Ethylbenzene | ND< 13.5 |
| n-Propylbenzene | ND< 13.5 |
| Isopropylbenzene | ND< 13.5 |
| p-Isopropyltoluene | ND< 13.5 |
| Naphthalene | ND< 33.9 |
| Toluene | 30.7 |
| 1,2,4-Trimethylbenzene | ND< 13.5 |
| 1,3,5-Trimethylbenzene | ND< 13.5 |
| m,p-Xylene | 19.3 |
| o-Xylene | ND< 13.5 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 13.5 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19235.D

Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram

Signature: 
 Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc.**

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2198 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 South | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/25/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND< 16.0 |
| n-Butylbenzene | ND< 16.0 |
| sec-Butylbenzene | ND< 16.0 |
| tert-Butylbenzene | ND< 16.0 |
| Ethylbenzene | ND< 16.0 |
| n-Propylbenzene | ND< 16.0 |
| Isopropylbenzene | ND< 16.0 |
| p-Isopropyltoluene | ND< 16.0 |
| Naphthalene | ND< 40.0 |
| Toluene | ND< 16.0 |
| 1,2,4-Trimethylbenzene | ND< 16.0 |
| 1,3,5-Trimethylbenzene | ND< 16.0 |
| m,p-Xylene | ND< 16.0 |
| o-Xylene | ND< 16.0 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 16.0 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19236.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc.**

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| Client Job Number: | N/A | Lab Sample Number: | 2199 |
| Field Location: | Area #2 East | Date Sampled: | 02/18/2004 |
| Field ID Number: | N/A | Date Received: | 02/24/2004 |
| Sample Type: | Soil | Date Analyzed: | 02/25/2004 |

| Aromatics | Results in ug / Kg |
|-------------------------|---------------------------|
| Benzene | ND< 9.17 |
| n-Butylbenzene | ND< 9.17 |
| sec-Butylbenzene | 27.6 |
| tert-Butylbenzene | ND< 9.17 |
| Ethylbenzene | ND< 9.17 |
| n-Propylbenzene | 11.3 |
| Isopropylbenzene | ND< 9.17 |
| p-Isopropyltoluene | ND< 9.17 |
| Naphthalene | 52.6 |
| Toluene | ND< 9.17 |
| 1,2,4-Trimethylbenzene | ND< 9.17 |
| 1,3,5-Trimethylbenzene | ND< 9.17 |
| m,p-Xylene | ND< 9.17 |
| o-Xylene | ND< 9.17 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 9.17 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19237.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: NWEC&C, Inc.

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2200 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 West | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/25/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|---------------------------|
| Benzene | ND< 10.5 |
| n-Butylbenzene | ND< 10.5 |
| sec-Butylbenzene | ND< 10.5 |
| tert-Butylbenzene | ND< 10.5 |
| Ethylbenzene | ND< 10.5 |
| n-Propylbenzene | ND< 10.5 |
| Isopropylbenzene | ND< 10.5 |
| p-Isopropyltoluene | ND< 10.5 |
| Naphthalene | ND< 26.4 |
| Toluene | ND< 10.5 |
| 1,2,4-Trimethylbenzene | ND< 10.5 |
| 1,3,5-Trimethylbenzene | ND< 10.5 |
| m,p-Xylene | ND< 10.5 |
| o-Xylene | ND< 10.5 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 10.5 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19238.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C, Inc.**

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0493 |
| | | Lab Sample Number: | 2201 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Area #2 Bottom | Date Received: | 02/24/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/25/2004 |
| Sample Type: | Soil | | |

| Aromatics | Results in ug / Kg |
|-------------------------|--------------------|
| Benzene | ND< 17.0 |
| n-Butylbenzene | ND< 17.0 |
| sec-Butylbenzene | ND< 17.0 |
| tert-Butylbenzene | ND< 17.0 |
| Ethylbenzene | ND< 17.0 |
| n-Propylbenzene | ND< 17.0 |
| Isopropylbenzene | ND< 17.0 |
| p-Isopropyltoluene | ND< 17.0 |
| Naphthalene | ND< 42.6 |
| Toluene | ND< 17.0 |
| 1,2,4-Trimethylbenzene | ND< 17.0 |
| 1,3,5-Trimethylbenzene | ND< 17.0 |
| m,p-Xylene | ND< 17.0 |
| o-Xylene | ND< 17.0 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 17.0 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19239.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: 
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|---|--|--|-------------------|
| REPORT TO: | | INVOICE TO: | |
| COMPANY: <i>NWELC, Inc.</i> | COMPANY: | LAB PROJECT #: <i>04-0493</i> | CLIENT PROJECT #: |
| ADDRESS: <i>3553 Crittenden Road</i> | ADDRESS: | TURNAROUND TIME: (WORKING DAYS) <i>6-8</i> | |
| CITY: <i>Crittenden</i> STATE: <i>NY</i> ZIP: <i>14038</i> | CITY: STATE: ZIP: | STD OTHER | |
| PHONE: <i>937-6527</i> FAX: <i>937-9360</i> | PHONE: FAX: | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> | |
| PROJECT NAME/SITE NAME: <i>Union Ship Canal</i> | ATTN: <i>Russ Savage / Greg Weber</i> | ATTN: | |
| COMMENTS: | | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | 8021 Stubs | 8270 Stubs | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|------------------|----------|-----------|----------|--------------------------|-------------|-------------|------------|------------|---------|----------------------------|
| <i>1 2/18/04</i> | | | <i>x</i> | <i>Area #2 North</i> | <i>Soil</i> | <i>1</i> | <i>1</i> | <i>1</i> | | |
| <i>2</i> | | | <i>x</i> | <i>Area #2 South</i> | | <i>1</i> | <i>x</i> | <i>y</i> | | <i>2197</i> |
| <i>3</i> | | | <i>x</i> | <i>Area #2 East</i> | | <i>1</i> | <i>x</i> | <i>x</i> | | <i>2198</i> |
| <i>4</i> | | | <i>x</i> | <i>Area #2 West</i> | | <i>1</i> | <i>x</i> | <i>y</i> | | <i>2199</i> |
| <i>5</i> | <i>↓</i> | | <i>x</i> | <i>Area #2 Bank-</i> | <i>↓</i> | <i>1</i> | <i>x</i> | <i>x</i> | | <i>2200</i> |
| <i>6</i> | | | | | | | | | | <i>2201</i> |
| <i>7</i> | | | | | | | | | | |
| <i>8</i> | | | | | | | | | | |
| <i>9</i> | | | | | | | | | | |
| <i>10</i> | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: *6°C*

| | | | | |
|-------------------------------------|----------------------------------|---|----------------------------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: <i>2/18/04</i> | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: <i>[Signature]</i> | Date/Time: <i>2/23/04</i> | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: <i>2/23/04 4:20pm</i> | Received @ Lab By: <i>Pamela M. Blake</i> | Date/Time: <i>2/24/04 @ 9:55</i> | P.I.F. |

07:01 0007/01/01 07:03 07:03

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 04-Mar-2004
Date Reported: 10-Mar-2004

Submission No.: 4C0186
Sample No.: 010287-010303

NOTES:

*"L" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:

Page 1 of 1

| | | NAPL EXC AREA1 NORTH | NAPL EXC AREA1 SOUTH | NAPL EXC AREA 1 EAST | NAPL EXC AREA 1 WEST | NAPL EXC AREA1BOTTOM | NAPL EXC AREA2 NORTH | NAPL EXC AREA2 SOUTH |
|------------------------|-----|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <i>Client ID:</i> | | | | | | | | |
| <i>Lab No.:</i> | | 010288 04 | 010289 04 | 010290 04 | 010291 04 | 010292 04 | 010293 04 | 010294 04 |
| <i>Date Sampled:</i> | | 03-Mar-2004 |
| Component | MDL | Units | | | | | | |
| Benzene | 1.0 | ug/kg | < | < | < | < | < | <2.0 |
| Ethylbenzene | 1.0 | " | < | 2.0 | < | < | < | <2.0 |
| Toluene | 1.0 | " | < | 2.0 | 1.0 | < | < | <2.0 |
| m&p-Xylene | 1.0 | " | < | 4.0 | < | < | < | <2.0 |
| o-Xylene | 1.0 | " | < | 6.0 | < | < | < | <2.0 |
| Xylenes(Total) | 1.0 | " | < | 10 | < | < | < | <2.0 |
| Isopropylbenzene | 1.0 | " | < | 2.0 | < | < | < | <2.0 |
| n-Propylbenzene | 1.0 | " | < | 4.0 | < | < | < | <2.0 |
| p-Isopropyltoluene | 1.0 | " | < | 28 | < | < | < | <2.0 |
| 1,2,4-Trimethylbenzene | 1.0 | " | < | 92 | < | < | < | <2.0 |
| 1,3,5-Trimethylbenzene | 1.0 | " | < | 26 | < | < | < | <2.0 |
| n-Butylbenzene | 1.0 | " | < | < | < | < | < | <2.0 |
| sec-Butylbenzene | 1.0 | " | < | 11 | < | < | < | <2.0 |
| tert-Butylbenzene | 1.0 | " | < | < | < | < | < | <2.0 |
| Naphthalene | 1.0 | " | < | 25 | 1.0 | < | < | <2.0 |
| Methyl-t-butylether | 1.0 | " | < | < | < | < | < | <2.0 |
| Surrogate Recoveries | | % | | | | | | |
| d4-1,2-Dichloroethane | | | 71 | 67 | 64 | 69 | 71 | 70 |
| d8-Toluene | | | 82 | 87 | 83 | 82 | 84 | 88 |
| Bromofluorobenzene | | | 84 | 73 | 73 | 83 | 85 | 82 |
| d10-Ethylbenzene | | | 64 | 63 | 47 | 44 | 47 | 43 |

| Component | MDL | Units | NAPL EXC |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | AREA 2 EAST | AREA 2 WEST | AREA2BOTTOM | AREA3 NORTH | AREA3 NORTH | AREA3 NORTH | AREA3 NORTH |
| | | | 010295 04 | 010296 04 | 010297 04 | 010298 04 | 010298 04 | 010298 04 | 010298 04 |
| | | | 03-Mar-2004 |
| | | | | | | | Duplicate | M. Spike | MS % Rec. |
| Benzene | 1.0 | ug/kg | < | <2.0 | <4.0 | <2.0 | <2.0 | 96 | 75 |
| Ethylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 95 | 74 |
| Toluene | 1.0 | " | 1.0 | <2.0 | <4.0 | <2.0 | <2.0 | 98 | 76 |
| m&p-Xylene | 1.0 | " | 1.0 | <2.0 | <4.0 | <2.0 | <2.0 | 190 | 74 |
| o-Xylene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 95 | 74 |
| Xylenes(Total) | 1.0 | " | 1.0 | <2.0 | <4.0 | <2.0 | <2.0 | 290 | 74 |
| Isopropylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 83 | 65 |
| n-Propylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 83 | 64 |
| p-Isopropyltoluene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 77 | 60 |
| 1,2,4-Trimethylbenzene | 1.0 | " | 1.0 | <2.0 | <4.0 | <2.0 | <2.0 | 81 | 63 |
| 1,3,5-Trimethylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 83 | 65 |
| n-Butylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 70 | 55 |
| sec-Butylbenzene | 1.0 | " | 1.0 | <2.0 | <4.0 | <2.0 | <2.0 | 83 | 64 |
| tert-Butylbenzene | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | 84 | 65 |
| Naphthalene | 1.0 | " | 4.0 | <2.0 | <4.0 | <2.0 | <2.0 | 49 | 38 |
| Methyl-t-butylether | 1.0 | " | < | <2.0 | <4.0 | <2.0 | <2.0 | NS | - |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | 70 | 64 | 64 | 70 | 71 | 72 | 72 |
| d8-Toluene | | | 91 | 87 | 83 | 86 | 83 | 85 | 85 |
| Bromofluorobenzene | | | 79 | 84 | 83 | 86 | 85 | 87 | 87 |
| d10-Ethylbenzene | | | 31 | 61 | 51 | 47 | 28 | 46 | 46 |

| Component | MDL | Units | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC | Bermed | Method | Blank |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|
| | | | AREA3 SOUTH | AREA 3 EAST | AREA 3 WEST | AREA3BOTTOM | Stripped Soil | Blank | Spike |
| | | | 010299 04 | 010300 04 | 010301 04 | 010302 04 | 010303 04 | 010287 04 | 010287 04 |
| | | | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| Benzene | 1.0 | ug/kg | <2.0 | <2.0 | <2.0 | < | 1.0 | < | 59 |
| Ethylbenzene | 1.0 | " | <2.0 | <2.0 | <2.0 | < | < | < | 63 |
| Toluene | 1.0 | " | <2.0 | 2.0 | 2.0 | 1.0 | 2.0 | < | 61 |
| m&p-Xylene | 1.0 | " | <2.0 | <2.0 | 2.0 | < | 1.0 | < | 130 |
| o-Xylene | 1.0 | " | <2.0 | <2.0 | 3.0 | < | < | < | 64 |
| Xylenes(Total) | 1.0 | " | <2.0 | <2.0 | 5.0 | < | 1.0 | < | 190 |
| Isopropylbenzene | 1.0 | " | <2.0 | <3.0 | 2.0 | < | <2.0 | < | 57 |
| n-Propylbenzene | 1.0 | " | <2.0 | <3.0 | 5.0 | < | <2.0 | < | 62 |
| p-Isopropyltoluene | 1.0 | " | <2.0 | <3.0 | 10 | < | <2.0 | < | 64 |
| 1,2,4-Trimethylbenzene | 1.0 | " | <2.0 | <3.0 | 4.0 | 1.0 | <2.0 | < | 63 |
| 1,3,5-Trimethylbenzene | 1.0 | " | <2.0 | <3.0 | 6.0 | < | <2.0 | < | 63 |
| n-Butylbenzene | 1.0 | " | <2.0 | <3.0 | 16 | < | <2.0 | < | 65 |
| sec-Butylbenzene | 1.0 | " | <2.0 | <3.0 | 4.0 | < | <2.0 | < | 64 |
| tert-Butylbenzene | 1.0 | " | <2.0 | <3.0 | <2.0 | < | <2.0 | < | 61 |
| Naphthalene | 1.0 | " | 6.0 | <3.0 | 4.0 | < | 45 | < | 49 |
| Methyl-t-butylether | 1.0 | " | <2.0 | <3.0 | <2.0 | < | <2.0 | < | NS |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | 69 | 75 | 81 | 68 | 65 | 73 | 75 |
| d8-Toluene | | | 87 | 95 | 99 | 87 | 93 | 87 | 85 |
| Bromofluorobenzene | | | 84 | 71 | 87 | 76 | 65 | 87 | 88 |
| d10-Ethylbenzene | | | 55 | 31 | 27 | 54 | 30 | 91 | 87 |

| Component | MDL | Units | % |
|------------------------|-----|-------|-------------|
| | | | Recovery |
| | | | 010287 04 |
| | | | 03-Mar-2004 |
| Benzene | 1.0 | ug/kg | 95 |
| Ethylbenzene | 1.0 | " | 100 |
| Toluene | 1.0 | " | 97 |
| m&p-Xylene | 1.0 | " | 100 |
| o-Xylene | 1.0 | " | 100 |
| Xylenes(Total) | 1.0 | " | 100 |
| Isopropylbenzene | 1.0 | " | 92 |
| n-Propylbenzene | 1.0 | " | 99 |
| p-Isopropyltoluene | 1.0 | " | 100 |
| 1,2,4-Trimethylbenzene | 1.0 | " | 100 |
| 1,3,5-Trimethylbenzene | 1.0 | " | 100 |
| n-Butylbenzene | 1.0 | " | 100 |
| sec-Butylbenzene | 1.0 | " | 100 |
| tert-Butylbenzene | 1.0 | " | 98 |
| Naphthalene | 1.0 | " | 79 |
| Methyl-t-butylether | 1.0 | " | - |
| Surrogate Recoveries | | % | |
| d4-1,2-Dichloroethane | | | 75 |
| d8-Toluene | | | 85 |
| Bromofluorobenzene | | | 88 |
| d10-Ethylbenzene | | | 87 |

PASC - Certificate of Analysis

| | | | NAPL EXC AREA1 NORTH | NAPL EXC AREA1 SOUTH | NAPL EXC AREA 1 EAST | NAPL EXC AREA 1 WEST | NAPL EXC AREA1BOTTOM | NAPL EXC AREA2 NORTH | NAPL EXC AREA2 SOUTH |
|------------------------|-----|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Client ID: | | | | | | | | | |
| Lab No.: | | | 010288 04 | 010289 04 | 010290 04 | 010291 04 | 010292 04 | 010293 04 | 010294 04 |
| Date Sampled: | | | 03-Mar-2004 |
| Component | MDL | Units | | | | | | | |
| Naphthalene | 90 | ug/kg | <180 | 400 | 140 | <180 | <360 | <180 | <360 |
| Acenaphthene | 70 | " | <140 | 190 | 100 | <140 | <280 | <140 | <280 |
| Fluorene | 40 | " | <80 | 280 | 210 | <80 | <160 | <80 | <160 |
| Phenanthrene | 30 | " | 70 | 1300 | 4200 | 220 | 510 | 70 | <120 |
| Anthracene | 60 | " | <120 | 440 | 1600 | <120 | 210 | <120 | <240 |
| Fluoranthene | 60 | " | <120 | 2100 | 12000 | 210 | 1600 | <120 | <240 |
| Pyrene | 40 | " | <80 | 2100 | 10000 | 170 | 1400 | <80 | <160 |
| Benz(a)anthracene | 50 | " | <100 | 1200 | 6300 | <100 | 780 | <100 | <200 |
| Chrysene | 40 | " | <80 | 1400 | 5800 | 90 | 760 | <80 | <160 |
| Benzo(b)fluoranthene | 40 | " | <80 | 1500 | 5000 | 90 | 590 | <80 | <160 |
| Benzo(k)fluoranthene | 40 | " | <80 | 1300 | 5000 | 90 | 570 | <80 | <160 |
| Benzo(a)pyrene | 50 | " | <100 | 1400 | 5200 | <100 | 590 | <100 | <200 |
| Indeno(1,2,3-cd)pyrene | 60 | " | <120 | 1300 | 3700 | <120 | 410 | <120 | <240 |
| Dibenzo(ah)anthracene | 50 | " | <100 | 300 | 1000 | <100 | <200 | <100 | <200 |
| Benzo(ghi)perylene | 60 | " | 280 | 1000 | 2500 | <120 | <240 | <120 | <240 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Nitrobenzene | | | 72 | 71 | 73 | 73 | 72 | 70 | 66 |
| 2-Fluorobiphenyl | | | 73 | 77 | 77 | 75 | 73 | 74 | 70 |
| d14-p-Terphenyl | | | 81 | 83 | 80 | 82 | 82 | 81 | 81 |

| Component | MDL | Units | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC |
|------------------------|-----|-------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | AREA 2 EAST | AREA 2 WEST | AREA2BOTTOM | AREA3 NORTH | AREA3 SOUTH | AREA 3 EAST | AREA 3 WEST |
| | | | Client ID: Lab No.: Date Sampled: | 010295 04 03-Mar-2004 | 010296 04 03-Mar-2004 | 010297 04 03-Mar-2004 | 010298 04 03-Mar-2004 | 010299 04 03-Mar-2004 | 010300 04 03-Mar-2004 |
| Naphthalene | 90 | ug/kg | 620 | <360 | <900 | <540 | <540 | <360 | <360 |
| Acenaphthene | 70 | " | <140 | <280 | <700 | <420 | <420 | <280 | <280 |
| Fluorene | 40 | " | 130 | <160 | <400 | <240 | <240 | <160 | <160 |
| Phenanthrene | 30 | " | 440 | <120 | <300 | <180 | 1900 | 1300 | 260 |
| Anthracene | 60 | " | <120 | <240 | <600 | <360 | 440 | 310 | <240 |
| Fluoranthene | 60 | " | 220 | <240 | <600 | <360 | 2700 | 1600 | <240 |
| Pyrene | 40 | " | 290 | <160 | <400 | <240 | 2600 | 1500 | 280 |
| Benz(a)anthracene | 50 | " | 160 | <200 | <500 | <300 | 1200 | 810 | <200 |
| Chrysene | 40 | " | 210 | <160 | <400 | <240 | 1300 | 1000 | 360 |
| Benzo(b)fluoranthene | 40 | " | 260 | <160 | <400 | <240 | 1100 | 1100 | <160 |
| Benzo(k)fluoranthene | 40 | " | 190 | <160 | <400 | <240 | 950 | 820 | <160 |
| Benzo(a)pyrene | 50 | " | 220 | <200 | <500 | <300 | 940 | 820 | <200 |
| Indeno(1,2,3-cd)pyrene | 60 | " | 350 | <240 | <600 | <360 | 740 | 890 | <240 |
| Dibenzo(ah)anthracene | 50 | " | <100 | <200 | <500 | <300 | <300 | 220 | <200 |
| Benzo(ghi)perylene | 60 | " | 200 | <240 | <600 | <360 | 510 | 560 | <240 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Nitrobenzene | | | 63 | 59 | 64 | 58 | 60 | 60 | 27 |
| 2-Fluorobiphenyl | | | 69 | 65 | 72 | 59 | 64 | 70 | 30 |
| d14-p-Terphenyl | | | 76 | 82 | 83 | 72 | 77 | 76 | 36 |

| Component | MDL | Units | Client ID: | NAPL EXC | Bermed | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|
| | | | Lab No.: | AREA3BOTTOM | Stripped Soil | Blank | Spike | Recovery | Duplicate | Recovery |
| Date Sampled: | | | | 010302 04 | 010303 04 | 010287 04 | 010287 04 | 010287 04 | 010287 04 | 010287 04 |
| | | | | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| Naphthalene | 90 | ug/kg | | <360 | 6400 | <180 | 3200 | 80 | 3400 | 84 |
| Acenaphthene | 70 | " | | <280 | 11000 | <140 | 3200 | 80 | 3400 | 85 |
| Fluorene | 40 | " | | <160 | 13000 | <80 | 3100 | 79 | 3400 | 86 |
| Phenanthrene | 30 | " | | <120 | 110000 | <60 | 3300 | 81 | 3400 | 85 |
| Anthracene | 60 | " | | <240 | 30000 | <120 | 3300 | 83 | 3500 | 88 |
| Fluoranthene | 60 | " | | <240 | 120000 | <120 | 3200 | 81 | 3400 | 85 |
| Pyrene | 40 | " | | <160 | 90000 | <80 | 3400 | 86 | 3700 | 92 |
| Benz(a)anthracene | 50 | " | | <200 | 50000 | <100 | 3200 | 81 | 3400 | 86 |
| Chrysene | 40 | " | | <160 | 48000 | <80 | 3300 | 83 | 3600 | 90 |
| Benzo(b)fluoranthene | 40 | " | | <160 | 38000 | <80 | 3300 | 83 | 3600 | 89 |
| Benzo(k)fluoranthene | 40 | " | | <160 | 34000 | <80 | 3400 | 84 | 3600 | 90 |
| Benzo(a)pyrene | 50 | " | | <200 | 40000 | <100 | 3200 | 80 | 3500 | 87 |
| Indeno(1,2,3-cd)pyrene | 60 | " | | <240 | 27000 | <120 | 3200 | 80 | 3500 | 86 |
| Dibenzo(ah)anthracene | 50 | " | | <200 | 7100 | <100 | 3200 | 81 | 3500 | 88 |
| Benzo(ghi)perylene | 60 | " | | <240 | 18000 | <120 | 3100 | 78 | 3200 | 79 |
| Surrogate Recoveries | | % | | | | | | | | |
| d5-Nitrobenzene | | | | 59 | 75 | 74 | 80 | 80 | 85 | 85 |
| 2-Fluorobiphenyl | | | | 64 | 82 | 74 | 82 | 82 | 87 | 87 |
| d14-p-Terphenyl | | | | 78 | 85 | 93 | 87 | 87 | 93 | 93 |

| Component | Client ID: | | NAPL EXC | NAPL EXC | NAPL EXC | NAPL EXC |
|------------------------|---------------|----------|-------------|-------------|-------------|-------------|
| | Lab No.: | | AREA1 NORTH | AREA1 NORTH | AREA1 NORTH | AREA1 NORTH |
| | Date Sampled: | | 010288 04 | 010288 04 | 010288 04 | 010288 04 |
| | MDL | Units | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Naphthalene | 90 | ug/kg | 4600 | 75 | 5000 | 76 |
| Acenaphthene | 70 | " | 4600 | 76 | 5000 | 76 |
| Fluorene | 40 | " | 4600 | 75 | 5000 | 77 |
| Phenanthrene | 30 | " | 4700 | 78 | 5100 | 78 |
| Anthracene | 60 | " | 4600 | 75 | 4800 | 74 |
| Fluoranthene | 60 | " | 4700 | 77 | 5000 | 76 |
| Pyrene | 40 | " | 5000 | 82 | 5400 | 83 |
| Benz(a)anthracene | 50 | " | 4700 | 78 | 5100 | 78 |
| Chrysene | 40 | " | 4900 | 81 | 5300 | 81 |
| Benzo(b)fluoranthene | 40 | " | 4900 | 81 | 5300 | 82 |
| Benzo(k)fluoranthene | 40 | " | 4900 | 80 | 5200 | 80 |
| Benzo(a)pyrene | 50 | " | 4600 | 76 | 4800 | 73 |
| Indeno(1,2,3-cd)pyrene | 60 | " | 5000 | 83 | 5400 | 83 |
| Dibenzo(ah)anthracene | 50 | " | 5000 | 83 | 5500 | 84 |
| Benzo(ghi)perylene | 60 | " | 4500 | 75 | 4800 | 74 |
| Surrogate Recoveries | | % | | | | |
| d5-Nitrobenzene | | | 73 | 73 | 74 | 74 |
| 2-Fluorobiphenyl | | | 75 | 75 | 76 | 76 |
| d14-p-Terphenyl | | | 81 | 81 | 82 | 82 |

| | | |
|--------------------|-----------------|-----------------|
| Batch Code: | 0308MC01 | 0308MC02 |
| Benzene | 010287 04 | 010292 04 |
| | 010288 04 | 010293 04 |
| | 010289 04 | 010294 04 |
| | 010290 04 | 010295 04 |
| | 010291 04 | 010296 04 |
| | | 010297 04 |
| | | 010298 04 |
| | | 010299 04 |
| | | 010300 04 |
| | | 010301 04 |
| | | 010302 04 |
| | | 010303 04 |
| Date Analysed: | 04/03/08 | 04/03/08 |
| Date Prepared: | 04/03/08 | 04/03/08 |

| | | |
|--------------------|-----------------|-----------------|
| Batch Code: | 0309SPA1 | 0309SPA1 |
| Naphthalene | 010287 04 | 010288 04 |
| | 010294 04 | 010289 04 |
| | 010303 04 | 010290 04 |
| | | 010291 04 |
| | | 010292 04 |
| | | 010293 04 |
| | | 010295 04 |
| | | 010296 04 |
| | | 010297 04 |
| | | 010298 04 |
| | | 010299 04 |
| | | 010300 04 |
| | | 010301 04 |
| | | 010302 04 |
| Date Analysed: | 04/03/10 | 04/03/11 |
| Date Prepared: | 04/03/09 | 04/03/09 |

CHAIN OF CUSTODY



ANALYTICAL SERVICES
 5555 North Service Road
 Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
 Tel: (905) 332-8788
 Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NINECTC Inc
 Project Manager: Russ Savage
 Address: 3553 Cr. Henden Rd
Cr. Henden, NY 14038
 Phone #: 716-937-6527 Fax #: 716-937-9360
 Sampled by: Jon Neubauer

M&S-070287

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 8071 STRIPS | 8070 STRIPS | Level of contamination (low, high, unknown) |
|-----------------|-----------------------------|-----------|----------|---------------|------|-------------|-------------|---|
| <u>10258</u> | <u>NAPLEX AREA 1 NORTH</u> | <u>1</u> | <u>S</u> | <u>3/3/04</u> | | <u>/</u> | <u>/</u> | <u>2.50ug/L</u> |
| <u>89</u> | <u>NAPLEX AREA 1 SOUTH</u> | <u>1</u> | <u>S</u> | <u>3/3/04</u> | | <u>/</u> | <u>/</u> | |
| <u>90</u> | <u>NAPLEX AREA 1 EAST</u> | <u>1</u> | <u>S</u> | <u>3/3/04</u> | | <u>/</u> | <u>/</u> | |
| <u>91</u> | <u>NAPLEX AREA 1 WEST</u> | <u>1</u> | <u>S</u> | <u>3/3/04</u> | | <u>/</u> | <u>/</u> | |
| <u>92</u> | <u>NAPLEX AREA 1 BOTTOM</u> | <u>1</u> | <u>S</u> | <u>3/3/04</u> | | <u>/</u> | <u>/</u> | |

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL
**some exceptions apply please contact Lab*

STD 10 Business Days
 RUSH 5 Business Days
 RUSH 2 Business Days
 RUSH 1 Business Days
 Other Business Days

PROJECT INFORMATION

Project #: _____

Site: UNION SHIP CANAL

PO#: _____

Philip Quote #: _____

Philip Project #: _____

Philip Contact: _____

SPECIAL DETECTION LIMITS

MISA

SPECIAL REQUIREMENTS / REGULATIONS

ASP CATEGORY B
DELIVERABLES
NORMAL TIA

REMARKS

ASP

Client Signature: [Signature]
 Affiliation: NINECTC Inc
 Date/Time: 3/3/04 3:30 pm

Received By: [Signature]
 Affiliation: PSC
 Date/Time: 3/3/04 3:30 pm

Rec'd By: _____
 Date/Time: _____

WHITE - LAB / YELLOW - CLIENT

SEE OVER FOR COMPLETION & SAMPLING INSTRUCTIONS

OCT-12-2004 14:58 PSC ANALYTICAL SERVICES 1 905 332 1511 P.09

CHAIN OF CUSTODY



ANALYTICAL SERVICES

5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639

Tel: (905) 332-8788

Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NINECTC Inc
 Project Manager: RUSS SAVAGE
 Address: 3553 Cr. Henden Rd
Cr. Henden, NY 14038
 Phone #: 716-937-6527 Fax #: 716-937-9360
 Sampled by: Jon Neubauer

884 STARS
8270 STARS

Level of contamination
(low, high, unknown)

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 884 STARS | 8270 STARS | Level of contamination (low, high, unknown) |
|-----------------|------------------------|-----------|--------|--------|------|-----------|------------|---|
| 10293 | NAPL EXC AREA 2 NORTH | 1 | S | 3/3/04 | | ✓ | ✓ | 20006 |
| 94 | NAPL EXC AREA 2 SOUTH | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 95 | NAPL EXC AREA 2 EAST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 96 | NAPL EXC AREA 2 WEST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 97 | NAPL EXC AREA 2 BOTTOM | 1 | S | 3/3/04 | | ✓ | ✓ | |

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL
 *some exceptions apply please contact Lab
 STD 10 Business Days
 RUSH 5 Business Days
 RUSH 2 Business Days
 RUSH 1 Business Days
 Other Business Days _____

PROJECT INFORMATION
 Project #: _____
 Site: UNION SHIP CANAL
 PO#: _____
 Philip Quote #: _____
 Philip Project #: _____
 Philip Contact: _____

SPECIAL DETECTION LIMITS
 MISA
SPECIAL REQUIREMENTS / REGULATIONS
ASP CATEGORY B DELIVERABLES
NORMAL TIA

REMARKS
ASP
4.7

Client Signature: James D. Blackwood
 Affiliation: NINECTC Inc
 Date/Time: 3/3/04, 3:30 pm

Received By: Kevin Kielinski
 Affiliation: PSC
 Date/Time: 3/3/04, 3:30 pm

Rec'd By: _____
 Date/Time: _____

CHAIN OF CUSTODY



ANALYTICAL SERVICES

5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639

Tel: (905) 332-8788

Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NINECTC Inc
 Project Manager: RUSS SAVAGE
 Address: 3553 Cr. Henden Rd
Cr. Henden, NY 14038
 Phone #: 716-937-6527 Fax #: 716-937-9360
 Sampled by: Jon Neuberger

821 STARS
820 STARS

Level of contamination (low, high, unknown)

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 821 STARS | 820 STARS | Level of contamination (low, high, unknown) |
|-----------------|--|-----------|--------|--------|------|-----------|-----------|---|
| 10298 | NAPL EXC AREA 3 NORTH | 1 | S | 3/3/04 | | ✓ | ✓ | 2 JUAL |
| 79 | NAPL EXC AREA 3 SOUTH | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 300 | NAPL EXC AREA 3 EAST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 301 | NAPL EXC AREA 3 WEST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 302 | NAPL EXC AREA 3 BOTTOM | 1 | S | 3/3/04 | | ✓ | ✓ | ✓ |
| 160W-10304 | | | | | | | | |
| 05 | NAPL AREA 5 EXCAVATION WATER IN EXCAVATION | 3 | L | 3/3/04 | | ✓ | ✓ | 1 AL, 406 x 2 |
| 070303 | Bermed Stripped Soil from NAPL EXC AREA 3 | 1 | S | 3/3/04 | | ✓ | ✓ | 2 SPAL |

| | | | |
|---|--|---|-------------------------------------|
| TAT (Turnaround Time) RUSH TAT MUST HAVE PRIOR APPROVAL *some exceptions apply please contact Lab STD 10 Business Days RUSH 5 Business Days <input checked="" type="checkbox"/> RUSH 2 Business Days <input type="checkbox"/> RUSH 1 Business Days <input type="checkbox"/> Other Business Days <input type="checkbox"/> | PROJECT INFORMATION Project #: _____ Site: <u>UNION SHIP CANAL</u> PO#: _____ Philip Quote #: _____ Philip Project #: _____ Philip Contact: _____ | SPECIAL DETECTION LIMITS MISA <input type="checkbox"/> SPECIAL REQUIREMENTS / REGULATIONS ASP CATEGORY B DELIVERABLES NORMAL TIA | REMARKS ASP |
| | Client Signature: <u>[Signature]</u> Affiliation: <u>NINECTC, Inc</u> Date/Time: <u>3/3/04, 3:30 pm</u> | Received By: <u>[Signature]</u> Affiliation: <u>PSC</u> Date/Time: <u>3/3/04, 3:30 pm</u> | Rec'd By: _____ Date/Time: _____ |

WHITE - LAB / YELLOW - CLIENT

SEE OVER FOR COMPLETION & SAMPLING INSTRUCTIONS

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 05-Aug-2004
Date Reported: 20-Aug-2004

Submission No.: 4H0115
Sample No.: 049080-049085

NOTES:

*"n" = not analysed "c" = less than Method Detection Limit (MDL) "NA" = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

- (1) 2 internal standards did not meet 50% area response criteria. Re-injected with similar results
- (2) 1 internal standards did not meet 50% area response criteria. Rc-injected with similar results

Certified by: 

Page 1 of 7

8/26/04

PASC - Certificate of Analysis

Page 2 of 7

| Component | Client ID: | Method | Blank | Blank | NAPL | |
|---------------------------|---------------|-----------|-----------|--------------|-----------------|-------|
| | Lab No.: | Blank | Spike | Spike | Area2-NorthWall | |
| | Date Sampled: | 049080 04 | 049080 04 | 049080 04 | 049081 04 | |
| | MDL | | | % Recoveries | 30-Jul-2004 | |
| | Units | | | | | |
| Acetone | 0.020 | mg/kg | < | 0.072 | 120 | 0.027 |
| Benzene | 0.001 | " | < | 0.065 | 100 | 0.002 |
| Bromoform | 0.001 | " | < | 0.062 | 99 | < |
| Bromomethane | 0.006 | " | < | 0.061 | 98 | < |
| 2-Butanone | 0.005 | " | < | 0.078 | 130 | < |
| Carbon Disulfide | 0.001 | " | < | 0.072 | 110 | 0.009 |
| Carbon Tetrachloride | 0.001 | " | < | 0.068 | 110 | < |
| Chlorobenzene | 0.001 | " | < | 0.065 | 100 | < |
| Chlorodibromomethane | 0.001 | " | < | 0.064 | 100 | < |
| Chloroethane | 0.001 | " | < | 0.058 | 92 | < |
| Chloroform | 0.001 | " | < | 0.067 | 110 | < |
| Chloromethane | 0.001 | " | < | 0.066 | 110 | < |
| 1,2-Dichlorobenzene | 0.001 | " | < | 0.061 | 98 | < |
| 1,3-Dichlorobenzene | 0.001 | " | < | 0.063 | 100 | < |
| 1,4-Dichlorobenzene | 0.001 | " | < | 0.063 | 100 | < |
| Dichlorobromomethane | 0.001 | " | < | 0.068 | 110 | < |
| 1,1-Dichloroethane | 0.001 | " | < | 0.065 | 100 | < |
| 1,2-Dichloroethane | 0.001 | " | < | 0.066 | 110 | < |
| 1,1-Dichloroethene | 0.001 | " | < | 0.064 | 100 | < |
| cis-1,2-Dichloroethene | 0.001 | " | < | 0.067 | 110 | < |
| trans-1,2-Dichloroethene | 0.001 | " | < | 0.065 | 100 | < |
| 1,2-Dichloropropane | 0.001 | " | < | 0.067 | 110 | < |
| cis-1,3-Dichloropropene | 0.001 | " | < | 0.066 | 110 | < |
| trans-1,3-Dichloropropene | 0.001 | " | < | 0.061 | 98 | < |
| Ethylbenzene | 0.001 | " | < | 0.068 | 110 | < |
| 2-Hexanone | 0.005 | " | < | 0.074 | 120 | < |
| Dichloromethane | 0.020 | " | < | 0.064 | 100 | < |
| 4-Methyl-2-Pentanone | 0.005 | " | < | 0.075 | 120 | < |
| Methyl-t-butylether | 0.001 | " | < | NS | - | < |
| Styrene | 0.001 | " | < | 0.069 | 110 | < |
| 1,1,2,2-Tetrachloroethane | 0.001 | " | < | 0.061 | 97 | < |
| Tetrachloroethene | 0.001 | " | < | 0.066 | 110 | < |
| Toluene | 0.001 | " | < | 0.064 | 100 | 0.002 |
| 1,1,1-Trichloroethane | 0.001 | " | < | 0.069 | 110 | < |
| 1,1,2-Trichloroethane | 0.001 | " | < | 0.065 | 100 | < |
| Trichloroethene | 0.001 | " | < | 0.069 | 110 | < |
| Trichlorofluoromethane | 0.001 | " | < | 0.066 | 110 | < |
| Vinyl Acetate | 0.005 | " | < | NS | - | < |
| Vinyl Chloride | 0.001 | " | < | 0.057 | 91 | < |
| m&p-Xylene | 0.001 | " | < | 0.13 | 110 | 0.001 |
| o-Xylene | 0.001 | " | < | 0.064 | 100 | < |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 80 | 85 | 85 | 76 |
| d8-Toluene | | | 85 | 93 | 93 | 87 |
| Bromofluorobenzene | | | 92 | 101 | 101 | 82 |
| d10-Ethylbenzene | | | 102 | 102 | 102 | 75 |

8/26/04

PASC - Certificate of Analysis

| Component | MDL | Units | NAPL | NAPL Area | NAPL Area | NAPL Area |
|---------------------------|-------|-------|-----------------|-------------|-------------|-------------|
| | | | Area2-SouthWall | 2-EastWall | 2-WestWall | 2-Bottom |
| | | | 049082 04 | 049083 04 | 049084 04 | 049085 04 |
| | | | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 |
| Acelone | 0.020 | mg/kg | < | 0.021 | < | 0.042 |
| Benzene | 0.001 | " | < | < | 0.001 | < |
| Bromoform | 0.001 | " | < | < | < | < |
| Bromomethane | 0.006 | " | < | < | < | < |
| 2-Butanone | 0.005 | " | < | < | < | <0.007 |
| Carbon Disulfide | 0.001 | " | < | 0.006 | 0.001 | 0.022 |
| Carbon Tetrachloride | 0.001 | " | < | < | < | < |
| Chlorobenzene | 0.001 | " | < | < | < | < |
| Chlorodibromomethane | 0.001 | " | < | < | < | < |
| Chloroethane | 0.001 | " | < | < | < | < |
| Chloroform | 0.001 | " | < | < | < | < |
| Chloromethane | 0.001 | " | < | < | < | < |
| 1,2-Dichlorobenzene | 0.001 | " | < | < | < | < |
| 1,3-Dichlorobenzene | 0.001 | " | < | < | < | < |
| 1,4-Dichlorobenzene | 0.001 | " | < | < | < | < |
| Dichlorobromomethane | 0.001 | " | < | < | < | < |
| 1,1-Dichloroethane | 0.001 | " | < | < | < | < |
| 1,2-Dichloroethane | 0.001 | " | < | < | < | < |
| 1,1-Dichloroethene | 0.001 | " | < | < | < | < |
| cis-1,2-Dichloroethene | 0.001 | " | < | < | < | < |
| trans-1,2-Dichloroethene | 0.001 | " | < | < | < | < |
| 1,2-Dichloropropane | 0.001 | " | < | < | < | < |
| cis-1,3-Dichloropropene | 0.001 | " | < | < | < | < |
| trans-1,3-Dichloropropene | 0.001 | " | < | < | 0.001 | < |
| Ethylbenzene | 0.001 | " | < | < | < | < |
| 2-Hexanone | 0.005 | " | < | < | < | < |
| Dichloromethane | 0.020 | " | < | < | < | < |
| 4-Methyl-2-Pentanone | 0.005 | " | < | < | < | < |
| Methyl-t-butylether | 0.001 | " | < | < | < | < |
| Styrene | 0.001 | " | < | < | < | < |
| 1,1,2,2-Tetrachloroethane | 0.001 | " | < | < | < | < |
| Tetrachloroethene | 0.001 | " | < | 0.002 | 0.004 | 0.002 |
| Toluene | 0.001 | " | < | < | < | < |
| 1,1,1-Trichloroethane | 0.001 | " | < | < | < | < |
| 1,1,2-Trichloroethane | 0.001 | " | < | < | < | < |
| Trichloroethene | 0.001 | " | < | < | < | < |
| Trichlorofluoromethane | 0.001 | " | < | < | < | < |
| Vinyl Acetate | 0.005 | " | < | < | < | < |
| Vinyl Chloride | 0.001 | " | < | < | < | < |
| m&p-Xylene | 0.001 | " | 0.002 | 0.003 | 0.006 | 0.002 |
| o-Xylene | 0.001 | " | 0.001 | 0.001 | 0.003 | 0.001 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 75 | 76 | 67 | 79 |
| d8-Toluene | | | 85 | 85 | 87 | 91 |
| Bromofluorobenzene | | | 85 | 83 | 77 | 97 |
| d10-Ethylbenzene | | | 78 | 66 | 83 | 81 |

8/26/04

PASC - Certificate of Analysis

| Component | Client ID: | Method | Blank | Blank | Blank | Blank | NAPL | |
|------------------------|------------|-----------|-----------|--------------|-----------|--------------|-----------------|-------|
| | Lab No.: | Blank | Spike #1 | Spike #1 | Spike #2 | Spike #2 | Area2-NorthWall | |
| Date Sampled: | | 049080 04 | 049080 04 | 049080 04 | 049080 04 | 049080 04 | 049081 04 | |
| MDL | Units | | | % Recoveries | | % Recoveries | 30-Jul-2004 | |
| | | | | | | | (1) | |
| Naphthalene | 0.09 | mg/kg | <0.18 | 3.1 | 77 | 3.1 | 78 | <0.18 |
| Acenaphthene | 0.07 | " | <0.14 | 3.2 | 80 | 3.2 | 79 | <0.14 |
| Fluorene | 0.04 | " | <0.08 | 3.1 | 77 | 3.0 | 74 | <0.08 |
| Phenanthrene | 0.03 | " | <0.06 | 3.3 | 84 | 3.3 | 83 | 0.11 |
| Anthracene | 0.06 | " | <0.12 | 3.3 | 83 | 3.4 | 84 | <0.12 |
| Fluoranthene | 0.06 | " | <0.12 | 3.4 | 86 | 3.4 | 86 | 0.17 |
| Pyrene | 0.04 | " | <0.08 | 3.3 | 81 | 3.4 | 86 | 0.31 |
| Benzo(a)anthracene | 0.05 | " | <0.10 | 3.5 | 89 | 3.6 | 89 | 0.13 |
| Chrysene | 0.04 | " | <0.08 | 3.6 | 89 | 3.6 | 90 | 0.15 |
| Benzo(b)fluoranthene | 0.04 | " | <0.08 | 3.5 | 88 | 3.6 | 89 | 0.18 |
| Benzo(k)fluoranthene | 0.04 | " | <0.08 | 3.3 | 81 | 3.3 | 83 | 0.13 |
| Benzo(a)pyrene | 0.05 | " | <0.10 | 3.4 | 84 | 3.4 | 85 | <0.10 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.12 | 3.1 | 78 | 3.2 | 79 | <0.12 |
| Dibenzo(ah)anthracene | 0.05 | " | <0.10 | 2.9 | 73 | 2.9 | 72 | <0.10 |
| Benzo(ghi)perylene | 0.06 | " | <0.12 | 3.1 | 78 | 3.1 | 78 | <0.12 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Nitrobenzene | | | 65 | 76 | 76 | 75 | 75 | 57 |
| 2-Fluorobiphenyl | | | 67 | 80 | 80 | 79 | 79 | 65 |
| d14-p-Terphenyl | | | 79 | 81 | 81 | 83 | 83 | 92 |

PSC Submission No: 4H0115

Client: NWEC+C Inc. Project: Union Ship Canal

OCT-22-2004 13:23

PSC ANALYTICAL SERVICES

1 905 332 1511

P.04

8/26/04

PASC - Certificate of Analysis

| Component | MDL | Units | NAPL | NAPL | NAPL | NAPL | NAPL | NAPL Area | NAPL Area |
|------------------------|------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|
| | | | Area2-NorthWall | Area2-NorthWall | Area2-NorthWall | Area2-NorthWall | Area2-SouthWall | 2-EastWall | 2-WestWall |
| | | | 049081 04 | 049081 04 | 049081 04 | 049081 04 | 049082 04 | 049083 04 | 049084 04 |
| | | | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 | 30-Jul-2004 |
| | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | | | |
| | | | | | | | | (2) | (1) |
| Naphthalene | 0.09 | mg/kg | 3.7 | 73 | 3.8 | 76 | <0.18 | <0.18 | <0.18 |
| Acenaphthene | 0.07 | " | 3.8 | 76 | 4.1 | 82 | <0.14 | <0.14 | <0.14 |
| Fluorene | 0.04 | " | 3.5 | 70 | 4.0 | 79 | <0.08 | <0.08 | <0.08 |
| Phenanthrene | 0.03 | " | 4.0 | 78 | 4.6 | 89 | 0.49 | 0.41 | 0.28 |
| Anthracene | 0.06 | " | 3.7 | 73 | 4.4 | 87 | <0.12 | <0.12 | <0.12 |
| Fluoranthene | 0.06 | " | 4.0 | 76 | 4.2 | 80 | 0.68 | 0.67 | 0.46 |
| Pyrene | 0.04 | " | 4.8 | 89 | 6.1 | 120 | 0.82 | 0.85 | 0.66 |
| Benz(a)anthracene | 0.05 | " | 4.2 | 80 | 4.7 | 91 | 0.44 | 0.50 | 0.30 |
| Chrysene | 0.04 | " | 4.5 | 85 | 4.9 | 95 | 0.57 | 0.67 | 0.34 |
| Benzo(b)fluoranthene | 0.04 | " | 4.6 | 86 | 4.5 | 86 | 0.49 | 0.57 | <0.37 |
| Benzo(k)fluoranthene | 0.04 | " | 4.7 | 92 | 5.2 | 100 | 0.57 | 0.45 | <0.13 |
| Benzo(a)pyrene | 0.05 | " | 4.2 | 82 | 4.6 | 91 | 0.48 | <0.18 | <0.18 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | 4.8 | 95 | 4.5 | 90 | 0.36 | <0.19 | <0.19 |
| Dibenzo(ah)anthracene | 0.05 | " | 5.2 | 100 | 5.0 | 99 | <0.10 | <0.10 | <0.10 |
| Benzo(ghi)perylene | 0.06 | " | 4.4 | 86 | 4.5 | 89 | 0.33 | <0.26 | <0.24 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Nitrobenzene | | | 72 | 72 | 71 | 71 | 65 | 63 | 65 |
| 2-Fluorobiphenyl | | | 74 | 74 | 80 | 80 | 72 | 69 | 77 |
| d14-p-Terphenyl | | | 94 | 94 | 119 | 119 | 104 | 100 | 118 |

8/26/04

PASC - Certificate of Analysis

OCT-22-2004 13:23

PSC ANALYTICAL SERVICES

1 905 332 1511

P.06

Client ID: NAPL Area
 Lab No.: 2-Bottom
 Date Sampled: 049085 04
 30-Jul-2004

| Component | MDL | Units | (2) |
|------------------------|------|-------|-------|
| Naphthalene | 0.09 | mg/kg | <0.18 |
| Acenaphthene | 0.07 | " | <0.14 |
| Fluorene | 0.04 | " | <0.08 |
| Phenanthrene | 0.03 | " | <0.06 |
| Anthracene | 0.06 | " | <0.12 |
| Fluoranthene | 0.06 | " | <0.12 |
| Pyrene | 0.04 | " | <0.08 |
| Benz(a)anthracene | 0.05 | " | <0.10 |
| Chrysene | 0.04 | " | <0.08 |
| Benzo(b)fluoranthene | 0.04 | " | <0.08 |
| Benzo(k)fluoranthene | 0.04 | " | <0.08 |
| Benzo(a)pyrene | 0.05 | " | <0.10 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.12 |
| Dibenzo(ah)anthracene | 0.05 | " | <0.10 |
| Benzo(ghi)perylene | 0.06 | " | <0.12 |
| Surrogate Recoveries | | % | |
| d5-Nitrobenzene | | | 51 |
| 2-Fluorobiphenyl | | | 53 |
| d14-p-Terphenyl | | | 95 |

8/26/04

PASC - Summary of Analysis Pre. Dates

Page MS-7 of 7

Batch Code: 0807MC01
STARS - Volatiles 049080 04
049081 04
049082 04
049083 04
049084 04
049085 04
Date Analysed: 04/08/07
Date Prepared: 04/08/07

| | | | | |
|-----------------------|-----------------|-----------------|-----------------|-----------------|
| Batch Code: | 0812SPA2 | 0809SPA2 | 0812SPA2 | 0809SPA2 |
| STARS - SVOC | 049080 04 | 049081 04 | 049081 04 | 049082 04 |
| | 049082 04 | | | 049083 04 |
| | 049083 04 | | | 049084 04 |
| | 049084 04 | | | 049085 04 |
| | 049085 04 | | | |
| Date Analysed: | 04/08/16 | 04/08/12 | 04/08/17 | 04/08/11 |
| Date Prepared: | 04/08/12 | 04/08/09 | 04/08/12 | 04/08/09 |

CHAIN OF CUSTODY



ANALYTICAL SERVICES
 5555 North Service Road
 Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
 Tel: (905) 332-8788
 Fax: (905) 332-9169

Page 1 of 1

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NWEC INC
 Project Manager: RUSS SAUSAGE
 Address: 3553 CRITTENDEN RD
CRITTENDEN, NY 14038
 Phone #: 716-937-6527 Fax #: 716-937-9360
 Sampled by: Tom Wicellie Tom Wicellie

8021 STARS
8270 STARS

Level of contamination
(low, high, unknown)

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 8021 STARS | 8270 STARS | | | | | Level of contamination (low, high, unknown) |
|-----------------|---|-----------|--------|---------|------|------------|------------|--|--|--|--|---|
| | NAPL AREA 2 EXCAVATION EXTENSION NORTH WALL | 2 | Soil | 7/30/04 | | ✓ | ✓ | | | | | |
| | NAPL AREA 2 EXCAVATION EXTENSION SOUTH WALL | 2 | Soil | 7/30/04 | | ✓ | ✓ | | | | | |
| | NAPL AREA 2 EXCAVATION EXTENSION EAST WALL | 2 | Soil | 7/30/04 | | ✓ | ✓ | | | | | |
| | NAPL AREA 2 EXCAVATION EXTENSION WEST WALL | 2 | Soil | 7/30/04 | | ✓ | ✓ | | | | | |
| | NAPL AREA 2 EXCAVATION EXTENSION BOTTOM | 2 | Soil | 7/30/04 | | ✓ | ✓ | | | | | |

TAT (Turnaround Time)
 RUSH TAT MUST HAVE PRIOR APPROVAL

- *some exceptions apply please contact Lab*
- STD 10 Business Days
 - RUSH 5 Business Days
 - RUSH 2 Business Days
 - RUSH 1 Business Days
 - Other Business Days

PROJECT INFORMATION

Project #: _____

Site: UNION SHIP CANAL

PO#: _____

Philip Quote #: _____

Philip Project #: _____

Philip Contact: _____

SPECIAL DETECTION LIMITS

MISA

SPECIAL REQUIREMENTS / REGULATIONS

ASP Cat B deliverables
Level 4"

REMARKS

Client Signature: Jimmy Burgess
 Affiliation: NWEC INC
 Date/Time: 8/5/04 8:00

Received By: [Signature]
 Affiliation: _____
 Date/Time: 8-5-4 8:00

Rec'd By: _____
 Date/Time: _____

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc. C.Chem.
Project: AN040300
Date Received: 09-Aug-2004
Date Reported: 23-Aug-2004

Submission No.: 4H0240
Sample No.: 049872-049874

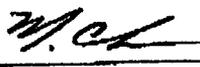
NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analytes are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 5

| Component | MDL | Units | NAPL Area3-NW | NAPL Area3-NW | NAPL Area3-NW |
|---------------------------|-------|-------|---------------|---------------|---------------|
| | | | Bottom | Bottom | S.Wall |
| | | | 049873 04 | 049873 04 | 049874 04 |
| | | | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 |
| | | | Duplicate | | |
| Acetone | 0.020 | mg/kg | 0.34 | 0.35 | <0.040 |
| Benzene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Bromoform | 0.001 | " | <0.004 | <0.004 | <0.002 |
| Bromomethane | 0.006 | " | <0.012 | <0.012 | <0.012 |
| 2-Butanone | 0.005 | " | 0.045 | 0.051 | <0.010 |
| Carbon Disulfide | 0.001 | " | 0.015 | 0.014 | 0.003 |
| Carbon Tetrachloride | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Chlorobenzene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Chlorodibromomethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Chloroethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Chloroform | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Chloromethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,2-Dichlorobenzene | 0.001 | " | <0.004 | <0.004 | <0.002 |
| 1,3-Dichlorobenzene | 0.001 | " | <0.004 | <0.004 | <0.002 |
| 1,4-Dichlorobenzene | 0.001 | " | <0.004 | <0.004 | <0.002 |
| Dichlorobromomethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,1-Dichloroethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,2-Dichloroethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,1-Dichloroethene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| cis-1,2-Dichloroethene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| trans-1,2-Dichloroethene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,2-Dichloropropane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| cis-1,3-Dichloropropene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| trans-1,3-Dichloropropene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Ethylbenzene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 2-Hexanone | 0.005 | " | <0.010 | <0.010 | <0.010 |
| Dichloromethane | 0.020 | " | <0.040 | <0.040 | <0.040 |
| 4-Methyl-2-Pentanone | 0.005 | " | <0.010 | <0.010 | <0.010 |
| Methyl-t-butylether | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Styrene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,1,2,2-Tetrachloroethane | 0.001 | " | <0.004 | <0.004 | <0.002 |
| Tetrachloroethene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Toluene | 0.001 | " | 0.003 | 0.003 | <0.002 |
| 1,1,1-Trichloroethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| 1,1,2-Trichloroethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Trichloroethene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Trichlorofluoromethane | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Vinyl Acetate | 0.005 | " | <0.010 | <0.010 | <0.010 |
| Vinyl Chloride | 0.001 | " | <0.002 | <0.002 | <0.002 |
| m&p-Xylene | 0.001 | " | 0.003 | <0.002 | <0.002 |
| o-Xylene | 0.001 | " | <0.002 | <0.002 | <0.002 |
| Surrogate Recoveries | | % | | | |
| d4-1,2-Dichloroethane | | | 74 | 72 | 78 |
| d8-Toluene | | | 93 | 98 | 91 |
| Bromofluorobenzene | | | 65 | 66 | 94 |
| d10-Ethylbenzene | | | 95 | 82 | 82 |

8/23/04

PASC - Certificate of Analysis

Page 4 of 5

| Component | MDL | Units | NAPL Area3-NW | NAPL Area3-NW | Method | Blank | % | Blank Spike | % |
|------------------------|------|-------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|
| | | | Bottom | S. Wall | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 049873 04 | 049874 04 | 049872 04 | 049872 04 | 049872 04 | 049872 04 | 049872 04 |
| | | | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 | 05-Aug-2004 |
| Naphthalene | 0.09 | mg/kg | <0.36 | 1.1 | <0.18 | 3.1 | 77 | 3.1 | 78 |
| Acenaphthene | 0.07 | " | <0.28 | 1.3 | <0.14 | 3.2 | 80 | 3.2 | 79 |
| Fluorene | 0.04 | " | <0.16 | 1.6 | <0.08 | 3.1 | 77 | 3.0 | 74 |
| Phenanthrene | 0.03 | " | <0.12 | 15 | <0.06 | 3.3 | 84 | 3.3 | 83 |
| Anthracene | 0.06 | " | <0.24 | 2.7 | <0.12 | 3.3 | 83 | 3.4 | 84 |
| Fluoranthene | 0.06 | " | <0.24 | 18 | <0.12 | 3.4 | 86 | 3.4 | 86 |
| Pyrene | 0.04 | " | <0.16 | 19 | <0.08 | 3.3 | 81 | 3.4 | 86 |
| Benz(a)anthracene | 0.05 | " | <0.20 | 6.4 | <0.10 | 3.5 | 89 | 3.6 | 89 |
| Chrysene | 0.04 | " | <0.16 | 6.9 | <0.08 | 3.6 | 89 | 3.6 | 90 |
| Benzo(b)fluoranthene | 0.04 | " | <0.16 | 7.5 | <0.08 | 3.5 | 88 | 3.6 | 89 |
| Benzo(k)fluoranthene | 0.04 | " | <0.16 | 6.6 | <0.08 | 3.3 | 81 | 3.3 | 83 |
| Benzo(a)pyrene | 0.05 | " | <0.20 | 5.6 | <0.10 | 3.4 | 84 | 3.4 | 85 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.24 | 5.4 | <0.12 | 3.1 | 78 | 3.2 | 79 |
| Dibenzo(ah)anthracene | 0.05 | " | <0.20 | 0.93 | <0.10 | 2.9 | 73 | 2.9 | 72 |
| Benzo(ghi)perylene | 0.06 | " | <0.24 | 4.7 | <0.12 | 3.1 | 78 | 3.1 | 78 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Nitrobenzene | | | 52 | 55 | 65 | 76 | 76 | 75 | 75 |
| 2-Fluorobiphenyl | | | 62 | 65 | 67 | 80 | 80 | 79 | 79 |
| d14-p-Terphenyl | | | 116 | 103 | 79 | 81 | 81 | 83 | 83 |

PSC Submission No: 4H0240

Client: NWECC Inc. Project: Union Ship Canal

Batch Code: 0810MC01
Acetone 049872 04
 049873 04
 049874 04
Date Analysed: 04/08/10
Date Prepared: 04/08/10

Batch Code: 0810MC01
Ethylbenzene 049872 04
 049873 04
 049874 04
Date Analysed: 04/08/10
Date Prepared: 04/08/10

| | | | |
|-----------------------|-----------|-----------|-----------|
| Batch Code: | 0812SPA2 | 0809SPA2 | 0812SPA2 |
| Naphthalene | 049872 04 | 049873 04 | 049874 04 |
| | 049873 04 | 049874 04 | |
| Date Analysed: | 04/08/16 | 04/08/12 | 04/08/17 |
| Date Prepared: | 04/08/12 | 04/08/09 | 04/08/12 |

CHAIN OF CUSTODY



ANALYTICAL SERVICES
 5555 North Service Road
 Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
 Tel: (905) 332-8788
 Fax: (905) 332-9169

Page 7 of 1

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: Nature's Way Environmental
 Project Manager: Russ Savage
 Address: 3553 Criffenden Rd
Criffenden, NY 14038
 Phone #: (716) 937-6527 Fax #: (716) 937-9360
 Sampled by: Jon Neubauer

8021 STARS
8070 STARS

Level of contamination
(low, high, unknown)

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | | | | | | | | | | | | | | | |
|-----------------|--|-----------|--------|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | Pipe Trench Water East end 3 | | Agw | 8/5/04 | | | | | | | | | | | | | | | | |
| | NAPL Area 3 Northwest corner 1 Bottom | | Soil | 8/5/04 | | | | | | | | | | | | | | | | |
| | NAPL Area 3 Northwest corner 1 Sidewalls | | Soil | 8/5/04 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

TAT (Turnaround Time)

RUSH 3 DAY SERVICE
 BEFORE APPROVAL

- *some exceptions apply please contact Lab
- STD 10 Business Days
- RUSH 5 Business Days
- RUSH 2 Business Days
- RUSH 1 Business Days
- Other Business Days
- RUSH 3 DAY**

PROJECT INFORMATION

Project #: Union Ship Canal
 Site: _____
 PO#: _____
 Philip Quote #: _____
 Philip Project #: _____
 Philip Contact: _____

SPECIAL DETECTION LIMITS

MISA

SPECIAL REQUIREMENTS / REGULATIONS

ISP Category B

REMARKS

Rec'd By: _____
 Date/Time: _____

Client Signature: [Signature]
 Affiliation: ANALYTICAL SERVICES, Inc.
 Date/Time: 10/10/04

Received By: [Signature]
 Affiliation: ASC
 Date/Time: 8-9-4 9:30

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038
Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 11-Aug-2004
Date Reported: 23-Aug-2004

Submission No.: 4H0369
Sample No.: 050641-050643

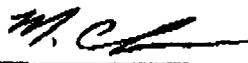
NOTES:

'-' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 5

| Component | MDL | Units | Method | Blank | Blank | NAPL Arca#3 | NAPL Arca#3 | NAPL Arca#3 |
|---------------------------|-------|-------|-----------|-----------|--------------|-------------|-------------|-------------|
| | | | Blank | Spike | Spike | SE-Comp | SE-Comp | SE-Bottom |
| | | | 050641 04 | 050641 04 | 050641 04 | 050642 04 | 050642 04 | 050643 04 |
| Date Sampled: | | | - | - | - | 09-Aug-2004 | 09-Aug-2004 | 09-Aug-2004 |
| | | | | | % Recoveries | | Duplicate | |
| Acetone | 0.020 | mg/kg | < | 0.060 | 95 | < | < | < |
| Benzene | 0.001 | " | < | 0.058 | 93 | < | 0.002 | 0.002 |
| Bromoform | 0.001 | " | < | 0.056 | 90 | < | < | < |
| Bromomethane | 0.006 | " | < | 0.066 | 100 | < | < | < |
| 2-Butanone | 0.005 | " | < | 0.062 | 100 | 0.008 | 0.009 | 0.009 |
| Carbon Disulfide | 0.001 | " | < | 0.068 | 110 | 0.001 | 0.002 | < |
| Carbon Tetrachloride | 0.001 | " | < | 0.063 | 100 | < | < | < |
| Chlorobenzene | 0.001 | " | < | 0.060 | 97 | < | < | < |
| Chlorodibromomethane | 0.001 | " | < | 0.060 | 96 | < | < | < |
| Chloroethane | 0.001 | " | < | 0.058 | 92 | < | < | < |
| Chloroform | 0.001 | " | < | 0.061 | 97 | < | < | < |
| Chloromethane | 0.001 | " | < | 0.074 | 120 | < | < | < |
| 1,2-Dichlorobenzene | 0.001 | " | < | 0.058 | 92 | < | < | < |
| 1,3-Dichlorobenzene | 0.001 | " | < | 0.059 | 94 | < | < | < |
| 1,4-Dichlorobenzene | 0.001 | " | < | 0.059 | 95 | < | < | < |
| Dichlorobromomethane | 0.001 | " | < | 0.060 | 97 | < | < | < |
| 1,1-Dichloroethane | 0.001 | " | < | 0.059 | 95 | < | < | < |
| 1,2-Dichloroethane | 0.001 | " | < | 0.060 | 97 | < | < | < |
| 1,1-Dichloroethene | 0.001 | " | < | 0.061 | 98 | < | < | < |
| cis-1,2-Dichloroethene | 0.001 | " | < | 0.061 | 98 | < | < | < |
| trans-1,2-Dichloroethene | 0.001 | " | < | 0.061 | 98 | < | < | < |
| 1,2-Dichloropropane | 0.001 | " | < | 0.059 | 94 | < | < | < |
| cis-1,3-Dichloropropene | 0.001 | " | < | 0.058 | 93 | < | < | < |
| trans-1,3-Dichloropropene | 0.001 | " | < | 0.055 | 89 | < | < | < |
| Ethylbenzene | 0.001 | " | < | 0.063 | 100 | < | < | < |
| 2-Hexanone | 0.005 | " | < | 0.061 | 97 | < | < | < |
| Dichloromethane | 0.020 | " | < | 0.058 | 93 | < | < | < |
| 4-Methyl-2-Pentanone | 0.005 | " | < | 0.061 | 97 | < | < | < |
| Methyl-t-butylether | 0.001 | " | < | NS | - | < | < | < |
| Styrene | 0.001 | " | < | 0.065 | 100 | < | < | < |
| 1,1,2,2-Tetrachloroethane | 0.001 | " | < | 0.054 | 87 | < | < | < |
| Tetrachloroethene | 0.001 | " | < | 0.063 | 100 | < | < | < |
| Toluene | 0.001 | " | < | 0.059 | 95 | 0.002 | 0.003 | 0.004 |
| 1,1,1-Trichloroethane | 0.001 | " | < | 0.063 | 100 | < | < | < |
| 1,1,2-Trichloroethane | 0.001 | " | < | 0.058 | 93 | < | < | < |
| Trichloroethene | 0.001 | " | < | 0.061 | 98 | < | < | < |
| Trichlorofluoromethane | 0.001 | " | < | 0.060 | 95 | < | < | < |
| Vinyl Acetate | 0.005 | " | < | NS | - | < | < | < |
| Vinyl Chloride | 0.001 | " | < | 0.060 | 96 | < | < | < |
| m&p-Xylene | 0.001 | " | < | 0.13 | 100 | 0.003 | 0.003 | 0.004 |
| o-Xylene | 0.001 | " | < | 0.061 | 97 | 0.002 | 0.002 | 0.002 |
| Surrogate Recoveries | | % | | | | | | |
| d4-1,2-Dichloroethane | | | 80 | 87 | 87 | 79 | 77 | 83 |
| d8-Toluene | | | 88 | 94 | 94 | 96 | 95 | 84 |
| Bromofluorobenzene | | | 94 | 102 | 102 | 72 | 72 | 94 |
| d10-Ethylbenzene | | | 98 | 104 | 104 | 59 | 65 | 40 |

PASC - Certificate of Analysis

| Component | Client ID: | Method | Blank | Blank | Blank | Blank | |
|------------------------|------------|-----------|-----------|--------------|-----------|--------------|----|
| | Lab No.: | Blank | Spike #1 | Spike #1 | Spike #2 | Spike #2 | |
| Date Sampled: | | 050641 04 | 050641 04 | 050641 04 | 050641 04 | 050641 04 | |
| MDL | Units | | | % Recoveries | | % Recoveries | |
| Naphthalene | 0.09 | mg/kg | <0.18 | 3.4 | 85 | 3.6 | 90 |
| Acenaphthene | 0.07 | " | <0.14 | 3.4 | 84 | 3.6 | 89 |
| Fluorene | 0.04 | " | <0.08 | 3.4 | 84 | 3.5 | 89 |
| Phenanthrene | 0.03 | " | <0.06 | 3.6 | 89 | 3.7 | 92 |
| Anthracene | 0.06 | " | <0.12 | 3.5 | 86 | 3.5 | 88 |
| Fluoranthene | 0.06 | " | <0.12 | 3.6 | 89 | 3.7 | 92 |
| Pyrene | 0.04 | " | <0.08 | 3.8 | 96 | 4.0 | 99 |
| Benz(a)anthracene | 0.05 | " | <0.10 | 3.5 | 87 | 3.6 | 91 |
| Chrysene | 0.04 | " | <0.08 | 3.7 | 93 | 3.8 | 94 |
| Benzo(b)fluoranthene | 0.04 | " | <0.08 | 3.5 | 88 | 3.5 | 89 |
| Benzo(k)fluoranthene | 0.04 | " | <0.08 | 3.8 | 95 | 3.9 | 98 |
| Benzo(a)pyrene | 0.05 | " | <0.10 | 3.4 | 86 | 3.5 | 88 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.12 | 3.2 | 80 | 3.3 | 83 |
| Dibenzo(ab)anthracene | 0.05 | " | <0.10 | 3.1 | 77 | 3.3 | 82 |
| Benzo(ghi)perylene | 0.06 | " | <0.12 | 3.2 | 80 | 2.6 | 65 |
| Surrogate Recoveries | | % | | | | | |
| d5-Nitrobenzene | | | 79 | 79 | 79 | 83 | 83 |
| 2-Fluorobiphenyl | | | 86 | 84 | 84 | 87 | 87 |
| d14-p-Terphenyl | | | 87 | 90 | 90 | 92 | 92 |

PASC - Certificate of Analysis

| Component | Client ID: | | NAPL Area#3 |
|------------------------|------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | MDL | Units | SE-Comp | SE-Comp | SE-Comp | SE-Comp | SE-Comp | SE-Bottom |
| | | | 050642 04 | 050642 04 | 050642 04 | 050642 04 | 050642 04 | 050643 04 |
| | | | 09-Aug-2004 | 09-Aug-2004 | 09-Aug-2004 | 09-Aug-2004 | 09-Aug-2004 | 09-Aug-2004 |
| | | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Naphthalene | 0.09 | mg/kg | 0.53 | 3.9 | 76 | 3.5 | 64 | 2.2 |
| Acenaphthene | 0.07 | " | 0.27 | 4.2 | 89 | 3.8 | 76 | 0.14 |
| Fluorene | 0.04 | " | 0.28 | 4.3 | 93 | 3.9 | 78 | 0.22 |
| Phenanthrene | 0.03 | " | 3.1 | 7.9 | 110 | 6.4 | 72 | 0.17 |
| Anthracene | 0.06 | " | 0.84 | 4.8 | 91 | 4.2 | 73 | < |
| Fluoranthene | 0.06 | " | 5.7 | 11 | 120 | 8.6 | 63 | 0.15 |
| Pyrene | 0.04 | " | 5.1 | 11 | 120 | 8.7 | 75 | 0.15 |
| Benz(a)anthracene | 0.05 | " | 3.3 | 8.2 | 110 | 7.0 | 80 | 0.08 |
| Chrysene | 0.04 | " | 3.5 | 7.9 | 100 | 7.0 | 75 | 0.10 |
| Benzo(h)fluoranthene | 0.04 | " | 3.6 | 9.1 | 130 | 8.0 | 96 | 0.09 |
| Benzo(k)fluoranthene | 0.04 | " | 3.1 | 6.3 | 73 | 6.2 | 67 | 0.09 |
| Benzo(a)pyrene | 0.05 | " | 3.4 | 7.7 | 98 | 6.9 | 76 | 0.10 |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | 2.8 | 7.7 | 110 | 7.1 | 94 | 0.08 |
| Dibenzo(ah)anthracene | 0.05 | " | 0.46 | 5.9 | 120 | 5.6 | 110 | < |
| Benzo(ghi)perylene | 0.06 | " | 2.0 | 5.1 | 71 | 6.7 | 100 | 0.16 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Nitrobenzene | | | 61 | 67 | 67 | 61 | 61 | 55 |
| 2-Fluorobiphenyl | | | 71 | 79 | 79 | 74 | 74 | 66 |
| d14-p-Terphenyl | | | 83 | 89 | 89 | 81 | 81 | 78 |

Batch Code: 0813MC03
STARS - VOC 050641 04
050642 04
050643 04
Date Analysed: 04/08/13
Date Prepared: 04/08/13

Batch Code: 0816SPA2
STARS - SVOC 050641 04
050642 04
050643 04
Date Analysed: 04/08/17
Date Prepared: 04/08/16

APPENDIX G

NAPL AREAS ADDITIONAL PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS AND DISPOSAL FACILITY APPROVAL



Client: **NWEC&C, Inc.**

Client Job Site: Union Ship Canal

Client Job No.: N/A

Lab Project No.: 04-0577

Sample Type: Solid
Method: SW846 9045C

Date(s) Sampled: 02/27/2004

Date Received: 03/02/2004

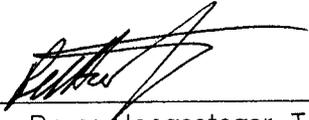
Date Analyzed: 03/02/2004

Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|----------------------|-------------------|
| 2519 | N/A | Additional NAPL Area | 9.72 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: NWEC&C, Inc.

Lab Project No.: 04-0577

Client Job Site: Union Ship Canal

Sample Type: Solid
Method: SW846 1010

Client Job No.: N/A

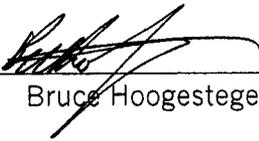
Date(s) Sampled: 02/27/2004
Date Received: 03/02/2004
Date Analyzed: 03/09/2004

Laboratory Report for Flashpoint Analysis

| Lab Sample No. | Field ID No. | Field Location | Flashpoint Results (°C) |
|----------------|--------------|----------------------|-------------------------|
| 2519 | N/A | Additional NAPL Area | >70 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

LABORATORY REPORT OF ANALYSIS

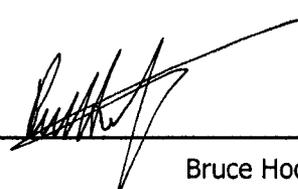
| | | |
|-------------------------|--------------------------------|----------------------------------|
| Client: | <u>NWEC&C, Inc.</u> | Lab Project No.: 04-0577 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: 2519 |
| Client Job No.: | N/A | Sample Type: Soil |
| Field Location: | Additional NAPL Area | Date Sampled: 02/29/2004 |
| | | Date Received: 03/02/2004 |

| Parameter | Date Analyzed | Analytical Method | Result (mg/kg) |
|--------------------|---------------|-------------------|-------------------|
| Cyanide Reactivity | 03/04/2004 | SW846, 7.3 | ND<1 Non Reactive |
| Sulfide Reactivity | 03/10/2004 | SW846, 7.3 | 20 Non Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
Hazardous Waste Regulatory Levels for Reactivity are as follows:
Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director: _____



Bruce Hoogesteger

PCB Analysis Report for Soils/Solids/Sludges

Client: NWEC&C, Inc

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0577 |
| | | Lab Sample Number: | 2519 |
| Client Job Number: | N/A | Date Sampled: | 02/27/2004 |
| Field Location: | Additional NAPL Area | Date Received: | 03/02/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/11/2004 |
| Sample Type: | Soil | | |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.668 |
| Aroclor 1221 | ND< 0.668 |
| Aroclor 1232 | ND< 0.668 |
| Aroclor 1242 | ND< 0.668 |
| Aroclor 1248 | ND< 0.668 |
| Aroclor 1254 | ND< 0.668 |
| Aroclor 1260 | ND< 0.668 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature:


Bruce Hoogesteger, Technical Director



| | | | |
|-------------------------|-------------------------|-------------------------|--------------|
| Client: | NWEC&C, Inc. | Lab Project No.: | 04-0577 |
| Client Job Site: | Union Ship Canal | Lab Sample No.: | 2519 |
| Client Job No.: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Additional NAPL Area | Date Sampled: | 02/27/2004 |
| Field ID No.: | N/A | Date Received: | 03/02/2004 |

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 03/04/2004 | EPA 6010 | <0.100 | 5.0 |
| Barium | 03/04/2004 | EPA 6010 | 0.840 | 100.0 |
| Cadmium | 03/04/2004 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 03/04/2004 | EPA 6010 | <0.050 | 5.0 |
| Lead | 03/04/2004 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 03/09/2004 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 03/04/2004 | EPA 6010 | <0.100 | 1.0 |
| Silver | 03/04/2004 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Semi-Volatile Analysis Report for TCLP Extract

Client: NWEC&C, Inc.

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0577 |
| | | Lab Sample Number: | 2519 |
| Client Job Number: | N/A | | |
| Field Location: | Additional NAPL Area | Date Sampled: | 02/27/2004 |
| Field ID Number: | N/A | Date Received: | 03/02/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 03/04/2004 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 3,000 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 2,000 |
| Pyridine | ND< 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2,000 |

ELAP Number 10958

Method: EPA 8270C

Data File: 18326.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Pesticide Analysis Report for TCLP Extracts

Client: **NWEC&C, Inc**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0577 |
| | | Lab Sample Number: | 2519 |
| Client Job Number: | N/A | | |
| Field Location: | Additional NAPL Area | Date Sampled: | 02/27/2004 |
| Field ID Number: | N/A | Date Received: | 03/02/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 03/05/2004 |

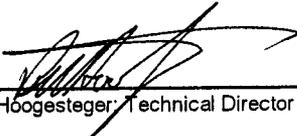
| Pesticide | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| gamma-BHC (Lindane) | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30 |
| Endrin | ND< 1.00 | 20 |
| Heptachlor | ND< 1.00 | 8 |
| Heptachlor Epoxide | ND< 1.00 | 8 |
| Methoxychlor | ND< 1.00 | 10,000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081A

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT FOR HERBICIDE ANALYSIS

Client: NWEC&C, Inc. **Lab Project No:** 04-0577
Client Job Site: Union Ship Canal **Lab Sample No:** 2519
Client Job No: N/A **Sample Type:** TCLP Extract
Field Location: Additional NAPL Area **Date Sampled:** 02/29/2004
Date Received: 03/02/2004
Date Analyzed: 03/10/2004

| Parameter | Result (mg/l) | Regulatory Limit (mg/l) |
|-------------------|---------------|-------------------------|
| 2,4,5-TP (Silvex) | ND<0.2 | 1.0 |
| 2,4-D | ND<2.0 | 10.0 |

Analytical Method: SW1311/8151

ELAP ID: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogesteger

Volatile Analysis Report for TCLP Extract

Client: **NWEC&C, Inc.**

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0577 |
| Client Job Number: | N/A | Lab Sample Number: | 2519 |
| Field Location: | Additional NAPL Area | Date Sampled: | 02/27/2004 |
| Field ID Number: | N/A | Date Received: | 03/02/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 03/10/2004 |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 19652.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

PASC - Certificate of Analysis

| Component | MDL | Units | Additional | Additional | Additional | Additional | Additional | Additional |
|---|-------|-------|----------------|-------------|-------------|-------------|-------------|-------------|
| | | | NAPL Area | NAPL Area | NAPL Area | NAPL Area | NAPL Area | NAPL Area |
| | | | 028387 04 | 028387 04 | 028387 04 | 028387 04 | 028387 04 | 028387 04 |
| | | | 18-May-2004 | 18-May-2004 | 18-May-2004 | 18-May-2004 | 18-May-2004 | 18-May-2004 |
| | | | | Duplicate | M. Spike | MS % Rec. | MS Dup | MSD % Rec. |
| pH after 3.5 ml of 1N HCl addition | | | 4.18 | - | - | - | - | - |
| pH after extraction (semi-vols/metals) | | | 6.35 | - | - | - | - | - |
| pH initial (5g + 96.5ml water) | | | 9.22 | - | - | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | 4.92 | - | - | - | - | - |
| pH after extraction (volatiles) | | | 6.27 | - | - | - | - | - |
| pH of extraction fluid (volatiles) | | | 4.92 | - | - | - | - | - |
| Soil pH measured in water | | | 8.15 | 8.13 | - | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | - | - | - | - | - |
| Sulphide (Reactive) | 20000 | " | 80000 | - | - | - | - | - |
| Flash Point | 0.1 | °C | (2) Pending | - | - | - | - | - |
| Aroclor-1016 | 38 | ug/kg | (1) <130 | - | 360 | 95 | 340 | 84 |
| Aroclor-1221 | 41 | " | <88 | - | < | < | < | < |
| Aroclor-1232 | 38 | " | <88 | - | < | < | < | < |
| Aroclor-1242 | 50 | " | <130 | - | < | < | < | < |
| Aroclor-1248 | 31 | " | <180 | - | < | < | < | < |
| Aroclor-1254 | 59 | " | <260 | - | < | < | < | < |
| Aroclor-1260 | 31 | " | <350 | - | 490 | 130 | 470 | 110 |
| Aroclor-1262 | 31 | " | <350 | - | < | < | < | < |
| Aroclor-1268 | 49 | " | <180 | - | < | < | < | < |
| Total PCB | 59 | " | <350 | - | 850 | 110 | 810 | 100 |
| Surrogate Recoveries | | % | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 78 | - | 99 | 99 | 86 | 86 |
| Decachlorobiphenyl | | | 75 | - | 97 | 97 | 79 | 79 |

| Component | MDL | Units | Additional | Method | Blank | % | Blank Spike | % |
|--------------------------------|-------|-------|---------------------------|-----------|-----------|-----------|-------------|-----------|
| | | | NAPL utnv | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 028388 04 | 028386 04 | 028386 04 | 028386 04 | 028386 04 | 028386 04 |
| | | | Date Sampled: 27-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Mercury | 0.50 | ug/L | < | < | 11 | 110 | - | - |
| Arsenic | 0.250 | mg/L | < | < | 1.3 | 100 | - | - |
| Barium | 0.100 | " | 0.35 | < | 2.5 | 100 | - | - |
| Cadmium | 0.050 | " | < | < | 1.2 | 96 | - | - |
| Chromium | 0.500 | " | < | < | 2.4 | 97 | - | - |
| Lead | 0.500 | " | < | < | 2.4 | 97 | - | - |
| Selenium | 0.100 | " | < | < | 1.3 | 110 | - | - |
| Silver | 0.500 | " | < | < | 1.3 | 100 | - | - |
| | | | | (3)(4) | | | | |
| a-Chlordane | 0.005 | ug/L | <0.026 | < | 0.11 | 92 | 0.12 | 100 |
| g-Chlordane | 0.009 | " | <0.039 | < | 0.12 | 100 | 0.12 | 99 |
| Endrin | 0.011 | " | <0.048 | < | 0.14 | 120 | 0.15 | 130 |
| Heptachlor | 0.005 | " | <0.026 | < | 0.12 | 100 | 0.095 | 79 |
| Heptachlor Epoxide | 0.012 | " | <0.061 | < | 0.13 | 110 | 0.16 | 130 |
| Lindane | 0.007 | " | <0.039 | < | 0.14 | 110 | 0.13 | 110 |
| Methoxychlor | 0.018 | " | <0.14 | < | 0.51 | 110 | 0.64 | 130 |
| Toxaphene | 0.116 | " | <0.18 | < | NS | - | NS | - |
| Surrogate Recoveries | | % | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 94 | 67 | 78 | 78 | 83 | 83 |
| Decachlorobiphenyl | | | 103 | 93 | 92 | 92 | 37 | 37 |
| 2,4-D (via 8150) | 0.39 | ug/L | <1.4 | < | 2.1 | 110 | 2.1 | 100 |
| 2,4,5-TP | 0.04 | " | <0.15 | < | 0.21 | 110 | 0.15 | 76 |
| Surrogate Recoveries | | % | | | | | | |
| 2,3-D | | | 107 | 72 | 76 | 76 | 95 | 95 |

| Component | MDL | Units | Additional | Method | Blank | % |
|------------------------|-----|-------|-------------|-----------|-----------|-----------|
| | | | NAPL utv | Blank | Spike | Recovery |
| | | | 028389 04 | 028386 04 | 028386 04 | 028386 04 |
| | | | 27-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 |
| Benzene | 0.5 | ug/L | <100 | <100 | 9800 | 98 |
| 2-Butanone | 5.0 | " | <1000 | <1000 | 9900 | 99 |
| Carbon Tetrachloride | 0.7 | " | <140 | <140 | 11000 | 110 |
| Chlorobenzene | 0.6 | " | <120 | <120 | 9900 | 99 |
| Chloroform | 0.3 | " | <60 | <60 | 11000 | 110 |
| 1,2-Dichloroethane | 0.3 | " | <60 | <60 | 11000 | 110 |
| 1,1-Dichloroethene | 0.7 | " | <140 | <140 | 9600 | 96 |
| Tetrachloroethene | 0.5 | " | <100 | <100 | 10000 | 100 |
| Trichloroethene | 0.3 | " | <60 | <60 | 9800 | 98 |
| Vinyl Chloride | 0.9 | " | <180 | <180 | 13000 | 130 |
| 1,4-Dichlorobenzene | 1.6 | " | <320 | <320 | 9800 | 98 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 106 | 104 | 105 | 105 |
| d8-Toluene | | | 100 | 102 | 101 | 101 |
| 1,4-Bromofluorobenzene | | | 102 | 103 | 105 | 105 |

| Component | MDL | Units | Additional NAPL utnv | Method Blank | Blank Spike | % Recovery | Blank Spike Duplicate | % Recovery |
|-----------------------|-----|-------|-------------------------|-----------------|----------------|---------------|--------------------------|---------------|
| | | | 028388 04 | 028386 04 | 028386 04 | 028386 04 | 028386 04 | 028386 04 |
| | | | 27-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Pyridine | 5.0 | ug/L | < | < | NS | - | NS | - |
| o-Cresol | 1.7 | " | < | < | 19 | 75 | 19 | 74 |
| m&p-Cresol | 3.5 | " | < | < | 19 | 74 | 18 | 72 |
| 1,4-Dichlorobenzene | 2.0 | " | < | < | 7.9 | 32 | 9.0 | 36 |
| 2,4-Dinitrotoluene | 0.5 | " | < | < | 23 | 93 | 24 | 97 |
| Nitrobenzene | 2.0 | " | < | < | 21 | 84 | 22 | 88 |
| Pentachlorophenol | 1.1 | " | < | < | 22 | 87 | 22 | 86 |
| 2,4,5-Trichlorophenol | 0.6 | " | < | < | 21 | 83 | 22 | 87 |
| 2,4,6-Trichlorophenol | 1.2 | " | < | < | 22 | 87 | 22 | 89 |
| Hexachloroethane | 2.0 | " | < | < | 3.9 | 16 | 4.8 | 19 |
| Hexachlorobutadiene | 2.0 | " | < | < | 3.3 | 13 | 4.0 | 16 |
| Hexachlorobenzene | 2.0 | " | < | < | 23 | 90 | 23 | 91 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Phenol | | | 33 | 34 | 32 | 32 | 32 | 32 |
| d5-Nitrobenzene | | | 90 | 90 | 83 | 83 | 84 | 84 |
| 2-Fluorobiphenyl | | | 75 | 72 | 64 | 64 | 61 | 61 |
| 2,4,6-Tribromophenol | | | 85 | 83 | 80 | 80 | 85 | 85 |
| d-14-p-Terphenyl | | | 92 | 99 | 85 | 85 | 88 | 88 |

Batch Code: 0526RGA1
pH after 3.5 ml of 1N HCl addition 028387 04
Date Analysed: 04/05/27
Date Prepared: 04/05/26

Batch Code: 0526RGV1
pH after extraction (volatiles) 028387 04
Date Analysed: 04/05/27
Date Prepared: 04/05/26

Batch Code: 0525VPH1
Soil pH measured in water 028387 04
Date Analysed: 04/05/27
Date Prepared: 04/05/25

Batch Code: 0521FSA1
Cyanide (Reactive) 028385 04
028387 04
Date Analysed: 04/05/25
Date Prepared: 04/05/21

Batch Code: 0521BAA1
Sulphide (Reactive) 028385 04
028387 04
Date Analysed: 04/05/21
Date Prepared: 04/05/21

Batch Code:
Date Analysed:
Date Prepared:

Batch Code: 0526NDU1
Aroclor-1016 028385 04
028387 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26

Batch Code: 0527MBL1
Mercury 028386 04
028388 04
Date Analysed: 04/05/27
Date Prepared: 04/05/27

Batch Code: 0527STL1
Arsenic 028386 04
028388 04
Date Analysed: 04/05/27
Date Prepared: 04/05/27

Batch Code: 0531NDS1
a-Chlordane 028386 04
028388 04
Date Analysed: 04/06/01
Date Prepared: 04/05/31

Batch Code: 0531NDS1
2,4-D (via 8150) 028386 04
028388 04
Date Analysed: 04/06/01
Date Prepared: 04/05/31

Batch Code: 0531DJ01
Benzene 028386 04
028389 04
Date Analysed: 04/05/31
Date Prepared: 04/05/31

Batch Code: 0528NCS1
Pyridine 028386 04
028388 04
Date Analysed: 04/05/31
Date Prepared: 04/05/28

Batch Code: 0528NCS1
Hexachloroethane 028386 04
028388 04
Date Analysed: 04/05/31
Date Prepared: 04/05/28

CHAIN OF CUSTODY



ANALYTICAL SERVICES
5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
Tel: (905) 332-8788
Fax: (905) 332-9169

CLIENT INFORMATION

Company Name: NWEC+C
Project Manager: Russ Sarge
Address: 3553 Crittenden Rd.
Crittenden, NY 14038
Phone #: (716) 937-6527 Fax #: 937-9360
Sampled by: Tom: [Signature]

MBS - 028385
MBS - 028386

Philip Use Only

028387-89

| Field Sample ID | # Bottles | Matrix | Date | Time |
|---------------------------|-----------|--------|---------|------|
| Additional NAPL Area Soil | 1 | Soil | 5/19/04 | |

| ANALYSIS REQUESTED | | | | | Level of contamination (low, high, unknown) |
|--------------------------|---------------------------|------------------|------------|--------------|---|
| Full TCLP Series & Herbs | Ignitability / Flashpoint | Corrosivity (pH) | Reactivity | 8082 PCB m/c | |
| X | X | X | X | X | 25000 |

TAT (Turnaround Time)

RUSH TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact Lab

- STD 10 Business Days
- RUSH 5 Business Days
- RUSH 2 Business Days
- RUSH 1 Business Days
- Other Business Days

PROJECT INFORMATION

Project #: _____
Site: Union Ship Canal
PO#: _____
Philip Quote #: _____
Philip Project #: _____
Philip Contact: _____

SPECIAL DETECTION LIMITS

MISA

SPECIAL REQUIREMENTS / REGULATIONS

REMARKS

Rec'd By: _____
Date/Time: _____

Client Signature: Michael Greg Weber
Affiliation: _____
Date/Time: _____

Received By: [Signature]
Affiliation: PSC
Date/Time: 5-19-4 8:20

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 29-May-2004
Date Reported: 12-Jul-2004

Submission No.: 4E1225
Sample No.: 030880-030883

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for biota analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

(1) Surrogate Recovery Outside Acceptable Limits

Certified by: _____



Page 1 of 8

| Component | MDL | Units | Method Blank | Blank Spike | % Recovery | Blank Spike Dup. | % Recovery | NAPL Area | NAPL Area |
|--------------------------------|-------|-------|--------------|-------------|------------|------------------|------------|-------------|-------------|
| | | | TCLP | TCLP | TCLP | TCLP | TCLP | TCLP | S. #2 TCLP |
| | | | 030880 04 | 030880 04 | 030880 04 | 030880 04 | 030880 04 | 030882 04 | 030882 04 |
| | | | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01-Jun-2004 | 01-Jun-2004 |
| | | | | | | | | | Duplicate |
| Mercury | 0.50 | ug/L | < | - | - | - | - | < | - |
| Arsenic | 0.250 | mg/L | < | 1.3 | 100 | - | - | < | < |
| Barium | 0.100 | " | < | 2.6 | 100 | - | - | 0.37 | 0.37 |
| Cadmium | 0.050 | " | < | 1.3 | 100 | - | - | < | < |
| Chromium | 0.500 | " | < | 2.6 | 100 | - | - | < | < |
| Lead | 0.500 | " | < | 2.6 | 100 | - | - | < | < |
| Selenium | 0.100 | " | < | 1.3 | 100 | - | - | < | < |
| Silver | 0.500 | " | < | 1.3 | 100 | - | - | < | < |
| a-Chlordane | 0.005 | ug/L | < | 0.13 | 110 | 0.13 | 110 | <0.025 | - |
| g-Chlordane | 0.009 | " | < | 0.12 | 100 | 0.13 | 110 | <0.038 | - |
| Endrin | 0.011 | " | < | 0.12 | 100 | 0.14 | 120 | <0.046 | - |
| Heptachlor | 0.005 | " | < | 0.10 | 85 | 0.11 | 93 | <0.025 | - |
| Heptachlor Epoxide | 0.012 | " | < | 0.13 | 110 | 0.12 | 97 | <0.058 | - |
| Lindane | 0.007 | " | < | 0.13 | 110 | 0.14 | 110 | <0.038 | - |
| Methoxychlor | 0.018 | " | < | 0.44 | 92 | 0.53 | 110 | <0.14 | - |
| Toxaphene | 0.116 | " | < | NS | - | NS | - | <0.17 | - |
| Surrogate Recoveries | | % | | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 79 | 50 | 50 | 47 | 47 | 69 | - |
| Decachlorobiphenyl | | | 90 | 84 | 84 | 89 | 89 | 100 | - |
| | | | (1) | | | | | | |
| 2,4-D (via 8150) | 0.39 | ug/L | < | 2.7 | 96 | 2.8 | 100 | <2.7 | - |
| 2,4,5-TP | 0.04 | " | < | 0.23 | 97 | 0.24 | 100 | <0.28 | - |
| Surrogate Recoveries | | % | | | | | | | |
| 2,3-D | | | 44 | 77 | 77 | 89 | 89 | 93 | - |

| Component | MDL | Units | NAPL Area | NAPL Area |
|--------------------------------|-------|-------|-------------|-------------|
| | | | S. #2 TCLP | S. #2 TCLP |
| | | | 030882 04 | 030882 04 |
| | | | 01-Jun-2004 | 01-Jun-2004 |
| | | | M. Spike | MS % Rec. |
| Mercury | 0.50 | ug/L | - | - |
| Arsenic | 0.250 | mg/L | 1.2 | 99 |
| Barium | 0.100 | " | 2.9 | 99 |
| Cadmium | 0.050 | " | 1.2 | 96 |
| Chromium | 0.500 | " | 2.4 | 95 |
| Lead | 0.500 | " | 2.4 | 95 |
| Selenium | 0.100 | " | 1.3 | 100 |
| Silver | 0.500 | " | 1.2 | 99 |
| a-Chlordane | 0.005 | ug/L | - | - |
| g-Chlordane | 0.009 | " | - | - |
| Endrin | 0.011 | " | - | - |
| Heptachlor | 0.005 | " | - | - |
| Heptachlor Epoxide | 0.012 | " | - | - |
| Lindane | 0.007 | " | - | - |
| Methoxychlor | 0.018 | " | - | - |
| Toxaphene | 0.116 | " | - | - |
| Surrogate Recoveries | | % | | |
| 4,4'-Dibromooctafluorobiphenyl | | | - | - |
| Decachlorobiphenyl | | | - | - |
| 2,4-D (via 8150) | 0.39 | ug/L | - | - |
| 2,4,5-TP | 0.04 | " | - | - |
| Surrogate Recoveries | | % | | |
| 2,3-D | | | - | - |

| Component | MDL | Units | NAPL Area | | Method Blank | Blank Spike | % Recovery | Blank Spike Dup. | % Recovery |
|------------------------|-----|-------|-------------|-------------|--------------|-------------|------------|------------------|------------|
| | | | S. #2 TCLP | S. #2 TCLP | TCLP | TCLP | TCLP | TCLP | TCLP |
| | | | 030882 04 | 030883 04 | 030880 04 | 030880 04 | 030880 04 | 030880 04 | 030880 04 |
| | | | 01-Jun-2004 | 01-Jun-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Benzene | 0.5 | ug/L | - | <100 | <100 | 9900 | 99 | - | - |
| 2-Butanone | 5.0 | " | - | <1000 | <1000 | 10000 | 100 | - | - |
| Carbon Tetrachloride | 0.7 | " | - | <140 | <140 | 11000 | 110 | - | - |
| Chlorobenzene | 0.6 | " | - | <120 | <120 | 9900 | 99 | - | - |
| Chloroform | 0.3 | " | - | <60 | <60 | 11000 | 110 | - | - |
| 1,2-Dichloroethane | 0.3 | " | - | <60 | <60 | 11000 | 110 | - | - |
| 1,1-Dichloroethene | 0.7 | " | - | <140 | <140 | 9700 | 97 | - | - |
| Tetrachloroethene | 0.5 | " | - | <100 | <100 | 10000 | 100 | - | - |
| Trichloroethene | 0.3 | " | - | <60 | <60 | 10000 | 100 | - | - |
| Vinyl Chloride | 0.9 | " | - | <180 | <180 | 14000 | 140 | - | - |
| 1,4-Dichlorobenzene | 1.6 | " | - | <320 | <320 | 9800 | 98 | - | - |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | - | 110 | 105 | 103 | 103 | - | - |
| d8-Toluene | | | - | 99 | 100 | 101 | 101 | - | - |
| 1,4-Bromofluorobenzene | | | - | 102 | 101 | 109 | 109 | - | - |
| Pyridine | 5.0 | ug/L | < | - | < | NS | - | NS | - |
| o-Cresol | 1.7 | " | < | - | < | 11 | 43 | 14 | 55 |
| m&p-Cresol | 3.5 | " | < | - | < | 9.2 | 37 | 12 | 48 |
| 1,4-Dichlorobenzene | 2.0 | " | < | - | < | 11 | 44 | 12 | 46 |
| 2,4-Dinitrotoluene | 0.5 | " | < | - | < | 23 | 93 | 23 | 92 |
| Nitrobenzene | 2.0 | " | < | - | < | 19 | 76 | 22 | 89 |
| Pentachlorophenol | 1.1 | " | < | - | < | 28 | 110 | 29 | 120 |
| 2,4,5-Trichlorophenol | 0.6 | " | < | - | < | 20 | 78 | 21 | 82 |
| 2,4,6-Trichlorophenol | 1.2 | " | < | - | < | 21 | 82 | 22 | 86 |
| Hexachloroethane | 2.0 | " | < | - | < | 7.1 | 28 | 7.8 | 31 |
| Hexachlorobutadiene | 2.0 | " | < | - | < | 5.5 | 22 | 7.3 | 29 |
| Hexachlorobenzene | 2.0 | " | < | - | < | 24 | 94 | 24 | 95 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Phenol | | | 12 | - | 11 | 15 | 15 | 21 | 21 |
| d5-Nitrobenzene | | | 63 | - | 64 | 75 | 75 | 87 | 87 |
| 2-Fluorobiphenyl | | | 65 | - | 61 | 72 | 72 | 70 | 70 |
| 2,4,6-Tribromophenol | | | 81 | - | 75 | 92 | 92 | 91 | 91 |
| d-14-p-Terphenyl | | | 60 | - | 74 | 94 | 94 | 94 | 94 |

| Component | Client ID: | | NAPL Area | NAPL Area | NAPL Area | NAPL Area | NAPL Area | NAPL Area |
|---|------------|-------|-------------------|-------------|-------------|-------------|-------------|-------------|
| | MDL | Units | S. #2 | S. #2 | S. #2 | S. #2 | S. #2 | S. #2 |
| | | | 030881 04 | 030881 04 | 030881 04 | 030881 04 | 030881 04 | 030881 04 |
| | | | 28-May-2004 | 28-May-2004 | 28-May-2004 | 28-May-2004 | 28-May-2004 | 28-May-2004 |
| | | | | Duplicate | M. Spike | MS % Rec. | MS Dup | MSD % Rec. |
| pH after 3.5 ml of 1N HCl addition | | | 3.22 | - | - | - | - | - |
| pH after extraction (semi-vols/metals) | | | 6.37 | - | - | - | - | - |
| pH initial (5g + 96.5ml water) | | | 9.40 | - | - | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | 4.92 | - | - | - | - | - |
| pH after extraction (volatiles) | | | 6.27 | - | - | - | - | - |
| pH of extraction fluid (volatiles) | | | 4.92 | - | - | - | - | - |
| Soil pH measured in water | | | 8.49 | 8.54 | - | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | <1000 | - | - | - | - |
| Sulphide (Reactive) | 10000 | " | 34 | - | - | - | - | - |
| Flash Point | 0.1 | C | did not flash <90 | - | - | - | - | - |
| | | | (1) | | | | | |
| Aroclor-1016 | 38 | ug/kg | < | - | 200 | 55 | 220 | 56 |
| Aroclor-1221 | 41 | " | < | - | < | < | < | < |
| Aroclor-1232 | 38 | " | < | - | < | < | < | < |
| Aroclor-1242 | 50 | " | < | - | < | < | < | < |
| Aroclor-1248 | 31 | " | < | - | < | < | < | < |
| Aroclor-1254 | 59 | " | 0.080 | - | < | < | < | < |
| Aroclor-1260 | 31 | " | < | - | 290 | 80 | 310 | 81 |
| Aroclor-1262 | 31 | " | < | - | < | < | < | < |
| Aroclor-1268 | 49 | " | < | - | < | < | < | < |
| Total PCB | 59 | " | 0.080 | - | 500 | 67 | 530 | 69 |
| Surrogate Recoveries | | % | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 60 | - | 50 | 50 | 58 | 58 |
| Decachlorobiphenyl | | | 56 | - | 49 | 49 | 56 | 56 |

| Component | MDL | Units | Method | Blank | % |
|---|-------|-------|-------------|-------------|-------------|
| | | | Blank | Spike | Recovery |
| | | | 030879 04 | 030879 04 | 030879 04 |
| | | | 28-May-2004 | 28-May-2004 | 28-May-2004 |
| Client ID: | | | | | |
| Lab No.: | | | | | |
| Date Sampled: | | | | | |
| pH after 3.5 ml of 1N HCl addition | | | - | - | - |
| pH after extraction (semi-vols/metals) | | | - | - | - |
| pH initial (5g + 96.5ml water) | | | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | - | - | - |
| pH after extraction (volatiles) | | | - | - | - |
| pH of extraction fluid (volatiles) | | | - | - | - |
| Soil pH measured in water | | | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | 26000 | 100 |
| Sulphide (Reactive) | 10000 | " | < | < | 80 |
| Flash Point | 0.1 | C | - | - | - |
| Aroclor-1016 | 38 | ug/kg | < | 320 | 80 |
| Aroclor-1221 | 41 | " | < | < | < |
| Aroclor-1232 | 38 | " | < | < | < |
| Aroclor-1242 | 50 | " | < | < | < |
| Aroclor-1248 | 31 | " | < | < | < |
| Aroclor-1254 | 59 | " | < | < | < |
| Aroclor-1260 | 31 | " | < | 340 | 85 |
| Aroclor-1262 | 31 | " | < | < | < |
| Aroclor-1268 | 49 | " | < | < | < |
| Total PCB | 59 | " | < | 660 | 82 |
| Surrogate Recoveries | | % | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 99 | 89 | 89 |
| Decachlorobiphenyl | | | 71 | 65 | 65 |

Batch Code: 0602MBL1
Mercury 030880 04
030882 04
Date Analysed: 04/06/03
Date Prepared: 04/06/02

Batch Code: 0601STL1
Arsenic 030880 04
030882 04
Date Analysed: 04/06/01
Date Prepared: 04/06/01

Batch Code: 0601MGS1
a-Chlordane 030880 04
030882 04
Date Analysed: 04/06/01
Date Prepared: 04/06/01

Batch Code: 0603NDS1
2,4-D (via 8150) 030880 04
030882 04
Date Analysed: 04/06/03
Date Prepared: 04/06/03

Batch Code: 0601DJ01
Benzene 030880 04
030883 04
Date Analysed: 04/06/01
Date Prepared: 04/06/01

Batch Code: 0601NCS1
Pyridine 030880 04
030882 04
Date Analysed: 04/06/03
Date Prepared: 04/06/01

Batch Code: 0601NCS1
Hexachloroethane 030880 04
030882 04
Date Analysed: 04/06/03
Date Prepared: 04/06/01

Batch Code: 0531RGA1
pH after 3.5 ml of 1N HCl addition 030881 04
Date Analysed: 04/06/01
Date Prepared: 04/05/31

Batch Code: 0531RGV1
pH after extraction (volatiles) 030881 04
Date Analysed: 04/06/01
Date Prepared: 04/05/31

Batch Code: 0531VPH1
Soil pH measured in water 030881 04
Date Analysed: 04/06/01
Date Prepared: 04/05/31

Batch Code: 0531FSA1
Cyanide (Reactive) 030879 04
030881 04
Date Analysed: 04/05/31
Date Prepared: 04/05/31

Batch Code: 0531FSA1
Sulphide (Reactive) 030879 04
030881 04
Date Analysed: 04/05/31
Date Prepared: 04/05/31

Batch Code: 0601RGA1
Flash Point 030881 04
Date Analysed: 04/06/01
Date Prepared: 04/06/01

Batch Code: 0603NDU1
Aroclor-1016 030879 04
030881 04
Date Analysed: 04/06/03
Date Prepared: 04/06/03

PHC Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

| | | | |
|--------------------|--------------------------|---------------------|------------|
| Client Job Site: | N/A | Lab Project Number: | 04-1775 |
| Client Job Number: | N/A | Lab Sample Number: | 6192 |
| Field Location: | NAPL Area East Stockpile | Date Sampled: | 06/28/2004 |
| Field ID Number: | N/A | Date Received: | 06/28/2004 |
| Sample Type: | Soil | Date Analyzed: | 06/30/2004 |

| PHC Classification | Results in ug / Kg |
|-----------------------|--------------------|
| Petroleum Hydrocarbon | ND < 8,080 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: 
Bruce Hoogesteger: Technical Director

PHC Analysis Report for Soils/Solids/Sludges

Client: NWEC&C

| | | | |
|---------------------------|--------------------------|----------------------------|------------|
| Client Job Site: | N/A | Lab Project Number: | 04-1775 |
| Client Job Number: | N/A | Lab Sample Number: | 6193 |
| Field Location: | NAPL Area West Stockpile | Date Sampled: | 06/28/2004 |
| Field ID Number: | N/A | Date Received: | 06/28/2004 |
| Sample Type: | Soil | Date Analyzed: | 06/30/2004 |

| PHC Classification | Results in ug / Kg |
|--------------------------------------|--------------------|
| Medium Weight PHC as: Diesel Fuel | 295,000 |
| Heavy Weight PHC as: Lube Oil | 250,000 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: _____


Bruce Hoogesteger, Technical Director

PHC Analysis Report for Soils/Solids/SludgesClient: **NWEC&C**

Client Job Site: N/A

Lab Project Number: 04-1775

Lab Sample Number: 6194

Client Job Number: N/A

Field Location: Additional NAPL Stockpile (E&W)

Date Sampled: 06/28/2004

Field ID Number: N/A

Date Received: 06/28/2004

Sample Type: Soil

Date Analyzed: 06/30/2004

| PHC Classification | Results in ug / Kg |
|--------------------------------------|--------------------|
| Medium Weight PHC as: Diesel Fuel | 17,600 |
| Heavy Weight PHC as: Lube Oil | 16,600 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

PHC = Petroleum Hydrocarbon

Signature: _____


Bruce Hoogesteger, Technical Director

This report is part of a multisection document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

041775P4.XLS

Semi-Volatile STARS Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|---------------------------------|---------------------|------------|
| Client Job Site: | N/A | Lab Project Number: | 04-1775 |
| | | Lab Sample Number: | 6194 |
| Client Job Number: | N/A | | |
| Field Location: | Additional NAPL Stockpile (E&W) | Date Sampled: | 06/28/2004 |
| Field ID Number: | N/A | Date Received: | 06/28/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 07/01/2004 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L* |
|---------------------|-------------------|------------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 300 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 200 |
| Pyridine | ND< 40.0 | 500 |

| Acids | Results in ug / L | Regulatory Limits in ug / L* |
|---------------------------|-------------------|------------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2000 |

ELAP Number 10958

Method: EPA 8270C

Data File: 20082.0

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

04177591.XLS

Pesticide Analysis Report for TCLP Extract

Client: NWEC&C

| | | | |
|---------------------------|---------------------------------|----------------------------|------------|
| Client Job Site: | N/A | Lab Project Number: | 04-1775 |
| Client Job Number: | N/A | Lab Sample Number: | 6194 |
| Field Location: | Additional NAPL Stockpile (E&W) | Date Sampled: | 06/28/2004 |
| Field ID Number: | N/A | Date Received: | 06/28/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 06/30/2004 |

| Pesticide Identification | Results in ug / L | Regulatory Limits in ug / L |
|--------------------------|-------------------|-----------------------------|
| gamma-BHC | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30.0 |
| Endrin | ND< 1.00 | 20.0 |
| Heptachlor | ND< 1.00 | 8.00 |
| Heptachlor Epoxide | ND< 1.00 | 8.00 |
| Methoxychlor | ND< 1.00 | 10000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

041775P1.XLS

Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|---------------------------------|---------------------|------------|
| Client Job Site: | N/A | Lab Project Number: | 04-1775 |
| | | Lab Sample Number: | 6194 |
| Client Job Number: | N/A | | |
| Field Location: | Additional NAPL Stockpile (E&W) | Date Sampled: | 06/28/2004 |
| Field ID Number: | N/A | Date Received: | 06/28/2004 |
| Sample Type: | TCLP Extract | Date Analyzed: | 07/01/2004 |

| Halocarbons | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 22346.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

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041775V1.XLS



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **NWEC&C**

Lab Project No.: 04-1775

Client Job Site: N/A

Sample Type: Soil
Method: SW846 1010

Client Job No.: N/A

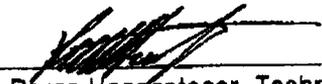
Date(s) Sampled: 06/28/2004
Date Received: 06/28/2004
Date Analyzed: 06/29/2004

Laboratory Report for Flashpoint Analysis

| Lab Sample No. | Field ID No. | Field Location | Flashpoint Results (°C) |
|----------------|--------------|---------------------------------|-------------------------|
| 6194 | N/A | Additional NAPL Stockpile (E&W) | >70 |
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ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

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PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **NWEC&C** **Lab Project No.:** 04-1775
Client Job Site: N/A **Lab Sample No.:** 6194
Client Job No.: N/A **Sample Type:** TCLP Extract
Field Location: Additional NAPL Stockpile (E&W) **Date Sampled:** 06/28/2004
Field ID No.: N/A **Date Received:** 06/28/2004

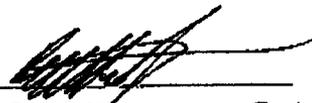
Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 06/30/2004 | EPA 6010 | <0.100 | 5.0 |
| Barium | 06/30/2004 | EPA 6010 | 0.395 | 100.0 |
| Cadmium | 06/30/2004 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 06/30/2004 | EPA 6010 | <0.050 | 5.0 |
| Lead | 06/30/2004 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 06/29/2004 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 06/30/2004 | EPA 6010 | <0.100 | 1.0 |
| Silver | 06/30/2004 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: _____



Bruce Hoogesteger, Technical Director

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| | | | |
|------------------|-------------------|------------------|-------------|
| Client: | NWEC&C | Lab Project No.: | 04-1775 |
| Client Job Site: | N/A | Sample Type: | Soil |
| Client Job No.: | N/A | Method: | SW846 9045C |
| | | Date(s) Sampled: | 06/28/2004 |
| | | Date Received: | 06/28/2004 |
| | | Date Analyzed: | 06/29/2004 |

Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|---------------------------------|-------------------|
| 6194 | N/A | Additional NAPL Stockpile (E&W) | 7.85 |
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ELAP ID No.: 10958

Comments:

 Approved By: 
 Bruce Hoogesteger, Technical Director

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File ID:041775.xls

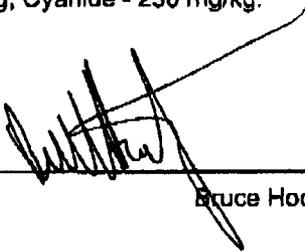
LABORATORY REPORT OF ANALYSIS

Client: **NWEC&C** Lab Project No.: 04-1775
 Client Job Site: N/A Lab Sample No.: 6194
 Client Job No.: N/A Sample Type: Soil
 Field Location: Additional NAPL Stockpile (E&W) Date Sampled: 6/28/2004
 Date Received: 6/28/2004

| Parameter | Date Analyzed | Analytical Method | Result (mg/kg) |
|--------------------|---------------|-------------------|--------------------|
| Cyanide Reactivity | 6/30/2004 | SW846, 7.3 | ND<1 Non Reactive |
| Sulfide Reactivity | 7/1/2004 | SW846, 7.3 | ND<10 Non Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
 Hazardous Waste Regulatory Levels for Reactivity are as follows:
 Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director: 
 Bruce Hoogesteger

PARADIGM

Environmental

Services, Inc.

179 Lake Avenue Rochester, New York 14608 585-647-2530 FAX 585-647-3311

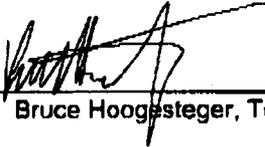
TCLP Herbicides

Client: **NWEC&C** Lab Project No: 04-1775
Client Job Site: N/A Lab Sample No: 6192
Sample Type: TCLP Extract
Client Job No: N/A Date Sampled: 06/28/2004
Field Location: NAPL Area East Stockpile Date Received: 06/28/2004
Field ID No: N/A Date Analyzed: 07/01/2004

| Parameter | Result UG/L | Reporting Limit UG/L | Regulatory Limit UG/L |
|-------------------|----------------|----------------------------|-----------------------------|
| 2,4-D | ND | 2000 | 10,000 |
| 2,4,5-TP (Silvex) | ND | 200 | 1,000 |

Analytical Method: EPA 8151 ELAP ID. No.: 10709

Comments: ND denotes Non Detected.

Approved By: 
Bruce Hoogsteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | | |
|--|--|---|--|--|
| COMPANY: NWEC+C ADDRESS: 3553 Crittenden Rd. CITY: Crittenden, New York STATE: ZIP: | | COMPANY: Same ADDRESS: CITY: STATE: ZIP: | | LAB PROJECT #: 04-1775 CLIENT PROJECT #: |
| PHONE: (716) 937-6527 FAX: 937-9360 | | PHONE: FAX: | | TURNAROUND TIME: (WORKING DAYS) Need Results 7/1 PM STD OTHER |
| PROJECT NAME/SITE NAME: ATTN: | | ATTN: | | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 |
| COMMENTS: | | | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | TPH | Full TCLP | Ignitability | Corrosivity | Reactivity | REMARKS | PARADIGM LAB SAMPLE NUMBER | | | |
|----------|------|-----------|------|---------------------------------|--------|-------------|-----|-----------|--------------|-------------|------------|---------|----------------------------|------|--|--|
| 16/29/04 | | | | NAPL Area East Stockpile | Soil | 1 | X | | | | | | | 6192 | | |
| 26/28/04 | | | | NAPL Area West Stockpile | Soil | 1 | X | | | | | | | 6193 | | |
| 3 | | | | | | | | | | | | | | 6194 | | |
| 46/28/04 | | | | Additional NAPL Stockpile (E+W) | Soil | 3 | X | X | X | X | X | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 10°

| | | | | |
|---|---------------------------------|--|--------------------------------|-------------|
| Sampled By: James Davey <i>James A. Davey Jr.</i> | Date/Time: 6/28/04 9:00 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Received By: Joh Hoff | Date/Time: 6/28/04 11:30 | Received @ Lab By: Kelly Crandall | Date/Time: 6/28/04 1605 | P.I.F.: |



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14606 (585) 647-2530 FAX (585) 647-3311

Client: **NWEC&C**

Client Job Site: Destro
Union Ship Canal

Client Job No.: N/A

Lab Project No.: 04-1985

Sample Type: Soil
Method: SWB46 9045C

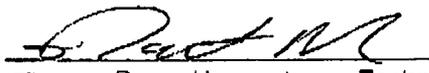
Date(s) Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/21/2004

Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|----------------------------|-------------------|
| 6848 | N/A | Additional NAPL Area North | 8.59 |
| 6849 | N/A | Additional NAPL Area South | 8.67 |
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ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger
 Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:041985.xls

Flashpoint by Pensky-Martin Analysis Report

Client: **NWEC&C, Inc.**

| | | | |
|--------------------|-------------------------|---------------------|------------|
| Client Job Site: | Destro-Union Ship Canal | Lab Project Number: | 04-1985 |
| Client Job Number: | N/A | Date Sampled: | 07/16/2004 |
| | | Date Received: | 07/16/2004 |
| Sample Type: | Soil | Date Analyzed: | 07/21/2004 |

| Lab Sample Number | Field Number | Field Location | Result (°C) |
|-------------------|--------------|----------------------------|-------------|
| 6848 | N/A | Additional NAPL Area North | >70 |
| 6849 | N/A | Additional NAPL Area South | >70 |

ELAP Number 10858

Method: SW846 1010

Comments: °C = degrees Centigrade

Signature:


Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

9 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

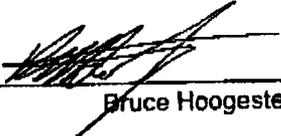
Client: NWEC&C
Client Job Site: Destro-Union Ship Canal
Client Job No.: N/A

Lab Project No.: 04-1985
Sample Type: Soil
Analytical Method: SW846, 7.3.3
Date Sampled: 7/16/2004
Date Received: 7/16/2004
Date Analyzed: 7/22/2004

| Lab Sample ID. | Client Sample ID. | Cyanide Reactivity (mg/kg) | Sulfide Reactivity (mg/kg) |
|----------------|----------------------------|----------------------------|----------------------------|
| 6848 | Additional NAPL Area North | ND<1 Non-Reactive | ND<10 Non-Reactive |
| 6849 | Additional NAPL Area South | ND<1 Non-Reactive | ND<10 Non-Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
Hazardous Waste Regulatory Levels for Reactivity are as follows:
Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director: 
Bruce Hoogesteger

Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|----------------------------|---------------------|------------|
| Client Job Site: | Destro - Union Ship Canal | Lab Project Number: | 04-1985 |
| | | Lab Sample Number: | 8848 |
| Client Job Number: | N/A | Date Sampled: | 07/16/2004 |
| Field Location: | Additional NAPL Area North | Date Received: | 07/16/2004 |
| Field ID Number: | N/A | Date Analyzed: | 07/20/2004 |
| Sample Type: | TCLP Extract | | |

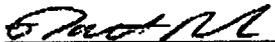
| Compounds | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 22787.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
For: Bruce Hoogesteger: Technical Director

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ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for TCLP Extract

Client: **NWEC&C**

| | | | |
|--------------------|----------------------------|---------------------|------------|
| Client Job Site: | Destro - Union Ship Canal | Lab Project Number: | 04-1985 |
| | | Lab Sample Number: | 6849 |
| Client Job Number: | N/A | Date Sampled: | 07/16/2004 |
| Field Location: | Additional NAPL Area South | Date Received: | 07/16/2004 |
| Field ID Number: | N/A | Date Analyzed: | 07/20/2004 |
| Sample Type: | TCLP Extract | | |

| Compounds | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 22788.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 

For: Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

041985V2.XLS

Semi-Volatile STARS Analysis Report for TCLP Extract

Client: **NWEC&C**

Client Job Site: Destro
 Union Ship Canal
 Client Job Number: N/A
 Field Location: Additional NAPL Area North
 Field ID Number: N/A
 Sample Type: TCLP Extract

Lab Project Number: 04-1985
 Lab Sample Number: 6848
 Date Sampled: 07/16/2004
 Date Received: 07/16/2004
 Date Analyzed: 07/23/2004

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 300 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 200 |
| Pyridine | ND< 40.0 | 500 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2000 |

ELAP Number 10958

Method: EPA 8270C

Data File: 20539.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

Semi-Volatile STARS Analysis Report for TCLP Extract

Client: **NWEC&C**

Client Job Site: Destro
Union Ship Canal
Client Job Number: N/A
Field Location: Additional NAPL Area South
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 04-1985
Lab Sample Number: 6849
Date Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/23/2004

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 300 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 200 |
| Pyridine | ND< 40.0 | 500 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2000 |

ELAP Number 10958

Method: EPA 8270C

Data File: 20540.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. 041985S2.XLS

Client: **NWEC&C** Lab Project No.: 04-1985
 Client Job Site: Destro Lab Sample No.: 6848
 Client Job No.: Union Ship Canal Sample Type: TCLP Extract
 Field Location: Additional NAPL Area North Date Sampled: 07/16/2004
 Field ID No.: N/A Date Received: 07/16/2004

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 07/21/2004 | EPA 6010 | <0.100 | 5.0 |
| Barium | 07/21/2004 | EPA 6010 | 0.442 | 100.0 |
| Cadmium | 07/21/2004 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 07/21/2004 | EPA 6010 | <0.050 | 5.0 |
| Lead | 07/21/2004 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 07/21/2004 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 07/21/2004 | EPA 6010 | <0.100 | 1.0 |
| Silver | 07/21/2004 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
 For: Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **NWEC&C** Lab Project No.: 04-1985
 Client Job Site: Destro Lab Sample No.: 6849
 Client Job No.: Union Ship Canal Sample Type: TCLP Extract
 N/A
 Field Location: Additional NAPL Area South Date Sampled: 07/16/2004
 Field ID No.: N/A Date Received: 07/16/2004

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 07/21/2004 | EPA 6010 | <0.100 | 5.0 |
| Barium | 07/21/2004 | EPA 6010 | 0.458 | 100.0 |
| Cadmium | 07/21/2004 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 07/21/2004 | EPA 6010 | <0.050 | 5.0 |
| Lead | 07/21/2004 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 07/21/2004 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 07/21/2004 | EPA 6010 | <0.100 | 1.0 |
| Silver | 07/21/2004 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By:
 For: Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt. File ID:041985.xls



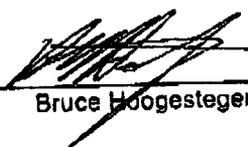
LABORATORY REPORT FOR HERBICIDE ANALYSIS

| | | | |
|-------------------------|--------------------------------|------------------------|--------------|
| Client: | <u>NWEC&C, Inc.</u> | Lab Project No: | 04-1985 |
| Client Job Site: | Destro-Union Ship Canal | Lab Sample No: | 6848 |
| Client Job No: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Additional NAPL Area North | Date Sampled: | 7/16/2004 |
| | | Date Received: | 7/16/2004 |
| | | Date Analyzed: | 7/20/2004 |

| Parameter | Result (mg/l) | Regulatory Limit (mg/l) |
|-------------------|---------------|-------------------------|
| 2,4,5-TP (Silvex) | ND<0.2 | 1.0 |
| 2,4-D | ND<2.0 | 10.0 |

Analytical Method: SW1311/8151 ELAP ID: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: 
Bruce Hoogesteger

LABORATORY REPORT FOR HERBICIDE ANALYSIS

| | | | |
|-------------------------|--------------------------------|------------------------|--------------|
| Client: | <u>NWEC&C, Inc.</u> | Lab Project No: | 04-1985 |
| Client Job Site: | Destro-Union Ship Canal | Lab Sample No: | 6849 |
| Client Job No: | N/A | Sample Type: | TCLP Extract |
| Field Location: | Additional NAPL Area South | Date Sampled: | 7/16/2004 |
| | | Date Received: | 7/16/2004 |
| | | Date Analyzed: | 7/20/2004 |

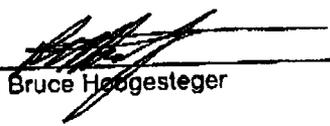
| Parameter | Result (mg/l) | Regulatory Limit (mg/l) |
|-------------------|---------------|-------------------------|
| 2,4,5-TP (Silvex) | ND<0.2 | 1.0 |
| 2,4-D | ND<2.0 | 10.0 |

Analytical Method: SW1311/8151

ELAP ID: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogsteger



Pesticide Analysis Report for TCLP Extract

Client: **NWEC&C**

Client Job Site: Destro
Union Ship Canal
Client Job Number: N/A
Field Location: Additional NAPL Area North
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 04-1985
Lab Sample Number: 6848
Date Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/22/2004

| Pesticide Identification | Results in ug / L | Regulatory Limits in ug / L |
|--------------------------|-------------------|-----------------------------|
| gamma-BHC | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30.0 |
| Endrin | ND< 1.00 | 20.0 |
| Heptachlor | ND< 1.00 | 8.00 |
| Heptachlor Epoxide | ND< 1.00 | 8.00 |
| Methoxychlor | ND< 1.00 | 10000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: BH/preliminary
Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for TCLP Extract

Client: **NWEC&C**

Client Job Site: Destro
Union Ship Canal
Client Job Number: N/A
Field Location: Additional NAPL Area South
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 04-1985
Lab Sample Number: 8849
Date Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/22/2004

| Pesticide Identification | Results in ug / L | Regulatory Limits in ug / L |
|--------------------------|-------------------|-----------------------------|
| gamma-BHC | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30.0 |
| Endrin | ND< 1.00 | 20.0 |
| Heptachlor | ND< 1.00 | 8.00 |
| Heptachlor Epoxide | ND< 1.00 | 8.00 |
| Methoxychlor | ND< 1.00 | 10000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958

Method: EPA 8081

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: BH / preliminary

Bruce Hoogesteger: Technical Director



PCB Analysis Report for Soils/Solids/Sludges

Client: NWEC&C

Client Job Site: Destro-Union Ship Canal
Client Job Number: N/A
Field Location: Additional NAPL Area North
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 04-1985
Lab Sample Number: 6848
Date Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/21/2004

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.474 |
| Aroclor 1221 | ND< 0.474 |
| Aroclor 1232 | ND< 0.474 |
| Aroclor 1242* | ND< 0.474 |
| Aroclor 1248 | ND< 0.474 |
| Aroclor 1254 | ND< 0.474 |
| Aroclor 1260 | ND< 0.474 |

ELAP Number 10958,*10249

Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. 041985P1.XLS

PCB Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

| | | | |
|--------------------|----------------------------|---------------------|------------|
| Client Job Site: | Destro-Union Ship Canal | Lab Project Number: | 04-1985 |
| Client Job Number: | N/A | Lab Sample Number: | 6849 |
| Field Location: | Additional NAPL Area South | Date Sampled: | 07/16/2004 |
| Field ID Number: | N/A | Date Received: | 07/16/2004 |
| Sample Type: | Soil | Date Analyzed: | 07/21/2004 |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.458 |
| Aroclor 1221 | ND< 0.458 |
| Aroclor 1232 | ND< 0.458 |
| Aroclor 1242* | ND< 0.458 |
| Aroclor 1248 | ND< 0.458 |
| Aroclor 1254 | ND< 0.458 |
| Aroclor 1260 | ND< 0.458 |

ELAP Number 10958.*10249

Method: EPA 8082

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: _____

[Handwritten Signature]
Bruce Hoogestegen, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. 041985P2.XLS



PHC Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

Client Job Site: Destro-Union Ship Canal

Lab Project Number: 04-1985

Lab Sample Number: 6848

Client Job Number: N/A

Field Location: Additional NAPL Area North

Date Sampled: 07/16/2004

Field ID Number: N/A

Date Received: 07/16/2004

Sample Type: Soil

Date Analyzed: 07/22/2004

| PHC Classification | Results in ug / Kg |
|----------------------------------|--------------------|
| Heavy Weight PHC as: Lube Oil | 348,000 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: 
Bruce Hoogesteger, Technical Director

PHC Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

Client Job Site: Destro-Union Ship Canal
Client Job Number: N/A
Field Location: Additional NAPL Area South
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 04-1985
Lab Sample Number: 8849
Date Sampled: 07/16/2004
Date Received: 07/16/2004
Date Analyzed: 07/22/2004

| PHC Classification | Results in ug / Kg |
|----------------------------------|--------------------|
| Heavy Weight PHC as: Lube Oil | 245,000 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: _____

Bruce Hoogesteger
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|--|------------------------------------|---|-------------------|
| REPORT TO: NWECTC | NO: 19 | LAB PROJECT #: 04-1985 | CLIENT PROJECT #: |
| COMPANY: NWECTC | COMPANY: Same | TURNAROUND TIME: (WORKING DAYS) | |
| ADDRESS: 3553 Crittenden Rd. | ADDRESS: | | |
| CITY: Crittenden, New York STATE: NY ZIP: 14038 | CITY: STATE: ZIP: | | |
| PHONE: (616) 937-6527 FAX: 937-9360 | PHONE: FAX: | | |
| ATTN: R. Savage / G. Weber | ATTN: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> OTHER | |
| PROJECT NAME/SITE NAME: Destro - Union Ship Canal | COMMENTS: Please fax report | + post 4 hrs on Crittenden 2pm 7/23 | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONUTMIBENERS | Full TSP | Ignitibility | Corrosivity | Reactivity | PCBS | TPH | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------|------|-----------|------|----------------------------|--------|---------------|----------|--------------|-------------|------------|------|-----|---------|----------------------------|
| 7/16/04 | | X | | Additional NAPL Area North | Soil | 2 | X | X | X | X | X | X | | 6848 |
| 27/16/04 | | X | | Additional NAPL Area South | Soil | 2 | X | X | X | X | X | X | | 6849 |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation. CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 15C

| | | | | |
|---------------------------------|----------------------------|------------------------------------|-------------------------------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: 7-16-04 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: 7/16/04 12:00AM | Received @ Lab By: <i>Bill Baw</i> | Date/Time: 7/16/04 20 ¹⁰ | P.I.F. |



WASTE MANAGEMENT, INC.

CWM Chemical Services, L.L.C.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107
716/754-8231

December 30, 2003

Mr. Russ Savage
Nature's Way Environmental
3553 Crittenden Rd.
Crittenden, NY 14038

**RE: Approved Profile #CX1578
Development Downtown, Inc.**

Dear Mr. Savage,

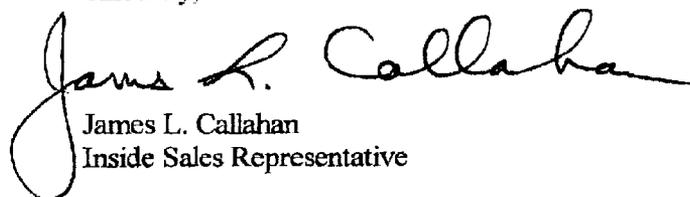
Please be advised that the above referenced application has been approved for disposal at Waste Management's Chaffee Landfill. Enclosed please find a copy of the approved application.

In the event that significant changes in the information provided on the application occur, please notify us immediately. Such changes shall include, but are not limited to, change in process, change in waste composition and change in hauler.

Please contact us 24 hours in advance of any disposal you wish to schedule.

Should you have any questions at all, please contact me directly @ (716) 754-0365.

Sincerely,


James L. Callahan
Inside Sales Representative

Enc.
cc: File



WASTE MANAGEMENT GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on file? [] YES [] NO
[] Hazardous [X] Non-Hazardous [] TSCA

Profile Number: WMI 141578
Renewal Date: 6/1/04

A. Waste Generator Information

1. Generator Name: Development Downtown, Inc. 2. SIC Code:
3. Facility Street Address: Commerce Drive 4. Phone: (716)
5. Facility City: Buffalo 6. State/Province: New York
7. Zip/Postal Code: 14203 8. Generator USEPA/Federal ID #: NA
9. County: Erie 10. State/Province ID #: NA
11. Customer Name: Nature's Way Environmental 12. Customer Phone: (716) 937-6527
13. Customer Contact: R. Savage / G. Weber 14. Customer Fax: 937-9360
15. Billing Address 3553 Crittenden Rd. Crittenden, New York 14038 [] Same as above

B. Waste Stream Information

1. Description
a. Name of Waste: Soil Contaminated with Non Aqueous Phase Liquid (Petroleum)
b. Process Generating Waste: Historic Industrial operations. Material to be excavated was identified through previous site investigation.

Table with 5 columns: c. Color (Variable, Brown/Gray), d. Strong odor (Mild Petroleum type odor), e. Physical state @ 70°F (Solid, Gas, Other), f. Layers (Single Layer, Multi-layer), g. Free liquid range (NA to %), h. pH: Range (10.03 to %)

i. Liquid Flash Point: [] <73°F [] 73-99°F [] 100-139°F [] 140-199°F [X] ≥ 200°F [] Not applicable
j. Chemical Composition (List all constituents including halogenated organics, debris, and UHC's) present in any concentration and submit representative analysis):

Table with 2 columns: Constituents (Soil & Stone, Petroleum (NAPL), Debris) and Concentration Range (99.0-99.5, 0.1-0.5, 0.5-1.0)

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. [] Oxidizer [] Pyrophoric [] Explosive [] Radioactive
[] Carcinogen [] Infectious [] Shock Sensitive [] Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.j) [] YES [X] NO
m. Does the waste represented by this profile contain dioxins? (list in Section B.1.j) [] YES [X] NO
n. Does the waste represented by this profile contain asbestos? [] YES [X] NO
o. Does the waste represented by this profile contain benzene? [] YES [X] NO
p. Is the waste subject to RCRA Subpart CC controls? [] YES [X] NO
q. Does the waste contain any Class I or Class II ozone-depleting substances? [] YES [X] NO
r. Does the waste contain debris? (list in Section B.1.j) [X] YES [] NO

2. Quantity of Waste Estimated Annual Volume 2400 500 [X] Tons [] Yards [] Drums [] Other specify)

3. Shipping Information

a. Packaging: [X] Bulk Solid; Type/Size: Dump Truck/Trailer [] Bulk Liquid; Type/Size:
[] Drum; Type; Size: [] Other:
b. Shipping Frequency: Units 500 TONS Per: [] Month [] Quarter [] Year [X] One time []
c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) [] YES [X] NO
d. Reportable Quantity (lbs.; kgs.): e. Hazard Class/ID #:
f. USDOT Shipping Name:



WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA - Tarp Loads For Transport

h. Transporter & Transporter Number Waste Management to provide transportation LCA 9A-480

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
 - a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U) _____
 - b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section B.1.) YES NO
 - c. Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.) YES NO
- 2. Is this a state hazardous waste? YES NO
Identify ALL state hazardous/non hazardous waste codes _____
- 3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? YES NO
If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
- 4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? YES NO
- 5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.) YES NO
 - a. If yes, were the PCBs imported into the U.S.? YES NO
- 6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
- 7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: David Stebbins Title: INTERIM PRESIDENT
Name (Type or Print): DAVID STEBBINS Company Name: Development Downtown Date: 12/7/03
 Check if additional information is attached. Indicate the number of attached pages _____

| D. WMI Management's Decision | | | FOR WMI USE ONLY |
|---|---|---|---|
| 1. Management Method | <input checked="" type="checkbox"/> Landfill | <input type="checkbox"/> Non-hazardous Solidification | <input type="checkbox"/> Bioremediation |
| | <input type="checkbox"/> Hazardous Stabilization | <input type="checkbox"/> Other (Specify) _____ | <input type="checkbox"/> Incineration |
| 2. Proposed Ultimate Management Facility: | <u>Chaffee Landfill</u> | | |
| 3. Precautions, Special Handling Procedures, or Limitation on Approval: | <u>Material may be used as daily cover pending NYSDEC Approval</u> <u>2 Additional samples required PRIOR to shipment of material.</u> | | |
| 4. Waste Form _____ | 5. Source _____ | 6. System Type | <u>A23</u> |
| Special Waste Decision _____ | | <input checked="" type="checkbox"/> Approved | <input type="checkbox"/> Disapproved |
| Salesperson's Signature: _____ | | Date: _____ | |
| NYSDEC Region 9 Approval: _____ | | Date: _____ | |
| Special Waste Approvals Person Signature: <u>James L. Callahan</u> | | Date: <u>12/17/03</u> | |

OK per Chad Stanciszewski 12/29/03

APPENDIX H

NAPL AREA PIPELINE LABORATORY ANALYTICAL

RESULTS

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NVEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 09-Aug-2004
Date Reported: 23-Aug-2004

Submission No.: 4110240
Sample No.: 049870-049871

NOTES:

*"L" = not analysed "C" = less than Method Detection Limit (MDL) "NA" = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods. (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: *M. C. L.*

Page 1 of 4

| Component | MDL | Units | Client ID: | Method | Blank | % |
|---------------------------|------|-------|---|--------------------------|--------------------------|--------------------------|
| | | | Lab No.: | Blank | Spike | Recovery |
| | | | Pipe Trench-East End 049871 04 05-Aug-2004 | 049870 04 05-Aug-2004 | 049870 04 05-Aug-2004 | 049870 04 05-Aug-2004 |
| Acetone | 12.7 | ug/L | < | < | 65 | 130 |
| Benzene | 0.5 | " | < | < | 47 | 94 |
| Bromoform | 0.7 | " | < | < | 56 | 110 |
| Bromomethane | 1.0 | " | < | < | 59 | 120 |
| 2-Butanone | 3.2 | " | < | < | 59 | 120 |
| Carbon Disulfide | 0.9 | " | < | < | 46 | 91 |
| Carbon Tetrachloride | 0.7 | " | < | < | 48 | 96 |
| Chlorobenzene | 0.6 | " | < | < | 47 | 95 |
| Chlorodibromomethane | 0.4 | " | < | < | 49 | 97 |
| Chloroethane | 0.9 | " | < | < | 52 | 100 |
| 2-Chloroethylvinylether | 2.8 | " | < | < | NS | - |
| Chloroform | 0.4 | " | < | < | 49 | 98 |
| Chloromethane | 1.4 | " | < | < | 53 | 110 |
| 1,2-Dichlorobenzene | 0.8 | " | < | < | 47 | 93 |
| 1,3-Dichlorobenzene | 1.8 | " | < | < | 46 | 92 |
| 1,4-Dichlorobenzene | 1.6 | " | < | < | 47 | 94 |
| Dichlorobromomethane | 0.4 | " | < | < | 48 | 97 |
| 1,1-Dichloroethane | 0.5 | " | < | < | 46 | 92 |
| 1,2-Dichloroethane | 0.4 | " | < | < | 47 | 94 |
| 1,1-Dichloroethene | 0.7 | " | < | < | 44 | 88 |
| cis-1,2-Dichloroethene | 0.6 | " | < | < | 49 | 98 |
| trans-1,2-Dichloroethene | 0.5 | " | < | < | 45 | 90 |
| 1,2-Dichloropropane | 0.7 | " | < | < | 48 | 96 |
| cis-1,3-Dichloropropene | 0.3 | " | < | < | 47 | 94 |
| trans-1,3-Dichloropropene | 0.6 | " | < | < | 43 | 87 |
| Ethylbenzene | 0.5 | " | < | < | 46 | 92 |
| 2-Hexanone | 1.3 | " | < | < | 57 | 110 |
| Dichloromethane | 2.3 | " | < | < | 46 | 92 |
| 4-Methyl-2-Pentanone | 1.5 | " | < | < | 55 | 110 |
| Methyl-t-butylether | 0.5 | " | < | < | NS | - |
| Styrene | 0.6 | " | < | < | 47 | 93 |
| 1,1,2,2-Tetrachloroethane | 0.8 | " | < | < | 54 | 110 |
| Tetrachloroethene | 0.5 | " | < | < | 46 | 92 |
| Toluene | 1.0 | " | < | < | 48 | 95 |
| 1,1,1-Trichloroethane | 0.8 | " | < | < | 48 | 95 |
| 1,1,2-Trichloroethane | 0.6 | " | < | < | 50 | 99 |
| Trichloroethene | 1.0 | " | < | < | 48 | 95 |
| Trichlorofluoromethane | 1.8 | " | < | < | 49 | 98 |
| Vinyl Acetate | 2.4 | " | < | < | NS | - |
| Vinyl Chloride | 0.9 | " | < | < | 50 | 100 |
| m&p-Xylene | 1.1 | " | < | < | 91 | 91 |
| o-Xylene | 0.5 | " | < | < | 44 | 88 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 80 | 82 | 88 | 88 |
| d8-Toluene | | | 92 | 89 | 88 | 88 |
| Bromofluorobenzene | | | 81 | 82 | 85 | 85 |

8/23/04

PASC - Summary of Analysis Pre. Dates

Page MS-4 of 4

Batch Code: 0811MC01
Acetone 049870 04
049871 04
Date Analysed: 04/08/11
Date Prepared: 04/08/11

Batch Code: 0811MC01
Ethylbenzene 049870 04
049871 04
Date Analysed: 04/08/11
Date Prepared: 04/08/11

Batch Code: 0811NCS1
Naphthalene 049870 04
049871 04
Date Analysed: 04/08/11
Date Prepared: 04/08/11

APPENDIX I

SANITARY SEWER MANHOLE NO. 8 PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS AND DISPOSAL FACILITY APPROVAL



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Nature's Way Environmental **Lab Project No.:** 03-3265
Client Job Site: Union Ship Canal **Lab Sample No.:** 10690
Client Job No.: N/A **Sample Type:** Soil
Field Location: Stockpile Composite from Manhole 8 **Date Sampled:** 12/03/2003
Date Received: 12/05/2003

| Parameter | Date Analyzed | Analytical Method | Result (mg/kg) |
|--------------------|---------------|-------------------|-------------------|
| Cyanide Reactivity | 12/10/2003 | SW846, 7.3 | ND<1 Non Reactive |
| Sulfide Reactivity | 12/10/2003 | SW846, 7.3 | 50 Non Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
 Hazardous Waste Regulatory Levels for Reactivity are as follows:
 Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director:

Bruce Hoogesteger



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for TCLP ExtractsClient: Nature's Way

| | | | |
|--------------------|------------------------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3265 |
| | | Lab Sample Number: | 10690 |
| Client Job Number: | N/A | Date Sampled: | 12/03/2003 |
| Field Location: | Stackpile Composite from Manhole B | Date Received: | 12/05/2003 |
| Field ID Number: | N/A | Date Analyzed: | 12/12/2003 |
| Sample Type: | TCLP Extract | | |

| Pesticide | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| gamma-BHC (Lindane) | ND< 1.00 | 400 |
| Chlordane | ND< 1.00 | 30 |
| Endrin | ND< 1.00 | 20 |
| Heptachlor | ND< 1.00 | 8 |
| Heptachlor Epoxide | ND< 1.00 | 8 |
| Melthoxychlor | ND< 1.00 | 10,000 |
| Toxaphene | ND< 50.0 | 500 |

ELAP Number 10958 Method: EPA 8081A

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 033265P2.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/SludgesClient: **Nature's Way Environmental**

| | | | |
|--------------------|------------------------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3265 |
| | | Lab Sample Number: | 10890 |
| Client Job Number: | N/A | Date Sampled: | 12/03/2003 |
| Field Location: | Stockpile Composite from Manhole 8 | Date Received: | 12/05/2003 |
| Field ID Number: | N/A | Date Analyzed: | 12/11/2003 |
| Sample Type: | Soil | | |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND < 0.577 |
| Aroclor 1221 | ND < 0.577 |
| Aroclor 1232 | ND < 0.577 |
| Aroclor 1242 | ND < 0.577 |
| Aroclor 1248 | ND < 0.577 |
| Aroclor 1254 | ND < 0.577 |
| Aroclor 1260 | ND < 0.577 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
 mg / Kg = milligram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033265P1.XLS



ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Semi-Volatile Analysis Report for TCLP Extract

Client: Nature's Way Environmental

| | | | |
|---------------------------|--------------------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3265 |
| Client Job Number: | N/A | Lab Sample Number: | 10890 |
| Field Location: | Stockpile Comp. from Manhole 8 | Date Sampled: | 12/03/2003 |
| Field ID Number: | N/A | Date Received: | 12/05/2003 |
| Sample Type: | TCLP Extract | Date Analyzed: | 12/11/2003 |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND < 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND < 40.0 | 130 |
| Hexachlorobenzene | ND < 40.0 | 3,000 |
| Hexachlorobutadiene | ND < 40.0 | 500 |
| Hexachloroethane | ND < 40.0 | 130 |
| Nitrobenzene | ND < 40.0 | 2,000 |
| Pyridine | ND < 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND < 80.0 | 200,000 |
| Pentachlorophenol | ND < 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND < 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND < 40.0 | 2,000 |

ELAP Number 10968

Method: EPA 8270C

Data File: 14092.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 033265S1.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

Volatile Analysis Report for TCLP ExtractClient: **Nature's Way Environmental**

| | | | |
|--------------------|--------------------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3265 |
| | | Lab Sample Number: | 10690 |
| Client Job Number: | N/A | Date Sampled: | 12/03/2003 |
| Field Location: | Stockpile Comp. from Manhole 8 | Date Received: | 12/05/2003 |
| Field ID Number: | N/A | Date Analyzed: | 12/09/2003 |
| Sample Type: | TCLP Extract | | |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10958

Method: EPA 8260B

Data File: 18063.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


 A handwritten signature in black ink, appearing to read "Bruce Hoogesteger", is written over a horizontal line.

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 033265V1.XLS



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Nature's Way Environmental

Lab Project No.: 03-3265

Client Job Site: Union Ship Canal

Sample Type: Solid

Method: SW846 1010

Client Job No.: N/A

Date(s) Sampled: 12/03/2003

Date Received: 12/05/2003

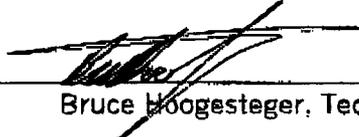
Date Analyzed: 12/09/2003

Laboratory Report for Flashpoint Analysis

| Lab Sample No. | Field ID No. | Field Location | Flashpoint Results (°C) |
|----------------|--------------|------------------------------------|-------------------------|
| 10690 | N/A | Stockpile Composite from manhole 8 | >70 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP ID No.: 10958

Comments:

Approved By: 
 Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Nature's Way Environmental **Lab Project No.:** 03-3265
Client Job Site: Union Ship Canal **Lab Sample No.:** 10690
Client Job No.: N/A **Sample Type:** TCLP Extract
Field Location: Stockpile Composite from manhole 8 **Date Sampled:** 12/03/2003
Field ID No.: N/A **Date Received:** 12/05/2003

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 12/09/2003 | EPA 6010 | <0.100 | 5.0 |
| Barium | 12/09/2003 | EPA 6010 | 0.650 | 100.0 |
| Cadmium | 12/09/2003 | EPA 6010 | <0.025 | 1.0 |
| Chromium | 12/09/2003 | EPA 6010 | 0.125 | 5.0 |
| Lead | 12/09/2003 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 12/09/2003 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 12/09/2003 | EPA 6010 | <0.100 | 1.0 |
| Silver | 12/09/2003 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:033265.xls



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Nature's Way Environmental

Lab Project No.: 03-3265

Client Job Site: Union Ship Canal

Sample Type: Solid
Method: SW846 9045C

Client Job No.: N/A

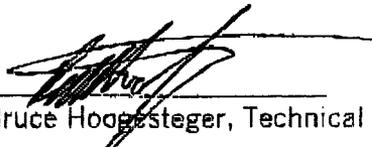
Date(s) Sampled: 12/03/2003
Date Received: 12/05/2003
Date Analyzed: 12/05/2003

Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|------------------------------------|-------------------|
| 10690 | N/A | Stockpile Composite from manhole 8 | 8.60 |
| | | | |
| | | | |
| | | | |
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ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoggsteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|--|---------------------------------|---|----------------------|
| REPORT TO: | | INVOICE TO: | |
| COMPANY: NATURES WAY ENVIRONMENTAL | ADDRESS: 3553 Giffenden Road | CITY: Cattaraugus | STATE: NY ZIP: 14038 |
| PHONE: (716) 937-6527 | FAX: 937-9360 | ATTN: RUSS SAUSAGE / GREG WEBER | ATTN: |
| PROJECT NAME/SITE NAME: Union SHIP CANAL | | LAB PROJECT #: 03-3265 | CLIENT PROJECT #: |
| COMMENTS: PLEASE FAX A COPY OF RESULTS TO NWECC Inc @ ABOVE # 12/5/03 | | TURNAROUND TIME: (WORKING DAYS) CPC 6-8 DAYS PUB PLOTTING | |

| DATE | TIME | COMPOSITE | ORAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|-------------------------------------|--------|-------------|---------------------------------------|----------------------------|
| 12/3/03 | 2:00 | X | | Stockpile Composite from Man hole 8 | soil | 9 | TCB + TCEP + Heavy Metals + PCB | 10690 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 8°C

| | | | | |
|---------------------------------|--------------------|------------------------------------|----------------------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: 12/3/03 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: | Date/Time: 12/4/03 | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: 12/4/03 | Received @ Lab By: Pamela M. Bilak | Date/Time: 12/5/03 @ 10:00 | P.I.F. |

12/16/2003 16:30 15856473311 PARADIGM ENV PAGE 03/03



WASTE MANAGEMENT, INC.
CWM Chemical Services, L.L.C.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107
716/754-8231

March 12, 2004

Mr. Greg Weber
Nature's Way Environmental
3553 Crittenden Rd.
Crittenden, NY 14038

**RE: Approved Profile #VA7211
Development Downtown**

Dear Mr. Weber,

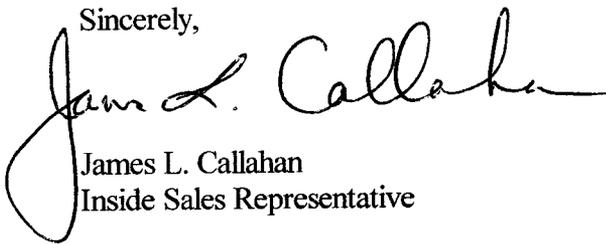
Please be advised that the above referenced application has been approved for disposal at Waste Management's Chaffee Landfill. Enclosed please find a copy of the approved application.

In the event that significant changes in the information provided on the application occur, please notify us immediately. Such changes shall include, but are not limited to, change in process, change in waste composition and change in hauler.

Please contact us 24 hours in advance of any disposal you wish to schedule.

Should you have any questions at all, please contact me directly @ (716) 754-0365.

Sincerely,



James L. Callahan
Inside Sales Representative

Enc.

cc: File



GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO
 Hazardous Non-Hazardous TSCA

Profile Number: WMI VA 7211
Renewal Date: 12/1/04

A. Waste Generator Information

- Generator Name: Development Downtown, Inc.
- SIC Code: _____
- Facility Street Address: Commerce Drive
- Phone: (716) 856-8625
- Facility City: Buffalo
- State/Province: New York
- Zip/Postal Code: 14203
- Generator USEPA/Federal ID #: NA
- County: Erie
- State/Province ID #: NA
- Customer Name: Nature's Way Environmental
- Customer Phone: (716) 937-6527
- Customer Contact: R. Savage/G. Weber
- Customer Fax: 937-9360
- Billing Address: 3553 Criffenden Rd. Criffenden, New York 14038 Same as above

B. Waste Stream Information

- Description
 - Name of Waste: Soil Contaminated with Petroleum (Manhole 8 Area)
 - Process Generating Waste: Historic industrial use of property. Impacted soil was excavated from the area of during construction/installation of utilities.

| | | | | |
|--|---|---|---|---|
| c. Color <u>Variable</u> <u>Brown/Gray/Black</u> | d. Strong odor (describe): <u>NA</u> | e. Physical state @ 70°F <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other | f. Layers <input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-layer | g. Free liquid range <u>NA</u> to _____ % No Free Liquid h. pH: Range <u>8.6</u> to _____ % |
|--|---|---|---|---|

- Liquid Flash Point: <73°F 73-99°F 100-139°F 140-199°F ≥ 200°F Not applicable
- Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

| Constituents | Concentration Range | Constituents | Concentration Range |
|---------------------------|---------------------|--------------|---------------------|
| <u>Soil + Stone</u> | | | |
| <u>Slag + Ash</u> | | | |
| <u>Petroleum Products</u> | | | |

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

- Oxidizer Pyrophoric Explosive Radioactive
 Carcinogen Infectious Shock Sensitive Water Reactive
- Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.j)..... YES NO
- Does the waste represented by this profile contain dioxins? (list in Section B.1.j)..... YES NO
- Does the waste represented by this profile contain asbestos?..... YES NO
If yes..... friable non-friable
- Does the waste represented by this profile contain benzene?..... YES NO
If yes, concentration _____ ppm
Is the waste subject to the benzene waste operations NESHAP?..... YES NO
- Is the waste subject to RCRA Subpart CC controls?..... YES NO
If yes, volatile organic concentration _____ ppm
- Does the waste contain any Class I or Class II ozone-depleting substances?..... YES NO
- Does the waste contain debris? (list in Section B.1.j)..... YES NO

2. Quantity of Waste
Estimated Annual Volume < 200 Tons Yards Drums Other specify) _____

- Shipping Information
 - Packaging:
 Bulk Solid; Type/Size: Dump Truck/Trailer Bulk Liquid; Type/Size: _____
 Drum; Type; Size: _____ Other: _____
 - Shipping Frequency: Units < 200 Tons Per: Month Quarter Year One time Other _____
 - Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f)..... YES NO
 - Reportable Quantity (lbs.; kgs.): _____ e. Hazard Class/ID #: _____

03/02/2004 14:04 FAX



GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Zoladz 9A-499

g. Personal Protective Equipment Requirements: NA
h. Transporter & Transporter Number Waste Management to provide Zoladz

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
 - a. If yes, identify ALL USEPA based and characteristic waste code numbers (D, F, K, P, U) _____
 - b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCA) apply? (If yes, list in Section B.1.J.) YES NO
 - c. Does this waste contain debris? (If yes, list size and type in Chemical Composition - B.1.) YES NO
- 2. Is this a state hazardous waste? YES NO
Identify ALL state hazardous/non hazardous waste codes _____
- 3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? YES NO
If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
- 4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? YES NO
- 5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (If yes, list in Chemical Composition - B.1.J.) YES NO
2. If yes, were the PCBs imported into the U.S.? YES NO
- 6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
- 7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of reclassification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has obtained the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: [Signature] Title: Director of Urban Development
Name (Type or Print): FRED A. CARONATA Company Name: EC Date: 3/5/04

Check if additional information is attached. Indicate the number of attached pages 11

| | | | | |
|--|--|---|--------------------------------------|---------------------------------------|
| 1. Management Method | <input checked="" type="checkbox"/> Landfill | <input type="checkbox"/> Non-hazardous Solidification | <input type="checkbox"/> Remediation | <input type="checkbox"/> Incineration |
| | <input type="checkbox"/> Hazardous Stabilization | <input type="checkbox"/> Other (Specify) _____ | | |
| 2. Proposed Ultimate Management Facility: | <u>Chaffee Landfill</u> | | | |
| 3. Provisions, Special Handling Procedures, or Limitation on Approval: | _____ | | | |
| 4. Waste Form | 5. Source | 6. System Type <u>AD3</u> | | |
| Special Waste Decision: | | <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Disapproved | | |
| Generator's Signature: | | Date: | _____ | |
| NYSDEC Region 8 Approval: | | Date: | _____ | |
| Special Waste Approvals Person Signature: | <u>[Signature]</u> | Date: | <u>3/9/04</u> | |

→ Pending NYSDEC Region 8 approval
Material may be used as daily cover. &
OK per Chad Staniszewski 3/12/04 &

APPENDIX J

SANITARY SEWER MANHOLE NO. 11 PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS



179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Nature's Way Environmental **Lab Project No.:** 04-0646
Lab Sample No.: 2767

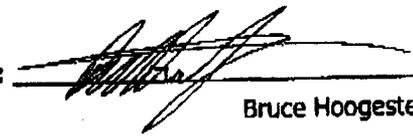
Client Job Site: Union Ship Canal **Sample Type:** Soil
Client Job No.: N/A

Field Location: Manhole II Stockpile **Date Sampled:** 03/04/2004
Date Received: 03/08/2004

| Parameter | Date Analyzed | Analytical Method | Result (mg/kg) |
|--------------------|---------------|-------------------|-------------------|
| Cyanide Reactivity | 03/11/2004 | SW846, 7.3 | ND<1 Non Reactive |
| Sulfide Reactivity | 03/16/2004 | SW846, 7.3 | 157 Non Reactive |

ELAP ID. No.: 10709

Comments: ND denotes Non Detected.
 Hazardous Waste Regulatory Levels for Reactivity are as follows:
 Sulfide - 500 mg/kg, Cyanide - 250 mg/kg.

Approved By Technical Director: 
 Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Reactivity04-0646.xls



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Nature's Way Environmental **Lab Project No.:** 04-0646
Client Job Site: Union Ship Canal **Lab Sample No.:** 2767
Client Job No.: N/A **Sample Type:** TCLP Extract
Field Location: Manhole 11 Stockpile **Date Sampled:** 03/04/2004
Field ID No.: N/A **Date Received:** 03/08/2004

Laboratory Report for TCLP Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) | Regulatory Limit (mg/L) |
|--------------------------|---------------|-------------------|---------------|-------------------------|
| TCLP Metal Series | | | | |
| Arsenic | 03/11/2004 | EPA 6010 | <0.100 | 5.0 |
| Barium | 03/11/2004 | EPA 6010 | 0.514 | 100.0 |
| Cadmium | 03/11/2004 | EPA 6010 | .025 | 1.0 |
| Chromium | 03/11/2004 | EPA 6010 | <0.050 | 5.0 |
| Lead | 03/11/2004 | EPA 6010 | <0.100 | 5.0 |
| Mercury | 03/11/2004 | EPA 7470 | <0.0020 | 0.2 |
| Selenium | 03/11/2004 | EPA 6010 | <0.100 | 1.0 |
| Silver | 03/11/2004 | EPA 6010 | <0.050 | 5.0 |
| | | | | |
| | | | | |

ELAP ID No.: 10958

Comments:

Approved By:

FL, Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt. File ID:040646.xls



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for TCLP Extract**Client: Nature's Way Environmental**

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0646 |
| | | Lab Sample Number: | 2787 |
| Client Job Number: | N/A | Date Sampled: | 03/04/2004 |
| Field Location: | Manhole II Stockpile | Date Received: | 03/08/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/15/2004 |
| Sample Type: | TCLP Extract | | |

| Base / Neutrals | Results in ug / L | Regulatory Limits in ug / L |
|---------------------|-------------------|-----------------------------|
| 1,4-Dichlorobenzene | ND< 40.0 | 7,500 |
| 2,4-Dinitrotoluene | ND< 40.0 | 130 |
| Hexachlorobenzene | ND< 40.0 | 3,000 |
| Hexachlorobutadiene | ND< 40.0 | 500 |
| Hexachloroethane | ND< 40.0 | 130 |
| Nitrobenzene | ND< 40.0 | 2,000 |
| Pyridine | ND< 40.0 | 5,000 |

| Acids | Results in ug / L | Regulatory Limits in ug / L |
|---------------------------|-------------------|-----------------------------|
| Cresols (as m,p,o-Cresol) | ND< 80.0 | 200,000 |
| Pentachlorophenol | ND< 100 | 100,000 |
| 2,4,5-Trichlorophenol | ND< 100 | 400,000 |
| 2,4,6-Trichlorophenol | ND< 40.0 | 2,000 |

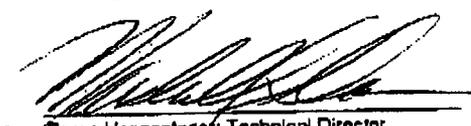
ELAP Number 10958

Method: EPA 8270C

Data File: 18542.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:



 For: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040648S1.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Soils/Solids/Sludges

Client: **Nature's Way Environmental**

| | | | |
|--------------------|----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0646 |
| | | Lab Sample Number: | 2767 |
| Client Job Number: | N/A | Date Sampled: | 03/04/2004 |
| Field Location: | Manhole II Stockpile | Date Received: | 03/08/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/11/2004 |
| Sample Type: | Soil | | |

| PCB Identification | Results in mg / Kg |
|--------------------|--------------------|
| Aroclor 1016 | ND< 0.491 |
| Aroclor 1221 | ND< 0.491 |
| Aroclor 1232 | ND< 0.491 |
| Aroclor 1242 | ND< 0.491 |
| Aroclor 1248 | ND< 0.491 |
| Aroclor 1254 | ND< 0.491 |
| Aroclor 1260 | ND< 0.491 |

ELAP Number 10958

Method: EPA 8082A

Comments: ND denotes Non Detect
mg / Kg = milligram per Kilogram

Signature: 
 For: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Flashpoint by Pensky-Martin Analysis Report

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0646 |
| Client Job Number: | N/A | Date Sampled: | 03/04/2004 |
| | | Date Received: | 03/08/2004 |
| Sample Type: | Soil | Date Analyzed: | 03/12/2004 |

| Lab Sample Number | Field Number | Field Location | Result (°C) |
|-------------------|--------------|----------------------|-------------|
| 2767 | N/A | Manhole 11 Stockpile | >70 |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP Number 10958

Method: SW846 1010

Comments: °C = degrees Centigrade

Signature: 
 For: Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040646F1.XLS



179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for TCLP Extract**Client: Nature's Way Environmental**

| | | | |
|---------------------------|----------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0646 |
| | | Lab Sample Number: | 2767 |
| Client Job Number: | N/A | Date Sampled: | 03/04/2004 |
| Field Location: | Manhole 11 Stockpile | Date Received: | 03/08/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/10/2004 |
| Sample Type: | TCLP Extract | | |

| TCLP Analytes | Results in ug / L | Regulatory Limits in ug / L |
|----------------------|-------------------|-----------------------------|
| Benzene | ND< 20.0 | 500 |
| 2-Butanone | ND< 50.0 | 200,000 |
| Carbon Tetrachloride | ND< 20.0 | 500 |
| Chlorobenzene | ND< 20.0 | 100,000 |
| Chloroform | ND< 20.0 | 6,000 |
| 1,2-Dichloroethane | ND< 20.0 | 500 |
| 1,1-Dichloroethene | ND< 20.0 | 700 |
| Tetrachloroethene | ND< 20.0 | 700 |
| Trichloroethene | ND< 20.0 | 500 |
| Vinyl chloride | ND< 20.0 | 200 |

ELAP Number 10956 Method: EPA 8260B Data File: 19673.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

 Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 040646V1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|---|-----------------------------------|---|-------------------|
| REPORT TO: | | INVOICE TO: | |
| COMPANY: NATURE'S WAY Environmental | COMPANY: Some | LAB PROJECT #: 04-0646 | CLIENT PROJECT #: |
| ADDRESS: 3553 Crittenden Rd | ADDRESS: | TURNAROUND TIME: (WORKING DAYS) 6-8 | |
| CITY: Crittenden | STATE: NY | ZIP: 14058 | |
| PHONE: (716) 937-6527 | FAX: 932-9360 | PHONE: | FAX: |
| PROJECT NAME/SITE NAME: Union Ship Canal | ATTN: Ross Savage / Greg Weber | ATTN: | |
| COMMENTS: Please fax a copy of results to NWE & C Inc @ above number | | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> STD <input type="checkbox"/> OTHER | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAMINERS | Full TCLP | Ignitability | Corrosivity | Reactivity | PCB's | *No Pests. | *No Herbs. | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|---------------------|---------------|--------------|------|-------------------------------|-----------------|--------------|-----------|--------------|-------------|------------|-------|------------|------------|---|----------------------------|
| 1 3/4/04 | AM | X | | Basement Stockpile | soil | 1 | | | | | | | | TCLP 3200 TCLP 8270 TCLP REARFIELD | 2767 |
| 2 3/4/04 | | X | | Manhole 11 Stockpile | soil | 1 | X | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 13°C iced.

| | | | | |
|-------------------------------------|---------------------------|---------------------------------------|-------------------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: 3/4/04 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: <i>[Signature]</i> | Date/Time: 3/4/04 | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: 3/4/04 10:55AM | Received @ Lab By: <i>[Signature]</i> | Date/Time: 3/8/04 11:30 | P.I.F.: |

10/13/2004 10:32 15856473311 PAGE 1/1

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
 Crittenden, NY
 14038
Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 26-Mar-2004
Date Reported: 05-Apr-2004

Submission No.: 4C1015
Sample No.: 015197-015199

NOTES:

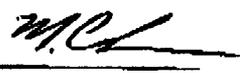
'- ' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analytes are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
 The enclosed copy of the Chain of Custody Record may contain information necessary for the
 interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of
 Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies.
 New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing
 methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client
 and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the
 pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at
 PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: _____



PASC - Certificate of Analysis

| Component | Client ID: | | Manhole | Manhole | Method | Blank | % |
|---|------------|-------|---------------|-------------|-------------|-------------|-------------|
| | MDL | Units | 11 | 11 | Blank | Spike | Recovery |
| | | | 015199 04 | 015199 04 | 015197 04 | 015197 04 | 015197 04 |
| | | | Date Sampled: | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 |
| | | | | Duplicate | | | |
| pH after 3.5 ml of 1N HCl addition | | | 2.17 | - | - | - | - |
| pH after extraction (semi-vols/metals) | | | 7.78 | - | - | - | - |
| pH initial (5g + 96.5ml water) | | | 8.90 | - | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | 4.93 | - | - | - | - |
| pH after extraction (volatiles) | | | 7.13 | - | - | - | - |
| pH of extraction fluid (volatiles) | | | 4.93 | - | - | - | - |
| Soil pH measured in water | | | 9.37 | 8.77 | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | - | <1000 | 26000 | 110 |
| Sulphide (Reactive) | 2000 | " | 160000 | - | - | - | - |
| Aroclor-1016 | 38 | ug/kg | <MDL | - | <MDL | 400 | 100 |
| Aroclor-1221 | 41 | " | <MDL | - | <MDL | - | - |
| Aroclor-1232 | 38 | " | <MDL | - | <MDL | - | - |
| Aroclor-1242 | 50 | " | <MDL | - | <MDL | - | - |
| Aroclor-1248 | 31 | " | <MDL | - | <MDL | - | - |
| Aroclor-1254 | 59 | " | <MDL | - | <MDL | - | - |
| Aroclor-1260 | 31 | " | <MDL | - | <MDL | 440 | 110 |
| Aroclor-1262 | 31 | " | <MDL | - | <MDL | - | - |
| Aroclor-1268 | 49 | " | <MDL | - | <MDL | - | - |
| Total PCB | 59 | " | <MDL | - | <MDL | 840 | 100 |
| Surrogate Recoveries | | % | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 84 | - | 97 | 96 | 96 |
| Decachlorobiphenyl | | | 98 | - | 97 | 107 | 107 |

PASC - Certificate of Analysis

| Component | Client ID: | Manhole 11 | Method | Blank | % | Blank Spike | % |
|--------------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|
| | Lab No.: | utrv | Blank | Spike | Recovery | Duplicate | Recovery |
| | Date Sampled: | 015200 04 | 015198 04 | 015198 04 | 015198 04 | 015198 04 | 015198 04 |
| | MDL | Units | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 |
| Mercury | 0.50 | ug/L | <MDL | <MDL | 10 | 100 | - |
| Arsenic | 0.250 | mg/L | <MDL | <MDL | 1.3 | 110 | - |
| Barium | 0.100 | " | 0.92 | 0.27 | 2.9 | 110 | - |
| Cadmium | 0.050 | " | <MDL | <MDL | 1.3 | 100 | - |
| Chromium | 0.500 | " | <MDL | <MDL | 2.6 | 100 | - |
| Lead | 0.500 | " | <MDL | <MDL | 2.6 | 100 | - |
| Selenium | 0.100 | " | <MDL | <MDL | 1.4 | 110 | - |
| Silver | 0.500 | " | <MDL | <MDL | 1.3 | 100 | - |
| a-Chlordane | 0.005 | ug/L | <0.033 | <MDL | 0.12 | 97 | 0.11 |
| g-Chlordane | 0.009 | " | <0.050 | <MDL | 0.11 | 91 | 0.11 |
| Endrin | 0.011 | " | <0.061 | <MDL | 0.11 | 95 | 0.12 |
| Heptachlor | 0.005 | " | <0.033 | <MDL | 0.076 | 63 | 0.082 |
| Heptachlor Epoxide | 0.012 | " | <0.078 | <MDL | 0.12 | 99 | 0.12 |
| Lindane | 0.007 | " | <0.050 | <MDL | 0.11 | 92 | 0.11 |
| Methoxychlor | 0.018 | " | <0.18 | <MDL | 0.58 | 120 | 0.61 |
| Toxaphene | 0.116 | " | <0.23 | <MDL | NS | - | NS |
| Surrogate Recoveries | | % | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 80 | 63 | 39 | 39 | 40 |
| Decachlorobiphenyl | | | 90 | 88 | 90 | 90 | 89 |
| 2,4-D (via 8150) | 0.39 | ug/L | <1.8 | <MDL | 6.7 | 90 | 7.5 |
| 2,4,5-TP | 0.04 | " | <0.18 | <MDL | 0.37 | 50 | 0.42 |
| Surrogate Recoveries | | % | | | | | |
| 2,3-D | | | 47 | 62 | 30 | 30 | 38 |
| Mercury via 7471 | | | | | | | |
| Metals via 6010 | | | | | | | |
| Pesticides via 8081 | | | | | | | |
| Herbicides via 8151 | | | | | | | |

PASC - Certificate of Analysis

| Component | MDL | Units | Manhole 11 | Manhole 11 | Method | Blank | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|
| | | | TV | TV | Blank | Spike | Recovery |
| | | | 015201 04 | 015201 04 | 015198 04 | 015198 04 | 015198 04 |
| | | | 29-Mar-2004 | 29-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 |
| | | | | Duplicate | | | |
| Benzene | 0.5 | ug/L | <5.0 | <5.0 | <5.0 | 480 | 97 |
| 2-Butanone | 5.0 | " | <50 | <50 | <50 | 500 | 100 |
| Carbon Tetrachloride | 0.7 | " | <7.0 | <7.0 | <7.0 | 520 | 100 |
| Chlorobenzene | 0.6 | " | <6.0 | <6.0 | <6.0 | 500 | 100 |
| Chloroform | 0.3 | " | 12 | 13 | <3.0 | 510 | 100 |
| 1,2-Dichloroethane | 0.3 | " | <3.0 | <3.0 | <3.0 | 500 | 100 |
| 1,1-Dichloroethene | 0.7 | " | <7.0 | <7.0 | <7.0 | 440 | 88 |
| Tetrachloroethene | 0.5 | " | <5.0 | <5.0 | <5.0 | 500 | 99 |
| Trichloroethene | 0.3 | " | <3.0 | <3.0 | <3.0 | 490 | 99 |
| Vinyl Chloride | 0.9 | " | <9.0 | <9.0 | <9.0 | 560 | 110 |
| 1,4-Dichlorobenzene | 1.6 | " | <16 | <16 | <16 | 510 | 100 |
| Surrogate Recoveries | | % | | | | | |
| d4-1,2-Dichloroethane | | | 99 | 100 | 100 | 106 | 106 |
| d8-Toluene | | | 99 | 100 | 101 | 104 | 104 |
| 1,4-Bromofluorobenzene | | | 101 | 100 | 101 | 106 | 106 |

VOC via 8260B

UC1-12-2004 14:37
 PSC HINCHLIFF SERVICES
 1 500 332 1011
 P. 04

PASC - Certificate of Analysis

| Component | Client ID: | Manhole I I | Method | Blank | % | Blank Spike | % |
|-----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Lab No.: | utov | Blank | Spike | Recovery | Duplicate | Recovery |
| | Date Sampled: | 015200 04 | 015198 04 | 015198 04 | 015198 04 | 015198 04 | 015198 04 |
| MDL | Units | 29-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 | 24-Mar-2004 |
| Pyridine | 5.0 ug/L | <MDL | <MDL | NS | - | NS | - |
| o-Cresol | 1.7 " | <MDL | <MDL | 16 | 63 | 17 | 66 |
| m&p-Cresol | 3.5 " | <MDL | <MDL | 16 | 63 | 16 | 65 |
| 1,4-Dichlorobenzene | 2.0 " | <MDL | <MDL | 15 | 60 | 16 | 63 |
| 2,4-Dinitrotoluene | 0.5 " | <MDL | <MDL | 25 | 99 | 24 | 98 |
| Nitrobenzene | 2.0 " | <MDL | <MDL | 21 | 85 | 22 | 86 |
| Pentachlorophenol | 1.1 " | <MDL | <MDL | 24 | 96 | 23 | 93 |
| 2,4,5-Trichlorophenol | 0.6 " | <MDL | <MDL | 23 | 91 | 23 | 91 |
| 2,4,6-Trichlorophenol | 1.2 " | <MDL | <MDL | 23 | 92 | 23 | 91 |
| Hexachloroethane | 2.0 " | <MDL | <MDL | 13 | 53 | 14 | 55 |
| Hexachlorobutadiene | 2.0 " | <MDL | <MDL | 14 | 55 | 14 | 56 |
| Hexachlorobenzene | 2.0 " | <MDL | <MDL | 23 | 92 | 22 | 89 |
| Surrogate Recoveries | % | | | | | | |
| d5-Phenol | | 50 | 30 | 27 | 27 | 28 | 28 |
| d5-Nitrobenzene | | 86 | 87 | 85 | 85 | 87 | 87 |
| 2-Fluorobiphenyl | | 66 | 73 | 73 | 73 | 82 | 82 |
| 2,4,6-Tribromophenol | | 77 | 86 | 88 | 88 | 89 | 89 |
| d-14-p-Terphenyl | | 99 | 107 | 99 | 99 | 107 | 107 |

SVOC via 8270C

UC1-12-2004 14:57
 PSC HEALTH/ICHL SERVICES
 1 909 532 1311
 P.00

10/12/04

PASC - Summary of Analysis Pre. Dates

Page MS-6 of 7

Batch Code: 0328MSN3
pH after 3.5 ml of 1N HCl addition 015199 04
Date Analysed: 04/03/29
Date Prepared: 04/03/28

Batch Code: 0328MSV3
pH after extraction (volatiles) 015199 04
Date Analysed: 04/03/29
Date Prepared: 04/03/28

Batch Code: 0330VOH1
Soil pH measured in water 015199 04
Date Analysed: 04/04/02
Date Prepared: 04/03/30

Batch Code: 0330FSA1
Cyanide (Reactive) 015197 04
015199 04
Date Analysed: 04/03/31
Date Prepared: 04/03/30

Batch Code: 0331XX01
Sulphide (Reactive) 015199 04
Date Analysed: 04/03/31
Date Prepared: 04/03/31

Batch Code:
Date Analysed:
Date Prepared:

Batch Code: 0331NDU1
Aroclor-1016 015197 04
015199 04
Date Analysed: 04/03/31
Date Prepared: 04/03/31

10/12/04

PASC - Summary of Analysis Pre. Dates

Batch Code: 0330MBL1
Mercury 015198 04
015200 04
Date Analysed: 04/03/30
Date Prepared: 04/03/30

Batch Code: 0329STL2
Arsenic 015198 04
015200 04
Date Analysed: 04/03/29
Date Prepared: 04/03/29

Batch Code: 0330MGS1
a-Chlordane 015198 04
015200 04
Date Analysed: 04/03/31
Date Prepared: 04/03/30

Batch Code: 0330MGS1
2,4-D (via 8150) 015198 04
015200 04
Date Analysed: 04/03/31
Date Prepared: 04/03/30

Batch Code: 0330DJ02
Benzene 015198 04
015201 04
Date Analysed: 04/03/30
Date Prepared: 04/03/30

Batch Code: 0329TKR1
Pyridine 015198 04
015200 04
Date Analysed: 04/03/30
Date Prepared: 04/03/29

Batch Code: 0329TKR1
Hexachloroethane 015198 04
015200 04
Date Analysed: 04/03/30
Date Prepared: 04/03/29

Date: 10/12/2004
Time: 15:11:20

NATURE'S WAY ENVIRONMENTAL CONSULTANTS
Flash Point
WET CHEMISTRY ANALYSIS

Rept: AN0326

| Client ID | | Manhole11Stockpile#2 | | | | | | | |
|-------------|--------|----------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | Lab ID | A04-2897 | A4289701 | | | | | | |
| Sample Date | | D4/05/2004 | | | | | | | |
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Flashpoint | °F | >200 | 0 | NA | | NA | | NA | |

NA = Not Applicable ND = Not Detected

STL Buffalo

10/12/2004 15:11:20 CT 4007/21/01
SEVEN INCH LAB

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038
Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 19-May-2004
Date Reported: 31-May-2004

Submission No.: 4E0776
Sample No.: 028380-028382

NOTES:

*"-" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

- (1) Insufficient sample for Flashpoint
- (2) MDL Raised due to matrix interference

Certified by: 

| Component | MDL | Units | Manhole | Manhole | Method | Blank | % |
|---|-------|-------|----------------|-------------|-------------|-------------|-------------|
| | | | #11 Comp | #11 Comp | Blank | Spike | Recovery |
| | | | 028382 04 | 028382 04 | 028380 04 | 028380 04 | 028380 04 |
| | | | 18-May-2004 | 18-May-2004 | 18-May-2004 | 18-May-2004 | 18-May-2004 |
| | | | | Duplicate | | | |
| pH after 3.5 ml of 1N HCl addition | | | 3.40 | - | - | - | - |
| pH after extraction (semi-vols/metals) | | | 6.69 | - | - | - | - |
| pH initial (5g + 96.5ml water) | | | 10.04 | - | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | 4.96 | - | - | - | - |
| pH after extraction (volatiles) | | | 6.48 | - | - | - | - |
| pH of extraction fluid (volatiles) | | | 4.96 | - | - | - | - |
| Soil pH measured in water | | | 9.35 | - | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | <1000 | <1000 | 25000 | 100 |
| Sulphide (Reactive) | 20000 | " | 130000 | - | < | < | 95 |
| Flash Point | 0.1 | C | (1) Pending | - | - | - | - |
| Aroclor-1016 | 38 | ug/kg | (2) <150 | - | < | 390 | 97 |
| Aroclor-1221 | 41 | " | <99 | - | < | < | < |
| Aroclor-1232 | 38 | " | <99 | - | < | < | < |
| Aroclor-1242 | 50 | " | <150 | - | < | < | < |
| Aroclor-1248 | 31 | " | <200 | - | < | < | < |
| Aroclor-1254 | 59 | " | <300 | - | < | < | < |
| Aroclor-1260 | 31 | " | <390 | - | < | 400 | 100 |
| Aroclor-1262 | 31 | " | <390 | - | < | < | < |
| Aroclor-1268 | 49 | " | <200 | - | < | < | < |
| Total PCB | 59 | " | <390 | - | < | 790 | 98 |
| Surrogate Recoveries | | % | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 94 | - | 95 | 103 | 103 |
| Decachlorobiphenyl | | | 103 | - | 74 | 79 | 79 |

PASC - Certificate of Analysis

| Component | MDL | Units | Manhole #11 | Manhole #11 | Method | Blank | % | Blank Spike | % |
|--------------------------------|-------|-------|-------------|-------------|-----------|-----------|-----------|-------------|-----------|
| | | | C. utnv | Comp utv | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 028383 04 | 028384 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 |
| | | | 26-May-2004 | 26-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| | | | | | | | | | |
| Mercury | 0.50 | ug/L | < | - | < | < | 100 | - | - |
| Arsenic | 0.250 | mg/L | < | - | < | 1.2 | 99 | - | - |
| Barium | 0.100 | " | 0.39 | - | < | 2.5 | 100 | - | - |
| Cadmium | 0.050 | " | < | - | < | 1.2 | 98 | - | - |
| Chromium | 0.500 | " | < | - | < | 2.4 | 98 | - | - |
| Lead | 0.500 | " | < | - | < | 2.5 | 98 | - | - |
| Selenium | 0.100 | " | < | - | < | 1.3 | 100 | - | - |
| Silver | 0.500 | " | < | - | < | 1.2 | 98 | - | - |
| a-Chlordane | 0.005 | ug/L | <0.021 | - | < | 0.13 | 110 | 0.13 | 100 |
| g-Chlordane | 0.009 | " | <0.032 | - | < | 0.12 | 100 | 0.12 | 98 |
| Endrin | 0.011 | " | <0.039 | - | < | 0.14 | 110 | 0.095 | 80 |
| Heptachlor | 0.005 | " | <0.021 | - | < | 0.11 | 95 | 0.13 | 100 |
| Heptachlor Epoxide | 0.012 | " | <0.050 | - | < | 0.14 | 120 | 0.13 | 110 |
| Lindane | 0.007 | " | <0.032 | - | < | 0.13 | 110 | 0.13 | 110 |
| Methoxychlor | 0.018 | " | <0.12 | - | < | 0.61 | 130 | 0.47 | 98 |
| Toxaphene | 0.116 | " | <0.15 | - | < | NS | - | NS | - |
| Surrogate Recoveries | | % | | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 67 | - | 85 | 61 | 61 | 59 | 59 |
| Decachlorobiphenyl | | | 83 | - | 74 | 75 | 75 | 67 | 67 |
| 2,4-D (via 8150) | 0.39 | ug/L | <3.0 | - | < | 1.9 | 93 | 2.1 | 100 |
| 2,4,5-TP | 0.04 | " | <0.31 | - | < | 0.19 | 94 | 0.22 | 110 |
| Surrogate Recoveries | | % | | | | | | | |
| 2,3-D | | | 83 | - | 78 | 80 | 80 | 93 | 93 |

PASC - Certificate of Analysis

| Component | MDL | Units | Manhole #11 | Manhole #11 | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|-----------|-----------|-----------|-------------|-----------|
| | | | C. utnv | Comp utv | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 028383 04 | 028384 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 |
| | | | 26-May-2004 | 26-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Benzene | 0.5 | ug/L | - | <100 | <100 | 11000 | 110 | - | - |
| 2-Butanone | 5.0 | " | - | <1000 | <1000 | 10000 | 100 | - | - |
| Carbon Tetrachloride | 0.7 | " | - | <140 | <140 | 10000 | 100 | - | - |
| Chlorobenzene | 0.6 | " | - | <120 | <120 | 10000 | 100 | - | - |
| Chloroform | 0.3 | " | - | <60 | <60 | 10000 | 100 | - | - |
| 1,2-Dichloroethane | 0.3 | " | - | <60 | <60 | 9800 | 98 | - | - |
| 1,1-Dichloroethene | 0.7 | " | - | <140 | <140 | 10000 | 110 | - | - |
| Tetrachloroethene | 0.5 | " | - | <100 | <100 | 10000 | 100 | - | - |
| Trichloroethene | 0.3 | " | - | <60 | <60 | 10000 | 100 | - | - |
| Vinyl Chloride | 0.9 | " | - | <180 | <180 | 10000 | 100 | - | - |
| 1,4-Dichlorobenzene | 1.6 | " | - | <320 | <320 | 9500 | 95 | - | - |
| Surrogate Recoveries | | % | | | | | | | |
| d4-1,2-Dichloroethane | | | - | 103 | 102 | 107 | 107 | - | - |
| d8-Toluene | | | - | 101 | 101 | 102 | 102 | - | - |
| 1,4-Bromofluorobenzene | | | - | 101 | 102 | 106 | 106 | - | - |

PASC - Certificate of Analysis

| Component | MDL | Units | Manhole #11 | Method | Blank | % | Blank Spike | % |
|-----------------------|-----|-------|-------------|-----------|-----------|-----------|-------------|-----------|
| | | | C. utnv | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 028383 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 | 028381 04 |
| | | | 26-May-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Pyridine | 5.0 | ug/L | < | < | NS | - | NS | - |
| o-Cresol | 1.7 | " | < | < | 9.8 | 39 | 9.4 | 38 |
| m&p-Cresol | 3.5 | " | < | < | 8.9 | 36 | 8.6 | 34 |
| 1,4-Dichlorobenzene | 2.0 | " | < | < | 16 | 63 | 15 | 59 |
| 2,4-Dinitrotoluene | 0.5 | " | < | < | 22 | 87 | 21 | 85 |
| Nitrobenzene | 2.0 | " | < | < | 20 | 78 | 18 | 73 |
| Pentachlorophenol | 1.1 | " | < | < | 20 | 79 | 19 | 74 |
| 2,4,5-Trichlorophenol | 0.6 | " | < | < | 18 | 73 | 19 | 75 |
| 2,4,6-Trichlorophenol | 1.2 | " | < | < | 19 | 76 | 19 | 77 |
| Hexachloroethane | 2.0 | " | < | < | 14 | 56 | 12 | 49 |
| Hexachlorobutadiene | 2.0 | " | < | < | 16 | 63 | 14 | 57 |
| Hexachlorobenzene | 2.0 | " | < | < | 21 | 82 | 21 | 85 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Phenol | | | 26 | 14 | 16 | 16 | 15 | 15 |
| d5-Nitrobenzene | | | 75 | 78 | 81 | 81 | 72 | 72 |
| 2-Fluorobiphenyl | | | 73 | 77 | 82 | 82 | 80 | 80 |
| 2,4,6-Tribromophenol | | | 79 | 86 | 86 | 86 | 88 | 88 |
| d-14-p-Terphenyl | | | 54 | 73 | 81 | 81 | 86 | 86 |

Batch Code: 0525RGA1
pH after 3.5 ml of 1N HCl addition 028382 04
Date Analysed: 04/05/26
Date Prepared: 04/05/25

Batch Code: 0525RGV1
pH after extraction (volatiles) 028382 04
Date Analysed: 04/05/26
Date Prepared: 04/05/25

Batch Code: 0518VPH1
Soil pH measured in water 028382 04
Date Analysed: 04/05/21
Date Prepared: 04/05/18

Batch Code: 0521FSA1
Cyanide (Reactive) 028380 04
028382 04
Date Analysed: 04/05/25
Date Prepared: 04/05/21

Batch Code: 0521BAA1
Sulphide (Reactive) 028380 04
028382 04
Date Analysed: 04/05/21
Date Prepared: 04/05/21

Batch Code:
Date Analysed:
Date Prepared:

Batch Code: 0526NDU1
Aroclor-1016 028380 04
028382 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26

Batch Code: 0526MBL1
Mercury 028381 04
028383 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26

Batch Code: 0526STL1
Arsenic 028381 04
028383 04
Date Analysed: 04/05/27
Date Prepared: 04/05/26

Batch Code: 0526MGS1
a-Chlordane 028381 04
028383 04
Date Analysed: 04/05/28
Date Prepared: 04/05/26

Batch Code: 0526NDS1
2,4-D (via 8150) 028381 04
028383 04
Date Analysed: 04/05/25
Date Prepared: 04/05/26

Batch Code: 0526MC01
Benzene 028381 04
028384 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26

Batch Code: 0526TKS1
Pyridine 028381 04
028383 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26

Batch Code: 0526TKS1
Hexachloroethane 028381 04
028383 04
Date Analysed: 04/05/26
Date Prepared: 04/05/26



PHC Analysis Report for Soils/Solids/Sludges

Client: NWE&C

Client Job Site: Destro / Union Ship
Client Job Number: N/A
Field Location: Manhole #11 Stockpile
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 04-1777
Lab Sample Number: 6196
Date Sampled: 06/28/2004
Date Received: 06/28/2004
Date Analyzed: 06/30/2004

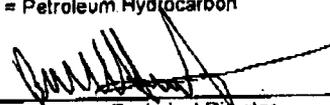
| PHC Classification | Results in ug / Kg |
|--------------------------------------|--------------------|
| Medium Weight PHC as: Diesel Fuel | 783,000 |
| Heavy Weight PHC as: Lube Oil | 286,000 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature:


Bruce Hoogateger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | | | |
|--|------------------------------|---------------|--------------------------------|---|--|
| REPORT TO: | | INVOICE TO: | | LAB PROJECT #: | CLIENT PROJECT #: |
| COMPANY: NWE LLC | ADDRESS: 3553 Crittenden Rd. | COMPANY: Same | ADDRESS: | 04-1777 | |
| CITY: Crittenden, New York 14038 | STATE: NY ZIP: 14038 | CITY: | STATE: | ZIP: | TURNAROUND TIME: (WORKING DAYS) Need results 7/1 PM |
| PHONE: (716) 937-6527 | FAX: 937-9360 | PHONE: | FAX: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> OTHER | |
| PROJECT NAME/SITE NAME: Destro/Union Ship | ATTN: R. Savage | ATTN: | COMMENTS: Please fax report | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINERS | TPH | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|-----------|------|-----------|------|----------------------------|--------|------------|-----|---------|----------------------------|
| 1/6/28/04 | | X | | Mahhole #11 Stockpile Soil | | | X | | 6196 |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 10°

| | | | | |
|---------------------------------|-------------------------|-----------------------------------|-------------------------|-------------|
| Sampled By: James Davey | Date/Time: 6/28/04 9:00 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: James D. Davey | Date/Time: 6/28/04 9:00 | Received By: | Date/Time: | |
| Received By: [Signature] | Date/Time: 6/28/04 | Received @ Lab By: Kelly Crandall | Date/Time: 6/28/04 1642 | P.I.F. |

APPENDIX K

“DUCT BANK” EXCAVATION CONFIRMATION SOIL SAMPLES LABORATORY ANALYTICAL RESULTS

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 18-Mar-2004
Date Reported: 01-Apr-2004

Submission No.: 4C0698

Sample No.: 013069-013072

NOTES:

"-" = not analysed "<" = less than Method Detection Limit (MDL) "NA" = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for biota analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DED/DEF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: _____



Page 1 of 5

PASC - Certificate of Analysis

| Component | MDL | Units | D.B. Sidewall | D.B. Sidewall | D.B. Bottom | Method | Blank | % |
|------------------------|-----|-------|---------------|---------------|-------------|-------------|-------------|-------------|
| | | | West | Middle | Middle | Blank | Spike | Recovery |
| | | | 013070 04 | 013071 04 | 013072 04 | 013069 04 | 013069 04 | 013069 04 |
| | | | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 |
| Benzene | 1.0 | ug/kg | <2.0 | <2.0 | <4.0 | < | 56 | 89 |
| Ethylbenzene | 1.0 | " | <2.0 | <2.0 | <8.0 | < | 61 | 97 |
| Toluene | 1.0 | " | <2.0 | <2.0 | 55 | < | 57 | 92 |
| m&p-Xylene | 1.0 | " | <2.0 | <2.0 | 12 | < | 120 | 99 |
| o-Xylene | 1.0 | " | <2.0 | <2.0 | <8.0 | < | 60 | 96 |
| Xylenes(Total) | 1.0 | " | <2.0 | <2.0 | 12 | < | 180 | 97 |
| Isopropylbenzene | 1.0 | " | <2.0 | <2.0 | <20 | < | 57 | 92 |
| n-Propylbenzene | 1.0 | " | <2.0 | <2.0 | <20 | < | 61 | 98 |
| p-Isopropyltoluene | 1.0 | " | <2.0 | <2.0 | <20 | < | 63 | 100 |
| 1,2,4-Trimethylbenzene | 1.0 | " | <2.0 | 7.0 | 22 | < | 61 | 98 |
| 1,3,5-Trimethylbenzene | 1.0 | " | <2.0 | 2.0 | <20 | < | 62 | 98 |
| n-Butylbenzene | 1.0 | " | <2.0 | <2.0 | <20 | < | 65 | 100 |
| sec-Butylbenzene | 1.0 | " | <2.0 | <2.0 | <20 | < | 64 | 100 |
| tert-Butylbenzene | 1.0 | " | <2.0 | <2.0 | <20 | < | 61 | 97 |
| Naphthalene | 1.0 | " | <2.0 | 7.0 | <20 | < | 62 | 99 |
| Methyl-t-butylether | 1.0 | " | <2.0 | <2.0 | <4.0 | < | NS | - |
| Surrogate Recoveries | | % | | | | | | |
| d4-1,2-Dichloroethane | | | 61 | 68 | 65 | 62 | 65 | 65 |
| d8-Toluene | | | 80 | 80 | 108 | 79 | 75 | 75 |
| Bromofluorobenzene | | | 77 | 80 | 49 | 79 | 80 | 80 |
| d10-Ethylbenzene | | | 77 | 57 | 80 | 96 | 82 | 82 |

PASC - Certificate of Analysis

| Component | MDL | Units | D.B. Sidewall | D.B. Sidewall | D.B. Bottom |
|------------------------|-----|-------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|
| | | | West | Middle | Middle | Middle | Middle | Middle | Middle |
| | | | 013070 04 | 013071 04 | 013072 04 | 013072 04 | 013072 04 | 013072 04 | 013072 04 |
| | | | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 |
| | | | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Naphthalene | 90 | ng/kg | <360 | <360 | <900 | 2000 | 69 | 2200 | 73 |
| Acenaphthene | 70 | " | <280 | <280 | <700 | 2200 | 74 | 2400 | 80 |
| Fluorene | 40 | " | <160 | 370 | <400 | 2300 | 79 | 2400 | 81 |
| Phenanthrene | 30 | " | <120 | 1500 | <300 | 2500 | 85 | 2500 | 83 |
| Anthracene | 60 | " | <240 | <240 | <600 | 2400 | 83 | 2500 | 83 |
| Fluoranthene | 60 | " | <240 | <240 | <600 | 2200 | 74 | 2200 | 73 |
| Pyrene | 40 | " | <160 | 300 | <400 | 3400 | 120 | 3100 | 100 |
| Benz(a)anthracene | 50 | " | <200 | <200 | <500 | 2500 | 87 | 2500 | 83 |
| Chrysene | 40 | " | <160 | <160 | <400 | 2600 | 90 | 2500 | 86 |
| Benzo(b)fluoranthene | 40 | " | <160 | <160 | <400 | 2700 | 91 | 2500 | 83 |
| Benzo(k)fluoranthene | 40 | " | <160 | <160 | <400 | 2600 | 87 | 2400 | 81 |
| Benzo(a)pyrene | 50 | " | <200 | <200 | <500 | 2600 | 89 | 2500 | 83 |
| Indeno(1,2,3-cd)pyrene | 60 | " | <240 | <240 | <600 | 2600 | 88 | 2600 | 89 |
| Dibenzo(ah)anthracene | 50 | " | <200 | <200 | <500 | 2600 | 89 | 2800 | 95 |
| Benzo(ghi)perylene | 60 | " | <240 | <240 | <600 | 2200 | 77 | 2300 | 77 |
| Surrogate Recoveries | | % | | | | | | | |
| d5-Nitrobenzene | | | 57 | 63 | 64 | 70 | 70 | 69 | 69 |
| 2-Fluorobiphenyl | | | 65 | 74 | 76 | 78 | 78 | 77 | 77 |
| d14-p-Terphenyl | | | 105 | 93 | 112 | 128 | 128 | 107 | 107 |

PASC - Certificate of Analysis

| Component | MDL | Units | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 013069 04 | 013069 04 | 013069 04 | 013069 04 | 013069 04 |
| | | | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 | 16-Mar-2004 |
| Naphthalene | 90 | ug/kg | <180 | 3300 | 82 | 3300 | 83 |
| Acenaphthene | 70 | " | <140 | 3300 | 83 | 3300 | 83 |
| Fluorene | 40 | " | <80 | 3300 | 83 | 3300 | 83 |
| Phenanthrene | 30 | " | <60 | 3400 | 84 | 3300 | 84 |
| Anthracene | 60 | " | <120 | 3400 | 85 | 3400 | 85 |
| Fluoranthene | 60 | " | <120 | 3500 | 87 | 3300 | 83 |
| Pyrene | 40 | " | <80 | 3900 | 98 | 3600 | 89 |
| Benz(a)anthracene | 50 | " | <100 | 3500 | 87 | 3400 | 86 |
| Chrysene | 40 | " | <80 | 3400 | 85 | 3400 | 86 |
| Benzo(b)fluoranthene | 40 | " | <80 | 3900 | 96 | 3500 | 88 |
| Benzo(k)fluoranthene | 40 | " | <80 | 3600 | 89 | 3200 | 79 |
| Benzo(a)pyrene | 50 | " | <100 | 3500 | 86 | 3400 | 86 |
| Indeno(1,2,3-cd)pyrene | 60 | " | <120 | 3000 | 74 | 3800 | 94 |
| Dibenzo(ah)anthracene | 50 | " | <100 | 2900 | 73 | 3800 | 95 |
| Benzo(ghi)perylene | 60 | " | <120 | 2800 | 70 | 3500 | 87 |
| Surrogate Recoveries | | % | | | | | |
| d5-Nitrobenzene | | | 70 | 82 | 82 | 81 | 81 |
| 2-Fluorobiphenyl | | | 72 | 83 | 83 | 82 | 82 |
| d14-p-Terphenyl | | | 87 | 99 | 99 | 88 | 88 |

4/1/04

PASC - Summary of Analysis Pre. Dates

Page MS-5 of 5

Batch Code: 0329MC01
Benzene 013069 04
 013070 04
 013071 04
 013072 04
Date Analysed: 04/03/29
Date Prepared: 04/03/29

Batch Code: 0324SPA1 0324SPA1
Naphthalene 013069 04 013070 04
 013071 04
 013072 04
Date Analysed: 04/03/25 04/03/26
Date Prepared: 04/03/24 04/03/24

APPENDIX L

BARIUM “HOT SPOT” PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS AND DISPOSAL FACILITY APPROVAL

Certificate of Analysis

APR 1 7 2004

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038
Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 24-Mar-2004
Date Reported: 07-Apr-2004

Submission No.: 4C0910
Sample No.: 014428-014430

NOTES:

*'' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: _____



Page 1 of 7

| Component | Client ID: | | Method | Method | Method | Soil | Soil |
|---|------------|-------|-------------|-------------|-------------|---------------|-------------|
| | MDL | Units | Blank | Blank | Blank | Stockpile | Stockpile |
| | | | 014428 04 | 014428 04 | 014428 04 | 014430 04 | 014430 04 |
| | | | 22-Mar-2004 | 22-Mar-2004 | 22-Mar-2004 | 22-Mar-2004 | 22-Mar-2004 |
| | | | | | | | Duplicate |
| pH after 3.5 ml of 1N HCl addition | | | - | - | - | 2.35 | - |
| pH after extraction (semi-vols/metals) | | | - | - | - | 7.50 | - |
| pH initial (5g + 96.5ml water) | | | - | - | - | 9.65 | - |
| pH of extraction fluid (semi-vols/metals) | | | - | - | - | 4.93 | - |
| pH after extraction (volatiles) | | | - | - | - | 7.11 | - |
| pH of extraction fluid (volatiles) | | | - | - | - | 4.93 | - |
| Soil pH measured in water | | | - | - | - | 8.41 | 9.02 |
| Cyanide (Reactive) | 500 | ug/kg | - | - | - | <1000 | <1000 |
| Sulphide (Reactive) | 2000 | " | - | - | - | 62000 | - |
| Flash Point | 0.1 | C | - | - | - | Did Not Flash | - |
| Aroclor-1016 | 38 | ug/kg | <MDL | 400 | 100 | <52 | - |
| Aroclor-1221 | 41 | " | <MDL | - | - | <56 | - |
| Aroclor-1232 | 38 | " | <MDL | - | - | <52 | - |
| Aroclor-1242 | 50 | " | <MDL | - | - | <68 | - |
| Aroclor-1248 | 31 | " | <MDL | - | - | 170 | - |
| Aroclor-1254 | 59 | " | <MDL | - | - | <80 | - |
| Aroclor-1260 | 31 | " | <MDL | 440 | 110 | <42 | - |
| Aroclor-1262 | 31 | " | <MDL | - | - | <42 | - |
| Aroclor-1268 | 49 | " | <MDL | - | - | <67 | - |
| Total PCB | 59 | " | <MDL | 840 | 100 | 170 | - |
| Surrogate Recoveries | | % | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 97 | 96 | 96 | 100 | - |
| Decachlorobiphenyl | | | 97 | 107 | 107 | 91 | - |
| pH via SW846 9045 | | | | | | | |
| Cyanide via 7.3.4.1 | | | | | | | |
| Sulphide via 7.3.3.2 | | | | | | | |
| PCB via SW846 8082 | | | | | | | |

PASC - Certificate of Analysis

| Component | MDL | Units | Method | Blank | % | Blank Spike | % | Soil Stockpile |
|--------------------------------|-------|-------|-----------|-----------|-----------|-------------|-----------|----------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery | utnv |
| | | | 014429 04 | 014429 04 | 014429 04 | 014429 04 | 014429 04 | 014431 04 |
| | | | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 29-Mar-2004 |
| Client ID: | | | | | | | | |
| Lab No.: | | | | | | | | |
| Date Sampled: | | | | | | | | |
| Mercury | 0.50 | ug/L | <MDL | 10 | 100 | - | - | <MDL |
| Arsenic | 0.250 | mg/L | <MDL | 1.3 | 110 | - | - | <MDL |
| Barium | 0.100 | " | 0.27 | 2.9 | 110 | - | - | 0.87 |
| Cadmium | 0.050 | " | <MDL | 1.3 | 100 | - | - | <MDL |
| Chromium | 0.500 | " | <MDL | 2.6 | 100 | - | - | <MDL |
| Lead | 0.500 | " | <MDL | 2.6 | 100 | - | - | <MDL |
| Selenium | 0.100 | " | <MDL | 1.4 | 110 | - | - | <MDL |
| Silver | 0.500 | " | <MDL | 1.3 | 100 | - | - | <MDL |
| a-Chlordane | 0.005 | ug/L | <MDL | 0.12 | 97 | 0.11 | 90 | <0.040 |
| g-Chlordane | 0.009 | " | <MDL | 0.11 | 91 | 0.11 | 92 | <0.060 |
| Endrin | 0.011 | " | <MDL | 0.11 | 95 | 0.12 | 96 | <0.073 |
| Heptachlor | 0.005 | " | <MDL | 0.076 | 63 | 0.082 | 68 | <0.040 |
| Heptachlor Epoxide | 0.012 | " | <MDL | 0.12 | 99 | 0.12 | 100 | <0.093 |
| Lindane | 0.007 | " | <MDL | 0.11 | 92 | 0.11 | 91 | <0.060 |
| Methoxychlor | 0.018 | " | <MDL | 0.58 | 120 | 0.61 | 130 | <0.22 |
| Toxaphene | 0.116 | " | <MDL | NS | - | NS | - | <0.27 |
| Surrogate Recoveries | | % | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 63 | 39 | 39 | 40 | 40 | 82 |
| Decachlorobiphenyl | | | 88 | 90 | 90 | 89 | 89 | 91 |
| 2,4-D (via 8150) | 0.39 | ug/L | <MDL | 6.7 | 90 | 7.5 | 100 | <2.8 |
| 2,4,5-TP | 0.04 | " | <MDL | 0.37 | 50 | 0.42 | 56 | <0.29 |
| Surrogate Recoveries | | % | | | | | | |
| 2,3-D | | | 62 | 30 | 30 | 38 | 38 | 80 |

Mercury via SW846 7471
 Metals via SW846 6010
 Pesticides via SW846 8081
 Herbicides via SW846 8151

| Component | Client ID: | | Method | Blank | % | Soil Stockpile |
|------------------------|------------|-------|-----------|-----------|-----------|----------------|
| | MDL | Units | Blank | Spike | Recovery | utv |
| | | | 014429 04 | 014429 04 | 014429 04 | . 014432 04 |
| | | | 01/40/01 | 01/40/01 | 01/40/01 | 29-Mar-2004 |
| Benzene | 0.5 | ug/L | <5.0 | 500 | 100 | <5.0 |
| 2-Butanone | 5.0 | " | <50 | 450 | 90 | <50 |
| Carbon Tetrachloride | 0.7 | " | <7.0 | 520 | 100 | <7.0 |
| Chlorobenzene | 0.6 | " | <6.0 | 500 | 100 | <6.0 |
| Chloroform | 0.3 | " | <3.0 | 510 | 100 | 12 |
| 1,2-Dichloroethane | 0.3 | " | <3.0 | 490 | 99 | <3.0 |
| 1,1-Dichloroethene | 0.7 | " | <7.0 | 500 | 100 | <7.0 |
| Tetrachloroethene | 0.5 | " | <5.0 | 500 | 100 | <5.0 |
| Trichloroethene | 0.3 | " | <3.0 | 510 | 100 | <3.0 |
| Vinyl Chloride | 0.9 | " | <9.0 | 590 | 120 | <9.0 |
| 1,4-Dichlorobenzene | 1.6 | " | <16 | 510 | 100 | <16 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 102 | 106 | 106 | 101 |
| d8-Toluene | | | 102 | 104 | 104 | 102 |
| 1,4-Bromofluorobenzene | | | 102 | 105 | 105 | 101 |

VOC via SW846 8260

PASC - Certificate of Analysis

| Component | MDL | Units | Method | Blank | % | Blank Spike | % | Soil Stockpile |
|-----------------------|-----|-------|-----------|-----------|-----------|-------------|-----------|----------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery | utnv |
| | | | 014429 04 | 014429 04 | 014429 04 | 014429 04 | 014429 04 | 014431 04 |
| | | | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 29-Mar-2004 |
| Client ID: | | | | | | | | |
| Lab No.: | | | | | | | | |
| Date Sampled: | | | | | | | | |
| Pyridine | 5.0 | ug/L | <MDL | NS | - | NS | - | <MDL |
| o-Cresol | 1.7 | " | <MDL | 16 | 63 | 17 | 66 | <MDL |
| m&p-Cresol | 3.5 | " | <MDL | 16 | 63 | 16 | 65 | <MDL |
| 1,4-Dichlorobenzene | 2.0 | " | <MDL | 15 | 60 | 16 | 63 | <MDL |
| 2,4-Dinitrotoluene | 0.5 | " | <MDL | 25 | 99 | 24 | 98 | <MDL |
| Nitrobenzene | 2.0 | " | <MDL | 21 | 85 | 22 | 86 | <MDL |
| Pentachlorophenol | 1.1 | " | <MDL | 24 | 96 | 23 | 93 | <MDL |
| 2,4,5-Trichlorophenol | 0.6 | " | <MDL | 23 | 91 | 23 | 91 | <MDL |
| 2,4,6-Trichlorophenol | 1.2 | " | <MDL | 23 | 92 | 23 | 91 | <MDL |
| Hexachloroethane | 2.0 | " | <MDL | 13 | 53 | 14 | 55 | <MDL |
| Hexachlorobutadiene | 2.0 | " | <MDL | 14 | 55 | 14 | 56 | <MDL |
| Hexachlorobenzene | 2.0 | " | <MDL | 23 | 92 | 22 | 89 | <MDL |
| Surrogate Recoveries | | % | | | | | | |
| d5-Phenol | | | 30 | 27 | 27 | 28 | 28 | 42 |
| d5-Nitrobenzene | | | 87 | 85 | 85 | 87 | 87 | 73 |
| 2-Fluorobiphenyl | | | 73 | 73 | 73 | 82 | 82 | 57 |
| 2,4,6-Tribromophenol | | | 86 | 88 | 88 | 89 | 89 | 78 |
| d-14-p-Terphenyl | | | 107 | 99 | 99 | 107 | 107 | 93 |

SVOC via SW846 8270

Batch Code: 0328MSN1
pH after 3.5 ml of 1N HCl addition 014430 04
Date Analysed: 04/03/29
Date Prepared: 04/03/28

Batch Code: 0328MSV1
pH after extraction (volatiles) 014430 04
Date Analysed: 04/03/29
Date Prepared: 04/03/28

Batch Code: 0324VPH1
Soil pH measured in water 014430 04
Date Analysed: 04/03/29
Date Prepared: 04/03/24

Batch Code: 0325FSA2
Cyanide (Reactive) 014430 04
Date Analysed: 04/03/25
Date Prepared: 04/03/25

Batch Code: 0402XX01
Sulphide (Reactive) 014430 04
Date Analysed: 04/04/02
Date Prepared: 04/04/02

Batch Code: 0402RGA1
Flash Point 014430 04
Date Analysed: 04/04/02
Date Prepared: 04/04/02

Batch Code: 0331NDU1
Aroclor-1016 014428 04
014430 04
Date Analysed: 04/03/31
Date Prepared: 04/03/31

Batch Code: 0330MBL1
Mercury 014429 04
014431 04
Date Analysed: 04/03/30
Date Prepared: 04/03/30

Batch Code: 0329STL2
Arsenic 014429 04
014431 04
Date Analysed: 04/03/29
Date Prepared: 04/03/29

Batch Code: 0330MGS1
a-Chlordane 014429 04
014431 04
Date Analysed: 04/03/31
Date Prepared: 04/03/30

Batch Code: 0330MGS1
2,4-D (via 8150) 014429 04
014431 04
Date Analysed: 04/03/31
Date Prepared: 04/03/30

Batch Code: 0405DJ01
Benzene 014429 04
014432 04
Date Analysed: 04/04/05
Date Prepared: 04/04/05

Batch Code: 0329TKR1
Pyridine 014429 04
014431 04
Date Analysed: 04/03/30
Date Prepared: 04/03/29

Batch Code: 0329TKR1
Hexachloroethane 014429 04
014431 04
Date Analysed: 04/03/30
Date Prepared: 04/03/29



ANALYTICAL SERVICES
5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
Tel: (905) 332-8788
Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NIWECTC
Project Manager: RUSS SAVAGE
Address: 3553 CRITTENDEN RD
CRITTENDEN NY 14038
Phone #: 716-937-6527 Fax #: 716-937-9360
Sampled by: CON NEUBAUER

MS-014429
MW-014429

Philip Use Only

Field Sample ID # Bottles Matrix Date Time

014430 - 32 BARIUM CONTAMINATED
SOIL STOCKPILE

1 S 3/22/04

FULL TCLP
incl. PESTS + HERBS.

+ PCB'S

CORROSIVITY

IGNITABILITY / FLASH POINT

REACTIVITY

Level of contamination
(low, high, unknown)

250AL

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact Lab

- STD 10 Business Days
- RUSH 5 Business Days
- RUSH 2 Business Days
- RUSH 1 Business Days
- Other Business Days

PROJECT INFORMATION

Project #: _____
Site: UNION SHIP
PO#: _____
Philip Quote #: _____
Philip Project #: _____
Philip Contact: _____

SPECIAL DETECTION LIMITS

MISA

SPECIAL REQUIREMENTS / REGULATIONS

REMARKS

Rec'd By: _____
Date/Time: _____

Client Signature: James J. Gasbarr
Affiliation: NIWECTC, Inc.
Date/Time: _____

Received By: [Signature]
Affiliation: _____
Date/Time: 3-24-4 8:45

04/13/2004 14:27 FAX
04/13/2004 11:00 FAX

003
41003



WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO

Profile Number: WMI

VA 7384

Hazardous Non-Hazardous TSCA

Renewal Date:

12/1/04

- 1. Generator Name: Development Downtown, Inc.
- 2. SIC Code: _____
- 3. Facility Street Address: Commerce Drive
- 4. Phone: (716) 836-8625
- 5. Facility City: Buffalo, NY
- 6. State/Province: New York
- 7. Zip/Postal Code: 14203
- 8. Generator USEPA/Federal ID #: NI
- 9. County: Erie
- 10. State/Province ID #: NA
- 11. Customer Name: Nature's Way Environmental
- 12. Customer Phone: (716) 937-1521
- 13. Customer Contact: R. Savage/G. Weber
- 14. Customer Fax: 937-2360
- 15. Billing Address: 3533 Crittenden Rd. Crittenden, New York 14028

- 1. Description
 - a. Name of Waste: Soil Contaminated with Barium
 - b. Process Generating Waste: Excavation of Barium impacted soil identified during previous site investigation.

| | | | | |
|-------------------------------|---|---|---|--|
| c. Color <u>Brown/gray</u> | d. Strong odor (describe): <u>NA</u> | e. Physical state @ 70°F <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other | f. Layers <input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-layer | g. Free liquid range <u>NA</u> % h. pH Range <u>5.5</u> % |
|-------------------------------|---|---|---|--|

- i. Liquid Flash Point: <73°F 73-99°F 100-139°F 140-189°F ≥ 200°F Not applicable
- j. Chemical Composition (List all constituents including halogenated organics, debris, and UHC's) present in any concentration and its best representative analysis):

| Constituents | Concentration Range | Constituents | Concentration Range |
|-------------------------|----------------------|--------------|---------------------|
| <u>Soil & Stone</u> | <u>> 99.9 %</u> | | |
| <u>Barium</u> | <u>< 0.0001 %</u> | | |

- k. Oxidizer Pyrophoric Explosive Radioactive
 Carcinogen Infectious Shock Sensitive Water Reactive

- l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.) YES NO
- m. Does the waste represented by this profile contain dioxins? (list in Section B.1.) YES NO
- n. Does the waste represented by this profile contain asbestos? YES NO
If yes, friable non-friable
- o. Does the waste represented by this profile contain benzene? YES NO
If yes, concentration _____ ppm
Is the waste subject to the benzene waste operations NESHAP? YES NO
- p. Is the waste subject to RCRA Subpart CC controls? YES NO
If yes, volatile organic concentration _____ ppmw
- q. Does the waste contain any Class I or Class II ozone-depleting substances? YES NO
- r. Does the waste contain debris? (list in Section B.1.) YES NO

2. Quantity of Waste
Estimated Annual Volume < 100 Tons Yards Drums Other specify)

- 3. Shipping Information
 - a. Packaging: Bulk Solid; Type/Size: Dump Truck/Trailer Bulk Liquid; Type/Size: _____
 Drum; Type/Size: _____ Other: _____
 - b. Shipping Frequency: Units < 100 Tons Per: Month Quarter Year One time Other
 - c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) YES NO
 - d. Reportable Quantity (lbs.; kgs.): _____
 - e. Hazard Class/ID #: _____
 - f. USDOT Shipping Name: _____

04/13/2004 14:27 FAX

004
004



GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA - Tarp Load for Transport
h. Transporter & Transporter Number Zuladz Construction Co. - 9A-499

- Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2.
 - If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U) YES NO
 - If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section B.1.)
 - Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.) YES NO
- Is this a state hazardous waste? Identify ALL state hazardous/non hazardous waste codes YES NO
- Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation. YES NO
- Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? YES NO
- Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.)
 - If yes, were the PCBs imported into the U.S.? YES NO
- Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
- Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMM to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has verified the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and form 4's for the waste that has been characterized and identified by this approved profile.

Certification Signature: [Signature] Title: Director of Urban Development
Name (Type or Print): Thomas M. Chappin Company Name: EC204/D&E Date: 4/19/04
 Check if additional information is attached. Indicate the number of attached pages _____

| | | | | |
|---|--|---|---|---------------------------------------|
| 1. Management Method | <input checked="" type="checkbox"/> Landfill | <input type="checkbox"/> Non-hazardous Solidification | <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Incineration |
| | <input type="checkbox"/> Hazardous Stabilization | <input type="checkbox"/> Other (Specify) | | |
| 2. Proposed Ultimate Management Facility: | <u>Chaffee Landfill</u> | | | |
| 3. Precautions, Special Handling Procedures, or Limitation on Approval: | <u>Material may be used as daily cover</u> | | | |
| 4. Waste Form | a. Source | | b. System Type | |
| Special Waste Decision | | | <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved | |
| Salesperson's Signature: | | | Date: | |
| NYSDEC Region 9 Approval: | | | Date: | |
| Special Waste Approvals Person Signature: | <u>[Signature]</u> | | Date: <u>4/19/04</u> | |

APPENDIX M

CYANIDE “HOT SPOT” PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS AND DISPOSAL FACILITY APPROVAL

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 06-Apr-2004
Date Reported: 15-Apr-2004

Submission No.: 4D0197

Sample No.: 017592-017594

NOTES:

"-" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for biota analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 8

PASC - Certificate of Analysis

| Component | Client ID: | | Cyanide | Cyanide | Cyanide | Cyanide | Cyanide | Cyanide |
|---|------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | MDL | Units | Area | Area | Area | Area | Area | Area |
| | | | 017594 04 | 017594 04 | 017594 04 | 017594 04 | 017594 04 | 017594 04 |
| | | | 31-Mar-2004 | 31-Mar-2004 | 31-Mar-2004 | 31-Mar-2004 | 31-Mar-2004 | 31-Mar-2004 |
| | | | | Duplicate | M. Spike | MS % Rec. | MS Dup | MSD % Rec. |
| pH after 3.5 ml of 1N HCl addition | | | 1.97 | - | - | - | - | - |
| pH after extraction (semi-vols/metals) | | | 5.88 | - | - | - | - | - |
| pH initial (5g + 96.5ml water) | | | 8.86 | - | - | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | 4.90 | - | - | - | - | - |
| pH after extraction (volatiles) | | | 6.31 | - | - | - | - | - |
| pH of extraction fluid (volatiles) | | | 4.90 | - | - | - | - | - |
| Soil pH measured in water | | | 8.71 | 8.79 | - | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | - | - | - | - | - |
| Sulphide (Reactive) | 2000 | " | < MDL | - | - | - | - | - |
| Flash Point | 0.1 | °C | >90 | - | - | - | - | - |
| Aroclor-1016 | 38 | ug/kg | < MDL | NA | 1200 | 110 | 1100 | 110 |
| Aroclor-1221 | 41 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1232 | 38 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1242 | 50 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1248 | 31 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1254 | 59 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1260 | 31 | " | < MDL | NA | 1200 | 110 | 1100 | 110 |
| Aroclor-1262 | 31 | " | < MDL | NA | NS | - | NS | - |
| Aroclor-1268 | 49 | " | < MDL | NA | NS | - | NS | - |
| Total PCB | 59 | " | < MDL | NA | 2300 | 110 | 2200 | 110 |
| Surrogate Recoveries | | % | | | | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 62 | NA | 70 | 70 | 62 | 62 |
| Decachlorobiphenyl | | | 72 | NA | 91 | 91 | 79 | 79 |
| Reactive Sulphide via 7.3.3.2 | | | | | | | | |
| PCB via SW846 8082 | | | | | | | | |
| Flash Point via Pensky-Martin | | | | | | | | |
| Reactive Cyanide via 7.3.4.1 | | | | | | | | |
| pH via SW846 9045 | | | | | | | | |

PASC - Certificate of Analysis

| Component | MDL | Units | Method | Blank | Method |
|--|------|-------|-------------|-------------|-------------|
| | | | Blank | Spike | Blank |
| | | | 017592 04 | 017592 04 | 017592 04 |
| | | | 31-Mar-2004 | 31-Mar-2004 | 31-Mar-2004 |
| Client ID: Lab No.: Date Sampled: | | | | | |
| pH after 3.5 ml of 1N HCl addition | | | - | - | - |
| pH after extraction (semi-vols/metals) | | | - | - | - |
| pH initial (5g + 96.5ml water) | | | - | - | - |
| pH of extraction fluid (semi-vols/metals) | | | - | - | - |
| pH after extraction (volatiles) | | | - | - | - |
| pH of extraction fluid (volatiles) | | | - | - | - |
| Soil pH measured in water | | | - | - | - |
| Cyanide (Reactive) | 500 | ug/kg | <1000 | 26000 | 100 |
| Sulphide (Reactive) | 2000 | " | - | - | - |
| Flash Point | 0.1 | °C | - | - | - |
| Aroclor-1016 | 38 | ug/kg | < MDL | 460 | 120 |
| Aroclor-1221 | 41 | " | < MDL | NS | - |
| Aroclor-1232 | 38 | " | < MDL | NS | - |
| Aroclor-1242 | 50 | " | < MDL | NS | - |
| Aroclor-1248 | 31 | " | < MDL | NS | - |
| Aroclor-1254 | 59 | " | < MDL | NS | - |
| Aroclor-1260 | 31 | " | < MDL | 480 | 120 |
| Aroclor-1262 | 31 | " | < MDL | NS | - |
| Aroclor-1268 | 49 | " | < MDL | NS | - |
| Total PCB | 59 | " | < MDL | 950 | 120 |
| Surrogate Recoveries | | % | | | |
| 4,4'-Dibromooctafluorobiphenyl | | | 64 | 70 | 70 |
| Decachlorobiphenyl | | | 82 | 89 | 89 |
| Reactive Sulphide via 7.3.3.2 | | | | | |
| PCB via SW846 8082 | | | | | |
| Flash Point via Pensky-Martin | | | | | |
| Reactive Cyanide via 7.3.4.1 | | | | | |
| pH via SW846 9045 | | | | | |

| Component | MDL | Units | Cyanide Area | Method | Blank | % |
|------------------------|-----|-------|--------------|-----------|-----------|-----------|
| | | | utv | Blank | Spike | Recovery |
| | | | 017596 04 | 017593 04 | 017593 04 | 017593 04 |
| | | | 08-Apr-2004 | 01/40/01 | 01/40/01 | 01/40/01 |
| Benzene | 0.5 | ug/L | <100 | <100 | 10000 | 100 |
| 2-Butanone | 5.0 | " | <1000 | <1000 | 9000 | 90 |
| Carbon Tetrachloride | 0.7 | " | <140 | <140 | 10000 | 100 |
| Chlorobenzene | 0.6 | " | <120 | <120 | 10000 | 100 |
| Chloroform | 0.3 | " | <60 | <60 | 9800 | 98 |
| 1,2-Dichloroethane | 0.3 | " | <60 | <60 | 9800 | 98 |
| 1,1-Dichloroethene | 0.7 | " | <140 | <140 | 9900 | 99 |
| Tetrachloroethene | 0.5 | " | <100 | <100 | 11000 | 110 |
| Trichloroethene | 0.3 | " | <60 | <60 | 9900 | 99 |
| Vinyl Chloride | 0.9 | " | <180 | <180 | 12000 | 120 |
| 1,4-Dichlorobenzene | 1.6 | " | <320 | <320 | 11000 | 110 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 98 | 100 | 109 | 109 |
| d8-Toluene | | | 99 | 100 | 97 | 97 |
| 1,4-Bromofluorobenzene | | | 100 | 100 | 107 | 107 |
| VOC via SW846 8260 | | | | | | |

PASC - Certificate of Analysis

| Component | MDL | Units | Cyanide Area utnv | Method | Blank | % | Blank Spike | % |
|-----------------------|-----|-------|----------------------|-----------|-----------|-----------|-------------|-----------|
| | | | | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 017595 04 | 017593 04 | 017593 04 | 017593 04 | 017593 04 | 017593 04 |
| | | | 08-Apr-2004 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 | 01/40/01 |
| Pyridine | 5.0 | ug/L | <10 | < MDL | NS | - | NS | - |
| o-Cresol | 1.7 | " | <3.4 | < MDL | 18 | 70 | 12 | 48 |
| m&p-Cresol | 3.5 | " | <7.0 | < MDL | 16 | 63 | 11 | 44 |
| 1,4-Dichlorobenzene | 2.0 | " | <4.0 | < MDL | 17 | 67 | 12 | 48 |
| 2,4-Dinitrotoluene | 0.5 | " | <1.0 | < MDL | 26 | 100 | 25 | 100 |
| Nitrobenzene | 2.0 | " | <4.0 | < MDL | 23 | 93 | 18 | 73 |
| Pentachlorophenol | 1.1 | " | <2.2 | < MDL | 26 | 100 | 24 | 98 |
| 2,4,5-Trichlorophenol | 0.6 | " | <1.2 | < MDL | 24 | 96 | 22 | 86 |
| 2,4,6-Trichlorophenol | 1.2 | " | <2.4 | < MDL | 24 | 97 | 21 | 84 |
| Hexachloroethane | 2.0 | " | <4.0 | < MDL | 16 | 63 | 10 | 42 |
| Hexachlorobutadiene | 2.0 | " | <4.0 | < MDL | 19 | 76 | 14 | 55 |
| Hexachlorobenzene | 2.0 | " | <4.0 | < MDL | 26 | 100 | 24 | 96 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Phenol | | | 44 | 43 | 30 | 30 | 21 | 21 |
| d5-Nitrobenzene | | | 94 | 93 | 94 | 94 | 73 | 73 |
| 2-Fluorobiphenyl | | | 82 | 82 | 94 | 94 | 74 | 74 |
| 2,4,6-Tribromophenol | | | 95 | 94 | 99 | 99 | 91 | 91 |
| d-14-p-Terphenyl | | | 86 | 95 | 98 | 98 | 92 | 92 |
| SVOC via SW846 8270 | | | | | | | | |

PSC Analytical Services

CERTIFICATE OF ANALYSIS - SECTION 2

ANALYTICAL RESULTS

Client:(1353) PSC Analytical Services(BURLINGTON). BURLINGTON

Reported:15-Apr-2004

Page: 1 of 1

| | | | |
|-------------------|--------------------|-----------------|-------------|
| Attention: | MS. ELAINE COUSINS | Purchase Order: | 33847MC |
| Client Reference: | | Date Received: | 12-Apr-2004 |
| Work Order: | 115874 | Sample Type: | Liquid |

| Sample # | Test | Result | Units | EQL | Comment |
|----------|------|--------|-------|-----|---------|
|----------|------|--------|-------|-----|---------|

| | | |
|------------|--|----------------------------------|
| 04-B009197 | Sample Description: CYANIDE AREA (17594) | Date & Time Sampled: 31-Mar-2004 |
| | Sulphide as S | 0.19 mg/L 0.02 |

EQL Estimated Quantitation Limit
Refer to the cover page for a list of report contents.



Client: PSC Analytical Services(BURLINGTON)

Client Reference:

Work Order: 115874

Sample Description

Date Sampled

Time Sampled

Parameter

Sulphide as S

Units

mg/L

EQL

0.02

CYANIDE AREA (17594)

31-Mar-04

04-B009197

0.19

Batch Code: 0407RGA1
pH after 3.5 ml of 1N HCl addition 017594 04
Date Analysed: 04/04/08
Date Prepared: 04/04/07

Batch Code: 0407RGV1
pH after extraction (volatiles) 017594 04
Date Analysed: 04/04/08
Date Prepared: 04/04/07

Batch Code: 0408VPH1
Soil pH measured in water 017594 04
Date Analysed: 04/04/12
Date Prepared: 04/04/08

Batch Code: 0408FSA1
Cyanide (Reactive) 017592 04
017594 04
Date Analysed: 04/04/08
Date Prepared: 04/04/08

Batch Code:
Date Analysed:
Date Prepared:

Batch Code: 0408RGA1
Flash Point 017594 04
Date Analysed: 04/04/08
Date Prepared: 04/04/08

Batch Code: 0412NDU1
Aroclor-1016 017592 04
017594 04
Date Analysed: 04/04/12
Date Prepared: 04/04/12

Batch Code: 0408MBL1
Mercury 017593 04
017595 04
Date Analysed: 04/04/08
Date Prepared: 04/04/08

Batch Code: 0408STL1
Arsenic 017593 04
017595 04
Date Analysed: 04/04/08
Date Prepared: 04/04/08

Batch Code: 0408MGS1
a-Chlordane 017593 04
017595 04
Date Analysed: 04/04/12
Date Prepared: 04/04/08

Batch Code: 0408NDR1
2,4-D (via 8150) 017593 04
017595 04
Date Analysed: 04/04/13
Date Prepared: 04/04/08

Batch Code: 0408MC01
Benzene 017593 04
017596 04
Date Analysed: 04/04/08
Date Prepared: 04/04/08

Batch Code: 0408TKR1
Pyridine 017593 04
017595 04
Date Analysed: 04/04/13
Date Prepared: 04/04/08

Batch Code: 0408TKR1
Hexachloroethane 017593 04
017595 04
Date Analysed: 04/04/13
Date Prepared: 04/04/08

PHC Analysis Report for Soils/Solids/Sludges

Client: **NWEC&C**

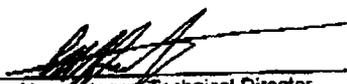
| | | | |
|--------------------|------------------------|---------------------|------------|
| Client Job Site: | Destro / Union Ship | Lab Project Number: | 04-1779 |
| | | Lab Sample Number: | 6198 |
| Client Job Number: | N/A | Date Sampled: | 06/28/2004 |
| Field Location: | Cyanide Area Stockpile | Date Received: | 06/28/2004 |
| Field ID Number: | N/A | Date Analyzed: | 06/28/2004 |
| Sample Type: | Soil | | |

| PHC Classification | Results in ug / Kg |
|----------------------------------|--------------------|
| Heavy Weight PHC as: Lube Oil | 59.500 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: 
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|----------------------------------|-------------------|---------------------------------|--------------------------------|
| REPORT TO: | | INVOICE TO: | |
| COMPANY: NWECTC | COMPANY: SAME | LAB PROJECT #: | CLIENT PROJECT #: |
| ADDRESS: 3553 Crittenden Rd. | ADDRESS: | 04-1779 | |
| CITY: Crittenden, New York 14038 | CITY: STATE: ZIP: | TURNAROUND TIME: (WORKING DAYS) | |
| PHONE: (716) 937-6527 | FAX: 937-9360 | Need Results 7/1 PM | |
| ATTN: R. Savage | ATTN: | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| COMMENTS: Please fax report | | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> |
| | | 5 <input type="checkbox"/> | OTHER <input type="checkbox"/> |

PROJECT NAME/SITE NAME:
Destro/Union Ship

REQUESTED ANALYSIS

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNT NUMBERS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------|------|-----------|------|--------------------------|--------|---------------|---------|----------------------------|
| 16/28/04 | | X | | Cyanide Area Stockpile | Soil | X | | 6198 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 10°

| | | | | |
|--------------------------|-------------------------|----------------------------------|-------------------------|-------------|
| Sampled By: James Davey | Date/Time: 6/28/04 9:00 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Received By: [Signature] | Date/Time: 6/28/04 | Received @ Lab By: Kelly Randall | Date/Time: 6/28/04 1705 | P.I.F.: |

05/19/2004 11:24 FAX 8586525

ECIDA

002/003
003



WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO

Profile Number: WMI CW8122

Hazardous Non-Hazardous TSCA

Renewal Date: 12/1/04

- 1. Generator Name: Development Downtown, Inc.
- 2. SIC Code: _____
- 3. Facility Street Address: Commerce Drive
- 4. Phone: (716) _____
- 5. Facility City: Buffalo
- 6. State/Province: New York
- 7. Zip/Postal Code: 14203
- 8. Generator USEPA/Federal ID #: NA
- 9. County: Eric
- 10. State/Province ID #: NA
- 11. Customer Name: Nature's Way Environmental
- 12. Customer Phone: (716) 937-6527
- 13. Customer Contact: R. Savage/K. Weber
- 14. Customer Fax: 937-9360
- 15. Billing Address: 3593 Crittenden Rd., Crittenden, New York 14238

Waste Stream Information

- 1. Description
 - a. Name of Waste: Soil Contaminated with Cyanide (ND <math>< 1 \text{ ppm}</math>)
 - b. Process Generating Waste: Historic industrial operations. Investigation of site identified elevated levels of cyanide in a discrete area. This area was excavated and stockpiled pending disposal.

| | | | | |
|-------------------------------|---|---|---|--|
| a. Color <u>Brown/Gray</u> | d. Strong odor (describe): <u>NA</u> | e. Physical state @ 70°F <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other | f. Layers <input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-layer | g. Free liquid range <u>NA</u> No Free Liquid h. pH Range |
|-------------------------------|---|---|---|--|

- i. Liquid Flash Point: <math>< 73^\circ\text{F}</math> 73-99°F 100-138°F 140-199°F $\geq 200^\circ\text{F}$ Not applicable
- j. Chemical Composition (List all constituents including halogenated organics, debris, and UHC's present in any concentration and submit representative analysis):

| Constituents | Concentration Range | Constituents | Concentration Range |
|-------------------------------|---------------------|--------------|---------------------|
| <u>Soil + Stone</u> | <u>> 99%</u> | | |
| <u>Cyanide (see analysis)</u> | <u>< 0.001%</u> | | |
| <u>ND at 1ppm</u> | | | |

- k. Oxidizer Pyrophoric Explosive Radioactive
 Carcinogen Infectious Shock Sensitive Water Reactive

- l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.) YES NO
- m. Does the waste represented by this profile contain dioxins? (list in Section B.1.) YES NO
- n. Does the waste represented by this profile contain asbestos? YES NO
- o. Does the waste represented by this profile contain benzene? YES NO
If yes, concentration _____ ppm
Is the waste subject to the benzene waste operations NESHAP? YES NO
- p. Is the waste subject to RCRA Subpart CC controls? YES NO
If yes, volatile organic concentration _____ ppmw
- q. Does the waste contain any Class I or Class II ozone-depleting substances? YES NO
- r. Does the waste contain debris? (list in Section B.1.) YES NO

- 2. Quantity of Waste
Estimated Annual Volume: 80 tons Tons Yards Drums Other specify)
- 3. Shipping Information
 - a. Packaging: Bulk Solid; Type/Size: Dump Truck Bulk Liquid; Type/Size: _____
 Drum; Type/Size: _____ Other: _____
 - b. Shipping Frequency: Units 80 Tons Per Month Quarter Year One time
 - c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (if no, skip d, e, and f) YES NO
 - d. Reportable Quantity (lbs.: kg.): _____ e. Hazard Class/ID #: _____
 - f. USDOT Shipping Name: _____

05/18/2004 11:25 FAX 8568525

ECIDA

003/003
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WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

CW8122

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA - Tarp Load For Transport

h. Transporter & Transporter Number Zoladz Construction Co. Inc # 9A-997

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
 - a. If yes, Identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U) _____
 - b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCU) apply? (If yes, list in Section B.1.) YES NO
 - c. Does this waste contain debris? (If yes, list size and type in Chemical Composition - B.1.) YES NO
- 2. Is this a state hazardous waste? _____ YES NO
Identify ALL state hazardous/non hazardous waste codes _____
- 3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? _____ YES NO
If yes, attach Record of Decision (ROD), 104103 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
- 4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? _____ YES NO
- 5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (If yes, list in Chemical Composition - B.1.) _____ YES NO
a. If yes, were the PCBs imported into the U.S.? _____ YES NO
- 6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
- 7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMA to obtain a sample from any waste shipment for purposes of re-certification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and fees for the waste that has been characterized and identified by this approved profile.

Certification Signature: David A. Stebbins Title: TRAVELER PRESIDENT
Name (Type or Print): DAVID A. STEBBINS Company Name: TRAVELER INDUSTRIES Date: 5/19/04
 Check if additional information is attached. Indicate the number of attached pages: 10

Waste Management's Disposal FRUITVILLE ERMELY

1. Management Method Landfill Non-hazardous Solidification Bioremediation Incineration
 Hazardous Stabilization Other (Specify) _____

2. Proposed Ultimate Management Facility: Chaffee Landfill

3. Precautions, Special Handling Procedures, or Limitation or Approval:
Material may be used as fuel

4. Waste Form _____ 5. Source _____ 6. System Type A.D.S.
 Approved Disapproved

Special Waste Decision: _____ Date: _____
Salesperson's Signature: _____ Date: _____
NYSDEC Region 9 Approval: _____ Date: _____
Special Waste Approvals Person Signature: Jim D. Callahan Date: 5/20/04

APPENDIX N

UNDERGROUND STORAGE TANK NO. 1 PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS, DISPOSAL FACILITY APPROVAL, AND EXCAVATION CONFIRMATION SOIL SAMPLES LABORATORY ANALYTICAL RESULTS

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
 Crittenden, NY
 14038

Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 26-Mar-2004
Date Reported: 06-Apr-2004
Revision Date: 15-Apr-2004
Submission No.: 4C1023
Sample No.: 015243-015244

NOTES:

'- ' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analytes are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analytes)
 The enclosed copy of the Chain of Custody Record may contain information necessary for the
 interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Revised to include Flashpoint

Certified by: _____



Page 1 of 4

PASC - Certificate of Analysis

| Component | MDL | Units | 1000 GTE | 1000 GTE | 1000 GTE | Method | Blank | % |
|------------------------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | Soil tv | Soil tv | Soil tv | Blank | Spike | Recovery |
| | | | 016116 04 | 016117 04 | 016117 04 | 015243 04 | 015243 04 | 015243 04 |
| | | | 02-Apr-2004 | 02-Apr-2004 | 02-Apr-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 |
| | | | Duplicate | | | | | |
| Lead | 0.020 | mg/L | 0.028 | - | - | <MDL | - | - |
| Benzene | 0.5 | ug/L | - | 43 | 44 | <5.0 | 500 | 100 |
| Surrogate Recoveries | | % | | | | | | |
| d4-1,2-Dichloroethane | | | - | 102 | 101 | 102 | 106 | 106 |
| d8-Toluene | | | - | 99 | 99 | 99 | 102 | 102 |
| 1,4-Bromofluorobenzene | | | - | 101 | 101 | 100 | 107 | 107 |
| Benzene via 8260 | | | | | | | | |
| Lead via 6010 | | | | | | | | |

4/15/04

PASC - Summary of Analysis Pre. Dates

Page MS-4 of 4

Batch Code: 0401RGA1
pH after 3.5 ml of 1N HCl addition 015244 04
Date Analysed: 04/04/02
Date Prepared: 04/04/01

Batch Code: 0401RGV1
pH after extraction (volatiles) 015244 04
Date Analysed: 04/04/02
Date Prepared: 04/04/01

Batch Code: 0402STA1
Lead 015243 04

Date Analysed: 04/04/02
Date Prepared: 04/04/02

Batch Code: 0402RGA2
Flash Point 015244 04
Date Analysed: 04/04/02
Date Prepared: 04/04/02

Batch Code: 0402DJ01
Benzene 015243 04
Date Analysed: 04/04/02
Date Prepared: 04/04/02

04/14/2004 06:41 FAX
04/07/2004 11:58 FAX

003
61014



WASTE MANAGEMENT GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

VA 7286

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO

Profile Number: WMI

Hazardous Non-Hazardous TSCA

Renewal Date: 12/1/04

1. Generator Name: Development Downtown, Inc. 2. SIC Code: _____

3. Facility Street Address: Commerce Drive 4. Phone: (716) 856-8625

5. Facility City: Buffalo 6. State/Province: New York

7. Zip/Postal Code: 14203 8. Generator USEPA/Federal ID #: _____

9. County: Erie 10. State/Province ID #: _____

11. Customer Name: Nature's Way Environmental 12. Customer Phone: (716) 937-527

13. Customer Contact: R. Savage / G. Weber 14. Customer Fax: 937-360

15. Billing Address: 3553 Crittendon Rd. Crittendon, New York 14038 Same as above

1. Description

a. Name of Waste: Soil Contaminated with Virgin Fuel Oil

b. Process Generating Waste: Leaking Fuel Oil UST. An approximately 1000 gallon former fuel oil storage tank was encountered during construction activities. The tank was removed and surrounding impacted soil was excavated.

| | | | | |
|-------------------------------|--|---|---|---|
| c. Color <u>Brown/Gray</u> | d. Strong odor (describe): <u>Moderate Petroleum Odor</u> | e. Physical state @ 70°F <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other | f. Layers <input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-layer | g. Free liquid range NA to _____ % h. pH Range <u>5.0 to 9.0</u> % |
|-------------------------------|--|---|---|---|

i. Liquid Flash Point: <73°F 73-99°F 100-139°F 140-199°F > 200°F Not applicable

j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and a d.m.k. representative analysis):

| Constituents | Concentration Range | Constituents | Concentration Range |
|------------------------|----------------------|--------------|---------------------|
| <u>Soil + Stone</u> | <u>99.9 - 99.99%</u> | | |
| <u>Virgin Fuel Oil</u> | <u>0.01 - 0.1%</u> | | |
| | | | |

k. Oxidizer Pyrophoric Explosive Radioactive
 Carcinogen Infectious Shock Sensitive Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.j) YES NO

m. Does the waste represented by this profile contain dioxins? (list in Section B.1.j) YES NO

n. Does the waste represented by this profile contain asbestos? YES NO
 If yes, concentration _____ friable non-friable

o. Does the waste represented by this profile contain benzene? YES NO
 If yes, concentration 0.043 ppm
 Is the waste subject to the benzene waste operations NESHAP? YES NO

p. Is the waste subject to RCRA Subpart CC controls? YES NO
 If yes, volatile organic concentration _____ ppmw

q. Does the waste contain any Class I or Class II ozone-depleting substances? YES NO

r. Does the waste contain debris? (list in Section B.1.j) YES NO

2. Quantity of Waste
 Estimated Annual Volume < 100 Tons Yards Drums Other specify)

3. Shipping Information

a. Packaging:
 Bulk Solid; Type/Size: Dump Truck/Trailer Bulk Liquid; Type/Size: _____
 Drum; Type/Size: _____ Other: _____

b. Shipping Frequency: Units < 100 Tons Per: Month Quarter Year One time

c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) YES NO

d. Reportable Quantity (lbs.; kgs.): _____ e. Hazard Class/ID #: _____

f. USDOT Shipping Name: _____

04/14/2004 06:43 FAX
04/07/2004 11:59 FAX

004
015



WASTE MANAGEMENT GENERATOR'S WASTE PROFILE SHEET CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA - Tarps Loads for Transport
h. Transporter & Transporter Number Zoladz Construction Co #9A-499

- Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
 - If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U) _____
 - If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section B, 1.) YES NO
 - Does this waste contain debris? (if yes, list size and type in Chemical Composition - B, 1.) YES NO
- Is this a state hazardous waste? YES NO
Identify ALL state hazardous/non hazardous waste codes: _____
- Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? YES NO
If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
- Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? YES NO
- Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B, 1.) YES NO
B. If yes, were the PCBs imported into the U.S.? YES NO
- Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
- Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMA to obtain a sample from any waste shipment for purposes of re-certification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: [Signature] Title: Director of Urban Background
Name (Type or Print): Jim L. Callahan Company Name: EWMA/D&E Date: 4/15/04
 Check if additional information is attached. Indicate the number of attached pages _____

| | | | | |
|---|--|---|---|---------------------------------------|
| 1. Management Method | <input checked="" type="checkbox"/> Landfill | <input type="checkbox"/> Non-hazardous Solidification | <input type="checkbox"/> Bioremediation | <input type="checkbox"/> Incineration |
| | <input type="checkbox"/> Hazardous Stabilization | <input type="checkbox"/> Other (Specify) _____ | | |
| 2. Proposed Ultimate Management Facility: | <u>Chaffee Landfill</u> | | | |
| 3. Precautions, Special Handling Procedures, or Limitation on Approval: | <u>Material may be used as daily cover</u> | | | |
| 4. Waste Form | 5. Source | 6. System Type | <u>ADL</u> | |
| Special Waste Decision: | | <input checked="" type="checkbox"/> Approved | <input type="checkbox"/> Disapproved | |
| Salesperson's Signature: | | Date: | _____ | |
| NYSDEC Region 9 Approval: | | Date: | _____ | |
| Special Waste Approvals Person Signature: | <u>[Signature]</u> | Date: | <u>4/15/04</u> | |

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 26-Mar-2004
Date Reported: 06-Apr-2004

Submission No.: 4C1017

Sample No.: 015214-015215

NOTES:

"-" = not analysed "<" = less than Method Detection Limit (MDL) "NA" = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for bioto analyses.

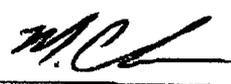
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 4

4/6/04

PASC - Certificate of Analysis

| Component | MDL | Units | 1000 G.T.E | Method | Blank | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|
| | | | Sidewall | Blank | Spike | Recovery |
| | | | 015215 04 | 015214 04 | 015214 04 | 015214 04 |
| | | | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 |
| Benzene | 1.0 | ug/kg | 39 | <MDL | 56 | 89 |
| Ethylbenzene | 1.0 | " | 33 | <MDL | 61 | 97 |
| Toluene | 1.0 | " | 230 | <MDL | 57 | 92 |
| m&p-Xylenc | 1.0 | " | 2100 | <MDL | 120 | 99 |
| o-Xylene | 1.0 | " | 1500 | <MDL | 60 | 96 |
| Xylenes(Total) | 1.0 | " | 3500 | <MDL | 180 | 97 |
| Isopropylbenzenc | 1.0 | " | 15 | <MDL | 57 | 92 |
| n-Propylbenzene | 1.0 | " | 11 | <MDL | 61 | 98 |
| p-Isopropyltoluenc | 1.0 | " | 20 | <MDL | 63 | 100 |
| 1,2,4-Trimethylbenzene | 1.0 | " | 3600 | <MDL | 61 | 98 |
| 1,3,5-Trimethylbenzene | 1.0 | " | 1300 | <MDL | 62 | 98 |
| n-Butylbenzene | 1.0 | " | 13 | <MDL | 65 | 100 |
| sec-Butylbenzene | 1.0 | " | 10 | <MDL | 64 | 100 |
| tert-Butylbenzenc | 1.0 | " | <MDL | <MDL | 61 | 97 |
| Naphthalene | 1.0 | " | 45 | <MDL | 62 | 99 |
| Methyl-t-butylether | 1.0 | " | <MDL | <MDL | NS | . |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 62 | 62 | 65 | 65 |
| d8-Toluene | | | 87 | 79 | 75 | 75 |
| Bromofluorobenzene | | | 70 | 79 | 80 | 80 |
| d10-Ethylbenzene | | | 73 | 96 | 82 | 82 |

TOTAL VOC'S = 12,416 ppb
 SSAL FOR VOC'S = 10,000 ppb

PASC - Certificate of Analysis

| Component | MDL | Units | 1000 G.T.E | Method | Blank | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | Sidewall | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 015215 04 | 015214 04 | 015214 04 | 015214 04 | 015214 04 | 015214 04 |
| | | | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 | 25-Mar-2004 |
| Naphthalene | 9.0 | ug/kg | 680 | <180 | 3100 | 78 | 3000 | 76 |
| Acenaphthene | 7.0 | " | 810 | <140 | 3400 | 84 | 3200 | 80 |
| Fluorene | 4.0 | " | 920 | <80 | 3500 | 88 | 3300 | 82 |
| Phenanthrene | 3.0 | " | 8400 | <60 | 3300 | 82 | 3200 | 80 |
| Anthracene | 6.0 | " | 1800 | <120 | 3200 | 79 | 3100 | 78 |
| Fluoranthene | 6.0 | " | 15000 | <120 | 3800 | 95 | 3600 | 90 |
| Pyrene | 4.0 | " | 10000 | <80 | 3200 | 80 | 3100 | 78 |
| Benz(a)anthracene | 5.0 | " | 6900 | <100 | 3800 | 94 | 3700 | 92 |
| Chrysene | 4.0 | " | 6900 | <80 | 3800 | 94 | 3600 | 90 |
| Benzo(b)fluoranthene | 4.0 | " | 7400 | <80 | 4000 | 99 | 3600 | 90 |
| Benzo(k)fluoranthene | 4.0 | " | 6000 | <80 | 3600 | 90 | 3800 | 95 |
| Benzo(a)pyrene | 5.0 | " | 6300 | <100 | 3500 | 88 | 3500 | 87 |
| Indeno(1,2,3-cd)pyrene | 6.0 | " | 5100 | <120 | 3600 | 89 | 3400 | 85 |
| Dibenzo(ah)anthracene | 5.0 | " | 1100 | <100 | 3600 | 90 | 3500 | 87 |
| Benzo(ghi)perylene | 6.0 | " | 4900 | <120 | 3700 | 92 | 3500 | 88 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Nitrobenzene | | | 62 | 50 | 62 | 62 | 58 | 58 |
| 2-Fluorobiphenyl | | | 89 | 72 | 90 | 90 | 86 | 86 |
| d14-p-Terphenyl | | | 99 | 87 | 96 | 96 | 93 | 93 |

4/6/04

PASC - Summary of Analysis Pre. Dates

Page MS-4 of 4

Batch Code: 0329MC01
Benzene 015214 04
015215 04
Date Analysed: 04/03/29
Date Prepared: 04/03/29

Batch Code: 0330SPX1
Naphthalene 015214 04
015215 04
015215 04
Date Analysed: 04/04/01
Date Prepared: 04/03/30

APPENDIX O

UNDERGROUND STORAGE TANK NO. 2 DRUM

DISPOSAL BILLS OF LADING

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper's No. _____

Nature's Way Environmental Consultants & Contractors, Inc.

CARRIER: 3553 Crittenden Road, Crittenden, NY 14038 SCAC

Carrier's No. 9A-916

TO: Industrial Oil Tank Service, Inc.
Street 120 Dry Road
Destination Oriskany, NY Zip 13424

FROM: *Derickman & Dowden, Inc*
Shipper
Street *Company of Kentucky University campus D*
Origin *34 White NY* Zip _____

Route: I-90 - X33 - 365E - RT69/233 - Sutliff Road to Dry Road

Vehicle Number _____

| Quantity | Kind of Package, Description of Article, (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME) | HAZARD CLASS | Lot Number | WEIGHT (subject to correction) | RATE | TARE |
|----------|---|----------------|------------|--------------------------------|------|------|
| 1 | <i>Non-HC 55 gallon drum</i> <i>Non-hazardous material NOS</i> <i>Paint Bottom Assembly</i> <i>not</i> | <i>Non-Haz</i> | <i>N/A</i> | <i>300 lb</i> | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Trail Converse
10-104 *2/10/84*

Remit C.O.D. to:

Address:
City:

State:

Zip:

COD Amt: \$ _____

C.O.D. Prepaid Collect

NOTE - Where the rate is dependent on value, shippers are required to value specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby voluntarily stated by the shipper to be not exceeding \$ _____

RECEIVED, subject to the conditions and terms hereon, in witness whereof the carrier has hereunto set its hand and seal at _____, this _____ day of _____, 19____.

PLACARDS REQUIRED YES NO - APPROVED BY DRIVER SIGNATURE

SHIPPER: *Derickman & Dowden, Inc*

CARRIER: *NWES&C, INC.*

PER: _____

PER: _____ DATE: *9/3/84* *10-1-84*

EMERGENCY RESPONSE TELEPHONE NUMBER: *716-937-6527*

Manned 24 hours/day by a person with knowledge of the hazards of the emergency response information or who has access to a person with that knowledge.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

APPENDIX P

SOUTH BUFFALO RAILWAY BERM

CHARACTERIZATION LABORATORY ANALYTICAL

RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GRAB 1

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: NW0303 SAS No.: _____ SDG No.: COMP 1
 Matrix: (soil/water) SOIL Lab Sample ID: GRAB 1
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: C3332
 Level: (low/med) LOW Date Received: 10/09/03
 % Moisture: not dec. 15. Date Analyzed: 10/15/03
 GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

| | | | |
|------------|--------------------------------|-----|---|
| 74-87-3 | -----Chloromethane | 12. | U |
| 74-83-9 | -----Bromomethane | 12. | U |
| 75-01-4 | -----Vinyl Chloride | 12. | U |
| 75-00-3 | -----Chloroethane | 12. | U |
| 75-09-2 | -----Methylene Chloride | 18. | B |
| 67-64-1 | -----Acetone | 12. | U |
| 75-15-0 | -----Carbon Disulfide | 6. | U |
| 75-35-4 | -----1,1-Dichloroethene | 6. | U |
| 75-34-3 | -----1,1-Dichloroethane | 6. | U |
| 156-60-5 | -----trans-1,2-Dichloroethene | 6. | U |
| 67-66-3 | -----Chloroform | 6. | U |
| 107-06-2 | -----1,2-Dichloroethane | 6. | U |
| 78-93-3 | -----2-Butanone | 12. | U |
| 71-55-6 | -----1,1,1-Trichloroethane | 6. | U |
| 56-23-5 | -----Carbon Tetrachloride | 6. | U |
| 75-27-4 | -----Bromodichloromethane | 6. | U |
| 78-87-5 | -----1,2-Dichloropropane | 6. | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene | 6. | U |
| 79-01-6 | -----Trichloroethene | 6. | U |
| 124-48-1 | -----Dibromochloromethane | 6. | U |
| 79-00-5 | -----1,1,2-Trichloroethane | 6. | U |
| 71-43-2 | -----Benzene | 1. | J |
| 10061-02-6 | -----trans-1,3-Dichloropropene | 6. | U |
| 75-25-2 | -----Bromoform | 6. | U |
| 108-10-1 | -----4-Methyl-2-Pentanone | 12. | U |
| 591-78-6 | -----2-Hexanone | 12. | U |
| 127-18-4 | -----Tetrachloroethene | 6. | U |
| 79-34-5 | -----1,1,2,2-Tetrachloroethane | 6. | U |
| 108-88-3 | -----Toluene | 12. | U |
| 108-90-7 | -----Chlorobenzene | 6. | U |
| 100-41-4 | -----Ethylbenzene | 6. | U |
| 100-42-5 | -----Styrene | 6. | U |
| 156-59-2 | -----cis-1,2-Dichloroethene | 6. | U |
| 106-42-3 | -----m,p-Xylene | 5. | J |
| 95-47-6 | -----o-Xylene | 7. | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GRAB 1 DUP

Lab Name: AES, Inc.
Lab Code: AES
Matrix: (soil/water) SOIL
Sample wt/vol: 5.000 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. 16.
GC Column: RTX502.2 ID: .32 (mm)
Soil Extract Volume: _____ (uL)

Contract:
Case No.: NW0303 SAS No.:

SDG No.: COMP 1
Lab Sample ID: GRAB 1 DUP
Lab File ID: C3333
Date Received: 10/09/03
Date Analyzed: 10/15/03
Dilution Factor: 1.0
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

| | | | |
|-----------------|---------------------------|-----|---|
| 74-87-3----- | Chloromethane | 12. | U |
| 74-83-9----- | Bromomethane | 12. | U |
| 75-01-4----- | Vinyl Chloride | 12. | U |
| 75-00-3----- | Chloroethane | 12. | U |
| 75-09-2----- | Methylene Chloride | 16. | B |
| 67-64-1----- | Acetone | 12. | U |
| 75-15-0----- | Carbon Disulfide | 6. | U |
| 75-35-4----- | 1,1-Dichloroethene | 6. | U |
| 75-34-3----- | 1,1-Dichloroethane | 6. | U |
| 156-60-5----- | trans-1,2-Dichloroethene | 6. | U |
| 67-66-3----- | Chloroform | 6. | U |
| 107-06-2----- | 1,2-Dichloroethane | 6. | U |
| 78-93-3----- | 2-Butanone | 12. | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 6. | U |
| 56-23-5----- | Carbon Tetrachloride | 6. | U |
| 75-27-4----- | Bromodichloromethane | 6. | U |
| 78-87-5----- | 1,2-Dichloropropane | 6. | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 6. | U |
| 79-01-6----- | Trichloroethene | 6. | U |
| 124-48-1----- | Dibromochloromethane | 6. | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 6. | U |
| 71-43-2----- | Benzene | 6. | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 6. | U |
| 75-25-2----- | Bromoform | 6. | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 12. | U |
| 591-78-6----- | 2-Hexanone | 12. | U |
| 127-18-4----- | Tetrachloroethene | 6. | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 6. | U |
| 108-88-3----- | Toluene | 6. | J |
| 108-90-7----- | Chlorobenzene | 6. | U |
| 100-41-4----- | Ethylbenzene | 6. | U |
| 100-42-5----- | Styrene | 6. | U |
| 156-59-2----- | cis-1,2-Dichloroethene | 6. | U |
| 106-42-3----- | m,p-Xylene | 4. | J |
| 95-47-6----- | o-Xylene | 5. | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: NW0303 SAS No.:
 Matrix: (soil/water) SOIL Lab Sample ID: COMP 1
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B2447
 Level: (low/med) LOW Date Received: 10/09/03
 % Moisture: 15. decanted: (Y/N) N Date Extracted: 10/14/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 10/28/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

| | | | |
|---------------|------------------------------|-------|---|
| 108-95-2----- | Phenol | 390. | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 390. | U |
| 95-57-8----- | 2-Chlorophenol | 390. | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 390. | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 390. | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 390. | U |
| 95-48-7----- | 2-Methylphenol | 390. | U |
| 108-60-1----- | bis(2-chloroisopropyl) ether | 390. | U |
| 106-44-5----- | 4-Methylphenol | 390. | U |
| 621-64-7----- | n-Nitroso-di-n-propylamine | 390. | U |
| 67-72-1----- | Hexachloroethane | 390. | U |
| 98-95-3----- | Nitrobenzene | 390. | U |
| 78-59-1----- | Isophorone | 390. | U |
| 88-75-5----- | 2-Nitrophenol | 390. | U |
| 105-67-9----- | 2,4-Dimethylphenol | 390. | U |
| 111-91-1----- | bis(2-Chloroethoxy)methane | 390. | U |
| 120-83-2----- | 2,4-Dichlorophenol | 390. | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 390. | U |
| 91-20-3----- | Naphthalene | 130. | J |
| 106-47-8----- | 4-Chloroaniline | 390. | U |
| 87-68-3----- | Hexachlorobutadiene | 390. | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 390. | U |
| 91-57-6----- | 2-Methylnaphthalene | 130. | J |
| 77-47-4----- | Hexachlorocyclopentadiene | 390. | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 390. | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 390. | U |
| 91-58-7----- | 2-Chloronaphthalene | 390. | U |
| 88-74-4----- | 2-Nitroaniline | 2000. | U |
| 131-11-3----- | Dimethylphthalate | 390. | U |
| 208-96-8----- | Acenaphthylene | 210. | J |
| 606-20-2----- | 2,6-Dinitrotoluene | 390. | U |
| 99-09-2----- | 3-Nitroaniline | 2000. | U |
| 83-32-9----- | Acenaphthene | 68. | J |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1

Lab Name: AES, Inc. Contract: SDG No.: COMP 1
 Lab Code: AES Case No.: NW0303 SAS No.: Lab Sample ID: COMP 1
 Matrix: (soil/water) SOIL Lab File ID: B2447
 Sample wt/vol: 30.0 (g/mL) G Date Received: 10/09/03
 Level: (low/med) LOW Date Extracted: 10/14/03
 % Moisture: 15. decanted: (Y/N) N Date Analyzed: 10/28/03
 Concentrated Extract Volume: 2000.0 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------------|----------------------------|---|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2000. | U |
| 100-02-7----- | 4-Nitrophenol | 2000. | U |
| 132-64-9----- | Dibenzofuran | 130. | J |
| 121-14-2----- | 2,4-Dinitrotoluene | 390. | U |
| 84-66-2----- | Diethylphthalate | 390. | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 390. | U |
| 86-73-7----- | Fluorene | 81. | J |
| 100-01-6----- | 4-Nitroaniline | 2000. | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 2000. | U |
| 86-30-6----- | n-Nitrosodiphenylamine | 390. | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 390. | U |
| 118-74-1----- | Hexachlorobenzene | 390. | U |
| 87-86-5----- | Pentachlorophenol | 2000. | U |
| 85-01-8----- | Phenanthrene | 1000. | |
| 120-12-7----- | Anthracene | 280. | J |
| 86-74-8----- | Carbazole | 92. | J |
| 84-74-2----- | Di-n-butylphthalate | 390. | U |
| 206-44-0----- | Fluoranthene | 1900. | |
| 129-00-0----- | Pyrene | 1500. | |
| 85-68-7----- | Butylbenzylphthalate | 390. | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 780. | U |
| 56-55-3----- | Benzo(a)anthracene | 1100. | |
| 218-01-9----- | Chrysene | 1100. | |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 390. | U |
| 117-84-0----- | Di-n-octylphthalate | 390. | U |
| 205-99-2----- | Benzo(b)fluoranthene | 1100. | |
| 207-08-9----- | Benzo(k)fluoranthene | 1200. | |
| 50-32-8----- | Benzo(a)pyrene | 1200. | |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 790. | |
| 53-70-3----- | Dibenzo(a,h)anthracene | 170. | J |
| 191-24-2----- | Benzo(g,h,i)perylene | 820. | |

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1 DUP

Lab Name: AES, Inc. Contract: SDG No.: COMP 1
 Lab Code: AES Case No.: NW0303 SAS No.: Lab Sample ID: COMP 1 DUP
 Matrix: (soil/water) SOIL Lab File ID: B2448
 Sample wt/vol: 30.0 (g/mL) G Date Received: 10/09/03
 Level: (low/med) LOW Date Extracted: 10/14/03
 % Moisture: 17. decanted: (Y/N) N Date Analyzed: 10/28/03
 Concentrated Extract Volume: 2000.0 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH: 8.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 400. | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 400. | U |
| 95-57-8 | 2-Chlorophenol | 400. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400. | U |
| 95-48-7 | 2-Methylphenol | 400. | U |
| 108-60-1 | bis(2-chloroisopropyl) ether | 400. | U |
| 106-44-5 | 4-Methylphenol | 400. | U |
| 621-64-7 | n-Nitroso-di-n-propylamine | 400. | U |
| 67-72-1 | Hexachloroethane | 400. | U |
| 98-95-3 | Nitrobenzene | 400. | U |
| 78-59-1 | Isophorone | 400. | U |
| 88-75-5 | 2-Nitrophenol | 400. | U |
| 105-67-9 | 2,4-Dimethylphenol | 400. | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 400. | U |
| 120-83-2 | 2,4-Dichlorophenol | 400. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400. | U |
| 91-20-3 | Naphthalene | 130. | J |
| 106-47-8 | 4-Chloroaniline | 400. | U |
| 87-68-3 | Hexachlorobutadiene | 400. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 400. | U |
| 91-57-6 | 2-Methylnaphthalene | 130. | J |
| 77-47-4 | Hexachlorocyclopentadiene | 400. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 400. | U |
| 91-58-7 | 2-Chloronaphthalene | 400. | U |
| 88-74-4 | 2-Nitroaniline | 2000. | U |
| 131-11-3 | Dimethylphthalate | 400. | U |
| 208-96-8 | Acenaphthylene | 250. | J |
| 606-20-2 | 2,6-Dinitrotoluene | 400. | U |
| 99-09-2 | 3-Nitroaniline | 2000. | U |
| 83-32-9 | Acenaphthene | 400. | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1 DUP

Lab Name: AES, Inc. Contract:
 Lab Code: AES Case No.: NW0303 SAS No.:
 Matrix: (soil/water) SOIL Lab Sample ID: COMP 1 DUP
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: B2448
 Level: (low/med) LOW Date Received: 10/09/03
 % Moisture: 17. decanted: (Y/N) N Date Extracted: 10/14/03
 Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 10/28/03
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 8.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

| | | | |
|----------------|----------------------------|-------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2000. | U |
| 100-02-7----- | 4-Nitrophenol | 2000. | U |
| 132-64-9----- | Dibenzofuran | 84. | J |
| 121-14-2----- | 2,4-Dinitrotoluene | 400. | U |
| 84-66-2----- | Diethylphthalate | 400. | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 400. | U |
| 86-73-7----- | Fluorene | 400. | U |
| 100-01-6----- | 4-Nitroaniline | 2000. | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 2000. | U |
| 86-30-6----- | n-Nitrosodiphenylamine | 400. | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 400. | U |
| 118-74-1----- | Hexachlorobenzene | 400. | U |
| 87-86-5----- | Pentachlorophenol | 2000. | U |
| 85-01-8----- | Phenanthrene | 480. | |
| 120-12-7----- | Anthracene | 280. | J |
| 86-74-8----- | Carbazole | 56. | J |
| 84-74-2----- | Di-n-butylphthalate | 400. | U |
| 206-44-0----- | Fluoranthene | 1200. | |
| 129-00-0----- | Pyrene | 1000. | |
| 85-68-7----- | Butylbenzylphthalate | 400. | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 800. | U |
| 56-55-3----- | Benzo(a)anthracene | 850. | |
| 218-01-9----- | Chrysene | 870. | |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 400. | U |
| 117-84-0----- | Di-n-octylphthalate | 400. | U |
| 205-99-2----- | Benzo(b)fluoranthene | 880. | |
| 207-08-9----- | Benzo(k)fluoranthene | 890. | |
| 50-32-8----- | Benzo(a)pyrene | 920. | |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 680. | |
| 53-70-3----- | Dibenzo(a,h)anthracene | 160. | J |
| 191-24-2----- | Benzo(g,h,i)perylene | 630. | |

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1

Lab Name: AES, INC. Contract:
 Lab Code: AES Case No. NW0303 SAS No.: SDG No.: COMP 1
 Matrix: (soil/water) Soil Lab Sample ID: COMP 1
 Sample wt/vol: 30.0 G Lab File ID: BC1983
 % Moisture: 15 Date Received: 10/09/03
 Extraction: (SepF/Cont/So Sonc) Date Extracted: 10/14/03
 Concentrated Extract Volur 10000 uL Date Analyzed: 10/18/03
 Injection Volume: 1.5 uL Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 8.6 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | |
|----------------------------------|-----|----|
| 319-84-6-----alpha-BHC | 2 | U |
| 319-85-7-----beta-BHC | 2 | U |
| 319-86-8-----delta-BHC | 2 | U |
| 58-89-9-----gamma-BHC(Lindane) | 2 | U |
| 76-44-8-----Heptachlor | 2 | U |
| 309-00-2-----Aldrin | 2 | U |
| 1024-57-3-----Heptachlor epoxide | 2 | U |
| 959-98-8-----Endosulfan I | 2 | U |
| 60-57-1-----Dieldrin | 3.9 | U |
| 72-55-9-----4,4'-DDE | 3.9 | U |
| 72-20-8-----Endrin | 3.9 | U |
| 33213-65-9----Endosulfan II | 3.9 | U |
| 72-54-8-----4,4'-DDD | 3.9 | U |
| 1031-07-8-----Endosulfan Sulfate | 3.9 | U |
| 50-29-3-----4,4'-DDT | 3.8 | JP |
| 72-43-5-----Methoxychlor | 20 | U |
| 53494-70-5----Endrin Ketone | 3.9 | U |
| 7421-36-3-----Endrin Aldehyde | 3.9 | U |
| 5103-71-9-----alpha-Chlordane | 2 | U |
| 5103-74-2-----gamma-Chlordane | 2 | U |
| 8001-35-2-----Toxaphene | 200 | U |
| 12674-11-2---Aroclor 1016 | 39 | U |
| 11104-28-2----Aroclor 1221 | 39 | U |
| 11141-16-5----Aroclor 1232 | 39 | U |
| 53469-21-9----Aroclor 1242 | 39 | U |
| 12672-29-6----Aroclor 1248 | 39 | U |
| 11097-69-1----Aroclor 1254 | 39 | U |
| 11096-82-5----Aroclor 1260 | 39 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1 DUP

| | | | | | |
|----------------------------------|-----------|-----------|--------|-----------------------|-----------|
| Lab Name: | AES, INC. | Contract: | | | |
| Lab Code: | AES | Case No. | NW0303 | SAS No.: | SDG No.: |
| Matrix: (soil/water) | Soil | | | | COMP 1 |
| Sample wt/vol: | 30.0 | G | | Lab Sample ID: | COMP 1 DU |
| % Moisture: | 17 | | | Lab File ID: | BC1986 |
| Extraction: (SepF/Cont/So Sonc) | | | | Date Received: | 10/09/03 |
| Concentrated Extract Volur 10000 | uL | | | Date Extracted: | 10/14/03 |
| Injection Volume: | 1.5 | uL | | Date Analyzed: | 10/18/03 |
| GPC Cleanup: (Y/N) | N | pH: | 8.2 | Dilution Factor: | 1.0 |
| | | | | Sulfur Cleanup: (Y/N) | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------------|-----------------------|---|
| 319-84-6 | alpha-BHC | 2.0 | U |
| 319-85-7 | beta-BHC | 2.0 | U |
| 319-86-8 | delta-BHC | 2.0 | U |
| 58-89-9 | gamma-BHC(Lindane) | 2.0 | U |
| 76-44-8 | Heptachlor | 2.0 | U |
| 309-00-2 | Aldrin | 2.0 | U |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U |
| 959-98-8 | Endosulfan I | 2.0 | U |
| 60-57-1 | Dieldrin | 4.0 | U |
| 72-55-9 | 4,4'-DDE | 4.0 | U |
| 72-20-8 | Endrin | 4.0 | U |
| 33213-65-9 | Endosulfan II | 4.0 | U |
| 72-54-8 | 4,4'-DDD | 4.0 | U |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U |
| 50-29-3 | 4,4'-DDT | 4.4 | |
| 72-43-5 | Methoxychlor | 20 | U |
| 53494-70-5 | Endrin Ketone | 4.0 | U |
| 7421-36-3 | Endrin Aldehyde | 4.0 | U |
| 5103-71-9 | alpha-Chlordane | 2.0 | U |
| 5103-74-2 | gamma-Chlordane | 2.0 | U |
| 8001-35-2 | Toxaphene | 200 | U |
| 12674-11-2 | Aroclor 1016 | 40 | U |
| 11104-28-2 | Aroclor 1221 | 40 | U |
| 11141-16-5 | Aroclor 1232 | 40 | U |
| 53469-21-9 | Aroclor 1242 | 40 | U |
| 12672-29-6 | Aroclor 1248 | 40 | U |
| 11097-69-1 | Aroclor 1254 | 40 | U |
| 11096-82-5 | Aroclor 1260 | 40 | U |

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1

Lab Name: ADIRONDACK ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: NW_0301 SAS No.: _____ SDG No.: COMP 1

Matrix (soil/water): SOIL Lab Sample ID: COMP_1

Level (low/med): LOW Date Received: 10/09/03

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | 0.49 | U | N | P |
| 7440-39-3 | Barium | 188 | | N | P |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | 2.2 | | N | P |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | 65.2 | | N | P |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | 351 | | E | P |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.33 | | | AV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | 0.75 | U | N | P |
| 7440-22-4 | Silver | 0.24 | U | N | P |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1 DUP

Lab Name: ADIRONDACK ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: NW_0301 SAS No.: _____ SDG No.: COMP 1

Matrix (soil/water): SOIL Lab Sample ID: COMP_1_DUP

Level (low/med): LOW Date Received: 10/09/03

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | 0.51 | U | N | P |
| 7440-39-3 | Barium | 84.2 | | N | P |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | 0.38 | B | N | P |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | 17.9 | | N | P |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | 208 | | E | P |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.34 | | | AV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | 0.77 | U | N | P |
| 7440-22-4 | Silver | 0.24 | U | N | P |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 7440-42-8 | Boron | | | | NR |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

Stockpile Comp Dup

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: NW 0303

SAS No.:

SDG No.: Stockpile Comp

Matrix (soil/water): Soil

Lab Sample ID: 031009033-021

Level (Low/Med): Low

Date Received: 10/9/03

% Solids: 83.3

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

| Analyte | Concentration | C | Q | Method |
|-----------------------------------|---------------|---|---|-----------|
| Total Kjeldahl Nitrogen, as N | | | | EPA 351.3 |
| Ammonia, as N | | | | EPA 350.1 |
| Nitrate | | | | EPA 300.0 |
| Chemical Oxygen Demand (COD) | | | | EPA 410.4 |
| Biochemical Oxygen Demand (BOD 5) | | | | EPA 405.1 |
| Total Organic Carbon (TOC) | | | | EPA 415.2 |
| Total Dissolved Solids (TDS) | | | | EPA 160.1 |
| Sulfate | | | | EPA 300.0 |
| Alkalinity | | | | EPA 310.1 |
| Total Phenols | | | | EPA 420.1 |
| Chloride | | | | EPA 300.0 |
| Bromide | | | | EPA 300.0 |
| Eh | | | | |
| Specific Conductance | | | | EPA 120.1 |
| Cyanide | 3.44 | | | EPA 9012 |
| pH | | | | EPA 150.1 |
| Turbidity | | | | EPA 180.0 |
| Color | | | | EPA 110.1 |
| Hexavalent Chromium | | | | SW 7196 |

Comments _____



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

| | | | |
|--|--|---|---|
| Client Name: NWEC+C, Inc. | | Address: 3553 Crittenden Rd. Crittenden, New York 14038 | |
| Send Report To: Russ Savage | | Project Name (Location): Union Ship Canal | Samplers: (Names): Jon Neubauer |
| Client Phone No: (716) 937-6527 | | PO Number: | Samplers: (Signature): |
| Client Fax No: (716) 937-9360 | | | |

| AES Sample Number | Client Sample Identification & Location | Date Sampled | Time A=P.m. P=P.m. | Sample Type | | | Number of Cont's | Analysis Required |
|-------------------|---|--------------|--------------------|-------------|----|----|------------------|--|
| | | | | Matrix | GC | MS | | |
| 001 | Soil Stockpile - Comp #1 | 10/7/03 | 1:30 | Soil | X | | 2 | PH-9045 TCL-SVOCs 95-2 TCL Pesticides 95-3 |
| 002 | Soil Stockpile - Comp #1 Dup | 10/7/03 | 1:30 | Soil | X | | 2 | PCBs 95-3 RCRA Metals + Cyanide |
| 003 | Soil Stockpile - Grab #1 | 10/7/03 | 1:15 | Soil | | X | 1 | TCL-VOCs, 95-1 |
| 004 | Soil Stockpile - Grab #1 Dup | 10/7/03 | 1:15 | Soil | | X | 1 | TCL-VOCs, 95-1 |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |
| | | | | A | | | | |
| | | | | P | | | | |

031009033

Each comp should be analyzed for:
pH, ~~95-1~~ 95-2, 95-3,
RCRA metals, CN-

| | |
|---|---|
| Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day | Special Instructions/Remarks: ASP, Category B Deliverables NO MS/MSD per client |
|---|---|

| | | | |
|---------------|----------------------------------|---------------------------------|-----------------------------------|
| CC Report To: | Relinquished by: (Signature) | Received by: (Signature) | Date/Time 10/8/03 10:10 |
| | Relinquished by: (Signature) | Received for Laboratory by: | Date/Time 10/9/03 9:00 |

| | | |
|---|--|---|
| TEMPERATURE Ambient or <u>Chilled</u> Notes: <u>5°C</u> | PROPERLY PRESERVED <u>Y</u> N Notes: _____ | RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes: _____ |
|---|--|---|

APPENDIX Q

SANITARY SEWER MANHOLE NO. 8 TEST PITS

CONFIRMATION SOIL SAMPLES LABORATORY

ANALYTICAL RESULTS

**PSC ANALYTICAL SERVICES Inc.**

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWEC+C Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038
Fax Number: 716-937-9360
Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 13-Jul-2004
Date Reported: 23-Jul-2004

Submission No.: 4G0474
Sample No.: 043072-043073

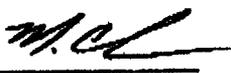
NOTES:

*"-" = not analysed "<" = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 7

7/23/04

PASC - Certificate of Analysis

Page 2 of 7

| Component | MDL | Units | Manhole 8 | Method | Blank | % |
|-----------------------------|-------|-------|-------------|-------------|-------------|-------------|
| | | | Test Pit | Blank | Spike | Recovery |
| | | | 043073 04 | 043072 04 | 043072 04 | 043072 04 |
| | | | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 |
| Client ID: | | | | | | |
| Lab No.: | | | | | | |
| Date Sampled: | | | | | | |
| Acetone | 0.020 | mg/kg | 0.34 | < | 0.060 | 96 |
| Acrolein | 0.010 | " | <0.030 | < | 0.079 | 130 |
| Acrylonitrile | 0.010 | " | <0.030 | < | 0.062 | 99 |
| Benzene | 0.001 | " | 0.003 | < | 0.063 | 100 |
| Bromoform | 0.001 | " | <0.009 | < | 0.056 | 90 |
| Bromomethane | 0.006 | " | <0.018 | < | 0.050 | 79 |
| 2-Butanone | 0.005 | " | 0.070 | < | 0.061 | 98 |
| Carbon Disulfide | 0.001 | " | 0.070 | < | 0.068 | 110 |
| Carbon Tetrachloride | 0.001 | " | <0.003 | < | 0.062 | 99 |
| Chlorobenzene | 0.001 | " | <0.003 | < | 0.064 | 100 |
| Chlorodibromomethane | 0.001 | " | <0.003 | < | 0.060 | 96 |
| Chloroethane | 0.001 | " | <0.003 | < | 0.057 | 91 |
| Chloroform | 0.001 | " | <0.003 | < | 0.062 | 99 |
| Chloromethane | 0.001 | " | <0.030 | <0.010 | 0.049 | 78 |
| 1,2-Dichlorobenzene | 0.001 | " | <0.009 | < | 0.059 | 94 |
| 1,3-Dichlorobenzene | 0.001 | " | <0.009 | < | 0.061 | 97 |
| 1,4-Dichlorobenzene | 0.001 | " | <0.009 | < | 0.062 | 99 |
| Dichlorobromomethane | 0.001 | " | <0.003 | < | 0.062 | 100 |
| 1,1-Dichloroethane | 0.001 | " | <0.003 | < | 0.062 | 99 |
| 1,2-Dichloroethane | 0.001 | " | <0.003 | < | 0.061 | 97 |
| 1,1-Dichloroethene | 0.001 | " | <0.003 | < | 0.065 | 100 |
| Dichloromethane | 0.020 | " | <0.060 | < | 0.065 | 100 |
| Methyl-t-butylether | 0.001 | " | <0.003 | < | NS | - |
| Ethylene Dibromide | 0.001 | " | <0.003 | < | 0.060 | 96 |
| 1,2-Dibromo-3-Chloropropane | 0.005 | " | <0.045 | < | 0.056 | 89 |
| cis-1,2-Dichloroethene | 0.001 | " | <0.003 | < | 0.063 | 100 |
| trans-1,2-Dichloroethene | 0.001 | " | <0.003 | < | 0.063 | 100 |
| 1,2-Dichloropropane | 0.001 | " | <0.003 | < | 0.063 | 100 |
| cis-1,3-Dichloropropene | 0.001 | " | <0.003 | < | 0.063 | 100 |
| trans-1,3-Dichloropropene | 0.001 | " | <0.003 | < | 0.058 | 92 |
| Ethylbenzene | 0.001 | " | <0.003 | < | 0.066 | 110 |
| 2-Hexanone | 0.005 | " | <0.015 | < | 0.057 | 92 |
| 4-Methyl-2-Pentanone | 0.005 | " | <0.015 | < | 0.057 | 92 |
| Styrene | 0.001 | " | <0.003 | < | 0.068 | 110 |
| 1,1,1,2-Tetrachloroethane | 0.001 | " | <0.003 | < | 0.062 | 99 |
| 1,1,2,2-Tetrachloroethane | 0.001 | " | <0.009 | < | 0.056 | 89 |
| Tetrachloroethene | 0.001 | " | 0.006 | < | 0.064 | 100 |
| Toluene | 0.001 | " | 0.009 | < | 0.063 | 100 |
| 1,1,1-Trichloroethane | 0.001 | " | <0.003 | < | 0.063 | 100 |
| 1,1,2-Trichloroethane | 0.001 | " | <0.003 | < | 0.061 | 98 |
| Trichloroethene | 0.001 | " | <0.003 | < | 0.065 | 100 |
| Trichlorofluoromethane | 0.001 | " | <0.003 | < | 0.059 | 94 |
| Vinyl Chloride | 0.001 | " | <0.003 | < | 0.062 | 99 |
| m&p-Xylene | 0.001 | " | 0.005 | < | 0.13 | 100 |
| o-Xylene | 0.001 | " | <0.003 | < | 0.064 | 100 |
| Isopropylbenzene | 0.001 | " | <0.009 | < | 0.058 | 93 |
| Surrogate Recoveries | | % | | | | |
| d4-1,2-Dichloroethane | | | 73 | 79 | 83 | 83 |
| d8-Toluene | | | 89 | 88 | 93 | 93 |
| Bromofluorobenzene | | | 56 | 87 | 94 | 94 |
| d10-Ethylbenzene | | | 81 | 104 | 103 | 103 |

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PASC - Certificate of Analysis

Page 3 of 7

| Component | Client ID: | | Manhole 8 |
|-----------------------------|---------------|-------|-------------|-------------|-------------|-------------|-------------|
| | Lab No.: | | Test Pit |
| | Date Sampled: | | 043073 04 | 043073 04 | 043073 04 | 043073 04 | 043073 04 |
| | MDL | Units | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 |
| | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Phenol | 0.27 | mg/kg | <1.6 | 22 | 63 | 24 | 72 |
| Bis(2-chloroethyl)ether | 0.18 | " | <1.1 | NS | - | NS | - |
| 2-Chlorophenol | 0.48 | " | <2.9 | 21 | 61 | 24 | 71 |
| 1,3-Dichlorobenzene | 0.20 | " | <1.2 | NS | - | NS | - |
| 1,4-Dichlorobenzene | 0.20 | " | <1.2 | 10 | 59 | 12 | 71 |
| 1,2-Dichlorobenzene | 0.20 | " | <1.2 | NS | - | NS | - |
| Bis(2-chloroisopropyl)ether | 0.15 | " | <0.90 | NS | - | NS | - |
| Hexachloroethane | 0.20 | " | <1.2 | NS | - | NS | - |
| N-Nitroso-di-N-Propylamine | 0.21 | " | <1.3 | 12 | 70 | 13 | 78 |
| Nitrobenzene | 0.20 | " | <1.2 | NS | - | NS | - |
| Isophorone | 0.40 | " | <2.4 | NS | - | NS | - |
| 2-Nitrophenol | 0.14 | " | <0.84 | NS | - | NS | - |
| 2,4-Dimethylphenol | 0.17 | " | <1.0 | NS | - | NS | - |
| Bis(2-chloroethoxy)methane | 0.13 | " | <0.78 | NS | - | NS | - |
| 2,4-Dichlorophenol | 0.15 | " | <0.90 | NS | - | NS | - |
| 1,2,4-Trichlorobenzene | 0.20 | " | <1.2 | 11 | 63 | 12 | 74 |
| Naphthalene | 0.09 | " | <0.54 | NS | - | NS | - |
| Hexachlorobutadiene | 0.20 | " | <1.2 | NS | - | NS | - |
| 4-Chloro-3-Methylphenol | 0.15 | " | <0.90 | 25 | 73 | 27 | 79 |
| Hexachlorocyclopentadiene | 0.20 | " | <1.2 | NS | - | NS | - |
| 2,4,6-Trichlorophenol | 0.12 | " | <0.72 | NS | - | NS | - |
| 2-Chloronaphthalene | 0.34 | " | <2.0 | NS | - | NS | - |
| Acenaphthylene | 0.04 | " | <0.24 | NS | - | NS | - |
| Dimethyl phthalate | 0.11 | " | <0.66 | NS | - | NS | - |
| 2,6-Dinitrotoluene | 0.06 | " | <0.36 | NS | - | NS | - |
| Acenaphthene | 0.07 | " | <0.42 | 13 | 76 | 14 | 86 |
| 2,4-Dinitrophenol | 0.48 | " | <2.9 | NS | - | NS | - |
| 2,4-Dinitrotoluene | 0.22 | " | <1.3 | 12 | 73 | 14 | 85 |
| 4-Nitrophenol | 0.17 | " | <1.0 | 23 | 68 | 26 | 79 |
| Fluorene | 0.06 | " | <0.36 | NS | - | NS | - |
| 4-Chlorophenylphenylether | 0.09 | " | <0.54 | NS | - | NS | - |
| Diethyl phthalate | 0.11 | " | 7.8 | NS | - | NS | - |
| 4,6-Dinitro-2-methylphenol | 0.16 | " | <0.96 | NS | - | NS | - |
| N-Nitrosodiphenylamine | 0.19 | " | <1.1 | NS | - | NS | - |
| 4-Bromophenylphenylether | 0.04 | " | <0.24 | NS | - | NS | - |
| Hexachlorobenzene | 0.20 | " | <1.2 | NS | - | NS | - |
| Pentachlorophenol | 0.31 | " | <1.9 | 21 | 61 | 22 | 67 |
| Phenanthrene | 0.03 | " | <0.18 | NS | - | NS | - |
| Anthracene | 0.06 | " | <0.36 | NS | - | NS | - |
| Di-n-butyl phthalate | 0.11 | " | <0.66 | NS | - | NS | - |
| Fluoranthene | 0.05 | " | <0.30 | NS | - | NS | - |
| Pyrene | 0.06 | " | <0.36 | 15 | 89 | 16 | 98 |
| Benzyl butyl phthalate | 0.10 | " | <0.60 | NS | - | NS | - |
| 3,3-Dichlorobenzidine | 0.34 | " | <2.0 | NS | - | NS | - |
| Benzo(a)anthracene | 0.05 | " | 0.30 | NS | - | NS | - |
| Chrysene | 0.06 | " | <0.36 | NS | - | NS | - |
| Bis(2-ethylhexyl)phthalate | 0.75 | " | <4.5 | NS | - | NS | - |
| Di-n-octyl phthalate | 0.11 | " | <0.66 | NS | - | NS | - |
| Benzo(b)fluoranthene | 0.04 | " | <0.24 | NS | - | NS | - |
| Benzo(k)fluoranthene | 0.04 | " | <0.24 | NS | - | NS | - |

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PASC - Certificate of Analysis

Page 4 of 7

| Component | MDL | Units | Manhole 8 |
|------------------------|------|-------|-------------|-------------|-------------|-------------|-------------|
| | | | Test Pit |
| | | | 043073 04 | 043073 04 | 043073 04 | 043073 04 | 043073 04 |
| | | | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 |
| | | | M. Spike | MS % Rec. | MS Dup | MSD % Rec. | |
| Benzo(a)pyrene | 0.05 | mg/kg | <0.30 | NS | - | NS | - |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.36 | NS | - | NS | - |
| Dibenzo(a,h)anthracene | 0.06 | " | <0.36 | NS | - | NS | - |
| Benzo(ghi)perylene | 0.05 | " | <0.30 | NS | - | NS | - |
| N-Nitrosodimethylamine | 1.0 | " | <6.0 | NS | - | NS | - |
| Aniline | 0.50 | " | <3.0 | NS | - | NS | - |
| Benzyl alcohol | 0.50 | " | <3.0 | NS | - | NS | - |
| Carbazole | 0.50 | " | <3.0 | NS | - | NS | - |
| 2-Methylphenol | 0.50 | " | <3.0 | NS | - | NS | - |
| 3&4-Methylphenol | 0.50 | " | <3.0 | NS | - | NS | - |
| Benzoic acid | 0.50 | " | <3.0 | NS | - | NS | - |
| 4-Chloroaniline | 0.50 | " | <3.0 | NS | - | NS | - |
| 2-Methylnaphthalene | 0.34 | " | <2.0 | NS | - | NS | - |
| 2,4,5-Trichlorophenol | 0.10 | " | <0.60 | NS | - | NS | - |
| 2-Nitroaniline | 0.50 | " | <3.0 | NS | - | NS | - |
| 3-Nitroaniline | 0.50 | " | <3.0 | NS | - | NS | - |
| Dibenzofuran | 0.50 | " | <3.0 | NS | - | NS | - |
| Benzidine | 0.50 | " | <3.0 | NS | - | NS | - |
| 4-Nitroaniline | 0.50 | " | <3.0 | NS | - | NS | - |
| Surrogate Recoveries | | % | | | | | |
| 2-Fluorophenol | | | 78 | 62 | 62 | 73 | 73 |
| d5-Phenol | | | 85 | 71 | 71 | 79 | 79 |
| d5-Nitrobenzene | | | 81 | 66 | 66 | 75 | 75 |
| 2-Fluorobiphenyl | | | 84 | 75 | 75 | 85 | 85 |
| 2,4,6-Tribromophenol | | | 83 | 80 | 80 | 87 | 87 |
| d14-p-Terphenyl | | | 105 | 91 | 91 | 100 | 100 |

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PASC - Certificate of Analysis

Page 5 of 7

| Component | MDL | Units | Method | Blank | % | Blank Spike | % |
|-----------------------------|------|-------|-------------|-------------|-------------|-------------|-------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 043072 04 | 043072 04 | 043072 04 | 043072 04 | 043072 04 |
| | | | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 |
| Phenol | 0.27 | mg/kg | <0.54 | 6.2 | 78 | 6.4 | 79 |
| Bis(2-chloroethyl)ether | 0.18 | " | <0.36 | NS | - | NS | - |
| 2-Chlorophenol | 0.48 | " | <0.96 | 6.2 | 77 | 6.2 | 77 |
| 1,3-Dichlorobenzene | 0.20 | " | <0.40 | NS | - | NS | - |
| 1,4-Dichlorobenzene | 0.20 | " | <0.40 | 2.9 | 73 | 3.0 | 75 |
| 1,2-Dichlorobenzene | 0.20 | " | <0.40 | NS | - | NS | - |
| Bis(2-chloroisopropyl)ether | 0.15 | " | <0.30 | NS | - | NS | - |
| Hexachloroethane | 0.20 | " | <0.40 | NS | - | NS | - |
| N-Nitroso-di-N-Propylamine | 0.21 | " | <0.42 | 3.2 | 81 | 3.3 | 81 |
| Nitrobenzene | 0.20 | " | <0.40 | NS | - | NS | - |
| Isophorone | 0.40 | " | <0.80 | NS | - | NS | - |
| 2-Nitrophenol | 0.14 | " | <0.28 | NS | - | NS | - |
| 2,4-Dimethylphenol | 0.17 | " | <0.34 | NS | - | NS | - |
| Bis(2-chloroethoxy)methane | 0.13 | " | <0.26 | NS | - | NS | - |
| 2,4-Dichlorophenol | 0.15 | " | <0.30 | NS | - | NS | - |
| 1,2,4-Trichlorobenzene | 0.20 | " | <0.40 | 2.9 | 74 | 3.0 | 75 |
| Naphthalene | 0.09 | " | <0.18 | NS | - | NS | - |
| Hexachlorobutadiene | 0.20 | " | <0.40 | NS | - | NS | - |
| 4-Chloro-3-Methylphenol | 0.15 | " | <0.30 | 6.4 | 80 | 6.4 | 80 |
| Hexachlorocyclopentadiene | 0.20 | " | <0.40 | NS | - | NS | - |
| 2,4,6-Trichlorophenol | 0.12 | " | <0.24 | NS | - | NS | - |
| 2-Chloronaphthalene | 0.34 | " | <0.68 | NS | - | NS | - |
| Acenaphthylene | 0.04 | " | <0.08 | NS | - | NS | - |
| Dimethyl phthalate | 0.11 | " | <0.22 | NS | - | NS | - |
| 2,6-Dinitrotoluene | 0.06 | " | <0.12 | NS | - | NS | - |
| Acenaphthene | 0.07 | " | <0.14 | 3.1 | 78 | 3.2 | 79 |
| 2,4-Dinitrophenol | 0.48 | " | <0.96 | NS | - | NS | - |
| 2,4-Dinitrotoluene | 0.22 | " | <0.44 | 3.3 | 81 | 3.3 | 82 |
| 4-Nitrophenol | 0.17 | " | <0.34 | 7.0 | 87 | 6.9 | 86 |
| Fluorene | 0.06 | " | <0.12 | NS | - | NS | - |
| 4-Chlorophenylphenylether | 0.09 | " | <0.18 | NS | - | NS | - |
| Diethyl phthalate | 0.11 | " | <0.22 | NS | - | NS | - |
| 4,6-Dinitro-2-methylphenol | 0.16 | " | <0.32 | NS | - | NS | - |
| N-Nitrosodiphenylamine | 0.19 | " | <0.38 | NS | - | NS | - |
| 4-Bromophenylphenylether | 0.04 | " | <0.08 | NS | - | NS | - |
| Hexachlorobenzene | 0.20 | " | <0.40 | NS | - | NS | - |
| Pentachlorophenol | 0.31 | " | <0.62 | 6.7 | 83 | 6.5 | 82 |
| Phenanthrene | 0.03 | " | <0.06 | NS | - | NS | - |
| Anthracene | 0.06 | " | <0.12 | NS | - | NS | - |
| Di-n-butyl phthalate | 0.11 | " | <0.22 | NS | - | NS | - |
| Fluoranthene | 0.05 | " | <0.10 | NS | - | NS | - |
| Pyrene | 0.06 | " | <0.12 | 3.6 | 90 | 3.5 | 88 |
| Benzyl butyl phthalate | 0.10 | " | <0.20 | NS | - | NS | - |
| 3,3-Dichlorobenzidine | 0.34 | " | <0.68 | NS | - | NS | - |
| Benzo(a)anthracene | 0.05 | " | <0.10 | NS | - | NS | - |
| Chrysene | 0.06 | " | <0.12 | NS | - | NS | - |
| Bis(2-ethylhexyl)phthalate | 0.75 | " | <1.5 | NS | - | NS | - |
| Di-n-octyl phthalate | 0.11 | " | <0.22 | NS | - | NS | - |
| Benzo(b)fluoranthene | 0.04 | " | <0.08 | NS | - | NS | - |
| Benzo(k)fluoranthene | 0.04 | " | <0.08 | NS | - | NS | - |

PSC Submission No: 4G0474

Client: NWEC+C Inc. Project: Union Ship Canal

7/23/04

PASC - Certificate of Analysis

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| Component | MDL | Units | Method | Blank | % | Blank Spike | % |
|------------------------|------|-------|-------------|-------------|-------------|-------------|-------------|
| | | | Blank | Spike | Recovery | Duplicate | Recovery |
| | | | 043072 04 | 043072 04 | 043072 04 | 043072 04 | 043072 04 |
| | | | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 | 09-Jul-2004 |
| Benzo(a)pyrene | 0.05 | mg/kg | <0.10 | NS | - | NS | - |
| Indeno(1,2,3-cd)pyrene | 0.06 | " | <0.12 | NS | - | NS | - |
| Dibenzo(a,h)anthracene | 0.06 | " | <0.12 | NS | - | NS | - |
| Benzo(ghi)perylene | 0.05 | " | <0.10 | NS | - | NS | - |
| N-Nitrosodimethylamine | 1.0 | " | <2.0 | NS | - | NS | - |
| Aniline | 0.50 | " | <1.0 | NS | - | NS | - |
| Benzyl alcohol | 0.50 | " | <1.0 | NS | - | NS | - |
| Carbazole | 0.50 | " | <1.0 | NS | - | NS | - |
| 2-Methylphenol | 0.50 | " | <1.0 | NS | - | NS | - |
| 3&4-Methylphenol | 0.50 | " | <1.0 | NS | - | NS | - |
| Benzoic acid | 0.50 | " | <1.0 | NS | - | NS | - |
| 4-Chloroaniline | 0.50 | " | <1.0 | NS | - | NS | - |
| 2-Methylnaphthalene | 0.34 | " | <0.68 | NS | - | NS | - |
| 2,4,5-Trichlorophenol | 0.10 | " | <0.20 | NS | - | NS | - |
| 2-Nitroaniline | 0.50 | " | <1.0 | NS | - | NS | - |
| 3-Nitroaniline | 0.50 | " | <1.0 | NS | - | NS | - |
| Dibenzofuran | 0.50 | " | <1.0 | NS | - | NS | - |
| Benzidine | 0.50 | " | <1.0 | NS | - | NS | - |
| 4-Nitroaniline | 0.50 | " | <1.0 | NS | - | NS | - |
| Surrogate Recoveries | | % | | | | | |
| 2-Fluorophenol | | | 89 | 81 | 81 | 82 | 82 |
| d5-Phenol | | | 96 | 87 | 87 | 87 | 87 |
| d5-Nitrobenzene | | | 87 | 80 | 80 | 81 | 81 |
| 2-Fluorobiphenyl | | | 88 | 81 | 81 | 83 | 83 |
| 2,4,6-Tribromophenol | | | 92 | 90 | 90 | 88 | 88 |
| d14-p-Terphenyl | | | 103 | 97 | 97 | 94 | 94 |

7/23/04

PASC - Summary of Analysis Pre. Dates

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Batch Code: 0721MC01
Acetone 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/21

Batch Code: 0721MC01
cis-1,2-Dichloroethene 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/21

Batch Code: 0719SPA1
Phenol 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/19

Batch Code: 0719SPA1
2-Chloronaphthalene 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/19

Batch Code: 0719SPA1
Di-n-butyl phthalate 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/19

Batch Code: 0719SPA1
N-Nitrosodimethylamine 043072 04
043073 04
Date Analysed: 04/07/21
Date Prepared: 04/07/19

PSC Submission No: 4G0474

Client: NWEC+C Inc. Project: Union Ship Canal

TOTAL P.07

APPENDIX R

CLEAN FILL VERIFICATION LETTERS

May 13, 2004

Destro Bros. Concrete Co., Inc
411 Ludington Street
Buffalo, N.Y. 14206

Attn: Carmen Zagarrío, President

RE: Buffalo's Union Ship Canal - Phase I
Imported Earth Fill Work Plan

Dear Mr. Zagarrío:

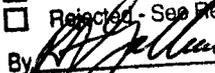
This is to certify that the soil/fill materials that we will be supplying for this project will come from the former Pine Hill site on Genesee Street in Lancaster New York. According to the Soil Management Plan Clarifications, page C-3, "Soil materials obtained from a recognized commercial supplier of soil/fill materials (e.g. Lancaster Stone, Buffalo Crushed Stone, Pine Hill etc.) will be considered "clean" for the purposes of use on site.

If there is anything further that you require, please call me at 998-8404.

Richard K. Hegmann


Quality Control Manager

*Certified
Clean & Virgin
Soil*

| SHOP DRAWING REVIEW | |
|--|------------------------|
| Review is for general compliance with contract documents. Sole responsibility for correctness of dimensions, details, quantities, and compliance with performance specifications, and safety during fabrication and construction shall remain with the Contractor. | |
| <input checked="" type="checkbox"/> | No Exceptions Taken |
| <input type="checkbox"/> | Revise as Noted |
| <input type="checkbox"/> | Amend and Resubmit |
| <input type="checkbox"/> | Rejected - See Remarks |
| By  | Date <i>5/13/04</i> |
| URS Corporation BUFFALO, NEW YORK 14202 | |

*Buffalo Tournament Club
Golf Course*

6432 Genesee Street Lancaster, NY 14086 (716)684-6675

June 9, 2004

Carmen Zagarrio, President
Destro & Brothers Concrete Co, Inc.
411 Ludington Street
Buffalo, NY 14206

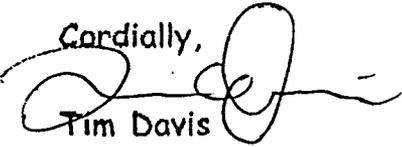
Re: Buffalo's Union Ship Canal
Material Certification

Dear Mr. Zagarrio,

This letter is to certify that the topsoil Destro & Brothers has been provided, at the above location, is virgin soil and native soil material.

Should you require any additional information, please feel free to contact me.

Cordially,


Tim Davis

**BUFFALO CRUSHED STONE, INC.**

Subsidiary of New Enterprise Stone & Lime Co., Inc.

2544 Clinton St. · P.O. Box 710 · Buffalo, NY 14224 · (716) 826-7310 · FAX (716) 826-1342

February 25, 2005

Mr. Carmen Zagarric
Destro Brothers Concrete Co., Inc.
411 Ludington Street
Buffalo, New York 14206

Re: Union Ship Canal

Dear Carmen:

This is to certify that the Aggregate and Blacktop supplied to the above referenced project was produced without contaminants. The following is the NYSDOT approval source numbers for the appropriate plants.

| | | |
|-----------------------------|----------|-------|
| Woodlawn Slag | Plant 81 | 5-17G |
| Franklinville Sand & Gravel | Plant 36 | 5-3G |
| Wehrle & Barton Quarry | Plant 23 | 5-3R |
| Como Park Quarry | Plant 21 | 5-1R |

We trust this meets with your approval.

Sincerely,

A handwritten signature in black ink, appearing to read "Curt Resetarits". The signature is written in a cursive style.

Curt Resetarits
Account Representative

CR:afa



2/28/2005

Destro Bros. Concrete Co., Inc.
411 Ludington Street
Buffalo, N.Y. 14206

Attn: Carmen Zagarrío, President

Re: Union Ship Canal

Dear Mr. Zagarrío,

This is to certify that the materials that were shipped to this project from our Lockport Plant were considered "clean" for the purposes of use on site.

If there is anything further that you require, please contact me at 998-8404.

Yours,

A handwritten signature in black ink, appearing to read 'Richard K. Hegmann', written over a horizontal line.

Richard K. Hegmann
Quality Assurance Manager



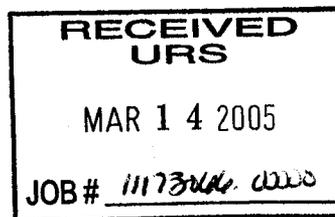
DESTRO & BROTHERS CONCRETE CO., INC.

411 LUDINGTON STREET
BUFFALO, NEW YORK 14206

(716) 893-6043 • FAX: (716) 893-0538

March 11, 2005

DAVE COULTER
URS CORPORATION
77 Goodell Street
Buffalo, NY 14203



**RE: BUFFALO'S UNION SHIP CANAL
PHASE 1**

Dear Mr. Coulter,

This is to certify that the material used on the above project which was stored at Destro & Brothers Concrete Co., Inc, located at 411 Ludington Street, Buffalo, came from the Buffalo Tournament Club property and it is virgin and native soil. (A copy of the Certification letter from Buffalo Tournament Club is attached for your review).

If you need any further clarification, please do not hesitate to contact me.

Sincerely,


Carmen Zagarrio
President

APPENDIX S

MARCH 2, 2004 NYSDEC LETTER APPROVING GROUNDWATER MANAGEMENT PH INCREASE

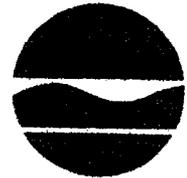
New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9

270 Michigan Avenue, Buffalo, New York, 14203-2999

Phone: (716) 851-7220 • FAX: (716) 851-7226

Website: www.dec.state.ny.us



Erin M. Crotty
Commissioner

March 2, 2004

Mr. Mark Smith
Erie County Industrial Development Agency
275 Oak Street
Buffalo, New York 14203

Dear Mr. Smith:

Hanna Furnace-Subparcels 1 and 2
Site #V-00319-9 and V-00435-9
City of Buffalo, Erie County

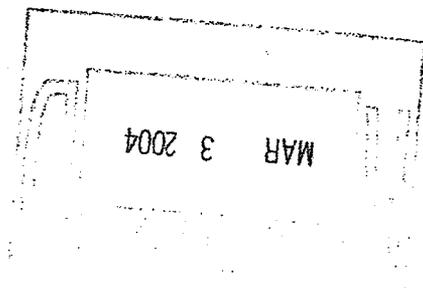
Yesterday afternoon we discussed the proposed procedures for handling elevated pH groundwater that were outlined in the Malcolm Pirnie letter of February 26, 2004. The NYSDEC will allow ECIDA to implement the procedures as proposed on a short term basis only, beginning immediately and ending May 1, 2004. This approval extends only to the current sewer construction project.

If the pH of the water is greater than 11.0, or if there are oily sheens observed on the surface of the water or elevated PID readings or stains found in the excavation, then the water will be contained and properly treated as required in the remedial action work plans.

Sincerely,

David P. Locey
Environmental Engineer I

DPL/tml



APPENDIX T

ERIE COUNTY SEWER DISTRICT PREDISPOSAL CHARACTERIZATION LABORATORY ANALYTICAL RESULTS

Volatile STARS Analysis Report for Non-potable Water

Client: **NWEC&C, Inc**

| | | | |
|--------------------|-----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3288 |
| | | Lab Sample Number: | 10743 |
| Client Job Number: | N/A | | |
| Field Location: | Manhole 3 Cont. Water | Date Sampled: | 12/03/2003 |
| Field ID Number: | 0 | Date Received: | 12/08/2003 |
| Sample Type: | Water | Date Analyzed: | 12/09/2003 |

| Aromatics | Results in ug / L |
|-------------------------|-------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | 37.6 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | 12.6 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | 2.45 |
| o-Xylene | 2.89 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 18043.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogestegert: Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: **NWEC&C, Inc**

| | | | |
|--------------------|-----------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3288 |
| | | Lab Sample Number: | 10743 |
| Client Job Number: | N/A | | |
| Field Location: | Manhole 3 Cont. Water | Date Sampled: | 12/03/2003 |
| Field ID Number: | N/A | Date Received: | 12/08/2003 |
| Sample Type: | Water | Date Analyzed: | 12/11/2003 |

| Base / Neutrals | Results in ug / L | Base / Neutrals | Results in ug / L |
|------------------------------|-------------------|-------------------------------|-------------------|
| Acenaphthene | ND< 10.0 | Dibenz (a,h) anthracene | ND< 10.0 |
| Anthracene | ND< 10.0 | Fluoranthene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 | Fluorene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 | Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 | Naphthalene | 29.5 |
| Benzo (g,h,i) perylene | ND< 10.0 | Phenanthrene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 | Pyrene | ND< 10.0 |
| Chrysene | ND< 10.0 | Acenaphthylene | ND< 10.0 |
| Diethyl phthalate | ND< 10.0 | 1,2-Dichlorobenzene | ND< 10.0 |
| Dimethyl phthalate | ND< 25.0 | 1,3-Dichlorobenzene | ND< 10.0 |
| Butylbenzylphthalate | ND< 10.0 | 1,4-Dichlorobenzene | ND< 10.0 |
| Di-n-butyl phthalate | ND< 10.0 | 1,2,4-Trichlorobenzene | ND< 10.0 |
| Di-n-octylphthalate | ND< 10.0 | Nitrobenzene | ND< 10.0 |
| Bis (2-ethylhexyl) phthalate | 46.4 | 2,4-Dinitrotoluene | ND< 10.0 |
| 2-Chloronaphthalene | ND< 10.0 | 2,6-Dinitrotoluene | ND< 10.0 |
| Hexachlorobenzene | ND< 10.0 | Bis (2-chloroethyl) ether | ND< 10.0 |
| Hexachloroethane | ND< 10.0 | Bis (2-chloroisopropyl) ether | ND< 10.0 |
| Hexachlorocyclopentadiene | ND< 10.0 | Bis (2-chloroethoxy) methane | ND< 10.0 |
| Hexachlorobutadiene | ND< 10.0 | 4-Bromophenyl phenyl ether | ND< 10.0 |
| N-Nitroso-di-n-propylamine | ND< 10.0 | 4-Chlorophenyl phenyl ether | ND< 10.0 |
| N-Nitrosodiphenylamine | ND< 10.0 | Benzidine | ND< 25.0 |
| N-Nitrosodimethylamine | ND< 10.0 | 3,3'-Dichlorobenzidine | ND< 10.0 |
| Isophorone | ND< 10.0 | | |

| Acids | Results in ug / L | Acids | Results in ug / L |
|-------------------------|-------------------|----------------------------|-------------------|
| Phenol | ND< 10.0 | 2,4-Dimethylphenol | ND< 10.0 |
| 2-Chlorophenol | ND< 10.0 | 2-Nitrophenol | ND< 10.0 |
| 2,4-Dichlorophenol | ND< 10.0 | 4-Nitrophenol | ND< 25.0 |
| 2,4,6-Trichlorophenol | ND< 10.0 | 2,4-Dinitrophenol | ND< 10.0 |
| Pentachlorophenol | ND< 25.0 | 4,6-Dinitro-2-methylphenol | ND< 25.0 |
| 4-Chloro-3-methylphenol | ND< 10.0 | | |

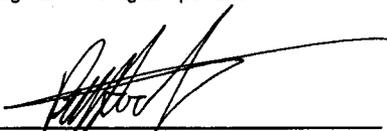
ELAP Number 10958

Method: EPA 625

Data File: 14077.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:



Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: **NWEC&C, Inc**

Client Job Site: Union Ship Canal
 Client Job Number: N/A
 Field Location: Manhole 3 Cont. Water
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 03-3288
 Lab Sample Number: 10743
 Date Sampled: 12/03/2003
 Date Received: 12/08/2003
 Date Analyzed: 12/09/2003

| Halocarbons | Results in ug / L | Halocarbons | Results in ug / L |
|---------------------------|-------------------|---------------------------|-------------------|
| Bromodichloromethane | ND< 2.00 | trans-1,2-Dichloroethene | ND< 2.00 |
| Bromomethane | ND< 2.00 | 1,2-Dichloropropane | ND< 2.00 |
| Bromoform | ND< 2.00 | cis-1,3-Dichloropropene | ND< 2.00 |
| Carbon Tetrachloride | ND< 2.00 | trans-1,3-Dichloropropene | ND< 2.00 |
| Chloroethane | ND< 2.00 | Methylene chloride | ND< 5.00 |
| Chloromethane | ND< 2.00 | 1,1,2,2-Tetrachloroethane | ND< 2.00 |
| 2-Chloroethyl vinyl Ether | ND< 2.00 | Tetrachloroethene | ND< 2.00 |
| Chloroform | ND< 2.00 | 1,1,1-Trichloroethane | ND< 2.00 |
| Dibromochloromethane | ND< 2.00 | 1,1,2-Trichloroethane | ND< 2.00 |
| 1,1-Dichloroethane | ND< 2.00 | Trichloroethene | ND< 2.00 |
| 1,2-Dichloroethane | ND< 2.00 | Trichlorofluoromethane | ND< 2.00 |
| 1,1-Dichloroethene | ND< 2.00 | Vinyl chloride | ND< 2.00 |

| Aromatics | Results in ug / L | Aromatics | Results in ug / L |
|---------------|-------------------|---------------------|-------------------|
| Benzene | ND< 0.700 | 1,2-Dichlorobenzene | ND< 2.00 |
| Chlorobenzene | ND< 2.00 | 1,3-Dichlorobenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 | 1,4-Dichlorobenzene | ND< 2.00 |
| Toluene | ND< 2.00 | | |

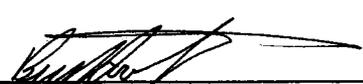
ELAP Number 10958

Method: EPA 624

Data File: 18043.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____


 Bruce Hoogesteger: Technical Director

03-230



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **NWEC&C, Inc.** Lab Project No.: 03-3288

Client Job Site: Union Ship Canal Sample Type: Solid

Client Job No.: N/A Method: SW846 9045C

Date(s) Sampled: 12/03/2003

Date Received: 12/08/2003

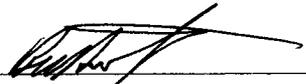
Date Analyzed: 12/08/2003

Laboratory Report for pH Analysis

| Lab Sample No. | Field ID No. | Field Location | pH Results (S.U.) |
|----------------|--------------|-----------------------|-------------------|
| 10743 | N/A | Manhole 3 Cont. Water | 8.84 |
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ELAP ID No.: 10958

Comments:

Approved By: 
 Bruce Hoogesteger, Technical Director

Client: NWEC&C, Inc.
Lab Project No.: 03-3288

Client Job Site: Union Ship Canal

Sample Type: Solid
Method: SW846 1010

Client Job No.: N/A

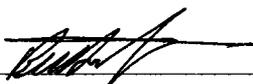
Date(s) Sampled: 12/03/2003
Date Received: 12/08/2003
Date Analyzed: 12/08/2003

Laboratory Report for Flashpoint Analysis

| Lab Sample No. | Field ID No. | Field Location | Flashpoint Results (°C) |
|----------------|--------------|---------------------|-------------------------|
| 10743 | N/A | Manhole Cont. Water | >70 |
| | | | |
| | | | |
| | | | |
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| | | | |
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| | | | |

ELAP ID No.: 10958

Comments:

Approved By:

 Bruce Hoogesteger, Technical Director



Client: **NWEC&C, Inc.**

Client Job Site: Union Ship Canal

Client Job No.: N/A

Field Location: Manhole 3 Cont. Water

Field ID No.: N/A

Lab Project No.: 03-3288

Lab Sample No.: 10743

Sample Type: Water

Date Sampled: 12/03/2003

Date Received: 12/08/2003

Laboratory Report for Metals Analysis in Water

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) |
|-----------|---------------|-------------------|---------------|
| Arsenic | 12/09/2003 | EPA 200.7 | <0.005 |
| Barium | 12/09/2003 | EPA 200.7 | 0.06 |
| Cadmium | 12/09/2003 | EPA 200.7 | <0.005 |
| Chromium | 12/09/2003 | EPA 200.7 | <0.010 |
| Copper | 12/09/2003 | EPA 200.7 | 0.017 |
| Lead | 12/09/2003 | EPA 200.7 | 0.074 |
| Mercury | 12/09/2003 | EPA 200.7 | 0.0024 |
| Nickel | 12/09/2003 | EPA 200.7 | <0.040 |
| Selenium | 12/09/2003 | EPA 200.7 | 0.008 |
| Silver | 12/09/2003 | EPA 200.7 | <0.010 |
| Zinc | 12/09/2003 | EPA 200.7 | 0.113 |
| | | | |
| | | | |
| | | | |

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(505) 647-2530 • (800) 724-1987
FAX: (585) 647-3311

CHAIN OF CUSTODY

PROJECT NAME/SITE NAME:
Union Ship Canal

| | |
|---|--------------------------|
| REPORT TO: | INVOICE TO: |
| COMPANY: <i>NWELAC, Inc</i> | COMPANY: |
| ADDRESS: <i>3553 Crittenden Rd</i> | ADDRESS: |
| CITY: <i>Crittenden</i> STATE: <i>NY</i> ZIP: <i>14018</i> | CITY: STATE: ZIP: |
| PHONE: <i>(216) 937-6527</i> FAX: <i>937-9360</i> | PHONE: FAX: |
| AT THE: <i>Ross Garage / Greg Weber</i> | ATTN: |
| COMMENTS: <i>Please fax a copy of results to NWEACTS, Inc</i> | |
| LAB PROJECT #: | CLIENT PROJECT #: |
| <i>03-3288</i> | |
| TURNAROUND TIME: (WORKING DAYS) | |
| <i>★ Need results 12/9 PM</i> | |
| STD | OTHER |
| <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 | <input type="checkbox"/> |

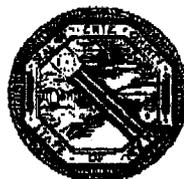
| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINER | STARS | Specificity | pH | 624 | 625 | Metals *see list | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|---------|------|-----------|------|--------------------------|--------|-----------|-------|-------------|----|-----|-----|------------------|--|----------------------------|
| 12/3/03 | | | X | Manhole 3 cont water | Ap | 5 | X | X | X | X | X | X | Metals-Arsenic Barium Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Nickel, Copper, Zinc | 10743 |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATION: *UVA 2* WELDING TIME: TEMPERATURE: *12°C*

| | | | | |
|---------------------------------|---------------------------|---|---------------------------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: <i>12/3/03</i> | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: <i>Bruce B</i> | Date/Time: <i>12/5/03</i> | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: <i>12/5/02</i> | Received @ Lab By: <i>Jane J. O'Leary</i> | Date/Time: <i>12/8/03 11:30</i> | P.J.F. |

12/12/2003 11:44 FAX
12/12/2003 11:25 15856473311
PARADIGM ENV
PAGE 28/88
011



County of Erie

JOEL A. GIAMBRA
COUNTY EXECUTIVE

DEPARTMENT OF ENVIRONMENT & PLANNING

LAURENCE K. RUBIN
COMMISSIONER

CHARLES J. ALESSI, P.E.
DEPUTY COMMISSIONER
Sewerage Management

December 8, 2003

Mr. Gregory Weber
Sr. Project Manager
Nature's Way
3553 Crittenden Road
Crittendon, New York 14038

Re: Erie County Sewer District No
Discharge Request - Former Union Ship Canal Site

Dear Mr. Weber:

The Division of Sewerage Management (DSM) has reviewed the discharge request submitted to this office on December 5, 2003. De-watering operations associated with construction activities have resulted in the accumulation of 63,000 gallons of water in three storage tanks. There is also an additional 105,000 gallons of water for which analytical data is not yet available. Upon review of that information, a determination will be made as to whether or not similar approval will be given.

Based on the information provided in the December 5th request has been approved assuming that following conditions are met:

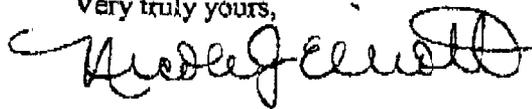
1. The discharge flow rate shall not exceed 25 gallons per minute.
2. The flow enters the sanitary sewer system at the discharge point designated by Erie County Sewer District No. 6 (ECSD No.6).
3. Notification to the ECSD No. 6 treatment plant must be made at least twenty- four hours prior to discharge (tel. 823-5800).

Mr. Gregory Weber
December 8, 2003
Page Two

4. The Erie County Sewer District No.6 treatment plant shall be provided with the name and number of a person to contact if necessary during the discharge.
5. A District representative shall be present upon initiation of discharge.
6. If at any time a problem arises in the collection system, as a result of the discharge, the District may require that operations cease.

As per our conversations, the discharge is scheduled to begin December 9, 2003. If you should have any questions or concerns, please contact me at 858-8756.

Very truly yours,



Nicole J. Elliott
Industrial Wastewater Specialist

NJE:dd
Cc: G. Devlin/T. Whetham/6.2.4.3
G. Absolom/L. Surdej
J. Balcaczyk/J. Kaz

nc/3078



County of Erie

JOEL A. GIAMBRA
COUNTY EXECUTIVE

DEPARTMENT OF ENVIRONMENT & PLANNING

LAURENCE K. RUBIN
COMMISSIONER

December 12, 2003

CHARLES J. ALESSI, P.E.
DEPUTY COMMISSIONER
Sewerage Management

Mr. Gregory Weber
Sr. Project Manager
Nature's Way
3553 Crittenden Road
Crittenden, New York 14038

Re: Erie County Sewer District No. 6
Discharge Request - Former Union Ship Canal Site

Dear Mr. Weber:

The Division of Sewerage Management (DSM) has reviewed the discharge request submitted to this office on December 10, 2003. De-watering operations associated with construction activities have resulted in the accumulation of approximately 105,000 gallons of water in five storage tanks.

Based on the information provided, the December 10th request has been approved assuming that following conditions are met:

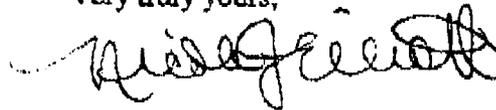
1. The discharge flow rate shall not exceed 25 gallons per minute.
2. The flow shall enter the sanitary sewer system at the discharge point designated by Erie County Sewer District No. 6 (ECSD No.6).
3. Notification to the ECSD No. 6 treatment plant must be made at least twenty- four hours prior to discharge (tel. 823-5800).
4. The Erie County Sewer District No.6 treatment plant shall be provided with the name and number of a person to contact if necessary during the discharge.

Mr. Gregory Weber
December 12, 2003
Page Two

5. There shall be no discharge during the weekend. Discharge shall cease by midnight on Friday.
6. A District representative shall be present upon initiation of discharge.
7. If at any time a problem arises in the collection system, as a result of the discharge, the District may require that operations cease.

If you should have any questions or concerns, please contact me at 358-8756.

Very truly yours,



Nicole J. Elliott
Industrial Wastewater Specialist

NJE:dd

Cc: G. Devlin/T. Whetham/6.2.4.3
G. Absolom/L. Surdej
J. Balcarczyk/J. Kaszubowski

ne/3078

APPENDIX U

CARBON FILTER INFLUENT AND EFFLUENT LABORATORY ANALYTICAL RESULTS

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: **Nature's Way Environmental**

Client Job Site: Union Ship Canal

Lab Project Number: 03-3073

Lab Sample Number: 10126

Client Job Number: N/A

Field Location: Pre-Carbon

Date Sampled: 11/10/2003

Field ID Number: N/A

Date Received: 11/12/2003

Sample Type: Water

Date Analyzed: 11/13/2003

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958

Method: EPA 8270C

Data File: 13812.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:



Bruce Hoogesteger: Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: **Nature's Way Environmental**

| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3073 |
| | | Lab Sample Number: | 10127 |
| Client Job Number: | N/A | | |
| Field Location: | Post-Carbon | Date Sampled: | 11/10/2003 |
| Field ID Number: | N/A | Date Received: | 11/12/2003 |
| Sample Type: | Water | Date Analyzed: | 11/13/2003 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 13813.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

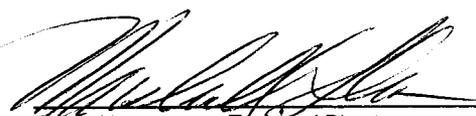
Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3073 |
| | | Lab Sample Number: | 10126 |
| Client Job Number: | N/A | Date Sampled: | 11/10/2003 |
| Field Location: | Pre-Carbon | Date Received: | 11/12/2003 |
| Field ID Number: | N/A | Date Analyzed: | 11/13/2003 |
| Sample Type: | Water | | |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 17419.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Non-potable Water

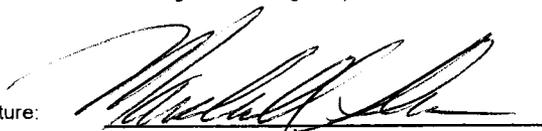
Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3073 |
| Client Job Number: | N/A | Lab Sample Number: | 10127 |
| Field Location: | Post-Carbon | Date Sampled: | 11/10/2003 |
| Field ID Number: | N/A | Date Received: | 11/12/2003 |
| Sample Type: | Water | Date Analyzed: | 11/13/2003 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 17420.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14606
(585) 647-2530 • (800) 724-9997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|---|----------------------|--------------------------------|----------------------------|
| COMPANY: <u>Nature's Way Environmental</u> | COMPANY: <u>JANE</u> | LAB PROJECT #: | CLIENT PROJECT #: |
| ADDRESS: <u>3555 Carthagen Road</u> | ADDRESS: | <u>03-3073</u> | |
| CITY: <u>Carthagen</u> STATE: <u>NY</u> ZIP: <u>14037</u> | CITY: STATE: ZIP: | TURNAROUND TIME (WORKING DAYS) | |
| PHONE: <u>(716) 937-8527</u> FAX: <u>(716) 937-9360</u> | PHONE: FAX: | <u>with 3 days</u> | |
| ATTN: <u>Kate Savage Tracy Weber</u> | ATTN: | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| COMMENTS: <u>Please Fax a copy of results</u> | | <input type="checkbox"/> 3 | <input type="checkbox"/> 5 |
| | | STD OTHER | |
| | | <u>Wants 11/14</u> | |

PROJECT NAME: Union Strip Canal

| DATE | TIME | COMPOSITE | LAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNT NUMBERS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------|------|-----------|-----|--------------------------|--------|---------------|---------|----------------------------|
| 11/10/03 | 3:00 | X | | Prc Carbon | Soil | 3 XX | | 10126 |
| 11/10/03 | 3:15 | X | | Post Carbon | Soil | 3 XY | | 10127 |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

LAB USE ONLY

SAMPLE CONTAINED IN CHECK BOX: If acceptable for laboratory use.

CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 13°C

N/A

| | | | | |
|----------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------|
| Sampled By: <u>[Signature]</u> | Date/Time: <u>11/10/03 3:15pm</u> | Relinquished By: <u>[Signature]</u> | Date/Time: <u>11/10/03</u> | Total Cost: |
| Requested By: <u>[Signature]</u> | Date/Time: <u>11/10/03</u> | Received By: <u>[Signature]</u> | Date/Time: <u>11/10/03</u> | |
| Received By: <u>[Signature]</u> | Date/Time: <u>11/10/03 4:39pm</u> | Received @ Lab By: <u>[Signature]</u> | Date/Time: <u>11/12/03 @ 9:15</u> | P.I.F. |

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|--------------------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3238 |
| | | Lab Sample Number: | 10637 |
| Client Job Number: | N/A | | |
| Field Location: | Staged Water Before Filtration | Date Sampled: | 11/26/2003 |
| Field ID Number: | N/A | Date Received: | 12/01/2003 |
| Sample Type: | Water | Date Analyzed: | 12/02/2003 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 17953.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger
Bruce Hoogesteger: Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Natures Way Environmental

| | | | |
|---------------------------|-------------------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3238 |
| | | Lab Sample Number: | 10637 |
| Client Job Number: | N/A | | |
| Field Location: | Staged Water Before Filtratic | Date Sampled: | 11/26/2003 |
| Field ID Number: | N/A | Date Received: | 12/01/2003 |
| Sample Type: | Water | Date Analyzed: | 12/02/2003 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 14001.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

03-230

pH Analysis Report

Client: Nature's Way Environmental

Client Job Site: Union Ship Canal Lab Project Number: 03-3238
 Client Job Number: N/A
 Date Sampled: 11/26/2003
 Date Received: 12/01/2003
 Sample Type: Water Date Analyzed: 12/01/2003

| Lab Sample Number | Field Number | Field Location | Result (pH) |
|-------------------|--------------|--------------------------------|-------------|
| 10637 | N/A | Staged Water Before Filtration | 8.75 |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP Number 10958

Method: EPA 9040

Comments:

Signature:


 Bruce Hoogesteger, Technical Director



LABORATORY REPORT OF ANALYSIS

| | | | |
|---------------------------|-----------------------------------|-------------------------|------------|
| Client: | <u>Nature's Way Environmental</u> | Lab Project No.: | 03-3238 |
| Client Job Site: | Union Ship Canal | Sample Type: | Water |
| Client Job No.: | N/A | Date Sampled: | 11/26/2003 |
| Analytical Method: | EPA 410.4 | Date Received: | 12/01/2003 |
| | | Date Analyzed: | 12/03/2003 |

| Lab Sample ID | Sample Location/Field ID | Chemical Oxygen Demand (mg/L) |
|---------------|--------------------------------|-------------------------------|
| 10637 | Staged Water Before Filtration | 13 |
| | | |
| | | |
| | | |

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger



PARADIGM

ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Nature's Way Environmental

Lab Project No.: 03-3238

Lab Sample No.: 10637

Client Job Site: Union Ship Canal

Sample Type: Water

Client Job No.: N/A

Date Sampled: 11/26/2003

Field Location: Staged Water Before Filtration

Date Received: 12/01/2003

| Parameter | Date Analyzed | Analytical Method | Result (mg/l) |
|--------------|---------------|-------------------|---------------|
| Oil & Grease | 12/02/2003 | SW-846, 1664 | ND<6 |
| TSS | 12/01/2003 | SM-18, 2540D | ND<9 |

ELAP ID.No.: 10249

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogesteger



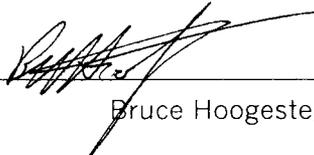
| | | | |
|-------------------------|-----------------------------------|-------------------------|------------|
| Client: | <u>Nature's Way Environmental</u> | Lab Project No.: | 03-3238 |
| | | Lab Sample No.: | 10637 |
| Client Job Site: | Union Ship Canal | Sample Type: | Water |
| Client Job No.: | N/A | Date Sampled: | 11/26/2003 |
| Field Location: | Staged Water Before Filtration | Date Received: | 12/01/2003 |
| Field ID No.: | N/A | | |

Laboratory Report for Metals Analysis

| Parameter | Date Analyzed | Analytical Method | Result (mg/L) |
|-----------|---------------|-------------------|---------------|
| Lead | 12/03/2003 | EPA 200.7 | <0.005 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELAP ID No.:10958

Comments:

Approved By:  _____
 Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|-------------------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3238 |
| | | Lab Sample Number: | 10636 |
| Client Job Number: | N/A | | |
| Field Location: | Staged Water After Filtration | Date Sampled: | 11/25/2003 |
| Field ID Number: | N/A | Date Received: | 12/01/2003 |
| Sample Type: | Water | Date Analyzed: | 12/02/2003 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 17952.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Natures Way Environmental

| | | | |
|---------------------------|-------------------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3238 |
| | | Lab Sample Number: | 10636 |
| Client Job Number: | N/A | | |
| Field Location: | Staged Water After Filtration | Date Sampled: | 11/25/2003 |
| Field ID Number: | N/A | Date Received: | 12/01/2003 |
| Sample Type: | Water | Date Analyzed: | 12/02/2003 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 14000.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
 Rochester, NY 14608
 (585) 647-2500 • (800) 724-1997
 FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|--|---------------------------------------|--|-------------------|
| COMPANY: <u>Nature's Way Environ</u> | COMPANY: <u>Sams</u> | LAB PROJECT #: <u>03-3238</u> | CLIENT PROJECT #: |
| ADDRESS: <u>3530 Winton Rd</u> | ADDRESS: | TURNAROUND TIME: (WORKING DAYS) | |
| CITY: <u>Crittenden</u> STATE: <u>NJ</u> ZIP: <u>14038</u> | CITY: STATE: ZIP: | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> <input type="checkbox"/> | |
| PHONE: <u>716 9376527</u> FAX: <u>(716) 9379360</u> | PHONE: FAX: | STD OTHER | |
| PROJECT NAME/SITE NAME: <u>Union Ship Canal</u> | ATTN: <u>Russ Savage / Greg Weber</u> | 12/3/03 | |
| COMMENTS: <u>procedures</u> | | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINERS | 802 STARS | 8270 STARS | PH | LEAD | Total Suspense Solids | COD | Total Extractable | Total oil & GC | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|------|------|-----------|------|--------------------------------|--------|------------|-----------|------------|----|------|-----------------------|-----|-------------------|----------------|---------------------|----------------------------|
| 1/25 | | | * | Staged Water After Filtration | water | 4 | * | * | * | * | * | * | * | | only UOA/SUOA Stars | 10636 |
| 2/26 | | | * | STAGED water before Filtration | water | 8 | * | * | * | * | * | * | * | | | 10637 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation.

CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 14°C

VOAS <2 COD, Pb, O+G <2 @ lab. 10636 HT up 12/2 10637 HT up 12/3

| | | | | |
|---------------------------------|----------------------------|--|-----------------------------------|-------------|
| Sampled By: <u>[Signature]</u> | Date/Time: <u>11/26/03</u> | Relinquished By: <u>[Signature]</u> | Date/Time: <u>11/26/03</u> | Total Cost: |
| Received By: <u>[Signature]</u> | Date/Time: <u>11/26/03</u> | Received @ Lab By: <u>Pamela M. Blak</u> | Date/Time: <u>12/1/03 @ 10:50</u> | P.I.F.: |

Volatile STARS Analysis Report for Non-potable Water

Client: **Nature's Way Environmental**

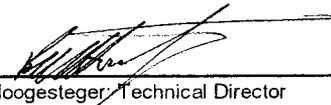
| | | | |
|--------------------|------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3461 |
| | | Lab Sample Number: | 11308 |
| Client Job Number: | N/A | Date Sampled: | 12/30/2003 |
| Field Location: | Pre-Carbon | Date Received: | 12/31/2003 |
| Field ID Number: | N/A | Date Analyzed: | 01/02/2004 |
| Sample Type: | Water | | |

| Aromatics | Results in ug / L |
|-------------------------|-------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-Butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 67699.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|-----------------|----------------------------|------------|
| Client Job Site: | Union Ship Yard | Lab Project Number: | 03-3461 |
| | | Lab Sample Number: | 11308 |
| Client Job Number: | N/A | Date Sampled: | 12/30/2003 |
| Field Location: | Pre-Carbon | Date Received: | 12/31/2003 |
| Field ID Number: | N/A | Date Analyzed: | 01/02/2004 |
| Sample Type: | Water | | |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 14376.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

PHC Analysis Report for Non-potable Water

Client: Nautre's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3461 |
| Client Job Number: | N/A | Lab Sample Number: | 11308 |
| Field Location: | Pre-Carbon | Date Sampled: | 12/30/2003 |
| Field ID Number: | N/A | Date Received: | 12/31/2003 |
| Sample Type: | Water | Date Analyzed: | 01/02/2004 |

| PHC Classification | Results in ug / L |
|-----------------------|-------------------|
| Petroleum Hydrocarbon | ND < 250 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / L = microgram per Liter
PHC = Petroleum Hydrocarbon

Signature: _____


Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

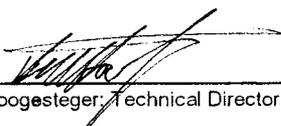
Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3461 |
| Client Job Number: | N/A | Lab Sample Number: | 11309 |
| Field Location: | Post Carbon | Date Sampled: | 12/30/2003 |
| Field ID Number: | N/A | Date Received: | 12/31/2003 |
| Sample Type: | Water | Date Analyzed: | 01/02/2004 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-Butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 67700.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger, Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

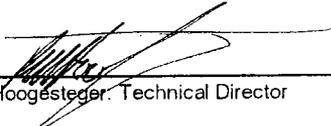
| | | | |
|---------------------------|-----------------|----------------------------|------------|
| Client Job Site: | Union Ship Yard | Lab Project Number: | 03-3461 |
| | | Lab Sample Number: | 11309 |
| Client Job Number: | N/A | Date Sampled: | 12/30/2003 |
| Field Location: | Post-Carbon | Date Received: | 12/31/2003 |
| Field ID Number: | N/A | Date Analyzed: | 01/02/2004 |
| Sample Type: | Water | | |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 14377.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

PHC Analysis Report for Non-potable Water

Client: Nautre's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 03-3461 |
| Client Job Number: | N/A | Lab Sample Number: | 11309 |
| Field Location: | Post-Carbon | Date Sampled: | 12/30/2003 |
| Field ID Number: | N/A | Date Received: | 12/31/2003 |
| Sample Type: | Water | Date Analyzed: | 01/02/2004 |

| PHC Classification | Results in ug / L |
|-----------------------|-------------------|
| Petroleum Hydrocarbon | ND< 250 |

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / L = microgram per Liter
PHC = Petroleum Hydrocarbon

Signature: _____


Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|--|---------------------------------|---|--|
| COMPANY: <u>Nature's Way Environmental</u> | COMPANY: <u>same</u> | LAB PROJECT #: <u>03-3461</u> | CLIENT PROJECT #: |
| ADDRESS: <u>3553 Crittenden Rd.</u> | ADDRESS: | <input checked="" type="checkbox"/> (ROUND/TIME MARKING DAYS) <u>Rush</u> need results <u>1/5/03 PM</u> | |
| CITY: <u>Crittenden, New York</u> STATE: <u>14038</u> ZIP: | CITY: STATE: ZIP: | | |
| PHONE: <u>(716) 937-6527</u> FAX: <u>937-9360</u> | PHONE: FAX: | | |
| PROJECT NAME/SITE NAME: <u>Union Ship Canal</u> | ATTN: <u>R. Savage/G. Weber</u> | ATTN: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> OTHER |
| COMMENTS: <u>Please fax report</u> | | | |

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNTABLES | 8021 STARS | 8270 STARS | 310.13 | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|-------------------|------|-----------|-------------------------------------|---|----------|------------|------------|------------|--------|---------|----------------------------|
| 1 <u>12/30/03</u> | | | <input checked="" type="checkbox"/> | <u>Containerized Petroleum Contam. Water Pre-Carbon Aqu.</u> | <u>5</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | <u>11308</u> |
| 2 <u>12/30/03</u> | | | <input checked="" type="checkbox"/> | <u>Containerized Petroleum Contam. Water Post-Carbon Aqu.</u> | <u>5</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | <u>11309</u> |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: 13°C

| | | | | | |
|--------------------------------------|------------------------------------|--------------------------------------|----------------------------------|--------------------------|-------------|
| Sampled By: <u>Angie Anstra</u> | Date/Time: <u>12/30/03 3 P.M.</u> | Relinquished By: <u>Angie Anstra</u> | Date/Time: <u>12/30/03 3 PM</u> | TEMPERATURE: <u>13°C</u> | Total Cost: |
| Received By: <u>Michael M. Mahan</u> | Date/Time: <u>12/31/03 1:40 PM</u> | Received By: <u>Bill Bean</u> | Date/Time: <u>12/31/03 17:40</u> | | P.I.F. |

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: **NWEC&C, Inc**

| | | | |
|--------------------|-----------------------|---------------------|------------|
| Client Job Site: | Union Ship Yard | Lab Project Number: | 04-0553 |
| Client Job Number: | N/A | Lab Sample Number: | 2406 |
| Field Location: | Area #3B Carbon Pilot | Date Sampled: | 02/26/2004 |
| Field ID Number: | N/A | Date Received: | 03/01/2004 |
| Sample Type: | Water | Date Analyzed: | 03/02/2004 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 18238.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
FEC: Bruce Hoogesteger, Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: NWEC&C, Inc

| | | | |
|--------------------|-----------------|---------------------|------------|
| Client Job Site: | Union Ship Yard | Lab Project Number: | 04-0553 |
| Client Job Number: | N/A | Lab Sample Number: | 2407 |
| Field Location: | Area #3B | Date Sampled: | 02/26/2004 |
| Field ID Number: | N/A | Date Received: | 03/01/2004 |
| Sample Type: | Water | Date Analyzed: | 03/02/2004 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 18239.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

| | | | |
|---|----------------------|--|-------------------|
| COMPANY: NWEC & C, Inc | COMPANY: SAME | LAB PROJECT #: AF-0553 | CLIENT PROJECT #: |
| ADDRESS: 3553 Crittenden Rd | ADDRESS: | TURNAROUND TIME (WORKING DAYS) | |
| CITY: Crittenden STATE: NY ZIP: 14038 | CITY: STATE: ZIP: | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> STD <input type="checkbox"/> OTHER <input type="checkbox"/> | |
| PHONE: (716) 937-6527 FAX: 937-9360 | PHONE: FAX: | | |
| ATTN: Russ Savage / Greg Weber | ATTN: | | |
| COMMENTS: Please fax a copy of results to NWEC&C, Inc @ above number | | | |

PROJECT NAME/SITE NAME:
Union Ship Canal

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | COUNT | NUMBER | STARS | STARS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|-----------|------|-----------|------|--------------------------|--------|-------|--------|-------|-------|---------|----------------------------|
| 1 2/26/04 | | | X | Area #2A Carbon Pilot | 4 | 4 | ✓ | ✓ | | | 2404 |
| 2 2/26/04 | | | X | Area #3A Carbon Pilot | 4 | 4 | ✓ | ✓ | | | 2405 |
| 3 2/26/04 | | | X | Area #3B Carbon Pilot | 4 | 4 | ✓ | ✓ | | | 2406 |
| 4 2/26/04 | | | ✓ | Area #3B | 4 | 4 | ✓ | ✓ | | | 2407 |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE: **8°C iced**

| | | | |
|---|--|------------|-------------|
| Sampled By: Jon Neuberger Date/Time: 2/26/04 | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: James D. Blawie Date/Time: 2/27/04 | Received By: | Date/Time: | |
| Received By: John Hoff Date/Time: 2/27/04 3:00PM | Received @ Lab By: Jane J. Delois Date/Time: 3/1/04 0930 | P.I.F.: | |

APPENDIX V

NAPL AREAS GROUNDWATER LABORATORY

ANALYTICAL RESULTS

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: **NWEC&C**

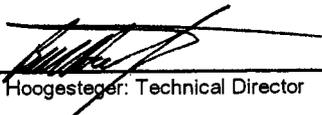
| | | | |
|--------------------|---------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0453 |
| | | Lab Sample Number: | 2074 |
| Client Job Number: | N/A | | |
| Field Location: | Containerized Water | Date Sampled: | 02/18/2004 |
| Field ID Number: | N/A | Date Received: | 02/19/2004 |
| Sample Type: | Water | Date Analyzed: | 02/23/2004 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 15062.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: **NWEC&C**

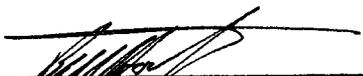
| | | | |
|--------------------|---------------------|---------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0453 |
| | | Lab Sample Number: | 2074 |
| Client Job Number: | N/A | Date Sampled: | 02/18/2004 |
| Field Location: | Containerized Water | Date Received: | 02/19/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/20/2004 |
| Sample Type: | Water | | |

| Aromatics | Results in ug / L |
|-------------------------|-------------------|
| Benzene | 6.32 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | 2.09 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | 8.18 |
| Toluene | 10.1 |
| 1,2,4-Trimethylbenzene | 8.11 |
| 1,3,5-Trimethylbenzene | 2.07 |
| m,p-Xylene | 10.5 |
| o-Xylene | 4.22 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19101.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO

INVOICE TO

| | | | |
|--|----------------------|---|-------------------|
| COMPANY: <u>NINECC</u> | COMPANY: <u>Same</u> | LAB PROJECT #: | CLIENT PROJECT #: |
| ADDRESS: <u>3553 Crittendon Rd.</u> | ADDRESS: | <u>04-0453</u> | |
| CITY: <u>Crittenden</u> STATE: <u>New York</u> ZIP: <u>14038</u> | CITY: STATE: ZIP: | TURNAROUND TIME: (WORKING DAYS) | |
| PHONE: <u>647-937-4527</u> <u>937-9360</u> | PHONE: FAX: | <u>3 Day</u> | STD OTHER |
| ATTN: <u>R. Savage / G. Weber</u> | ATTN: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 | |
| COMMENTS: <u>Please fax report</u> | | <u>2/23/04</u> | |

PROJECT NAME/SITE NAME:

Union Ship Canal

REQUESTED ANALYSIS

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONUTMABINERS | 8021 STARS | 8270 STARS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|----------------|------|-----------|----------|---|-------------|---------------|------------|------------|---------|----------------------------|
| <u>2/18/04</u> | | | <u>x</u> | <u>Containerized water from NAPL Area</u> | <u>Aqua</u> | <u>3</u> | <u>x</u> | <u>x</u> | | <u>8270</u> |
| <u>2</u> | | | | | | | | | | |
| <u>3</u> | | | | | | | | | | |
| <u>4</u> | | | | | | | | | | |
| <u>5</u> | | | | | | | | | | |
| <u>6</u> | | | | | | | | | | |
| <u>7</u> | | | | | | | | | | |
| <u>8</u> | | | | | | | | | | |
| <u>9</u> | | | | | | | | | | |
| <u>10</u> | | | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE:

| | | |
|--|---|-------------|
| Sampled By: <u>Joel Neubauer</u> Date/Time: <u>2/18/04</u> | Relinquished By: _____ Date/Time: _____ | Total Cost: |
| Relinquished By: _____ Date/Time: <u>2/18/04</u> | Received By: _____ Date/Time: _____ | |
| Received By: <u>M. [unclear]</u> Date/Time: <u>2/18/04 3:50 PM</u> | Received @ Lab By: _____ Date/Time: _____ | P.I.F. |

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0529 |
| Client Job Number: | N/A | Lab Sample Number: | 2313 |
| Field Location: | Tank #3 | Date Sampled: | 02/23/2004 |
| Field ID Number: | N/A | Date Received: | 02/26/2004 |
| Sample Type: | Water | Date Analyzed: | 03/02/2004 |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | 11.1 |
| Pyrene | 10.3 |

ELAP Number 10958 Method: EPA 8270C Data File: 18233.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0529 |
| | | Lab Sample Number: | 2313 |
| Client Job Number: | N/A | Date Sampled: | 02/23/2004 |
| Field Location: | Tank #3 | Date Received: | 02/26/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/27/2004 |
| Sample Type: | Water | | |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19326.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

| | | | |
|-------------------|-------------------|---------------------------------|-------------------|
| COMPANY: | COMPANY: | LAB PROJECT #: | CLIENT PROJECT #: |
| ADDRESS: | ADDRESS: | TURNAROUND TIME: (WORKING DAYS) | |
| CITY: STATE: ZIP: | CITY: STATE: ZIP: | 1 | 2 |
| PHONE: FAX: | PHONE: FAX: | 3 | 5 |
| ATTN: | ATTN: | STD | OTHER |
| COMMENTS: | | | |

PROJECT NAME/SITE NAME:

REQUESTED ANALYSIS

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINER | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|------|------|-----------|------|--------------------------|--------|-----------|---------|----------------------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE:

| | | | | |
|-------------------------------------|-----------------------------------|--------------------|------------|-------------|
| Sampled By: <i>[Signature]</i> | Date/Time: <i>2/24/04</i> | Relinquished By: | Date/Time: | Total Cost: |
| Relinquished By: <i>[Signature]</i> | Date/Time: <i>2/24/04</i> | Received By: | Date/Time: | |
| Received By: <i>[Signature]</i> | Date/Time: <i>2/24/04 3:55 PM</i> | Received @ Lab By: | Date/Time: | P.I.F. |

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| | | Lab Sample Number: | 2377 |
| Client Job Number: | N/A | Date Sampled: | 02/24/2004 |
| Field Location: | Tank #1 | Date Received: | 02/27/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/01/2004 |
| Sample Type: | Water | | |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 18192.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

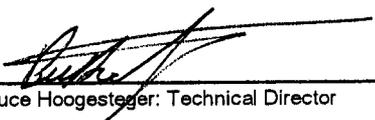
Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| | | Lab Sample Number: | 2378 |
| Client Job Number: | N/A | Date Sampled: | 02/24/2004 |
| Field Location: | Tank #2 | Date Received: | 02/27/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/01/2004 |
| Sample Type: | Water | | |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 18193.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger: Technical Director

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

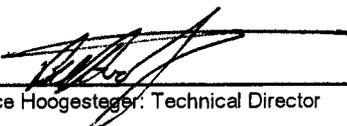
| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| | | Lab Sample Number: | 2379 |
| Client Job Number: | N/A | Date Sampled: | 02/24/2004 |
| Field Location: | Tank #3 | Date Received: | 02/27/2004 |
| Field ID Number: | N/A | Date Analyzed: | 03/01/2004 |
| Sample Type: | Water | | |

| Base / Neutrals | Results in ug / L |
|--------------------------|-------------------|
| Acenaphthene | ND< 10.0 |
| Anthracene | ND< 10.0 |
| Benzo (a) anthracene | ND< 10.0 |
| Benzo (a) pyrene | ND< 10.0 |
| Benzo (b) fluoranthene | ND< 10.0 |
| Benzo (g,h,i) perylene | ND< 10.0 |
| Benzo (k) fluoranthene | ND< 10.0 |
| Chrysene | ND< 10.0 |
| Dibenz (a,h) anthracene | ND< 10.0 |
| Fluoranthene | ND< 10.0 |
| Fluorene | ND< 10.0 |
| Indeno (1,2,3-cd) pyrene | ND< 10.0 |
| Naphthalene | ND< 10.0 |
| Phenanthrene | ND< 10.0 |
| Pyrene | ND< 10.0 |

ELAP Number 10958 Method: EPA 8270C Data File: 18194.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| Client Job Number: | N/A | Lab Sample Number: | 2377 |
| Field Location: | Tank #1 | Date Sampled: | 02/24/2004 |
| Field ID Number: | N/A | Date Received: | 02/27/2004 |
| Sample Type: | Water | Date Analyzed: | 02/27/2004 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | 7.52 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | 7.85 |
| 1,3,5-Trimethylbenzene | 2.27 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19321.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
Bruce Hoogesteger, Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| | | Lab Sample Number: | 2378 |
| Client Job Number: | N/A | Date Sampled: | 02/24/2004 |
| Field Location: | Tank #2 | Date Received: | 02/27/2004 |
| Field ID Number: | N/A | Date Analyzed: | 02/27/2004 |
| Sample Type: | Water | | |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | 4.29 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19324.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile STARS Analysis Report for Non-potable Water

Client: Nature's Way Environmental

| | | | |
|---------------------------|------------------|----------------------------|------------|
| Client Job Site: | Union Ship Canal | Lab Project Number: | 04-0543 |
| | | Lab Sample Number: | 2379 |
| Client Job Number: | N/A | | |
| Field Location: | Tank #3 | Date Sampled: | 02/24/2004 |
| Field ID Number: | N/A | Date Received: | 02/27/2004 |
| Sample Type: | Water | Date Analyzed: | 02/27/2004 |

| Aromatics | Results in ug / L |
|-------------------------|--------------------------|
| Benzene | ND< 0.700 |
| n-Butylbenzene | ND< 2.00 |
| sec-Butylbenzene | ND< 2.00 |
| tert-Butylbenzene | ND< 2.00 |
| Ethylbenzene | ND< 2.00 |
| n-Propylbenzene | ND< 2.00 |
| Isopropylbenzene | ND< 2.00 |
| p-Isopropyltoluene | ND< 2.00 |
| Naphthalene | ND< 5.00 |
| Toluene | ND< 2.00 |
| 1,2,4-Trimethylbenzene | ND< 2.00 |
| 1,3,5-Trimethylbenzene | ND< 2.00 |
| m,p-Xylene | ND< 2.00 |
| o-Xylene | ND< 2.00 |
| Miscellaneous | |
| Methyl tert-butyl Ether | ND< 2.00 |

ELAP Number 10958 Method: EPA 8021B (GC/MS) Data File: 19325.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hodgester: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

PROJECT NAME/SITE NAME:

Low slope
Roof

| | | | | | | | |
|--|----------------------------|-------------------|-----------------------|--------|------|--|----------------------------|
| REPORT TO: | | | INVOICE TO: | | | LAB PROJECT #: | CLIENT PROJECT #: |
| COMPANY: <i>NEEDS WAY Environmental</i> | | | COMPANY: <i>Small</i> | | | <i>04-0813</i> | |
| ADDRESS: <i>3553 Colton Rd</i> | | | ADDRESS: | | | TURNAROUND TIME: (WORKING DAYS) <i>24 HR on 1 & 2</i> | |
| CITY: <i>Colton</i> | STATE: <i>NY</i> | ZIP: <i>14022</i> | CITY: | STATE: | ZIP: | <i>48 HR on 3</i> | STD |
| PHONE: <i>(716) 421-1111</i> | FAX: <i>(716) 421-1111</i> | | PHONE: | FAX: | | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| ATTN: <i>Environmental/Leads</i> | ATTN: | | ATTN: | | | <input type="checkbox"/> 3 | <input type="checkbox"/> 5 |
| COMMENTS: <i>Roof for cleanup of materials to be used in the future. See other number.</i> | | | | | | | |

REQUESTED ANALYSIS

| DATE | TIME | COMPOSITE | GRAB | SAMPLE LOCATION/FIELD ID | MATRIX | CONTAINERS | 8020 STARS | 8270 STARS | REMARKS | PARADIGM LAB SAMPLE NUMBER |
|------|----------------|-----------|------|--------------------------|-------------|------------|------------|------------|---------------------------------|----------------------------|
| 1 | <i>1/26/04</i> | | X | <i>Zone #1 mid back</i> | <i>Asst</i> | 6 | X | X | <i>(= Area # 2A)</i> | <i>20111</i> |
| 2 | <i>1/26/04</i> | | X | <i>Zone #2 mid back</i> | | 3 | X | X | <i>(= Area # 2B)</i> | <i>20112</i> |
| 3 | <i>1/26/04</i> | | X | <i>Zone #3 mid back</i> | | 3 | X | X | <i>(= Area # 3A)</i> | <i>20113</i> |
| 4 | | | | | | | | | <i>CKC - 1/26/04 on 1/26/04</i> | |
| 5 | | | | | | | | | <i>1/27/04 on 1/26/04</i> | |
| 6 | | | | | | | | | <i>1/27/04 on 1/26/04</i> | |
| 7 | | | | | | | | | <i>1/27/04 on 1/26/04</i> | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: PRESERVATIONS: HOLDING TIME: TEMPERATURE:

| | | | | |
|-------------------------------------|-----------------------------------|---------------------------------------|---------------------------|----------------------------|
| Sampled By: <i>[Signature]</i> | Date/Time: <i>1/26/04</i> | Relinquished By: <i>[Signature]</i> | Date/Time: <i>1/26/04</i> | Total Cost: <i>1400.00</i> |
| Relinquished By: <i>[Signature]</i> | Date/Time: <i>2/26/04</i> | Received By: <i>[Signature]</i> | Date/Time: <i>2/26/04</i> | |
| Received By: <i>[Signature]</i> | Date/Time: <i>2/26/04 10:30am</i> | Received @ Lab By: <i>[Signature]</i> | Date/Time: <i>2/26/04</i> | |

Certificate of Analysis

CLIENT INFORMATION

Attention: Russ Savage
Client Name: NWECC Inc.
Project: Union Ship Canal
Project Desc: Union Ship Canal

Address: 3553 Crittenden Rd.
Crittenden, NY
14038

Fax Number: 716-937-9360

Phone Number: 716-937-6527

LABORATORY INFORMATION

Contact: Mike Challis, B.Sc, C.Chem.
Project: AN040300
Date Received: 04-Mar-2004
Date Reported: 12-Mar-2004

Submission No.: 4C0186

Sample No.: 010304-010305

NOTES: *'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the
interpretation of the data.*

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: _____

| Component | MDL | Units | NAPL AREA | Method | Blank Water | % | Blank Spike | % |
|------------------------|-----|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 3 EXCAVAT. | Blank Water | Spike | Recovery | Duplicate | Recovery |
| | | | 010305 04 | 010304 04 | 010304 04 | 010304 04 | 010304 04 | 010304 04 |
| | | | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 | 03-Mar-2004 |
| pH of VOC vials | | | 1.50 | 7.00 | - | - | - | - |
| Benzene | 0.5 | ug/L | < | < | 48 | 95 | - | - |
| Ethylbenzene | 0.5 | " | < | < | 51 | 100 | - | - |
| Toluene | 0.5 | " | < | < | 50 | 100 | - | - |
| m&p-Xylene | 1.0 | " | < | < | 100 | 100 | - | - |
| o-Xylene | 0.5 | " | < | < | 50 | 100 | - | - |
| Xylenes(Total) | 1.0 | " | < | < | 150 | 100 | - | - |
| Isopropylbenzene | 0.5 | " | < | < | 45 | 91 | - | - |
| n-Propylbenzene | 0.5 | " | < | < | 46 | 92 | - | - |
| p-Isopropyltoluene | 0.5 | " | < | < | 43 | 85 | - | - |
| 1,2,4-Trimethylbenzene | 0.5 | " | < | < | 45 | 90 | - | - |
| 1,3,5-Trimethylbenzene | 0.5 | " | < | < | 48 | 96 | - | - |
| n-Butylbenzene | 0.5 | " | < | < | 41 | 82 | - | - |
| sec-Butylbenzene | 0.5 | " | < | < | 45 | 90 | - | - |
| tert-Butylbenzene | 0.5 | " | < | < | 45 | 90 | - | - |
| Naphthalene | 0.5 | " | 0.6 | < | 50 | 100 | - | - |
| Methyl-t-butylether | 0.5 | " | < | < | NS | - | - | - |
| Surrogate Recoveries | | % | | | | | | |
| d4-1,2-Dichloroethane | | | 75 | 75 | 83 | 83 | - | - |
| d8-Toluene | | | 89 | 89 | 89 | 89 | - | - |
| Bromofluorobenzene | | | 84 | 87 | 91 | 91 | - | - |
| Naphthalene | 0.3 | ug/L | 0.60 | < | 16 | 82 | 16 | 82 |
| Acenaphthene | 0.7 | " | < | < | 19 | 96 | 19 | 96 |
| Fluorene | 0.3 | " | < | < | 19 | 95 | 19 | 95 |
| Phenanthrene | 0.3 | " | 0.6 | < | 18 | 91 | 18 | 92 |
| Anthracene | 0.3 | " | < | < | 20 | 98 | 19 | 96 |
| Fluoranthene | 0.2 | " | 0.4 | < | 18 | 92 | 18 | 91 |
| Pyrene | 0.3 | " | < | < | 17 | 82 | 17 | 85 |
| Benz(a)anthracene | 0.2 | " | 0.4 | < | 20 | 97 | 20 | 98 |
| Chrysene | 0.3 | " | 0.4 | < | 19 | 97 | 19 | 97 |
| Benzo(b)fluoranthene | 0.4 | " | < | < | 19 | 94 | 19 | 94 |
| Benzo(k)fluoranthene | 0.4 | " | < | < | 19 | 95 | 19 | 95 |
| Benzo(a)pyrene | 0.5 | " | < | < | 19 | 95 | 19 | 96 |
| Indeno(1,2,3-cd)pyrene | 0.6 | " | < | < | 20 | 100 | 20 | 99 |
| Dibenzo(ah)anthracene | 0.4 | " | < | < | 20 | 100 | 20 | 97 |
| Benzo(ghi)perylene | 0.4 | " | < | < | 20 | 100 | 20 | 100 |
| Surrogate Recoveries | | % | | | | | | |
| d5-Nitrobenzene | | | 62 | 66 | 67 | 67 | 67 | 67 |
| 2-Fluorobiphenyl | | | 67 | 85 | 85 | 85 | 84 | 84 |
| d14-p-Terphenyl | | | 59 | 65 | 73 | 73 | 60 | 60 |

Batch Code: 0310DJ01
pH of VOC vials 010304 04
010305 04
Date Analysed: 04/03/10
Date Prepared: 04/03/10

Batch Code: 0310DJ01
Benzene 010304 04
010305 04
Date Analysed: 04/03/10
Date Prepared: 04/03/10

Batch Code: 0309TKR2
Naphthalene 010304 04
010305 04
Date Analysed: 04/03/10
Date Prepared: 04/03/09

CHAIN OF CUSTODY



ANALYTICAL SERVICES

5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
Tel: (905) 332-8788
Fax: (905) 332-9169

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: NINECTC Inc
Project Manager: Russ Savage
Address: 3553 Crittenden Rd
Cr. Henden, NY 14038
Phone #: 716-937-6527 Fax #: 716-937-9360
Sampled by: Jon Neuberger

| Philip Use Only | Field Sample ID | # Bottles | Matrix | Date | Time | 8221 STARS | 8220 STARS | Level of contamination (low, high, unknown) |
|-----------------|--|-----------|--------|--------|------|------------|------------|---|
| 10298 | NAPL EXC AREA 3 NORTH | 1 | S | 3/3/04 | | ✓ | ✓ | 2 JUAL |
| 79 | NAPL EXC AREA 3 SOUTH | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 300 | NAPL EXC AREA 3 EAST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 301 | NAPL EXC AREA 3 WEST | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 302 | NAPL EXC AREA 3 BOTTOM | 1 | S | 3/3/04 | | ✓ | ✓ | |
| 1620-10304 | | | | | | | | |
| 05 | NAPL AREA 3 EXCAVATION WATER IN EXCAVATION | 3 | L | 3/3/04 | | ✓ | ✓ | 1 ALG 4066 x3 |
| 670303 | Bermed Stripped Soil from NAPL EXC AREA 3 | 1 | S | 3/3/04 | | ✓ | ✓ | 2 SP ALG |

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL
*some exceptions apply please contact Lab
STD 10 Business Days
RUSH 5 Business Days
RUSH 2 Business Days
RUSH 1 Business Days
Other Business Days _____

PROJECT INFORMATION
Project #: _____
Site: Union Ship Canal
PO#: _____
Philip Quote #: _____
Philip Project #: _____
Philip Contact: _____

SPECIAL DETECTION LIMITS
MISA
SPECIAL REQUIREMENTS / REGULATIONS
ASP CATEGORY B3
DELIVERABLES
NORMAL T/A

REMARKS
ASP

Client Signature: James D. Blaskowitz
Affiliation: NINECTC, Inc
Date/Time: 3/3/04, 3:30 pm

Received By: Kevin Zelmmer
Affiliation: PSC
Date/Time: 3/3/04, 3:30 pm

Rec'd By: _____
Date/Time: _____

WHITE - LAB / YELLOW - CLIENT

SEE OVER FOR COMPLETION & SAMPLING INSTRUCTIONS