



New York State Department of Environmental Conservation

MEMORANDUM

TO: FROM: SUBJECT:

I funn JB I comm 1-4 A 3)17 ()Distribution Craig Lapinski, Project Manager, CFSS, Bureau of Construction Services, DER Primoshield Plating Site, Site No. 6-33-027, Oneida County

DATE:

MAR 1 0 1999

Please insert the enclosed Page 18 into your copy of the final Post Remediation Report (dated March 1999) that I sent to you on March 5, 1999. Call me at 518-457-9280 if you have any questions.

Distribution: D. Sweredoski, Region 6 M. Rivara, NYSDOH G. Rider, O&M (2 copies)

> MA 1990



New York State Department of Environmental Conservation

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TO:DistributionFROM:Craig Lapinski, Project Manager, CFSS, BCS, DERSUBJECT:Primoshield Plating Site, Site No. 6-33-027, Oneida County

Ferry M

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Enclosed for your information is a copy of the final Post Remediation Report (dated March 1999) for the above referenced site. Please call me at (518) 457-9280 if you have any questions.

Distribution D. Sweredoski - NYSDEC, Region 6 M. Rivara - NYSDOH



Primoshield Plating Site		No. 633027		Oneida County				
1998	Effluent T	reatment Sy	ystem Resu	ilts				
								dup
	mg/l	mg/l	mg/l	mg/l	mg/l	<u>mg/l</u>	mg/l	_mg/l
	Chromium	Lead	Nickel	Cadmium	Zinc	Copper	Cyanide	Cyanide
08/26/98	<0.003	< 0.003	0.032	<0.001	0.043		<0.05	<0.05
09/11/98	0.007	0.075	<0.003	0.003	0.021		<0.005	<0.005
09/21/98	0.005	0.021	0.085	<0.001	0.048	0.022	<0.005	<0.005
10/07/98	< 0.003	< 0.003	0.114	<0.001	0.027	0.024	<0.010	
10/20/98	< 0.003	0.012	0.158	< 0.001	0.028	0.012	_<0.01	
11/05/98	0.004	0.012	0.202	0.002	0.84		0.03	
11/20/98	0.006	0.014	0.195	<0.001	0.072		0.03	
12/02/98	< 0.003	0.005	0.153	<0.001	0.051	0.026	<0.010	
LIMITS	5.00	5.00	2.00	1.00	4.00	3.00	3.00	3.00
		mg/l	dup					
	pН	Total VOC's	Total VOC's					
08/26/98	7.40	0.088	0.015					
09/11/98	7.25	0.033	0					
09/21/98	7.29	0.006						
10/07/98	7.20	0					_	
10/20/98	7.34	0						
11/05/98	7.65	0				_		
11/20/98	7.09	00						
12/02/98	7.22	0						
LIMITS	5.0-12.5	2.00						

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Primoshie	ld Plating S	Site	No. 633027		Oneida County			
						·		
1998	Effluent T	reatment S	ystem Resu	ults				
								dup
	<u> </u>	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
	Chromium	Lead	Nickel	Cadmium	Zinc	Copper	Cyanide	Cyanide
08/26/98	<0.003	<0.003	0.032	<0.0 <u>01</u>	0.043		<0.05	<0.05
09/11/98	0.007	0.075	<0.003	0.003	0.021		<0.005	<0.005
09/21/98	0.005	0.021	0.085	<0.001	0.048	0.022	<0.005	<0.005
10/07/98	< 0.003	< 0.003	0.114	<0.001	0.027	0.024	<0.010	
10/20/98	< 0.003	0.012	0.158	<0.001	0.028	0.012	<0.01	
11/05/98	0.004	0.012	0.202	0.002	0.84		0.03	
11/20/98	0.006	0.014	0.195	<0.001	0.072		0.03	
12/02/98	<0.003	0.005	0.153	<0.001	0.051	0.026	<0.010	
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10/20/98	7.34	0						
11/05/98	7.65	0						
11/20/98	7.09	0						
12/02/98	7.22	0						
LIMITS	5.0-12.5	2.00						

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1.0 BACKGROUND

1.1 Site Location and Description

Primoshield Inc. is a former Metal Electroplating facility located at 1212 St. Vincent Street; Utica, New York 13501. The site is located in a mixed commercial/residential area within the City of Utica and is also located in Oneida County and NYSDEC Region 6. Due to past operations and the presence of hazardous wastes at the site, it has been listed as a Class 2 Inactive Hazardous Waste Site (Code No.: 6-33-027) on the NYSDEC registry of inactive hazardous waste sites. The site is bordered by Conkling Avenue on the northwest and St. Vincent Street to the south and east. The DePaul building and property border the site on the southwest and two residential properties border the site on the southwest and two residential properties border the site on the adjacent DePaul Building cinder and gravel parking lot which rogether total approximately 1.5 acres. The site is located in a primarily residential neighborhood which also contains a number of commercial properties and the St. Agnes R.C. cemetery immediately to the southeast. The Mohawk River is located downgradient from and approximately one and one half miles to the north of the site.

1.1 Site History

Primoshield Inc. was a metal electroplating facility that operated from the early 1970s until August 1985. The Primoshield property consisted of a factory or production building, a small office building, a small laboratory and a small storage trailer all of which were in an advanced state of disrepair.

A large number of drums and open vats (some containing acids, cyanide solutions and spent plating solutions) were left behind when the facility was abandoned by its owners following a fire which occurred during August of 1985.

Local citizen concerns regarding health and safety issues associated with this site were transmitted to the NYSDEC. Following an initial site reconnaissance and sampling effort by NYSDEC in December of 1985, laboratory sample results obtained indicated a very high risk to the public from the site at that time. Consequently, on March 12, 1986 the NYSDEC formally petitioned the U.S. EPA Region II Office requesting that the USEPA perform an Emergency Response and Removal Action at the Primoshield Site, including but not limited to the cleanup and removal of all the surficial and containerized hazardous was the installation of a fence and gate system to resecure the site.

During 1986 and 1987 the USEPA conducted an emergency response and removal action at the Primoshield Site. All of the containerized waste and most of the accessible surficial waste materials were removed from the site during this initial cleanup and taken to approved off-site disposal facilities. Site security was also established by the installation of a chain link fence and gate system. In November 1987 U.S. EPA emergency response and cleanup funds for the Primoshield Site were exhausted and jurisdiction for further remedial action at the site was returned to NYSDEC.

Following the fire which occurred in August 1985, the Primoshield facility was characteristic and the City of Utica subsequently assumed ownership of the property due to non-payment of taxes. In December of 1989 the NYSDEC signed a negotiated Order on Consent with the City of Utica which agreed to perform a Remedial Investigation/Feasibility Study (RI/FS) to further investigate and remediate residual hazardous waste contamination remaining at the site. The City of Utica applied for State assistance (75% sharing of eligible costs) under Title III of the New York State (NYS) 1986 Environmental Quality Bond Act (EQBA). On May 3, 1991 State Assistance Contract No. C300241 was entered into by the New York State Department of Environmental Conservation and the City of Utica for the City of Utica to complete an RI/FS at the Primoshield Site under Title III of the NYS 1986 EQBA. The City of Utica subsequently retained O'Brien and Gere Engineers Inc. (Syracuse, N.Y.) and Stetson Harza Inc. (Utica, N.Y.) to provide engineering services and technical support for the Primoshield Site RI/FS.

The RI was conducted in basically a single phase beginning with a site baseline survey which was initiated during September/October 1992 and ending with a second round of ground water sample collection and analyses during September 1993. Some additional sample collection and analyses (primarily for metals in surface soils and TCLP testing of building materials) was conducted after April 1993 to fill in gaps in the data base. A one day on-site air quality sampling and monitoring program conducted on August 29, 1994 was the final field data collection for the Primoshield Site Remedial Investigation.

Site related contaminants of concern in surface soil were identified (based on the results of the RI) as **cadmium, chromium, nickel and cyanide**. Site-related contaminants in ground water above class GA ground water standards included trichloroethene, 1,1,1trichloroethane, 1,1 dichloroethane and chromium, Water and Sediment Samples collected from the sumps in the basement of the 1208 St. Vincent Street residence indicated elevated concentration levels for both VOCs (1,1-dichloroethane; 1,1,1 trichloroethane) and heavy metals/inorganics (cadmium, chromium, lead, mckel, and cyanide). These elevated concentration levels of both VOCs and heavy metals/inorganics in both the ground water and the sediment in the basement of the 1208 St. Vincent Street residence indicate the need to address these two areas during site remediation.

A number of IRMs were under consideration during the RI/FS at the Primoshield Site. After extensive analysis and discussion, only the following two relatively minor IRMs were actually implemented:

- 1. On June, 1993 an interim structural brace (tubular metal scaffolding system) was installed in roughly the center of the main production building, to transfer roof loading from an isolated unbraced vertical column which appeared to be close to failure.
- 2. On April 19, 1994 a site surficial cleanup was held at the Primoshield Site. Scrap metal and scrap lumber were collected and stockpiled for later recycling and/or disposal. Brush was cleared and stockpiled and miscellaneous waste and debris was collected and stockpiled for later disposal off-site.

The Record of Decision (ROD) for the site was signed on March 30, 1995. The site was re-assigned as a State Superfund (SSF) project in November 1996 because the city of Utica had inadequate funds to perform construction.



FIGURE 1-1

2.0 SUMMARY OF REMEDIAL WORK

2.1 General Overview

On August 27, 1997, a bid opening was held for construction contract No. 1 (see Appendix A for the original tabulation of bids received). The first low bidder, Sevenson Environmental Services, withdrew their bid due to errors in their estimation of work. The Bureau of Construction Services (BCS) accepted Sevenson's bid withdrawal after reviewing their errors and after concurrence with the Division of Environmental Enforcement. As a result, the second lowest bidder was a joint venture between Ontario Specialty Contracting, Inc. and Industrial Site Services, Inc. (OSC/ISS) located at 333 Ganson Street in Buffalo, New York 14203. OSC/ISS was selected through a competitive bidding process by the NYSDEC with a bid of \$538,850.00. Table 2-1 includes a breakdown of OSC/ISS's bid. Notice to Proceed was issued on March 23, 1998, after approval of OSC/ISS's project plans (i.e., work plan, sampling plan and quality assurance/quality control plan) and providing no further comments on OSC/ISS's health & safety plan. OSC/ISS began to mobilize and start work on this same date.

The major tasks completed at the site includes:

- Mobilization to the site. This work included trailer setup, electric & telephone phone hook up, providing potable water & sanitary facilities, providing a solid waste disposal dumpster and the delivery of contractor equipment;
- performing real time (background and during construction), documentational and periodic air monitoring during excavation and other intrusive activities (a copy of all air monitoring results was sent to the New York State Department of Health).
- removing all hazardous materials inside the former production and." **Interference** production and placing them into a 20 cubic yard covered roll-off for off-site disposal prior to performing demolition work;
- demolition of the former production, laborators and office buildings and off-site disposal at the Seneca Meadows Landfill as asbestos containing

- excavation of non-hazardous soils and off-site disposal at the Sengca Meadows Landfill;
- excavation of hazardous soils and off-site disposal at the Chemical Waste Management Facility in Model City, New York;
- pumping the liquids from two underground storage tanks (USTs) into a vacuum truck, cleaning both light and removing the liquid waste & the price at the proper disposal facility and removing & disposing the petroleum contaminated soil under the two tanks?
- terminating six utilities (3 sewer pipes, 2 gas pipes and 1 electrical line) at the property boundaries,
- removing a leachfield which was unearthed during excavation work;
- backfilling the excavated areas with run-of-bank gravel;
- cleaning out the sump, pressure washing and applying a sealant to the basement walls of the home located at 1208 St. Vincent Street;
- repairing the existing site perimeter fence;
- replacing a residential vegetable garden at 1208 St. Vincent Street and planting trees and shrubs on the parcel immediately southwest of 1208 St. Vincent Street;
- regrading the site, placing topsoil and seeding the entire site;
- construction of thread and the state cutoff trenches, a central collection manufole and installation of a submersible pump to intercept and collect the plume of contaminated groundwater;
- construction of a groundwater treatment system (GWTS) to remove the Volatile Organic Compounds (VOCs) from the groundwater. The system uses Granular Activated Carbon (GAC) drums to accomplish this task;
- construction of a building to house the GWTS;

- discharge of treated wastewater to the Oneida County Sewer System;
- issuance of Substantial Completion September 16, 1998
- Completing all punch list items (i.e. removing miscellaneous debris, repairing seeded areas, performing operation and maintenance of the GWTS); and
- Final Completion issued (December 15, 1998).

The significant changes from the original contract documents are discussed in Section 2.2 of this report. Quantity adjustments, based on actual site conditions, are discussed in Section 2.3.

A summary of wastes removed during construction and a list of the disposal facilities can be found on Table 2-2. A list of subcontractors utilized by OSC/ISS during the remedial activities at the site is included in Table 2-3.

2.2 Variations from the Original Contract Documents

Below is a summary of the variations from the original contract documents that occurred during the remediation work at the site. Additional information regarding these differences can be found in Appendix B, under Final Change Order No. 1.

Building Demolition

The plans and specifications required the three on-site buildings to be demolished. These buildings included the former laboratory, office and production buildings. First, hazardous materials in the production and laboratory buildings (as designated per section 02023,1.1C of the specifications) were removed. Next, asbestos contaminated materials were addressed in accordance with the contractor's asbestos removal plan and the Department of Labor's regulations (12 NYCRR Part 56). Since the asbestos in the buildings was non-friable and the building was structurally unsound, the Department of Labor determined that it could be demolished with the building and disposed with the rest of the demolition debris.

After the hazardous materials were removed, the three buildings were demolished. Scrap metal was segregated from the other construction & demolition (C&D) debris and sent to a recycler. One, composite sample of the C&D was taken and analyzed for lead contamination. This sampling technique was deemed acceptable by the ultimate disposal facility. All C&D material was loaded into trucks and disposed at the Seneca Meadows Landfill.

Excavation of Hazardous and Non-Hazardous Soil

The original contract documents called for the Contractor to excavate soil to the limits on the plan sheets, perform verification samples afterward to prove all contaminated soil was removed and perform characterization sampling on the excavated soil to determine if was hazardous or non-hazardous. Instead, the Contractor took soil samples in-situ and delineated and characterized the area to be excavated prior to performing excavation work. The advantage to this approach was that the contaminated soil could be excavated and loaded directly into a truck for off-site disposal.

The ROD called for one foot of soil to be removed over the entire site. However, verification soil samples taken from a depth of one foot failed the criteria in the ROD in many locations. The criteria which was used is as follows:

<u>CONSTITUENT</u>	CRITERIA (less than)
Cadmium	10 ppm
Chromium	50 ppm
Lead	500 ppm
Nickel	30 ppm
Cyanide	1.2 ppm

It took the contractor several rounds of verification sampling to determine the area of excavation. From the sampling results, it was clear that at least one foot of soil had to be removed from the entire site. Also, six inches had to be removed under the concrete slabs.

However, there were seven other areas of concern where contamination was found at much greater depths. The final depths of these areas were determined after the New York State Department of Health (NYSDOH) and the NYSDEC held an internal meeting to clarify the criteria in the ROD. The NYSDOH decided that the 30 ppm criteria for Nickel was too stringent for depths greater than one foot. However, the levels of 10 ppm and 50 ppm had to be met at all depths for Cadmium and Chromium respectively. Based on this information the following final depths of excavation were determined by the NYSDEC and the NYSDOH and subsequently performed by the Contractor:

LOCATION	AREA	DEPTH
Around Soil Sample 008	40 ft. x 40 ft.	3.5 ft.
Around Soil Sample 009	40 ft. x 40 ft.	2.0 ft.
Around Soil Sample 010	25 ft. x 45 ft.	1.5 ft.
Around Soil Sample 014	(Removed when soil under	500 gal. UST was excavated)
Around Soil Sample 021	27 ft. x 76 ft.	3.0 ft.
Around Soil Sample 029	25 ft. x 45 ft.	3.5 ft.
Around Soil Sample 032	(40 ft. x 40 ft.) x .5	4.0 ft.

From the characterization sampling performed by the contractor, an area of hazardous soil was discovered around verification sample 21. After the area of hazardous soil was delineated, this portion was excavated and trucked to Model City for proper disposal. The remaining non-hazardous soil was excavated and loaded directly into trucks for off-site disposal at the Seneca Meadows Landfill.

Two sumps were discovered within the footprint (northern and southern corners) of the former production building. The sediments in the sumps were characterized and removed as hazardous waste. There was a concrete septic tank located around the northern sump. The concrete was removed and verification samples were taken at the bottom of the excavation. Verification samples were also taken after the sediments in the southern sump were removed. No septic tank was located around the southern sump. Some soil from underneath the two sumps had to be removed as hazardous waste as well.

An abandoned weigh scale was discovered in the western corner of the site. Surface soils taken from the bottom of the dirt scale pit floor showed elevated levels of lead. The top six inches of the floor were therefore removed and properly disposed. Exit samples showed the cleanup standards were met.

The original plans and specifications called for a 200 gallon underground storage tank (UST) to be removed. During excavation work, however, not only was it discovered that the tank was actually 1,000 gallons in size, but, an additional 500 gallon UST was unearthed. The liquid in the two tanks was analyzed, pumped out and disposed at an off-site facility. Then, both tanks were properly inerted, cleaned and excavated in accordance with the Spills guidance for tank removals. The petroleum contaminated soil around the tanks was also removed and disposed as non-hazardous waste.

The contractor found and terminated six utilities (three sewer pipes, two gas pipes and one electrical line) at the property boundaries in accordance with the requirements of the appropriate utility. They also removed an existing leachfield which was unearthed during excavation work.

Concrete footings from the former production building which extended above the final site elevations were tested with wipe samples (analytical results showed that the concrete was clean), broken off and buried on-site in the basement of the former office building, in the scale pit and in the excavation after removal of the sewer along the southeast portion of the site. The remaining concrete which did not extend above the final elevations was buried in-place within the footprint of the former production building.

A summary of all the verification, characterization and wipe samples taken are located in Appendix C. Sample results related to the UST disposal are located in Appendix D. The location of the terminated utilities, the buried concrete and the two USTs is located on the final as-built drawings in Appendix F.

Groundwater Collection Trenches

The contract documents required three groundwater collection trenches to be installed on the site. The purpose of these trenches is to intercept the plume of groundwater contamination caused by the former Primoshield Plating operations, drain contaminated groundwater to a central collection sump and install a sump pump to transfer the groundwater to an on-site treatment system. Each collection trench consists of a six inch diameter perforated pipe surrounded by two square feet of stone wrapped in filter fabric. Depth of excavation varied from 6 to 10 feet per the contract plan sheets. The location of the collection trench was consistent with the plan sheets except along the northeast site boundary where the final placement was altered slightly in an effort to reduce the number of 90 degree turns and keep excavation activities farther from a nearby residence.

The final location of the three groundwater collection trenches is located on the as-built drawings in Appendix F.

Groundwater Treatment System Building

The Contractor chose to use a pre-fabricated concrete building instead of the metal preengineered building specified to house the groundwater treatment system. The Contractor's building/foundation submittal (stamped and signed by a NYS Licensed Professional Engineer) was reviewed and approved by the Department. One field change was made. The manufacturer inadvertently omitted the rebar ties around the sump penetration in the floor of the building. These ties were required to connect the precast concrete sump to the building. Instead, additional rebar was added by drilling into the floor slob and grouting in the rebar.

Groundwater Treatment System

The Contractor built the groundwater treatment system (GWTS) per the specifications using the equipment specified or an approved "equal". The following items make up the GWTS:

- Submersible groundwater pump;
- Duplex basket strainers;
- Two-stage Granular Activated Carbon (GAC) units (plus one spare unit);
- Flow meter;
- five sampling spigots;
- Treatment building;
- Utilities connection; and
- Control systems.

A GWTS flow diagram can be found in Appendix E. For more specific information on the make and model of each component of the GWTS, consult the Operation and Maintenance Manual prepared by the Department.

Post Remediation Report Primoshield Plating, Inc. Site

Site Restoration

All topsoil and backfill used on this project was supplied by Cavallaro Trucking & Excavating of Poland, New York. and tested by Construction Materials Evaluation Associates, Inc. of Buffalo, New York. This source was acceptable because its ph, organic content and sieve analysis results were within the acceptable limits as defined by the contract documents.

The Contractor requested to use a different seed mixture than what was in the contract documents. The following specifies what was approved:

Seed:	All Perennial Landscape Mixture
Fertilizer:	Lofts Lawn, Garden and Shrub Food

Operation & Maintenance

After the GWTS was constructed, groundwater was pumped through the system and discharged into a frac tank. This was know as "startup". Water continued to be collected in the tank until three successive samples proved that the effluent met the limits of the discharge criteria. After that time, the tank was emptied and contractor was allowed to discharge directly to the Oneida County Sewer System.

The contract documents required the Contractor to operate the GWTS for a period of 90 days after the startup period was complete. Bi-weekly sampling by the Contractor was required. Another requirement was that the system had to run for two consecutive weeks 'without a shutdown. The 90 day period began on September 16, 1998 and ended on December 15, 1998.

A copy of the Oneida County Sewer District Permit and the influent/effluent sample results throughout the Operation and Maintenance period is located in Appendix F.

As-Built Drawings

As-built drawings were done for this project. A complete set of as-builts are located in Appendix G of this report.

2.3 Quantity and Cost Adjustments

There were numerous adjustments to the contract amounts based on actual quantities as measured in the field. As discussed in section 2.2 under "Excavation of Hazardous and Non-hazardous Soils", the increased depth of excavation led to increased sampling, excavating and backfilling costs. Also, the quantity for the bid items associated with Site Services, Health and Safety, Sheeting & Bracing, Pea Gravel, Type F Fill, Sidewalks/Pavement, Topsoiling & Seeding Bituminous Pavement, 1 ½" PVC Discharge, 6" Groundwater Collection Pipe, Terminate Utilities, Sewer Pipe Removal and 2" PVC Effluent Pipe were all adjusted to reflect actual quantities. Refer to change order Item "E" in Appendix B for a more thorough explanation and breakdown of costs. A summary of the estimated and actual contract quantities and amounts by bid item can be found in Table 2-1.

2.4 Change Orders

There was one change order issued during the contract. The complete change order is included in Appendix B of this report. Change Order No. 1 (Final) was issued after Substantial Completion on October 21, 1998 and contained five items. The change order had a value of \$95,169.43, revising the contract amount to \$634,019.43.

The date of substantial completion was increased 28 days to September 16, 1998. Subsequently, the date of final completion was increased 88 days to December 15, 1998.

The additional 28 days for substantial completion were needed for the Contractor to "shake down" the system. Although the Contractor built the groundwater treatment system by the original substantial completion date, excess silt collected in the piping and electrical wiring problems forced the Contractor to shut down the system numerous times. The treatment system could not be used until the silt was pumped out of the collection sump and the electrician solved the electrical problems. Therefore, the official start of the 90 Day O&M period could not begin until 28 days later.

The additional days for final completion were needed for the Contractor to perform the three month "Operation and Maintenance period" outlined in the contract. The time to complete this portion of the contract was never factored into the originally estimated completion dates.

SUMMARY OF CONTRACT COSTS Primoshield Plating, Inc. Site

Table 2-1

ļ		0. 0-JJ-UZ/		
Bid Item	Description	Unit Price	Est. Quantity	Subtotal
1A	Mobilization/ Demobilization/ Site Prep	\$50,000.00	Lump Sum	\$50,000.00
IB	Site Services	\$200.00	150 Days	\$30,000.00
IC	Health and Safety	\$250.00	90 Days	\$22,500.00
1.3	Wood Sheeting and Bracing Left in Place	\$10,000.00	0.5 MFBF	\$5,000.00
1.5A	Select Fill - Pea Gravel	\$30.00	70 yd³	\$2,100.00
1.5B	Select Fill - Common Earth	\$15.00	1,400 yd ³	\$21,000.00
1.5C	Select Fill - Type F Fill	\$40.00	15 yd ³	\$600.00
1.6B	Restoration - Concrete Sidewalks/ Pavement	\$50.00	30 yd ²	\$1,500.00
1.6C	Restoration - Trees, Shrubs and Landscape Items	\$400.00	5 Each	\$2,000.00
1.6D	Topsoil and Seeding	\$4.00	5,000 yd ²	\$20,000.00
1.6E	Bituminous Pavement	\$50.00	5 yd²	\$250.00
1.7	Furnish and Install I 1/2" PVC Col. Pump Disch.	\$50.00	20 L.F.	\$1,000.00
1.8	Furnish and Install 6" G.W. Collection Piping	\$35.00	440 L.F.	\$15,400.00
1.9	Termination of Each Utility at Each Location	\$500.00	7 Each	\$3,500.00
1.11	Sewer Pipe Removal	\$15.00	300 L.F.	\$ 4,500.00
1.13A	Soil Excavation - Hazardous	\$500.00	50 Tons	\$25,000.00
1.13B	Soil Excavation - Non-Hazardous	\$90.00	1,500 yd³	\$135,000.00
1.14A	Furnish and Install 2" PVC Tmt. System Effluent	\$30.00	50 L.F.	\$1,500.00
1.15	Groundwater Collection System O&M	\$200.00	90 Days	\$18,000.00
3.1	Collection Manhole	\$8,000.00	Lump Sum	\$8,000.00
3.2	G.W. T. S. Equipment and Piping	\$25,000.00	Lump Sum	\$25,000.00
3.3	Construction of G.W.T.S. Enclosure	\$25,000.00	Lump Sum	\$25,000.00
3.4	Demolition of Site Structures and Concrete Slabs	\$96,000.00	Lump Sum	\$96,000.00
3.5	Resident Basement Cleanup	\$2,500.00	Lump Sum	\$2,500.00
3.6	Removal of Asbestos	\$18,000.00	Lump Sum	\$18,000.00
3.7	Underground Storage Tank Removal	\$500.00	Lump Sum	\$500.00
3.8	Electrical Work	\$5,000.00	Lump Sum	\$5,000.00
		Orig	inal Contract Total	\$538,850.00
C.O. Item	Description	Unit Price	Est. Quantity	Subtotal
Item A	Additional Sampling	\$12,003.43	Lump Sum	\$12,003.43
Item B	Payment Item 1.5B - Select Fill (Common Earth)	\$8,760.00	Lump Sum	\$8,760.00
Item C	Payment Item 1.13A - Soil Excavation (Hazardous)	\$36,891.50	Lump Sum	\$36,891.50
Item D	Payment Item 1.13B - Soil Excavation (Non-Hazardous)	\$55,647.00	Lump Sum	\$55,647.00
Item E	Credit After Adjusting Remaining Quantities	(\$18,132.50)	Lump Sum	(\$18,132.50)
		Final Cha	nge Order Amount	\$95,169.43
	FINAL CON	TRACT AMOUNT	\$634,	019.43

Table 2-2

SUMMARY OF WASTES REMOVED AND DISPOSAL FACILITIES Primoshield Plating, Inc. Site NYSDEC Site No. 6-33-027

DESCRIPTION	QUANTITY	DISPOSAL FACILITY
Non-Hazardous Soil	2,118.3 Cubic Yards	Seneca Meadows Landfill Waterloo, NY
Hazardous Soil	152.19 Tons	Chemical Waste Management Model City, NY
Construction & Demolition Debris/ Non-Friable Asbestos	549.73 Tons	Seneca Meadows Landfill Waterloo, NY
Underground Storage Tank Liquid	1,215 gallons	Industrial Oil Tank Services Oriskanny, NY
Scrap Metal	45 Cubic Yards	Universal Empire Wurt Avenue Utica, NY

	Table 2-3
LIST O Perfection NYS	F SUBCONTRACTORS Plating Company, Inc. Site DEC Site No. 4-01-037
Subcontractor	Responsibility
Jack Eisenbach Engineering 291 Genesee Street Utica, NY 13501	Obtaining asbestos permits and health and safety during demolition of the on-site buildings
Industrial Oil Tank Services 120 Dry Road Oriskanny, NY 13424	Pumping out the contents of the two USTs, cleaning the inside of the tanks and disposing the liquid waste
Dave Hall Electric 2 Stueben Park Utica, NY 13501	Groundwater treatment system electrical work
Price Trucking P.O. Box 70 67 Beacon Street Buffalo, NY 14220	Hauling hazardous and non-hazardous waste from the site to the proper ultimate disposal facilities.
Kistner Concrete Products, Inc. 8713 Read Road East Pembroke, NY 14056	Constructed the pre-engineered concrete groundwater treatment system building
BISCO Environmental 60 Sterols Way Dedham, MA 02026	Constructed the groundwater treatment system

3.0 ENGINEER'S CERTIFICATION

PERFECTION PLATING COMPANY, INC. SITE CONSTRUCTION CERTIFICATION

Construction was completed in substantial conformance with the Contract Documents entitled "Primoshield Remediation Contract" dated May 1997, Addenda No. 1 dated July 25, 1997, Addenda No. 2 dated August 11, 1997 and Addenda No. 3 dated August 22, 1997.



Signature:

James G. Van Hoesen, P.E. Designated Representative

3-2-99 Date:

APPENDIX A

ORIGINAL TABULATION OF BIDS

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APPENDIX B

FINAL CHANGE ORDER

Primoshield Plating Site

Change Order No. 1 Contract Number: 1 NYSDEC Site Number: 6-33-027 State Contract Number: D003778

Change Order Amount:		\$95,169.43	Ι	Date of Issue:	October 21, 1998
Contractor	Ontonio Snosi	ality Computting ()	Inductorial Cita Ca		

Contractor: Ontario Speciality Consulting / Industrial Site Services 333 Ganson Street Buffalo, New York 14203

Change Order Items: This Change Order comprises five (5) items as discussed below.

I. CHANGE ORDER ITEMS

A. ADDITIONAL SAMPLING

DESCRIPTION OF CHANGE:

This change is for the cost associated with the additional sampling which the Contractor performed throughout construction. The sampling included additional verification, Volatile, Cadmium, wipe, and waste oil samples.

DRAWING REFERENCE:Not ApplicableSPECIFICATION REFERENCE:VariousCONTRACTOR PAY ITEM NO.:Not Applicable

REASON FOR CHANGE:

This change is necessary for the increase in the number of samples actually taken by the Contractor. More samples were taken than originally specified because:

- <u>Verification Samples</u> Many of the first few rounds of verification samples failed and forced the Contractor to perform additional sampling rounds. These samples were necessary for the Contractor to define the extent and depth of contaminated soil.
- <u>TCLP Volatile Samples</u> These samples were taken to define the extent and depth of excavation in the two building sumps since VOCs were discovered in these areas. Additional samples were also taken around the sumps and in the Rodriguez's basement.

- <u>TCLP and Total Cadmium Samples</u> These samples were necessary to distinguish the hazardous soil from the contaminated soil in "excavation area 21" since the hazardous soil was more expensive to dispose.
- <u>Wipe Samples</u> These additional samples were necessary to ensure that the concrete (footers, slabs, etc...) that was to be buried on-site was not hazardous.
- <u>Waste Oil Drum Sample</u> A drum filled with waste oil was found in the building prior to demolition. The drum had to be sampled to determine the proper disposal method.

COST:

This change order includes the cost of the Contractor's labor and equipment to perform the sampling as well as the cost of the Contractor's laboratory to analyze the samples.

A breakdown of these costs is as follows:

Contractor Labor	\$1,393.70
Labor Fee (15%)	<u>\$209.06</u>
Subtotal	\$1,602.76
Contractor Materials & Equipment	\$1,352.75
Mat./Equip. Fee (10%)	<u>\$135.28</u>
Subtotal	\$1,488.03
Sampling Cost	\$8,912.64
Total (Contractor costs plus sampling costs)	\$12,003.43
Total INCREASE in Contract Price	\$12,003.43

B. PAYMENT ITEM 1.5B - SELECT FILL (COMMON EARTH)

DESCRIPTION OF CHANGE:

DRAWING REFERENCE:

Increase in the contract amount for Payment Item Number 1.5B.

Not Applicable

	·····
SPECIFICATION REFERENCE:	Section 02231
CONTRACTOR PAY ITEM NO .:	Payment Item 1.5B

Change Order No.1 Page 3 of 9

REASON FOR CHANGE:

This change is necessary for the increase in the amount of backfill which was brought on-site by the Contractor. Contamination was discovered at lower depths and forced the Contractor to increase the original excavation volume. Thus, additional material was required to fill in the larger holes created from the deeper excavation work.

COST:

Increase in Payment Item 1.5B from 1,400 CY to 1,984 CY (584 CY increase).

584 CY @ \$15.00/CY = \$8,760.00

Total INCREASE in Contract Price

\$8,760.00

C. PAYMENT ITEM 1.13A - SOIL EXCAVATION (HAZARDOUS)

DESCRIPTION OF CHANGE:

Increase in the contract amount and decrease in unit cost for Payment Item Number 1.13A.

DRAWING REFERENCE:	Not Applicable
SPECIFICATION REFERENCE:	Section 02221
CONTRACTOR PAY ITEM NO.:	Payment Item 1.13A

REASON FOR CHANGE:

This change is necessary for the increase in the amount of hazardous soil which was excavated and disposed off-site by the Contractor. A portion of the soil excavated failed the TCLP test for Cadmium. Thus, this soil had to be disposed as hazardous instead of non-hazardous as originally suspected. When this soil and the VOC contaminated sump sediments were weighed, the total amount of hazardous soil removed from the site was well over the original estimate. The extent and depth of hazardous waste under the production plating building floor was greater than expected.

Change Order No.1 Page 4 of 9

COST:

Since increasing this quantity from 50 tons to 152.19 tons met the two criteria for renegotiation (greater than 15% of the original quantity and an increase of at least \$30,000.00), the unit price for the quantity above 115% was renegotiated downward. This was initiated since the Department felt the \$500.00/ton bid price was higher than other jobs similar in scope and size.

Increase in Payment item 1.13A from 50 to 152.19 tons (102.19 ton increase).

7.5 tons @ \$500.00/ton	= \$3,750.00
94.69 tons @ \$350.00/ton	= <u>\$33.141.50</u>
Subtotal	= \$36,891.50

Total INCREASE in Contract Price

\$36,891.50

D. PAYMENT ITEM 1.13B - SOIL EXCAVATION (NON-HAZARDOUS)

DESCRIPTION OF CHANGE:

Decrease in the contract amount and price for Payment Item Number 1.13B.

DRAWING REFERENCE:	Not Applicable
SPECIFICATION REFERENCE:	Section 02221
CONTRACTOR PAY ITEM NO.:	Payment Item 1.13B

REASON FOR CHANGE:

This change is necessary for the increase in the amount of non-hazardous soil which was excavated and disposed off-site by the Contractor. Contamination was discovered at lower depths and forced the Contractor to increase the original excavation volume. Thus, additional material was excavated and removed from the site.

COST:

By increasing the final quantity from 1,500 to 2,118.3 cubic yards met the two criteria for renegotiation (greater than 15% of the original quantity and an increase of at least \$30,000.00), the unit price for the quantity above 115% was not renegotiated downward. It was not initiated since the \$90.00/cubic yard bid price was similar to other jobs similar in scope and size.

Change Order No.1 Page 5 of 9

Increase in Payment Item 1.13B from 1,500 to 2,118.3 CY (618.3 CY increase).

618.3 CY @ \$90.00/CY = \$55,647.00

Total INCREASE in Contract Price

\$55,647.00

E. CREDIT AFTER ADJUSTING REMAINING QUANTITIES

DESCRIPTION OF CHANGE:

This change order is for quantities that decreased and increased slightly throughout the course of construction.

DRAWING REFERENCE:	Not Applicable
SPECIFICATION REFERENCE:	Various
CONTRACTOR PAY ITEM NO.:	Various

REASON FOR CHANGE:

This change order is necessary since actual field quantities were different than originally estimated. Therefore, a credit was given to the Department for each of the payment items which decreased and the contractor was given an extra for each of the payment items which increased.

Item No.	Payment Item Description	Original Quantity	Final Quantity	Difference in Quantity	Unit Price	Difference (+/-)
1B	Site Services	150 days	144 days	-6 days	\$200/day	(\$1,200.00)
1C	Health & Safety	90 days	52 days	-38 days	\$250/day	(\$9,500.00)
1.3	Sheeting & Bracing	.5 MFBM	0 MFBM	-0.5 MFBM	\$10K/unit	(\$5,000.00)
1.5A	Select Fill - Pea Gravel	70 CY	65.9 CY	+4.1 CY	\$30/CY	(\$123.00)
1.5C	Select Fill - Type F Fill	15 CY	32.5 CY	+17.5 CY	\$40/CY	\$700.00
1.6B	Sidewalks/Pavement	30 SY	35.9 SY	+5.9 SY	\$50/SY	\$295.00
1.6D	Topsoil and Seeding	5000 SY	4732 SY	-268 SY	\$4/SY	(\$1,072.00)
1.6E	Bituminous Pavement	5 SY	6.3 SY	+1.3 SY	\$50/SY	\$65.00
1.7	1 ¹ / ₂ " PVC Discharge	20 LF	38 LF	+18 LF	\$50/LF	\$900.00
1.8	6" GW Collection Pipe	440 LF	458.5 LF	+18.5 LF	\$35/LF	\$647.50
1.9	Terminate Utilities	7 EA	6 EA	-1 EA	\$500/EA	(\$500.00)
1.11	Sewer Pipe Removal	300 LF	70 LF	-230 LF	\$15/LF	(\$3,450.00)
1.14A	2" PVC Effluent Pipe	50 LF	53.5 LF	+3.5 LF	\$30/LF	\$105.00
	TOTAL CREDIT (\$18,132.50)					

COST:

Total **DECREASE** in Contract Price

(\$18,132.50)

II. CHANGE ORDER No. 1 SUMMARY

Α.	Additional Sampling	\$12,003.43
В.	Payment Item 1.5B - Select Fill (Common Earth)	\$8,760.00
С.	Payment Item 1.13A - Soil Excavation (Hazardous)	\$36,891.50
D.	Payment Item 1.13B - Soil Excavation (Non-Hazardous)	\$55,647.00
E.	Credit After Adjusting Remaining Quantities	(\$18,132.50)

TOTAL

III. CHANGE IN CONTRACT PRICE

New Contract Price including this Change Order:	\$634,019.43
Net INCREASE due to this Change Order:	\$95,169.43
Contract Price After Previous Approved Change Orders:	\$538,850.00
Original Contract Price:	\$538,850.00

IV. CHANGE IN CONTRACT TIME:

Notice To Proceed: March 23, 1998

	Substantial Completion		Final Completion	
	Days	Date	Days	Date
Original Contract Time	150 days	August 19, 1998	180 days	September 18, 1998
Net Increase Due to this Change Order	28 days	September 16, 1998	88 days	December 15, 1998
New Contract Time Including this Change Order	178 days	September 16, 1998	268 days	December 15, 1998

NOTE: The additional 28 days for substantial completion were needed for the Contractor to "shake down" the system. Although the Contractor built the groundwater treatment system by the original substantial completion date, excess silt collected in the piping and electrical wiring problems forced the Contractor to shut down the system numerous times. Therefore, the official start of the 90 Day O&M period could not begin until 28 days later.

The additional days for final completion were needed for the Contractor to perform the three month "Operation and Maintenance period" outlined in the contract. The time to complete this portion of the contract was never factored into the originally estimated completion dates.

It is understood and agreed that, unless expressly so stated above, the work herein authorized will not extend the time for the completion of the contract.

It is understood and agreed that this change order represents full and complete compensation for all work described herein.

This work is to be performed in accordance with the terms of the contract and original plans and specifications, except as herein modified. It is understood and agreed that this order shall be deemed executory only to the extent of moneys available and no liability shall be incurred by the State beyond the moneys available for the purpose.
Change Order No.1 Page 8 of 9

CONTRACT NUMBER ______ D003778

IN WITNESS WHEREOF, representatives of the Department and the Contractor have executed this Contract on the day and year written beneath their respective signatures. The signatory for the Department provides the following Agency Certification: "In addition to the acceptance of this contract, I also certify that original copies of this signature page will be attached to all other exact copies of this contract."

Recommended:	FOR DEPARTMENT
By:	By:
Title:	
Date:	Date:
FOR NYSDEC ENGINEER	FOR CONTRACTOR
By:	By:
Title:	
Date:	Date:
Approved as to Form:	Approved:
By:Attorney General	By: State Comptroller
Date:	Date:
(CORPOR	ATE ACKNOWLEDGMENT WITH SEAL)
State of) County of)	s.s.:
On the day oft t , New	0 me known, who being duly sworn, did depose and say that (s)he resides in York; that (s)he is (<i>title</i>) of (<i>firm</i>) the corporation described in and which executed the above

instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that (s)he signed his(her) name thereto by like order.

Seal

Notary Public

(CORPORATE ACKNOWLEDGMENT WITHOUT SEAL)

State of)													
County of)		s.s.:											
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Notary Public

APPENDIX C

SOIL EXCAVATION RELATED MATERIALS

Verification Sampling

		Cadmium	Chromium	Lead	Nickel	Cyanide
Sample	Location	10 mg/kg	50 mg/kg	500 mg/kg	30 mg/kg	1.2 mg/kg
1A	1 foot	0.47	9.60	45.20	14.80	0.29
2A	1 foot	0.21	3.80	10.70	8.30	0.35
3A	1 foot	0.70	8 70	63 90	21.60	0.35
44		0.53	10.00	15 30	18.80	0.00
<u> </u>		0.00	13.60	57 10	33.40	0.20
58	1 5 feet	1 10	7.80	20.20	28.80	0.23
65	Surface	1.10	53.10	29.20	14.80	0.28
	1 foot	1.70	19.30	41.10	52.80	0.20
	1 5 foot	Not Takan	Not Takan	Not Taken	10.7	Not Taken
	1.5 leet			146.00	Not Takan	2 20
	1 5 feet	273.00	40.20	60.60	259.00	1.40
	1.5 leet	9.20	17.10	5 10	230.00	1.40
	2 feet	57.70	17.20	5.10	140.00	9.00
	3 feet	22.70	20.30	10.30	04.00	0.40
8E	4 feet	1.80	10.90	9.90	20.10	0.28
8	<u>5 feet</u>	0.85	8.90	8.90	16.90	0.26
9A	1 toot	Not laken	25.40	61.00	/10.00	2.50
98	1.5 feet	37.10	20.00	10.00	401.00	0.70
<u> </u>	2 feet	5.00	7.80	18.50	267.00	0.28
10A	1 foot	1.20	15.10	84.10	607.00	0.31
10B	1.5 feet	1.40	5.40	13.80	294.00	0.28
10C	2 feet	Not Taken				
10D	3 feet	1.00	9.50	12.10	458.00	0.29
10E	4 feet	0.93	10.50	13.10	130.00	0.32
10F	5 feet	1.50_	16.90	14.10	276.00	0.30
11A	1 foot	0.89	15.00	539.00	Not Taken	0.30
<u>1</u> 1B	1.5 feet	1.00	12.60	115.00	18.40	0.2 <u>9</u>
<u>12S</u>	Surface	0.32	10.60	23.70	10.00	0.27
13S	Surface	17.70	52.80	97.90	151.00	3.30
13@6"	0. <u>5</u> feet	0.49	5.20	28.60	<u> </u>	Not Taken
14A	1 foot	6.40	80.30	392.00	Not Taken	1.90
14B	1.5 feet	2.50	11.40	147.00	131.00	0.28
14C	2 feet	16.90	12.00	267.00	182.00	0.29
14D	3 feet	1.10	10.00	13.10	14.00	0.29
14E	4 feet	0.89	9.30	8.00	16.40	0.28
14F	5 feet	1.20	9.20	11.70	21.50	0.33
15A	1 foot	0.87	9.60	58.40	Not Taken	0.29
15B	1.5 feet	1.50	17.20	71.90	73.20	0.31
<u>15C</u>	2 feet	0.52	2.60	39.20	34.20	0.26
16A	1 foot	2.80	15.60	394.00	148.00	0.31
16B	1.5 feet	1.10	8.50	245.00	18.50	0.29
17A	1 foot	1.20	15.40	254.00	38.10	0.33
<u>17B</u>	1.5 feet	1.00	8.20	45.80	17.00	<u>0.29</u>
<u>1</u> 8A	1 foot	1.40	14.10	407.00	20.50	0.32
195	Surface	0.95	613.00	289.00	10.70	0.92
	0.5 feet	0.39	5.40	16.50	6.30	No <u>t</u> Taken
205	Surface	76.60	73.20	162.00	152.00	6.60
20@6"	0.5 feet	1.60	30.90	61.40	47.10	Not Taken
21A	1 foot	174.00	31.00	80.20	Not Taken	25.20
21B	1.5 feet	197.00	117.00	72.00	1070.00	29.90
21C	2 feet	0.94	8.00	8.90	7.80	0.30
21D	3 feet	25.10	13.00	8.40	358.00	0.79
21E	4 feet	0.78	8.60	6.00	14.70	0.26
21F	5 feet	1.00	6.70	5.10	19.00	0.25

			Cadmium	Chromium	Lead	Nickel	Cyanide
	Sample No.	Location	10 mg/kg	50 mg/kg	500 mg/kg	30 mg/kg	1.2 mg/kg
	225	Surface	27.20	110.00	312.00	61.50	5.40
	22@6"	0.5 feet	3.60	14.00	39.40	16.00	1.50
	23S	Surface	0.66	7.00	34.20	10.80	0.40
	24A	1 foot	4.30	13.10	105.00	Not Taken	2.30
	24B	1.5 feet	1.50	13.70	11.10	18.20	0.46
	25S	Surface	5.80	24.30	65.20	135.00	24.00
	25@6"	0.5 feet	0.33	9.90	8.80	5.90	Not Taken
	26S	Surface	5.60	13.70	2720.00	24.30	0.39
	26@6"	0.5 feet	0.31	4.80	3.10	12.70	Not Taken
	27S	Surface	4.70	13.60	3160.00	19.00	17.00
	27A	1 foot	0.91	18.90	24.00	Not Taken	1.40
	27B	1.5 feet	1.20	13.00	15.40	21.70	0.29
	28S	Surface	0.76	24.30	47.90	26.60	0.26
	29A	1 foot	47.40	24.10	105.00	Not Taken	0.50
	29B	1.5 feet	283.00	136.00	46.00	11900.00	3.10
	29C	2 feet	243.00	386.00	16.00	5200.00	3.30
	29D	3 feet	15.20	23.20	12.70	208.00	0.27
	29E	4 feet	0.63	7.00	4.50	9.20	0.30
	29F	5 feet	<u> </u>	10.60	16.00	27.70	0.30
	30A	1 foot	2.20	14.20	900.00	Not Taken	0.29
	30B	1.5 feet	1.00	11.10	40.20	24.40	0.30
	31A	1 foot	1.90	14.40	35.70	44.20	0.29
	31B	1.5 feet	1.50	<u> </u>	<u>35.70</u>	25.80	0.29
	32S	Surface	121.00	32.50	83.60	471.00	0.38
	32@6"	0.5 feet	118.00	8.00	26.00	255.00	Not Taken
	32@2.5'	2.5 feet	20.80	Not Taken	Not Taken	Not Taken	Not Taken
	<u>32@3'</u>	<u>3 feet</u>	0.80	Not Taken	Not Taken	Not Taken	Not Taken
	<u>33@3"</u>	<u>3 inches</u>	2.00	16.60	522.00	21.40	0.31
	34@3"	<u>3 inches</u>	2.80	<u>18.00</u>	538.00	33.90	0.51
	<u> </u>	<u>3 inches</u>	1.60	14.50	226.00	23.90	0.30
		<u>3 inches</u>	2.30	16.00	<u>61.10</u>	58.30	0.28
	37@3"	3 inches	1.80	15.40	74.40	72.80	0.30
	<u> </u>	1 foot	1.20	11.00	47.20	18.30	0.28
	<u>42A</u>	1 foot	1.2	8.5	20.7	44.2	0.27
	<u>47S</u>	Surface	3.1	35.8	423	20.5	0.52
	<u>48S</u>	Surface	13.5	179	220	129	52.20
	49S	Surface	8.4	12.5	27.6	207	14.30
	49@5'	5 feet	42.00	11.90	9.40	305	0.28
	49@7'	7 feet	0.63	9.80	7.80	66.30	Not Taken
	54@3'	3 feet	1.60	12.50	22.10	42.00	11.20
	<u>55 SED</u>	sump	7.00	265.00	65.20		1.80
	5/5	surface		134.00	37.20	19.00	1.00
	292		<u> </u>	0.80	21.00	<u> </u>	3 20
	61 A		1 20	2.30	<u> </u>	01.20	0.33
	62 A		0.50		<u>40.20</u> 5.60	10.00	0.35
			10.50		297.00	485.00	0.20
	70 SED	sump	1.00	<u> </u>	102.00	36 10	0.23
	71005	sump	7 50	4.30	Not Takan	Not Takan	Not Takan
	72@2.5	2.5 leel	0.01	Not Taken	Not Taken	Not Taken	Not Taken
	73@2.5	2.5 feet	2 70	Not Taken	Not Taken	Not Taken	Not Taken
	75	decon pad	0.82	10.70	10 90	42.80	0.35
,	<u></u>	_uecon pau	0.02				

Characterization Sampling TCLP for Metals of Concern

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		r	<u> </u>	-r		
		Cyanide Total	TCLP Cadmium	TCLP Chromium	TCLP Lead	TCLP Nickel
Sample No.	Location	1.2 mg/kg	1.0 mg/l	5.0 mg/l	5.0 mg/l	
WX-SO-001	Sample point 001	<0.25	0.002	0.004	0.041	0.010
WX-SO-002	Sample point 002	<0.25	0.008	0.006	0.014	0.034
WX-SO-003	Sample point 003	1.02	0.152	0.007	0.038	1.000
WX-SO-004	Sample point 004	0.63	0.011	0.005	0.034	0.415
WX-SO-006	Sample point 006	0.30	0.007	0.004	0.038	0.088
WX-SO-007	Sample point 007	<0.25	0.044	0.012	0.004	0.036
WX-SO-008	Sample point 008	1.76	0.183	0.009	0.014	0.213
WX-SO-009	Sample point 009	1.10	0.435	0.006	0.011	3.480
WX-SO-010	Sample point 010	<0.25	0.015	0.005	0.023	4,160
WX-SO-011	Sample point 011	<0.25	0.003	0.017	0.448	0.040
WX-SO-014	Sample point 014	5.05	0.128	0.013	0.253	0.870
WX-SO-015	Sample point 015	<0.25	0.061	0.004	0.011	2.420
WX-SO-016	Sample point 016	<0.25	0.024	0.006	0.250	0.580
WX-SO-017	Sample point 017	0.37	0.005	0.009	0.137	0.057
WX-SO-018	Sample point 018	0.29	0.002	0.003	0.014	0.007
WX-SO-020	Sample point 020	0.81	0.549	0.002	0.005	1.190
WX-SO-024	Sample point 024	15.00	0 783	0.028	0.019	0.831
WX-SO-027	Sample point 027	1.65	0.017	0.009	0.031	0.040
WX-SO-029	Sample point 029	0.33	0.524	0.009	0.074	10.3
WX-SO-030	Sample point 030	0.28	0.029	0.005	< 0.003	0.078
WX-SO-031	Sample point 031	<0.25	0.006	0.004	0.004	0.026
WX-SO-039	Sample point 039	2 47	0 171	0.057	0.677	0 702
WX-SO-040	Sample point 040	3.02	0.049	0.023	0.128	1,280
WX-SO-041	Sample point 041	9.66	0.324	0.053	0.954	1.560
WX-SO-021	Sample point 021	136.00	2.060	0.015	0.021	6.210
VS-SO-0021-2.5	S.P. 021 - 2.5 ft. BGS	<0.25	0.008	0.005	0.006	1.520
VS-SO-0043	East of S.P. 021	Not Analyzed	12.1	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0044	North of S.P. 021	Not Analyzed	3.490	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0045	West of S.P. 021	Not Analyzed	0.294	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0051	10 ft. east of S.P. 043	Not Analyzed	0.003	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0052	8 ft. north of S.P. 044	Not Analyzed	9.000	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0053	10 ft. west of S.P. 045	Not Analyzed	0.196	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0064	7 ft. north of S.P. 052	Not Analyzed	0.002	Not Analyzed	Not Analyzed	Not Analyzed
VS-SO-0049-CB	N. Sump sediments	39.60	2.410	0.138	0.022	23.300
VS-SO-0049-C	N. Sump - 5 ft. BGS	1.64	0.156	0.010	0.019	2.460
VS-SO-0049-D	N. Sump - 7 ft. BGS	0.37	0.765	0.008	0.009	3.250
VS-SO-0055-C	S. Sump - 2 ft. BGS	<0.25	0.082	0.004	0.007	0.594
VS-SO-0055-D	S. Sump - 3 ft. BGS	<0.25	0.005	0.006	0.008	0.099
VS-SO-0065-NW	Under Prod. bldg	2.29	<u>0.016</u>	0.006	0.005	0.540
<u>VS-SO-0066-SW</u>	Under Prod. bldg	5.89	0.003	0.003	0.006	0.064
VS-SO-0067-NE	Under Prod. bldg	0.51	0.069	0.027	0.017	15.400
VS-SO-0068	Under Scale House	<0.25	0.002	0.004	0.003	<u>0.071</u>

Characterization Sampling TCLP for VOCs of Concern

			TCLP 1,1-Dichloroetane	TCLP Chloroform	TCLP 1,1,1-Trichloroethane	TCLP Trichloroethane	TCLP Benzene
Sample	Location	Depth					
No.							
	Comple Daint 24	1.60.04	Net Detected	Not Data at a d	Net Detected	Not Data stad	Net Detected
VSSU-0021-V	Sample Point 21	1 1001		Not Detected	Not Detected	Not Detected	Not Detected
VSSO-0049-V	North Sump	1 foot	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
VSSO-0049-CB-V	North Sump	sludge	Not Detected	269.0	10.5	Not Detected	116.2
VSSO-0049-C-V	North Sump	5 feet	Not Detected	Not Detected	4.0	Not Detected	Not Detected
VSSO-0049-D-V	North Sump	7 feet	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
WXSED 0054	South Sump	sediment	Not Detected	Not Detected	8.4	108.5	Not Detected
VSSO-0054-C-V	South Sump	2 feet	Not Detected	Not Detected	18.3	Not Detected	Not Detected
VSSO-0054-D-V	South Sump	3 feet	Not Detected	Not Detected	28.2	Not Detected	Not Detected
VSSO-0056.1	Scale House	Surface	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
VSSO-0058.2	Production Bldg.	Surface	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
VSSO-0065-NW-V	Production Bldg.	under slab	Not Detected	Not Detected	Not Detected	34.4	Not Detected
VSSO-0066-SW-V	Production Bldg.	under slab	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
VSSO-0067-NE-V	Production Bldg.	under slab	Not Detected	Not Detected	19.7	Not Detected	Not Detected

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		Cadmium	Chromium	Lead	Nickel	Cyanide
Sample No.	Location					
WIPE 001	Production building concrete slab	Not Taken	Not Taken	Not Taken	Not Taken	0.011
WIPE 002	Production building concrete slab	0.011	0.030	0.137	0.175	Not Taken
WIPE 003	North side scale house foundation wall	Not Taken	Not Taken	Not Taken	Not Taken	0.005
WIPE 004	North side scale house foundation wall	0.007	0.015	0.390	0.087	Not Taken
WIPE 005	Production building north foundation wall	Not Taken	Not Taken	Not Taken	Not Taken	0.039
WIPE 006	Production building north foundation wall	0.087	0.013	0.126	0.204	Not Taken
WIPE 007	Production building center footer	Not Taken	Not Taken	Not Taken	Not Taken	0.102
WIPE 008	Production building center footer	0.211	0.470	0.153	0.220	Not Taken
WIPE 009	Not Taken	***	***	***	***	***
WIPE 010	Not Taken	***	***	***	***	***
WIPE 011	Production building north foundation wall	Not Taken	Not Taken	Not Taken	Not Taken	0.003
WIPE 012	Production building north foundation wall	0.004	0.003	0.013	0.056	Not Taken
WIPE 013	Production building west foundation wall	Not Taken	Not Taken	Not Taken	Not Taken	0.013
WIPE 014	Production building west foundation wall	0.005	0.010	0.039	0.096	Not Taken
WIPE 015	Footers burried to NE of production bldg.	0.002	0.005	0.136	0.011	Not Taken
WIPE 016	Footers burried to NE of production bldg.	Not Taken	Not Taken	Not Taken	Not Taken	<0.01
WIPE 017	Footers burried to NE of production bldg.	0.003	0.013	0.154	0.126	Not Taken
WIPE 018	Footers burried to NE of production bldg.	Not Taken	Not Taken	Not Taken	Not Taken	<0.01

APPENDIX D

UNDERGROUND STORAGE TANK REMOVAL SAMPLE RESULTS

Underground Storage Tank Removal - Sample Results

Sample No.	Sample Date	Media Analyzed	
17531	04/16/98	1,000 gallon UST contents	
17532	04/16/98	Soil under the tanks for disposal purposes	
17533	04/23/98	Soil under the tanks for disposal purposes	
17749	05/06/98	500 gallon UST contents	
17750	05/06/98	500 gallon UST contents	

EXPRESSI	LAB	PO Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347	Tel: (800) THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
\sim		SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
		<u>NEW YORK STATE LABORATORY #11369</u>
	ORATOR	Y REPORT - MISC
Cust ONTARIO SPEC. CO Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630	INT.	PO Number: Project Number: 9705 Project Cust: Project Site: PRIMOSHEILD, UTICA 8 1998 Lab Director PRIMOSHEILD, UTICA
SAMPLE	DEMOGRA	PHICS AND TEST RESULTS
Results shown in bold type: Detection Limits shown in mg/kg or Results expressed in mg/kg or mg/L < DL = less than detectable limit Sample ID (LAB) Sample ID #1 (CUST) nple ID #2 (CUST) Matrix Sampled By Date Sampled Date Received Date Analyzed Date Reported TOX by EPA 9077	rmg/L =ppm 17531 1000 GAL U.S.T./#003 LIQUID LIQUID KEITH OLIVER 04/16/98 14:00 04/27/98 09:00 04/29/98 05/20/98 100 ppm	
TOX:10750	RESUL	TS WHEN YOU WANT THEM METTCLPA.WK4

Tel: (716) 554-5347 Tel:	(800) THE LABS	Tel: (800) 843-522	7 FAX: (716) 554-4114
		SPECIALIZING IN	N ENVIRONMENTAL SOIL TESTS
		NEW YORK STAT	E LABORATORY #11369
LABORATO	<u>KY REPC</u>	<u> </u>	CTHOD 8021
Cust ONTARIO SPEC. C	ONT.	PO Number:	
Address: 333 GANSON ST.		Project Numbe	er 9705
BUFFALO NV 1420	3	Project Cust	
Attm: PICHAPD CVCAN	°	Project Site:	PRIMOSHEILD LITICA
Atui. NICHARD CIGAN		Data EA VED:	FRIMOSHEILD, UTICA
Dhana 716 866 2222		Lab Director	$ \langle \mathbf{n} \rangle \langle \mathbf{n} \rangle $
FIND 716 842 1620		Lab Director	M/M/W
FAA /16-842-1630			/////
SAMPLE DEN	IOGRAPHI	CS AND TES	ST RESULTS
Results in bold type; Detection Limits	in small print	Results shown are:	Volatile Organics
Detection Limits* = Soil=	=ug/kg ppb	Extraction Method:	EPA 5030 Purge & Trap
*See Individual Limit Wate	er-ug/L ppb	Analysis Method:	EPA 8021 GC PID/FID
Sample ID (LAB)	17531		
Sample ID#1(CUST)	1000 GAL U.S.T	·_/#003-009	
Sample ID#2(CUST)	LIOUID		
Matrix	LIQUID		
Sampled By	KEITH OLIVE	R	
Date Sampled	4/16/98 14:	10	
Date Received	4/27/98 9:0	0	
Date Analyzed	4/28/98		
Date Reported	4/28/98		
	Results Det Li	nit [*] (PPB)	
MTBE	24222462 20000	00.0	
Benzene	6429327 2000	00.0	
Toluene	1479083 2000	00.0	
Ethylbenzene	11127367 2000	00.0	
m&p-Xylene	51874102 4000	00.0	
o-Xylene	19813087 2000	00.0	
Isopropylbenzene	2974289 2000	00.0	
n-rropyldenzene	5217200 2000	00.0	
1,3,3-1 rimeinyidenzene	2000 CDL (CDL (CDL (CDL))	00.0	
tert-Butylbenzene	< DL(U) 2000 30625054 2000	00.0	
sec-Butylbenzene&1.3-Dichloroben	zene $< DL(\Omega) = 4000$	00.0	
Isopropyltoluene	1906541 2000	00.0	
n-Butylbenzene	5712322 2000	00.0	
Naphthalene	9201068 2000	00.0	
< DL (LI)=compound analyzed but	not detected B=an	alvte found in blank	
I =estimated value	F= AY	ceed calibration range	

EXPRESS	LAB		PO Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347	Tel: (800) T	HE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
			SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
			NEW YORK STATE LABORATORY #11369
LABOR	ATOR	Y R	EPORT - METALS - Oil
Cust ONTARIO SPEC. C	ONT.		PO Number:
Address: 333 GANSON ST.			Project Number: 9705
BUFFALO, NY 1420	3		Project Cust:
Attn: RICHARD CYGAN			Project Site: PRIMOSHEILD, UTICA
			Date FAXED:
Phone 716-856-3333			Lab Director $M_{\Lambda\Lambda}$
FAX 716-842-1630			
SAMPLI	E DEMO	GRA	PHICS AND TEST RESULTS
Detection Limits [*] = Oil=mg/K *See Individual Limits	g =mg/kg or pp	m	Results shown are: Metals Digestion Method: EPA 3050 Analysis Method: EPA 6010 ICP: AA/Cold Vapor
Sample ID (LAB)	17531	<u> </u>	
Sample ID #1 (CUST)	1000 GAL U.	S.T./#003-	
mple ID #2 (CUST)	LIQUID	_	
Matrix	LIQUID		
Sampled By	KEITH OLF	VER	
Date Sampled	04/16/98	14:00	
Date Received	04/27/98	09:00	
Date Analyzed	04/28/98		
Date Reported	04/29/98		
* ND = Below Detection Limit	Results D	et Limit (p	opm)
Arsenic	< DL(U)	0.300	
Barium	0.30	0.100	
Cadmium	< DL(U)	0.100	
Chromium	0.20	0.100	
Lead	640	0.300	
Mercury	0.024	0.020	
Selenium	< DL(U)	0.500	
Silver	< DL(U)	0.100	

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EXPRESSLAB PC	O Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347 Tel: (800) THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
1	SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
	NEW YORK STATE LABORATORY #11369
LABORATORY R	EPORT - TCLP 8021
Cust ONTARIO SPEC. CONT.	PO Number:
Address: 333 GANSON ST	Project Number 9705
BUFFALO NV 14203	Project Cust:
Atta: DICHADD CVCAN	Project Site: PDIMOSHEILD LITICA
Alun: RICHARD CIGAN	Dete EA VED
	Date FAXED:
Phone 716-856-3333	Lab Director
FAX 716-842-1630	
SAMPLE DEMOGRAPH	HICS AND TEST RESULTS
Results in bold type: Detection Limits in small print	Results shown are: Volatile Organics
Detection Limits* = Soil=ug/kg ppb	Extraction Method: EPA 5030 Purge & Trap
*See Individual Limit Water=ug/L nnh	Analysis Method: EPA 8021 GC PID/FID
Sample ID (LAB) 17532	
Sample ID#1(CUST) SUSPECTED	J CONTAM.
Sample ID#2(CUST)	
Matrix SOIL	
Sampled By KEITH OLI	VER
Date Sampled 4/10/98	0.00
Date Received 4/2//98	9:00
Date Reported	
Date Reported	
Results De	
Banzana 55 1	10
Solution of the state of the	analyte found in blank
L=estimated value E=	exceed calibration range
Analysis performed on TCLP extract	
RESULTS	WHEN YOU WANT THEM RPT8021B
Page 1	

EXPRE	ESSLAB	PO Box 40 5611 Water Street	Middleser NY 14507
Tel: (716) 554-5347	Tel: (800) THE LA	BS Tel: (800) 843-5227	FAX: (716) \$\$4_4114
		SPECIALIZING IN EN	VIRONMENTAL SOIL TESTS
		<u>NEW YORK STATE LAI</u>	BORATORY #11369
	LABORATO	<u>RY REPORT - N</u>	<u> </u>
Cust ONTARIC	O SPEC. CONT.	PO Number:	
Address: 333 GANS	SON ST.	Project Number: 9	705
BUFFALC), NY 14203	Project Cust:	
Attn: RICHARD	D CYGAN	Project Site:	PRIMOSHEILD, UTICA
		Date FAXED:	
Phone 716-856-33	333	Lab Director	$\Lambda/h \mid N$
FAX 716-842-16	630		
SA	MPLE DEMOGR	APHICS AND TEST F	RESULTS
Results shown in hold to	vpe:		
Detection Limits shown	in mg/kg or mg/L		
Results expressed in mg	r/kg or mg/L=ppm		
< DL = less than detectable l	limit 🗸		
Sample ID (LAB)	17532		
Sample ID #1 (CUST)	SUSPECTED CON	ГАМ.	
nple ID #2 (CUST)	LAYER SOIL		
Matrix	SOIL		
Sampled By	KEITH OLIVER		
Date Sampled	04/16/98 14:00		
Date Received	04/27/98 09:00	_	
Date Reported	04/23/38	_	
Date Reported	04/25/50		
Ignitability:	Positive Flash at 35 Degree	es C	
Corrosivity:	pH = 7.13		
Reactivity:	Cyanide <20ppm Sulfide <20ppm		
% Solids:	71.97%		
~	RES	ULTS WHEN YOU WANT THEM	METTCLPA.WK4

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369 CABORATORY REPORT - TCLP METALS ONTARIO SPEC. CONT. ess: 333 GANSON ST. BUFFALO, NY 14203 RICHARD CYGAN Project Number: 9705 Project Site: PRIMOSHEILD, UTICA Date FAXED: a 716-856-3333 716-842-1630 SAMPLE DEMOGRAPHICS AND TEST RESULTS jon Limits* = Water mg/L or ppm Results shown are: TCLP Metals ICLP Metals Extraction Method: Closed Cup Extraction for 18 brs Analysis Method: EPA 6010 ICP; AA/Cold Vapor I de D#1 (CUST) SUSPECTED ID #2 (CUST) CONTAM LAYER SOIL X NALVER METH OLIVER I de J2/2078 ISJ35 Results Det Limit*	LABORATOR Cust ONTARIO SPEC. CONT. Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEMO Detection Limits* = Water =mg/L or p *See Individual Limits	Y RE OGRAI	SPECIA NEW YO PORT - PO N Proje Proje Date Lab I PHICS ANI Results s Extractio	ALIZING IN EN ORK STATE LA TCLP Jumber: Aumb	VIRONMENTAL SOIL TESTS BORATORY #11369 METALS 9705 PRIMOSHEILD, UTICA MALESULTS TCL B Metals
NEW YORK STATE LABORATORY #11369 DABORATORY REPORT - TCLP METALS ONTARIO SPEC. CONT. ess: 333 GANSON ST. BUFFALO, NY 14203 Project Number: 9705 RICHARD CYGAN Project Cust: * 716-856-3333 Project Site: PRIMOSHEILD, UTICA > 716-842-1630 Director MM SAMPLE DEMOGRAPHICS AND TEST RESULTS jon Limits* = Water =mg/L or ppm Results shown are: TCLP Metals ndividual Limits Extraction Method: Closed Cup Extraction for 18 hrs le ID (LAB) 17533 ED#1 OLIVER ampled 04/23/98 15:35 teel By KEITH OLIVER EXECUTED le By KEITH OLIVER 09:00 ualyzed 04/29/98 09:00 ualyzed 04/29/98 09:00 ualyzed 04/29/98 15:35 teported 04/29/98 Example	LABORATOR Cust ONTARIO SPEC. CONT. Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEMO Detection Limits* = Water =mg/L or p *See Individual Limits	Y RE OGRAI	PORT - PON Proje Proje Date Lab I PHICS ANI Results s Extractio	Umber: Aumb	BORATORY #11369 METALS 9705 PRIMOSHEILD, UTICA
LABORATORY REPORT - TCLP METALS ONTARIO SPEC. CONT. ess: 333 GANSON ST. BUFFALO, NY 14203 Project Number: RICHARD CYGAN Project Site: 9 716-856-3333 716-842-1630 Project Cust: Project Site: PRIMOSHEILD, UTICA DEMOGRAPHICS AND TEST RESULTS SAMPLE DEMOGRAPHICS AND TEST RESULTS in Limits* = Water =mg/L or ppm Results shown are: TCLP Metals Extraction Method: CONTAM. LAYER SOIL x SOIL kee IV 40/23/98 Metrin OLIVER iampled 04/23/98 Itemit*	LABORATOR Cust ONTARIO SPEC. CONT. Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEMO Detection Limits* = Water *See Individual Limits	Y RE OGRAE	PORT - PO N Proje Proje Date Lab I PHICS ANI Results s Extractio	TCLP Jumber: ext Number: 9 ext Cust: ext Site: FAXED: Director DTEST I shown are:	PRIMOSHEILD, UTICA
ONTARIO SPEC. CONT. ess: 333 GANSON ST. BUFFALO, NY 14203 RICHARD CYGAN = 716-856-3333 716-842-1630 SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm ndividual Limits te ID (LAB) 17533 te ID #1 (CUST) SUSPECTED te ID #1 (CUST) CONTAM. LAYER SOIL x SOIL ted By KEITH OLIVER iampled 04/23/98 15:35 keecived 04/27/98 09:00 Nalyzed 04/29/98 teported 04/29/98 teported 04/29/98	Cust ONTARIO SPEC. CONT. Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEM Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAI	PO N Proje Proje Date Lab I PHICS ANI Results s Extractio	Number: Act Number: 9 Act Cust: Act Site: FAXED: Director DTEST I shown are:	9705 PRIMOSHEILD, UTICA
ess: 333 GANSON ST. BUFFALO, NY 14203 RICHARD CYGAN 3 716-856-3333 716-842-1630 SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals in D (LAB) 17533 ie ID #1 (CUST) SUSPECTED ie ID #2 (CUST) CONTAM. LAYER SOIL x SOIL ie ID #2 (CUST) CONTAM. LAYER SOIL x SOIL ie ID #2 (CUST) CONTAM. LAYER SOIL x Results Det Limit*	Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEM Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAH	Proje Proje Date Lab I PHICS ANI Results s Extractio	ect Number: 4 ect Cust: ect Site: FAXED: Director DIRECTING	9705 PRIMOSHEILD, UTICA
BUFFALO, NY 14203 RICHARD CYGAN T16-856-3333 716-842-1630 SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: TCLP Metals ion Limits = Water =mg/L or ppm Results shown are: Extraction Method: Closed Cup Extraction for 18 hrs Analysis Method: EPA 6010 ICP; AA/Cold Vapor ie ID #1 (CUST) SUSPECTED ie ID #2 (CUST) CONTAM. LAYER SOIL x SOIL ied By KEITH OLIVER ampled 04/23/98 15:35 kceived 04/29/98 teported 04/29/98 Results Det Limit*	BUFFALO, NY 14203 Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEMO Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAF	Proje Proje Date Lab I PHICS ANI Results s Extractio	ect Cust: Ect Site: FAXED: Director DIRECTING DIRE	PRIMOSHEILD, UTICA
RICHARD CYGAN a 716-856-3333 716-842-1630 Project Site: Date FAXED: Lab Director Date FAXED: Lab Director Date FAXED: Lab Director jon Limits* = Water mdividual Limits =mg/L or ppm Results shown are: TCLP Metals Extraction Method: Closed Cup Extraction for 18 hrs Analysis Method: EPA 6010 ICP; AA/Cold Vapor le ID #1 (CUST) SUSPECTED le ID #2 (CUST) CONTAM. LAYER SQIL x SOIL iampled 04/23/98 deceived 04/29/98 deproted 04/29/98 Results Det Limit*	Attn: RICHARD CYGAN Phone 716-856-3333 FAX 716-842-1630	OGRAI ^{29m}	Proje Date Lab I PHICS ANI Results s Extractio	Ext Site: FAXED: Director DTEST I shown are:	PRIMOSHEILD, UTICA
a 716-856-3333 716-842-1630 Date FAXED: Lab Director MM sample mg/L or ppm ndividual Limits mg/L or ppm results shown are: TCLP Metals Extraction Method: Closed Cup Extraction for 18 hrs Analysis Method: EPA 6010 ICP; AA/Cold Vapor le D #1 (CUST) SUSPECTED le D #2 (CUST) CONTAM. LAYER SOIL x SOIL led By KEITH OLIVER iampled 04/23/98 develved 04/22/98 deported 04/29/98	Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEM Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAH	Date Lab I PHICS ANI Results s Extractio	FAXED: Director	Mh K
a 716-856-3333 716-842-1630 Lab Director SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm Results shown are: TCLP Metals closed Cup Extraction for 18 hrs ndividual Limits CONTAM. LAYER SOIL ke ID #1 (CUST) SOIL le D #2 (CUST) CONTAM. LAYER SOIL x SOIL led By KEITH OLIVER iampled 04/23/98 09:00 walyzed 04/29/98 Results Det Limit*	Phone 716-856-3333 FAX 716-842-1630 SAMPLE DEM Detection Limits* = Water *See Individual Limits	OGRAF	Lab I PHICS ANI Results s Extractio	Director DTEST I shown are:	MA M
Model SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm Results shown are: TCLP Metals ndividual Limits Extraction Method: Closed Cup Extraction for 18 hrs he ID (LAB) 17533 EXTRCTION Method: EPA 6010 ICP; AA/Cold Vapor he ID #1 (CUST) SUSPECTED EVA 6010 ICP; AA/Cold Vapor he ID #2 (CUST) CONTAM. LAYER SOIL X iampled 04/23/98 15:35 keeived 04/27/98 09:00 haalyzed 04/29/98 keported 04/29/98	FAX 716-842-1630 SAMPLE DEM Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAI	PHICS ANI Results s Extractio	D TEST I	
SAMPLE DEMOGRAPHICS AND TEST RESULTS ion Limits* = Water =mg/L or ppm Results shown are: TCLP Metals ndividual Limits Extraction Method: Closed Cup Extraction for 18 hrs ndividual Limits 17533 Extraction Method: EPA 6010 ICP; AA/Cold Vapor le ID (LAB) 17533 Integration of the state of	SAMPLE DEM Detection Limits* = Water =mg/L or p *See Individual Limits	OGRAI	PHICS AND Results s Extractio	D TEST I	RESULTS
le ID (LAB) 17533 le ID #1 (CUST) SUSPECTED le ID #2 (CUST) CONTAM. LAYER SOIL x SOIL led By KEITH OLIVER isampled 04/23/98 04/23/98 15:35 Received 04/29/98 leported 04/29/98			Analysis	on Method: Method:	Closed Cup Extraction for 18 hrs EPA 6010 ICP; AA/Cold Vapor
le ID #1 (CUST) SUSPECTED le ID #2 (CUST) CONTAM. LAYER SOIL x SOIL led By KEITH OLIVER Sampled 04/23/98 04/23/98 15:35 Received 04/27/98 Malyzed 04/29/98	Sample ID (LAB) 17533				
le ID #2 (CUST) CONTAM. LAYER SOIL x SOIL led By KEITH OLIVER Sampled 04/23/98 Contampled 04/23/98 Contampled 04/23/98 Contampled 04/29/98 Results Det Limit*	Sample ID #1 (CUST) SUSPECT	ED			
x SOIL led By KEITH OLIVER Sampled 04/23/98 Gampled 04/23/98 Analyzed 04/29/98 Reported 04/29/98	CONTAM	LAYER SO	Ľ		
KEITH OLIVER Sampled 04/23/98 15:35 Received 04/27/98 09:00 Analyzed 04/29/98 100 Reported 04/29/98 100	Someled By:				
Out Out <td>Date Sampled 04/23/98</td> <td>LIVER 15.35</td> <td></td> <td></td> <td></td>	Date Sampled 04/23/98	LIVER 15.35			
Analyzed Aported Results Det Limit*	Date Received 04/27/98	3 09:00			
Reported 04/29/98 Results Det Limit*	Date Analyzed 04/29/98	8			
Results Det Limit*	Date Reported 04/29/98	3			
0.150	Date Sampled 04/23/98 Date Received 04/27/98 Date Analyzed 04/29/98 Date Reported 04/29/98 Results	8 15:35 8 09:00 8 3 Det Limit*			

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EXPRESSI AR	
Tel: (716) 554-5347 Tel: (800) THE LABS	Box 40 5611 Water Street Middlesex NY 14507 Tel: (800) 843-5227 FAX: (716) 554-4114
	SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
	NEW YORK STATE LABORATORY #11369
LABORATORY RE	EPORT - TCLP 8021
Cust ONTABIO SPEC CONT	PO Number:
Address: 333 GANSON ST.	Project Number 9705
BUFFALO, NY 14203	Project Cust:
Attm: BICHARD CVCAN	Project Site: PRIMOSHEILD LITICA
Aun. Alchard Cionit	Date FAXED: 1
Phone 716 856 3333	Lab Director
FAX 716-830-3333	Lab Director INN/M L
SAMPLE DEMOGRAPH	ICS AND TEST RESULTS
Results in bold type; Detection Limits in small print	Results shown are: Volatile Organics
Detection Limits* = Soil=ug/kg ppb	Extraction Method: EPA 5030 Purge & Trap
*See Individual Limit Water=ug/L ppb	Analysis Method: EPA 8021 GC PID/FID
Sample ID (LAB) 17533	
Sample ID#1(CUST) SUSPECTED	
Sample ID#2(CUST) CONTAM. L.	AYER SOIL
Matrix SOIL	
Sampled By KEITH OLIV	ÆR
Date Sampled 4/23/98 1	5:35
Date Received 4/27/98 9	9:00
Date Analyzed 4/28/98	
Date Reported 4/29/98	
Results Det	Limit* (PPB)
Benzene 16.2	1.0
< DL (U)=compound analyzed but not detected B=a	analyte found in blank
L-esumated value	exceed calibration range
Analysis performed on TCLP extract	
	THEN YOU WANT THEM RPT8021B

EXPRESS	LAB	PO Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347	Tel: (800) THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
<u> </u>		SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
		NEW YORK STATE LABORATORY #11369
LAE	ORATOR	Y REPORT - MISC
Cust ONTARIO SPEC. C	ONT.	PO Number:
Address: 333 GANSON ST.		Project Number: 9705
BUFFALO, NY 1420	3	Project Cust:
Attn: RICHARD CYGAN		Project Site: PRIMOSHEILD, UTICA
Phone 716 956 2222		Lab Director
FIGHE /10-830-3333		
FAX 716-842-1630		
SAMPLI	E DEMOGRAJ	PHICS AND TEST RESULTS
Results shown in bold type:		
Detection Limits shown in mg/kg of	or mg/L	
Results expressed in mg/kg or mg/	L=ppm	
< DL = less than detectable limit		
Sample ID (LAB)	17533	
Sample ID #1 (CUST)	SUSPECTED	
mple ID #2 (CUST)	CONTAM. LAYER SC	DIL
Matrix	SOIL	
Sampled By	KEITH OLIVER	
Date Sampled	04/23/98 15:35	
Date Received	04/27/98 09:00	
Date Analyzed	04/29/98	
Date Reported	04/29/98	
Ignitability. Negativ	e Flashnoint	
no flash	un to 140 Degrees F	
	up to 140 Degrees r	
Corrosivity: pH = 7.	56	
Reactivity: Cvanid	e <20nnm	
Sulfide	<20nnm	
Sumue	20ppm	
% Salids. 81 909	6	
/ 50mus. 51.90 /	U C	
\sim		

EXPRESSI	LAB	PO Box 40 5611 Water Street Middlesex NY 14507	
Tel: (716) 554-5347	Tel: (800) THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114	(
	-	SPECIALIZING IN ENVIRONMENTAL SOIL TESTS	
		NEW YORK STATE LABORATORY #11369	
T A D		V DEDODT MISC	
	ORATOR	<u>A REPORT - MISC</u>	
Cust OSC		PO Number:	
Address: 333 GANSON ST.	,	Project Number: 9705	
BUFFALO, NY 14203	n I I I I I I I I I I I I I I I I I I I	「Vご」 Project Cust:	
Attn: RICH CYGAN		1008 Project Site: PRIMOSHIELD	
	MAY 2	Date FAXED:	
Phone 716-856-3333	_	Lab Director	
FAX 716-842-1360			
SAMPLE	DEMOGRA	PHICS AND TEST RESULTS	
Results shown in bold type: Detection Limits shown in mg/kg or Results expressed in mg/kg or mg/L	r mg/L ≔ppm		
Sample ID (LAB)	17749	J 500 gallon UST	
Sample ID #1 (CUST)	CSL-0009	1	
nple ID #2 (CUST)		1	
Matrix	WATER	1	
Sampled By	KEITH OLIVER	1	
Date Sampled	05/06/98 16:00	1	
Date Received	05/08/98 10:45]	
Date Analyzed	05/18/98		
Date Reported	05/20/98		
TOX by EPA 9077	400mg/L		
~			
TOX:10750			_
	RESUL	TS WHEN YOU WANT THEM METTCLPA.WI	K4

EXPRESSLA	B	PO Box	40 5611 Water S	Street Midd	llesex NY 14507
Tel: (716) 554-5347 Tel: (800,	THE LAB	S	Tel: (800) 843-522	7F.	AX: (716) 554-4114
1			SPECIALIZING IN NEW YORK STATI	ENVIRONM	ENTAL SOIL TESTS RY #11369
LABORATORY	' RE	POF	RT - ME	THO	D 8021
Cust OSC Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 716-856-3333 FAX 716-842-1360			PO Number: Project Numbe Project Cust: Project Site: Date FAXED: Lab Director	r 9705 primoshi	ELD
SAMPLE DEMO	GRAP	HICS	AND TES	T RESI	JLTS
Results in bold type; Detection Limits in sn Detection Limits* = Soil=ug/kg *See Individual Limit Water=ug/ Sample ID (LAB) Sample ID#1(CUST)	uall print g ppb L ppb 177 CSL-0009	49	Results shown are: Extraction Method: Analysis Method:	Volatile Org EPA 5030 P EPA 8021 G	anics urge & Trap C PID/FID
Sample ID#2(CUST) Matrix Sampled By Date Sampled	WATER KEITH O 5/6/98	LIVER 16:00			
Date Received Date Analyzed Date Reported	5/8/98 5/12/98 5/12/98 Results	10:45 Det Limit*	(PPB)		
MTBE Benzene Toluene Ethylbenzene	< DL(U) < DL(U) 209.7 < DL(U)	100.0 100.0 100.0 100.0			
m&p-Xylene o-Xylene Isopropylbenzene n-Propylbenzene	323.8 143.6 < DL(U) 269.8 2614 8	200.0 100.0 100.0 100.0			
tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene&1,3-Dichlorobenzene	2010.8 536.9 9209.4 3299.1	100.0 100.0 100.0 200.0			
Isopropyltoluene n-Butylbenzene Naphthalene 	2825.3 5734.5 11054.3 letected	100.0 100.0 100.0 B=analyte	found in blank		
L=estimated value	RESULT	E= excee S WHEN	d calibration range		RPT8021B

	Tel: (800)	THE LABS	Tel: (800) 843-5227	FAX: (716) 554-411
~			SPECIALIZING IN	ENVIRONMENTAL SOIL TESTS
			NEW YORK STATE	LABORATORY #11369
LABORATO	RY RE	PORT	- METALS DIRI	ECT - WATER
Cust OSC			PO Number:	
Address: 333 GANSON ST.			Project Number:	9705
BUFFALO, NY 14203	I.		Project Cust:	
Attn: RICH CYGAN			Project Site:	PRIMOSHIELD
			Date FAXED:	
Phone 716-856-3333			Lab Director	MAN
FAX 716-842-1360				
SAMPLE	DEMO	OGRAP	HICS AND TEST	' RESULTS
Detection Limits* = Water-mg	/ =mg/L or pr		Results shown are:	Metals
*See Individual Limits	•		Digestion Method:	EPA 3010
		\checkmark	Analysis Method:	EPA 6010
Sample ID (LAB)	17749			
Sample ID #1 (CUST)	CSL-0009	_		
Sample ID #2 (CUST)				
utrix	WATER			
Sampled By	KEITH OL	IVER		
Date Sampled	05/06/98	16:00		
Date Received	05/08/98	10:45		
	05/13/98			
Date Analyzed				
Date Analyzed Date Reported	05/13/98			
Date Analyzed Date Reported * ND = Below Detection Limit	05/13/98			
Date Analyzed Date Reported * ND - Below Detection Limit	05/13/98 Results	Det. Limit		
Date Analyzed Date Reported * ND = Below Detection Limit Arsenic	05/13/98 Results < DL	Det. Limit 0.050		
Date Analyzed Date Reported * ND - Below Detection Limit Arsenic Barium	05/13/98 Results < DL 0.239	Det. Limit 0.050 0.050		
Date Analyzed Date Reported * ND = Below Detection Limit Arsenic Barium Cadmium	05/13/98 Results < DL 0.239 < DL	Det. Limit 0.050 0.050 0.050		
Date Analyzed Date Reported * ND = Below Detection Limit Arsenic Barium Cadmium Chromium	05/13/98 Results < DL 0.239 < DL < DL	Det. Limit 0.050 0.050 0.050 0.050		
Date Analyzed Date Reported * ND = Below Detection Limit Arsenic Barium Cadmium Chromium Lead	05/13/98 Results < DL	Det. Limit 0.050 0.050 0.050 0.050 0.050		
Date Analyzed Date Reported * ND - Below Detection Limit Arsenic Barium Cadmium Chromium Lead Mercury	05/13/98 Results < DL	Det. Limit 0.050 0.050 0.050 0.050 0.050 0.050		
Date Analyzed Date Reported * ND = Below Detection Limit Arsenic Barium Cadmium Chromium Lead Mercury Selenium	05/13/98 Results < DL	Det. Limit 0.050 0.050 0.050 0.050 0.050 0.002 0.050		

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EXPRESSLAB	PO Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347 Tel: (800) THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
\smile	SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
	NEW YORK STATE LABORATORY #11369
LABORATOR	Y REPORT - MISC
Cust OSC Address: 333 GANSON ST.	PO Number: Project Number: 9705
BUFFALO, NY 14203	Project Cust:
Attn: RICH CYGAN	Project Site: PRIMOSHIELD
	Date FAXED:
Phone 716-856-3333	Lab Director
FAX 716-842-1360	
SAMPLE DEMOGRA	PHICS AND TEST RESULTS
Results shown in bold type: Detection Limits shown in mg/kg or mg/L Results expressed in mg/kg or mg/L=ppm < DL = less than detectable limit Sample ID (LAB) Sample ID #1 (CUST) nple ID #2 (CUST) Matrix Sampled By Date Sampled 05/06/98 10:45 Date Received 05/18/98 Date Reported	500 gallon UST
TOX by EPA 9077 300mg/L	
TOX:10750	TS WHEN YOU WANT THEM METTCLPA.WK4

Ĩ	EXPRESSLA	B	PO Box	40 5611 Water	Street Middlesex NY 14507
ľ	Tel: (716) 554-5347 Tel: (800) THE LAI	BS	Tel: (800) 843-522	7 FAX: (716) 554-4114
Ţ				SPECIALIZING IN NEW YORK STATI	N ENVIRONMENTAL SOIL TESTS E LABORATORY #11369
	LABORATORY		POF	<u>RT - ME</u>	CTHOD 8021
	Cust OSC Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 716-856-3333 FAX 716-842-1360			PO Number: Project Numbe Project Cust: Project Site: Date FAXED: Lab Director	PRIMOSHIELD
ľ	SAMPLE DEMO	GRAF	PHICS	S AND TES	T RESULTS
	Results in bold type; Detection Limits in sr Detection Limits* = Soil=ug/k	nall print g ppb		Results shown are: Extraction Method:	Volatile Organics EPA 5030 Purge & Trap EPA 8021 CC PUD/EUD
	Sample ID (LAB)	177 CSL-0010	/50	Analysis Method.	
	Sample D#2(CUST) Matrix	WATER			
	Sampled By Date Sampled	KEITH O	LIVER 16:00		
	Date Received	5/8/98	10:45		
	Date Reported	5/12/98			
		Results	Det Limit*	(PPB)	
	MTBE	< DL(U)	100.0		
	Benzene	< DL(U)	100.0		
	Toluene	< DL(U)	100.0		
	Ethylbenzene	< DL(U)	100.0		
1	m&p-Xylene	275.6	200.0		
	o-Xylene	213.0	100.0		
		< DL(0)	100.0		
	1 3 5-Trimethylbenzene	< DL(0) 963.8	100.0		
	tert-Butylbenzene	144 7	100.0		
	1,2,4-Trimethylbenzene	3342.2	100.0		
	sec-Butylbenzene&1,3-Dichlorobenzene	1048.2	200.0		
	Isopropyltoluene	1208.5	100.0		
	n-Butylbenzene	4043.9	100.0		
	Naphthalene	6977.5	100.0		
u .	< DL (U)=compound analyzed but not o	letected	B=analyte	found in blank	
Y	L=estimated value		E= excee	d calibration range	
Ē		RESULTS	S WHEN	YOU WANT THEM	

EXPRESSI	AB		PO Box 40 5611 Water Street Middlesex NY 14507
Tel: (716) 554-5347	Tel: (800)	THE LABS	Tel: (800) 843-5227 FAX: (716) 554-4114
			SPECIALIZING IN ENVIRONMENTAL SOIL TESTS
-			NEW YORK STATE I AROBATORY #11360
LABORATO	RYRE	PORT	r - METALS DIRECT - WATER
Cust OSC Address: 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 716-856-3333 FAX 716-842-1360			PO Number: Project Number: 9705 Project Cust: Project Site: PRIMOSHIELD Date FAXED: Lab Director W/M
SAMPLE	DEMC	JGRA	PHICS AND TEST RESULTS
Detection Limits [*] = Water-mg/ *See Individual Limits	′ =mg/L or pp	om V	Results shown are: Metals Digestion Method: EPA 3010 Analysis Method: EPA 6010
Sample ID (LAB)	17750		
Sample ID #1 (CUST)	CSL-0010	-	
• Sample ID #2 (CUST)			
	WATER		
Sampled By	KEITH OL	IVER	
Date Sampled	05/06/98	16:00	
Date Received	05/08/98	10:45	
Date Analyzed	05/13/98		
Date Reported	05/13/98		
* ND - Below Detection Limit			
A	Results	Det. Limit	
Arsenic		0.050	
Darium Cadmium	CDI	0.050	
Chromium		0.050	
Lead		0.050	
Mercury		0.002	
Selenium	< DL	0.050	
Silver	<dl< td=""><td>0.050</td><td></td></dl<>	0.050	
			-

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APPENDIX E

GWTS PROCESS FLOW DIAGRAM



TREATMENT SYSTEM SCHEMATIC



ITEM	017.	
I	3	GRANULAR ACTIVATED CARBON CONTACTOR DRUM 175 LBS GAC (55 GAL) CAMERON-YAKIMA WSU-55 OR EQUAL
2	AS REO'D	1/2 PVC PIPE & FITTINGS, SCH. 80. ASTM D-1784 & D-1785 (SEE NOTE 3)
3	3	1/2 BALL VALVE. PVC. SOLVENT WELDED JOINTS. TFE SEALS, CHEMTROL S45HV-V OR EOUAL
4	1	DUPLEX BASKET STRAINER (WITH CONTROL VALVE) PVC. 1/2" DIA. SOCKET END CONNECTIONS. 325 MESH. 40 MICRON. S.S. SCREENS, HAYWARD OR EQUAL
5	3	PRESSURE GAUGE. 0-100 PSI RANGE WITH CHEMGUARD. $4\%_2^{\circ}$ DIA. FACE. TREFICE MODEL 450 S.S. OR EQUAL
6	i	1/2" DIA.FACE BADGER MODEL M-70 FLOW METER WITH TOTALIZER OR EQUAL
7	6	1/2" DIA. QUICK CONNECT KAMLOCK COUPLER AND ADAPTOR. OPW 633 C AND 633 F (WITH HOSE SHANK) OR EQUAL
8	4	SAMPLE PORT. PVC. 1/2" NPT x 1/2" HOSE. CHEMTROL CHEMCOCK VALVE OR EQUAL
9	I	2 DRUM POLYETHYLENE SPILL CONTAINMENT PALLET. NEW PIG MODEL PAK357J OR EOUAL
ю	AS REO'D	1/2 CHEMICAL TRANSFER HOSE (TYP.), COODYEAR XLPE WITH SYNTHETIC FABRIC REINFORCEMENT AND SYNTHETIC RUBBER COVER, OR EQUAL
•	I	PROPELLER WALL MOUNTED FAN. ACME DYNAMASTER FO9. 300 CFM @ .125' STATIC PRESSURE. WALL COLLAR. BACKDRAFT DAMPER OR EQUAL
12	1	EXTRUDED ALUMINUM LOUVER, 20° × 20° DRAINABLE BLADE COMBINATION LOUVER, DOWCO C-DWE-46 WITH MANUAL OPERATOR OR EQUAL

NOTES

- L ALL PIPE ELEVATIONS NOTED ARE DISTANCES FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE PIPE.
- 2. QUANTITIES SHOWN IN THE BILL OF MATERIALS ARE FOR THIS DRAWING ONLY.
- 3. ALL PVC PIPE AND FITTINGS SHALL BE MADE FROM CLASS 12454-B MATERIALS OR BETTER IN ACCORDANCE WITH ANSI/ASTM D-1784/D-1785 AND SHALL BE SCHEDULE 80 UMLESS OTHERWISE SPECIFIED.
- 4. PROVIDE AND INSTALL GRINNELL FIG. 103 OR EQUAL OFFSET PIPE CLAMPS AND RELATED HARDWARE FOR WALL MOUNTED HORIZONTAL AND VERTICAL PIPE RUNS AT 5'-O" INTERVALS.
- 5. PROVIDE AND INSTALL GRINNELL FIG. 191 OR EQUAL PIPE STANCHIOINS WITH U-BOLT FOR FLOOR PIPE RUNS AT INLET AND OUTLET OF DUPLEX BASKET STRAINER AND FLOW METER.
- 6. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PIPING AND EQUIPMENT WITH THE INSTALLATION OF ELECTRICAL EQUIPMENT AS SHOWN ON SHEET E-1.

LEGEND

PRESSURE GAUGE

- FLOW METER WITH TOTALIZER
- -C- BALL VALVE

APPENDIX F

OPERATION & MAINTENANCE SAMPLE RESULTS

Groundwater Treatment System - Effluent Sample Results

Sample No.	Sample Date	Analyzed For
001	08/26/98	Chromium, Lead, Nickel, Cadmium & Zinc
002	08/26/98	Cyanide
003	08/26/98	Cyanide
004	08/26/98	pH
005	08/26/98	Total VOCs
006	08/26/98	Total VOCs
007	09/11/98	Chromium, Lead, Nickel, Cadmium, Zinc & pH
008	09/11/98	Cyanide
009	09/11/98	Cyanide
010	09/11/98	Total VOCs
011	09/11/98	Total VOCs
012	09/21/98	pH
013	09/21/98	Chromium, Lead, Nickel, Cadmium, Copper & Zinc
014	09/21/98	Cyanide
015	09/21/98	Cyanide
016	09/21/98	Total VOCs
017	10/07/98	pН
018	10/07/98	Chromium, Lead, Nickel, Cadmium, Copper & Zinc
019	10/07/98	Cyanide
020	10/07/98	Total VOCs
021	10/20/98	pН
022	10/20/98	Chromium, Lead, Nickel, Cadmium, Copper & Zinc
023	10/20/98	Cyanide
024	10/20/98	Total VOCs
025	11/05/98	Total VOCs
026 A	11/05/98	Cyanide, Chromium, Lead, Nickel, Cadmium, Zinc & pH
026 B	11/20/98	Total VOCs
027 A	11/20/98	Cyanide, Chromium, Lead, Nickel, Cadmium, Zinc & pH
027 B	12/02/98	pH
028	12/02/98	Cyanide
029	12/02/98	Chromium, Lead, Nickel, Cadmium, Copper & Zinc
030	12/02/98	Total VOCs

-

✐

SEP-01-1998 15:29 7165544114

LOZIER LABORATORIES, INC.

909 CULVER ROAD ROCHESTER, NEW YORK 14809 TEL (716) 864-8360 FAX (716) 864-8364

NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

Clicate EXPRESSIAN INC. 561 L Water St Middlesex, NY 14507

Date Mercived: 0/28/98 Laboratory No.: 22326 Report Dale: 9/1/98

Alfa: Barbard Callin

Client Project: O.S.C

SAMPLE DIFORMATION

Sample Date: 8/26/98 Sumples: Clini

Matrix Water

					·
Sab 20; Climit 10; Securitary	22325-1 Elfinant From OWTE OF1	22334-3 Elliant Prop GM75 (112			
	601	002	11-0-	Mathag Manad	Arrespeix.
Chromium	<0.003		mg/l	EPA 200.7	9/1
Lead	<0.003		mg/l	EPA 200.7	9/1
Nickel	0.032		mg/i	EPA 200.7	9/1/
Zine	0043		mg//	59A 200 7	7 /1/ 7 /1/
Cyanide		≪0.05	mg/l	SM 4500	8/31/
			_~~~		
Lab 10: Client 10: Lousties;	22328-3 EMount From GW15 003	22335-4 Efficient Fram DWTS 804			
ARABETER	<u>(003)</u>	004	Unter	Matter Margar	Analysia Dele
Cyanide	<0.05	7.4	mg/l	SM 4500	6/31/
		· •	2.0.		0/ 20 /
		·····			

LABORATORY REPORT

PAGE: 1

James A. Cours

Assessed By_

PYROCH LAB ID # 16259

TOTAL P.02

EXPRESS	AB PO BOX	c 40 5611 Water Street	Middlesex NY 14507
<i>1et: (/10) 554-534/ 1et: (8)</i>		<i>Tel: (800) 843-5227</i>	FAX: (716) 554-4114
		SPECIALIZING IN ENVIR NEW YORK STATE LABOR	ONMENTAL SOIL TESTS AATORY #11369
LABORATOR	Y REPOI	RT - METH	OD 8260
Cust OSC Address 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 856-3333 FAX 842-1630		PO Number: Project Numbe 9705 Project Cust: O.S.C. Project Site: PRIMO Date FAXED: Lab Director	DEC 9 3. Disheld, utica
SAMPLE DEM	DGRAPHIC	S AND TEST RE	ESULTS
Results in bold type; Detection Limits in Detection Limits* = Soil=ug *See Individual Limit Water=	small print /kg ppb ug/L ppb	Results shown are: Volatile Extraction Method: EPA 50 Analysis Method: EPA 82	Organic Analytes 30 Purge & Trap 60 GC/MS
Sample ID (LAB) Sample ID#1(CUST) Sample ID#2(CUST)	20214 EFFLUENT FROM	GWTS	
Matrix Sampled By	WATER PATRICK FOOTE		
Date Sampled Date Received Date Analyzed	08/20/98 13:13 08/28/98 09:00 08/31/98		
Date Reported	Results Det Limit*		Results Det Limit*
Dichlorodifluoromethane Vinyl Chloride	< DL(U) 2.0 < DL(U) 2.0	Carbon Tetrachloride 1,2-Dichloroethane	< DL(U) 2.0 < DL(U) 2.0
Chloromethane Bromomethane Chloroethane	< DL(U) 8.0 < DL(U) 6.0 < DL(U) 5.0	1 richloroethene 1,2-Dichloropropane Dibromomethane	< DL(U) 8.0 < DL(U) 2.0 < DL(U) 2.0
Trichlorofluoromethane 1,1-Dichloroethene	< DL(U) 2.0 < DL(U) 2.0	Bromoform Bromodichloromethane	< DL(U) 10.0 < DL(U) 8.0
Methylene Chloride trans-1,2-Dichloroethene Methyl-tert-butyl ether	< DL(U) 18.0 < DL(U) 2.0 < DL(ID 8.0	1,1,2,2-Tetrachloroethane Benzene cis-1,3-Dichloropropene	< DL(U) 10.0 < DL(U) 4.0 < DL(U) 2.0
1,1-Dichloroethane 2,2-Dichloropropane	<pre></pre>	Toluene trans-1,3-Dichloropropene	< DL(U) 5.0 < DL(U) 2.0
cis-1,2-Dichloroethene Methyl ethyl ketone Bromochloromethane	< DL(U) 2.0 < DL(U) 40.0 < DL(U) 2.0	1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane	< DL(U) 8.0 < DL(U) 2.0 < DL(U) 2.0
Chloroform 1,1,1-Trichloroethane	< DL(U) 2.0 < DL(U) 2.0 < DL(U) 2.0	Dibromochloromethane 1,2-Dibromoethane Ethylbenzene	< DL(U) 8.0 < DL(U) 8.0 < DL(U) 8.0
* DL = Detection Limit	- 52(0) 2.0	2. ayıbenzene	Page 1

RESULTS WHEN YOU WANT THEM

	LAB POI	Box 40 5611 Water Street Middlesex NY 1450
	1: (800) THE LABS	Tel: (800) 843-5227 FAX: (710) 554-4114
		SPECIALIZING IN ENVIRONMENTAL SOIL TEST NEW YORK STATE LABORATORY #11369
LABORATO	RY REPO	ORT - METHOD 8260
Cust OSC		PO Number:
Address 333 CANSON ST		Project Number 9705
RUFFALO NV 14202		Project Cust: OSC
BUFFALO, NY 14203 Attn: RICH CYGAN		Project Cust. 0.S.C.
		Project Site: PRIMOSHELD, UTICA
		Date FAXED:
Phone 856-3333		Lab Director $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$
FAX 842-1630		
SAMPLE DE	MOGRAPHI	CS AND TEST RESULTS
Results in bold type; Detection Lim	its in small print	Results shown are: Volatile Organic Analytes
Detection Limits* = Soi	il≕ug⁄kg ppb	Extraction Method: EPA 5030 Purge & Trap
*See Individual Limit Wa	ater=ug/L ppb	Analysis Method: EPA 8260 GC/MS
Semple ID (LAP)		
Sample ID (LAB)	20214	OM CWTS
Sample ID#1(CUST)	EFFLUENTER	
Sample ID#2(CUST)	J	
Matrix	WATER	
Sampled By	PATRICK FOO	
Date Sampled	08/20/98 15:1	5
Date Received	08/28/98 09:0	
Date Analyzed	08/31/98	
Date Reported	09/01/98	
	Results Det Lin	ait* Results Det Limit*
map-Aylene		4.011,4-Dichlorobenzene 9.0 2.0
o-Aylene		2.0 n-Dutyloenzene 0.8 2.0
Styrene		2.0 1.2.4 Tricklorobergene SDL(U) 10.0
n Bropylbenzene		2.0 1,2,4-1 remorated 12.0 4.0
1 3 5-Trimethylbonzono	2.1 < DI (II)	2.0 Nanhthalene 15.5 10.0
tert-Butylberzene		2.01.2.3-Trichlorobenzene 13.3 10.0
1.2.J.Trimethulbenzane	2.6	
		20
sec-Butylbenzene		2.0
sec-Butylbenzene	$\leq DL(U)$	
sec-Butylbenzene Chlorobenzene	< DL(U)	6.0
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene	< DL(U) < DL(U)	<u>6.0</u> 2.0
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1.2.3-Trichloropropane	< DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 L= estimated value
sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 4-Isopropyltoluene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U) 6.9	6.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 B=analyte found in blank

* DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2

I

	EXPRESSLA	B PO Box	c 40 5611 Water Street	Middlesex NY 14507
	Tel: (716) 554-5347 Tel: (80	0) THE LABS	Tel: (800) 843-5227	FAX: (716) 554-4114
			SPECIALIZING IN ENVIRO NEW YORK STATE LABOR	ONMENTAL SOIL TESTS ATORY #11369
	LABORATOR	Y REPOI	RT - METH	OD 8260
	Cust OSC Address 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 856-3333 FAX 842-1630		PO Number: Project Numbe 9705 Project Cust: O.S.C. Project Site: PRIMO Date FAXED: Lab Director	SHELD, UTICA
	SAMPLE DEMO	GRAPHIC	S AND TEST RE	CSULTS
	Results in bold type; Detection Limits in s Detection Limits* = Soil=ug/s *See Individual Limit Water=u	small print <g ppb<="" th=""><th>Results shown are: Volatile Extraction Method: EPA 503 Analysis Method: EPA 826</th><th>Organic Analytes 30 Purge & Trap 50 GC/MS</th></g>	Results shown are: Volatile Extraction Method: EPA 503 Analysis Method: EPA 826	Organic Analytes 30 Purge & Trap 50 GC/MS
	Sample ID (LAB) Sample ID#1(CUST) Sample ID#1(CUST)	20215 EFFLUENT FROM		
	Matrix Sampled By	WATER PATRICK FOOTE		
	Date Sampled Date Received Date Analyzed	08/28/98 09:00 08/31/98	-	
	Date Reported	Results Det Limit*	Carbon Tetrachloride	Results Det Limit*
	Vinyl Chloride Chloromethane	<pre>CODE(C) 2.0 CODE(U) 2.0 CODE(U) 2.0 CODE(U) 8.0</pre>	1,2-Dichloroethane Trichloroethene	<pre>< DL(U) 2.0</pre> < DL(U) 8.0
	Bromomethane Chloroethane	< DL(U) 6.0 < DL(U) 5.0	1,2-Dichloropropane Dibromomethane	< DL(U) 2.0 < DL(U) 2.0
	Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride	< DL(U) 2.0 < DL(U) 2.0 < DL(U) 18.0	Bromotorm Bromodichloromethane 1,1,2,2-Tetrachloroethane	 < DL(U) 10.0 < DL(U) 8.0 < DL(U) 10.0
	trans-1,2-Dichloroethene Methyl-tert-butyl ether	< DL(U) 2.0 < DL(U) 8.0	Benzene cis-1,3-Dichloropropene Tolwane	< DL(U) 4.0 < DL(U) 2.0 < DL(U) 5.0
	2,2-Dichloropropane cis-1,2-Dichloroethene	< DL(U) 2.0 < DL(U) 8.0 < DL(U) 2.0	trans-1,3-Dichloropropene 1,1,2-Trichloroethane	< DL(U) 2.0 < DL(U) 8.0
	Methyl ethyl ketone Bromochloromethane Chloroform	< DL(U) 40.0 < DL(U) 2.0 < DL(U) 2.0	Tetrachloroethene 1,3-Dichloropropane Dibromochloromethane	< DL(U)
	1,1,1-Trichloroethane 1,1-Dichloropropene	< DL(U) 2.0 < DL(U) 2.0	1,2-Dibromoethane Ethylbenzene	< DL(U) 8.0 < DL(U) 2.0
	 DL = Detection Limit 			Page 1

RESULTS WHEN YOU WANT THEM

Page 1

	4В ро во	x 40 5611 Water Street N	Iiddlesex NY 145	507
Tel: (716) 554-5347 Tel: (4	800) THE LABS	Tel: (800) 843-5227	FAX: (716) 554-411	4
		SPECIALIZING IN ENVIRO	NMENTAL SOIL TES TORY #11369	TS
LABORATOR	AY REPO	RT - METH	OD 8260	
Cust OSC		PO Number:		
Address 333 GANSON ST.		Project Numbe 9705		
BUFFALO, NY 14203		Project Cust: O.S.C.		
Attn: BICH CVGAN		Project Site: PRIMC	SHELD, UTICA	
Aun. Meneroat		Date FA XED:		
Dhana 956 2222		Lab Director	1	
Phone 850-3333		Lab Director	h/	
FAX 842-1030				
SAMPLE DEM	OGRAPHIC	S AND TEST RE	SULTS	
Results in bold type; Detection Limits in	n small print	Results shown are: Volatile (Organic Analytes	
Detection Limits* = Soil=u	g/kg ppb	Extraction Method: EPA 503	0 Purge & Trap	
*See Individual Limit Water=	=ug/L ppb	Analysis Method: EPA 826	O GC/MS	
Sample (D. (LAB)	20215	7		
Sample ID#1(CUST)	EFFLUENT FROM	GWTS		
Sample ID#2(CUST)	6	7		
Matrix	WATER			
Sampled By	PATRICK FOOTE			
Date Sampled	08/26/98 15:15	-		
•				
Date Received	08/28/98 09:00	_		
Date Received Date Analyzed	08/28/98 09:00 08/31/98	-		
Date Received Date Analyzed Date Reported	08/28/98 09:00 08/31/98 09/01/98			
Date Received Date Analyzed Date Reported	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit*		Results Det Limit*	
Date Received Date Analyzed Date Reported m&p-Xylene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene	Results Det Limit*	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene n-Butylbenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 0 1,2-Dibromo-3-chloropropane	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene 0 Hexachlorobutadiene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene 0 Naphthalene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene 	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 0 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene 0 Hexachlorobutadiene 0 Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene 0 Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene 0 Hexachlorobutadiene 0 Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	5 DL(U)= analyzed but not	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene 	Results Det Limit* < DL(U)	
Date Received Date Analyzed Date Reported m&p-Xylene o-Xylene Styrene Isopropylbenzene n-Propylbenzene 1,3,5-Trimethylbenzene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene	08/28/98 09:00 08/31/98 09/01/98 Results Det Limit* < DL(U)	0 1,2-Dichlorobenzene 0 n-Butylbenzene 0 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene 0 Hexachlorobutadiene 0 Naphthalene 1,2,3-Trichlorobenzene 0 < DL(U)= analyzed but not	Results Det Limit* < DL(U)	

* DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2


PACE 1

Permitter

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NYSDON LAB ID # 1898

SEP-17-1998 14:26	7165544114	4			P.02/06	
EXPRESSLA	1 <i>B</i>	PO Bo	x 40 5611 Water Street	Middlesex	: NY 14507	
Tel: (716) 554-5347 Tel: (80	00) THE LAB	S	Tel: (800) 843-5227	FAX: (716) 554-4114	
			SPECIALIZING IN ENVI NEW YORK STATE LAB	RONMENTA	L SOIL TESTS 1369	
LABORATORY REPORT - METHOD 8260						
Cust OSC			PO Number			
Address 222 CANSON ST			Designet Marsher 0505			
Address 333 GANSON ST.	,		Project Number 9705		tuis .	
BUFFALO, NY 14203			Project Cust: OSC		14EC _ Q	
Attn: RICH CYGAN		4 '	Project Site: PRIN	IOSHIELD	4 🔍 (Kr. 1)	
			Date FAXED:	,]		
Phone 856-3333			Lab Director	.4/		
FAX 842-1630	·					
				TOTT	20	
SAMPLE DEMO	GKAP		SAND IESI K	LOUL I		
Results in bold type ; Detection Limits in s	mall print		Results shown are: Volat	ile Organic A	nalytes	
Detection Limits* = Soil=ug/	kg ppb		Extraction Method: EPA	5030 Purge &	Trap	
*See Individual Limit Water=u	g/L ppb		Analysis Method: EPA 8	260 GC/MS		
Sample ID (LAB)	2064	7		2 · · · ·	n i .	
Sample 1D#1(CUST)	EFFLUEN	FROM	GWTS			
Sample ID#2(CUST)	10		1			
Matrix	WATER		· · · ·			
Sampled By	PATRICK	FOOTE	· ·			
Date Sampled	09/11/98	14:20				
Date Received	09/15/98	09:50				
Date Analyzed	09/15/98	_				
Date Reported	09/15/98					
	Results D	et Limit*		Results	Det Limit*	
Dichlorodifluoromethane	< DL(U)	2.0	Carbon Tetrachloride	< DL(U)	2.0	
Vinyl Chloride	< DL(U)	2.0	1,2-Dichlorocthane	< DL(U)	2.0	
Chloromethane	< DL(U)	2,0	Trichloroethene	< DL(U)	2.0	
Bromomethane	< DL(U)	2.0	1,2-Dichloropropane	< DL(U)	2.0	
Chloroethane Tricklose Augusta attace	< DL(U)	5.0	Dibromomethane	< DL(U)	2.0	
1 TICRIOFOILUOTOMETHANE		2.0	Bromolorm	< DL(U)	2.0	
Anthylene Chloride		2.0	promodicaloromethane	< DL(U)	2.0	
trens_1 2-Dickloroethene		25.0	1,1,4,4-1 ELFACENOTOCTABLE		2.0	
Methyl-tert-butyl ather		2.0			4.0	
1.1-Dichloroethane		2.0	Taluene		£.0	
2.2-Dichloropropane	< DL(0)	2.0	trans-1.3-Dichloropropene		3.0	
cis-1,2-Dichloroethene	< DL(U)	2.0	1,1,2-Trichloroethane	< DL(U)	2.0	
Methyl ethyl ketone	31.1	20.0	Tetrachloroethene		2.0	
Bromochloromethane	< DL(U)	2.0	1,3-Dichloropropane	< DL(U)	2.0	
Chloroform	< DL(U)	2.0	Dibromochloromethane	< DL(U)	2.0	
1,1,1-Trichloroethane	< DL(U)	2.0	1,2-Dibromoethane	< DL(U)	2.0	
1,1-Dichloropropene	< DL(U)	2.0	Ethylbenzene	< DL(U)	2.0	
* DL = Detection Limit	_		1		Page 1	

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RESULTS WHEN YOU WANT THEM

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SEP-17-1998 14:27	71655441	14			P.03/0
EXPRESSL	AB	PO Bo	x 40 5611 Water Street	Middlesex	NY 14507
Tel: (716) 554-5347 Tel: (800) THE LA	BS 🔔 🔔	Tel: (800) 843-5227	FAX: (7	16) 334-4114
			SPECIALIZING IN ENVIR	ONMENTAL	SOIL TESTS
			NEW YORK STATE LABOR	ATORY #11	369
LABORATOR	<u>RY RE</u>		RT - METH	OD 8	<u>3260</u>
Cust OSC]	PO Number:		
Address 333 GANSON ST.			Project Number 970	5	
BUFFALO, NY 14203			Project Cust: OSC	ì	
Attn: RICH CYGAN		-	Project Site: PRIM	OSHIELI)
			Date FAXED:	1	
Phone 856-3333			Lab Director	\sim	
FAX 842-1630					
SAMPLE DEM	OGRA	PHIC	S AND TEST RI	ESULT	`S
Results in bold type ; Detection Limits in	small print		Results shown are: Volatile	Organic A	unlytes
Detection Limits* = Soil=u	g/kg ppb	:	Extraction Method: EPA 50	30 Purge &	Trap
*See Individual Limit Water=	ug/L ppb	• ·	Analysis Method: EPA 82	60 GC/MS	
Sample ID (LAB)		547			N
Sample ID#1(CUST)	EFFLUE	NT FROM	GWIS		
Sample ID#2(CUST)	10		1 .		
Matrix	WATER	<u> </u>	· .		
Sampled By	PATRICI	FOOTE	3. * *		
Date Sampled	09/11/98	14:20	: .		
Date Received	09/15/98	09:50	· ·		
Date Analyzed	09/15/98		• • • • • • •		
Date Reported	09/15/98	· ·			
	Results	Det Limit*	i i ta cara da	Results	Det Limit*
m&p-Xylene	< DL(U)	4.0	1,2-Dichlorobenzese	< DL(U)	2.0
o-Xylene	< DL(U)	2.0	a-Batylbenzene	< DL(U)	2.0
Styrene	< DL(U)	2.0	1,2-Dibromo-3-chloropropan	e < DL(U)	5.0
Isopropylbenzene	< DL(U)	2.0	1,2,4-Trichlorobenzene	< DL(U)	4.0
n-Propylbenzene	< DL(U)	.: 2,0	Mexachlorobutadiene	< DL(U)	2.0
I DA- I FIMERAYIDENZENE		2.0	12 3. Tricklowberger		10.0
1.2.4-Trimethylbenzene	21	20	TICHUIODENZCRC - تومود	- 540)	10.0
sec-Butylbenzene	< D L(U)	2.0			
Chlorobenzene	< DL(U)	2.0			
1,1,1,2-Tetrachioroethaus	<dl(u)< td=""><td>2.0</td><td></td><td></td><td></td></dl(u)<>	2.0			
Bromobenzene	< DL(U)	2.0	•••		
1,2,3-Trichloropropane	< DL(U)	20	• · · · ·		
2-Chlorotoluene	< DL(U)	2.0	till te i ser e		
4 Chiaratainene	< DL(U)	2.0	< DL(U)= analyzed but no	x detected	
	< DI ([1)	2.0	L= estimated value		
1,3-Dichlorobenzene					
4-Isopropyltoluene	< DL(U)	2.0	B-qualyte found in blank		
1,3-Dichlorobenzene 4-Isopropyltoluene 1,4-Dichlorobenzene	< DL(U) < DL(U) < DL(U)	2.0 2.0	B-enalyte found in blank E=exceed colibration rang	£	
1,3-Dichlorobenzene 4-Isopropyltoluene 1,4-Dichlorobenzene	< DL(U) < DL(U) < DL(U)	2.0	B-qnalyte found in blank E=exceed calibration rang	e	

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JCI 11-1550 14-28	7165544114		P.04/06		
EXPRESSL A	1 B po	Bax 40 5611 Water Street	Middlesex NY 14507		
Tel: (716) 554-5347 Tel: (80	O) THE LABS	Tel: (800) 843-5227	FAX: (716) 554-4114		
		SPECIALIZING IN ENVI	PONAFNTAL SOUL TESTS		
		NEW YORK STATE LABO	DRATORY #11369		
LABORATORY REPORT - METHOD 8260					
Cust OSC		PO Number:			
Address 333 CANSON ST		Project Number 9705			
RUFFALO NV 14703		Project Cust: OSC			
Atta: DICH CVCAN		Designet Site: DBIM	IOSHIET D		
Alui. KICH CIGAN		Dete EAVED	OSHIELD		
		Date FAXED:			
Phone 856-3333		Lab Director	Vu		
rax 842-1630	· ·	·			
SAMPLE DEMO	GRAPH	ICS AND TEST R	ESULTS		
Results in bold type ; Detection Limits in s	mall print	Results shown are: Volati	le Organic Analytes		
Detection Limits* = Soil=ug/	kg ppb	Extraction Method: EPA 5	i030 Purge & Trap		
*See Individual Limit Water-u	g/L ppb	Analysis Method: EPA 8	260 GC/MS		
Sample ID (LAB)	20648				
Sample 1D#1(CUST)	EFFLUENT F	ROM GWTS			
Sample ID#2(CUST)	11				
Matrix	WATER	·			
Sampled By	PATRICK FO	OTE			
Date Sampled	09/11/98 14	:22			
Date Received	09/15/98 09	:50			
Date Analyzed	09/15/98	1	•		
Date Reported	09/15/98				
	Results Det I	init*	Results Det Limit ^e		
Dichlorodifluoromethane	< DL(U)	2.0 Carbon Tetrachloride	< DL(U) 2.0		
Vinyl Chloride	< DL(U)	2.0 1,2-Dichloroethane	< DL(U) 2.0		
Chlaromethane	< DL(U)	2.0 Trichioroethene	< DL(U) 2.0		
Bromomethane	< DL(U)	2.0 1,2-Dichloropropane	< DL(U) 2.0		
Chloroethane	< DL(U)	5.0 Dibromomethane	< DL(U) 2.0		
Trichlorofluoromethane	< DL(U)	2.0 Bromoform	< DL(U) 2.0		
1,1-Dichlorocthene	< DL(U)	2.0 Bromodichloromethane	< DL(U) 2.0		
Menny Mene Chioride		25.0 1,1,2,2-1 ctrachioroethane			
urans-i,2~19cnioroccene MathyLtart hutul stha-		LU DENZENC			
1.1-Dichloroethane			< DL(0) 2.0		
2.2-Dichloropropent	< DL(I)	2.0 trans-1.3-Dichloronronene	< DL(U) 20		
cis-1.2-Dichloroethene	< DL (1)	2.0 1.1.2-Trichloroethane	< DL(U) 20		
Methyl cthyl ketone		20.0 Tetrachloroethene	< <u>DL(U)</u> 2.0		
Bromochloromethane	< DL(U)	2.0 1,3-Dichloropropane	< DL(U) 2.0		
Chlaroform	< DL(U)	2.0 Dibromochloromethane	< DL(U) 2.0		
1,1,1-Trichloroethane	< DL(U)	2.0 1,2-Dibromocthane	< DL(U) 2.0		
1,1-Dichloropropene	< DL(U)	2.0 Ethylbenzene	< DL(U) 2.0		
* DL = Detection Limit			Page 1		
			<u> </u>		

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		P. 65/86
EXPRESS	AB PO Box 40 5611 Water Street Middlesex NY 145	07
Tel: (716) 554-5347 Tel:	(800) THE LABS Tel: (809) 843-5227 FAX: (716) 554-411	4
	SPECIALIZING IN ENVIRONMENTAL SOIL TES NEW YORK STATE LABORATORY #11369	75
LABORATO	RY REPORT - METHOD 8260	
Cust OSC	PO Number:	
Address 333 GANSON ST.	Project Number 9705	
BUFFALO, NY 1420	Broject Cust: OSC	
Attn: RICH CYGAN	Project Site: PRIMOSHIELD	
	Date FAXED:	ł
Phone 856-3333	Lab Director	
FAX 847-1630		
SAMPLE DEM	OGRAPHICS AND TEST RESULTS	
Results in bold type ; Detection Limits	in small print Results shown are: Volatile Organic Analytes	7-7-
Detection Limits* Soil=	ug/kg ppb Extraction Method: EPA 5030 Purge & Trap	
*See Individual Limit Wate	-ug/L ppb Analysis Method: EPA 8260 GC/MS	
Sample ID (LAB)		
Sample ID#1(CUST)	EFFLUENT FROM GWTS	
Sample 1D#2(CUST)	11 .	
Matrix	WATER	
Sampled By	PATRICK FOOTE	
Date Sampled	09/11/98 14:22	
Date Received	09/15/98 09:50	
Date Analyzed	09/15/98	
Date Reported	09/15/98	
	Results Det Limit* Results Det Limit*	
m&p-Xyiene	< DL(U) 4.0 1,2-Dichlorobenzene < DL(U) 2.0	
o-Xylenc	< DL(U) 2.0 n-Butylbenzene < DL(U) 2.0	
Styrene	< DL(U) 2.0 1,2-Dibromo-3-chloropropane < DL(U) 5.0	
Isopropylbenzene		
n-rropylbenzenc	<pre>< DL(U) 2.0 Haxachlorobutadiene < DL(U) 2.0</pre>	
1,0,0-1 rimelayiDenzeae		
1.7 4 Trimethylhenzene		
sec-Butylbenzene		
Chlorobenzene	$\langle \mathbf{D} \mathbf{I} \langle \mathbf{U} \rangle = 20$	
1.1.1.2-Tetrachloroethane		
Bromobenzene		
1,2,3-Trichloropropane	< <u>DL(U)</u> 20	
2-Chlorotolucae	< DL(U) 2.0	
4-Chlorotolucae	< DL(U) 2.0 < DL(U)= analyzed but not detected	
1,3-Dichlorobenzene	< DL(U) 2.0 L= estimated value	
4-lsopropyitoluene	< DL(U) 2.0 B-analyte found in blunk	
1,4-Dicklorobenzene	< DL(U) 2.0 E=exceed calibration range	
		•

P.02/05

0EC 9

Date Received: 9/25/38 Laboratory No.: 22801

Report Date: 9/25/88

Matrix:

LOZIER LABORATORIES, INC.

909 CULVER ROAD ROCHESTER, NEW YORK 14809 TEL (718) 864-8350 FAX (718) 854-8354

NÊW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

Client EXPRESSUAS INC. 5611 Water St Middlesex, NY 14507

Atia: Barbara Catila

Client Project:

SAMPLE INFORMATION

Sample Date: \$21/56 Sampler: Client

	I	ABORATORY REPO)RT	-	
Lab HDr. Clives 1D; Zomdos: Paratet???b	22001-4 1795-72 (012)	2001-3 376-5 ()13	Links	Metud Natur	Ainiyata Data
pH Cadmium Chromium Zinc Nickel Leed Copper	7.29	<9.001 0,005 0,048 0.089 0.021 0.022	S.U. mgA mgA mgA mgA mgA mgA	EPA 150.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	9/28/90 9/28/90 8/28/90 8/28/90 9/28/90 9/28/90
ib: Oliout Dr Loweiter Cyanide	220013 5765-148.45 014 + 015 <0.005			Multed Mathed SM 4500	Antymi Data S/29/80
Page 1					

Child

Junit

HYEODH LAE 10 # 1000

SEP-30-1998 11:38	7165544114			P.02/05	
EXPRESS	AB	PO Ba	x 40 5611 Water Street	Middlesex NY 14507	
122 (776) 554-5547 128: (<u> </u>	181: (600) 843-3227	FAX: (/16) 334-4114	
SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369					
LABORATO	RY RE	EPO	RT - MET	HOD 624	
Cust OSC			PO Number:		
Address 222 CANSON ST			Droject Number 0705		
Address 355 GALISON 51	,		Project Number 9705	-1: 0 · · ·	
BUFFALO, NY 1420.	`		Project Cust: OSC		
Attn: RICH CYGAN			Project Site: PRIM	OSHIELD-UTICA	
			Date FAXED:		
Phone 856-3333			Lab Director	il l	
FAX 842-1630			1 000		
SAMPLE DEM	OGRAP	HIC	S AND TEST R	ESULTS	
Results in bold type ; Detection Limits in	small print		Results shown are: Volati	le Organic Analytes	
Detection Limits* - Soil-ug	y/kg ppb		Extraction Method: EPA 5	030 Parge & Trap	
*See Individual Limit Water=	ug/L ppb		Analysis Method: EPA 8	260 GC/MS	
Sample ID (LAR)	7.049	6	7		
	0705 16 8	0705.17	-		
Sample ID#7(CUST)	5705-10 a	3/03-1/	4		
Mateir	WATED	_	4 ·		
	PATRICK	BOOTE	-		
Sampued By	FATRICK	TOUTE	<u>і</u> · .		
Date Sampled	09/21/98	10:00	- · · · · · · · · · · · · · · · · · · ·		
Date Received	09/25/98	09:30	·		
Date Analyzed	09/28/98				
Date Reported	09/29/98				
	Results	Det Limit*		Results Det Limit*	
Dichlorodifluoromethane	< DL(U)	2.0	Carbon Tetrachloride	< DL(U) 2.0	
Vinyl Chloride	< DL(U)	2.0	1,2-Dichloroethane	< DL(U) 2.0	
Chloromethane	< DL(U)	2.0	Trichloroethene	< DL(U) 35.0	
Bromomethane	< DL(U)	2.0	1,2-Dichloropropane	< DL(U) 2.0	
Chloroethane	< DL(U)	5.0	Dibromomethane	< DL(U) 2.0	
Frichlorofluoromethane	< DL(U)	2.0	Bromoform	< DL(U) 2.0	
1,1-Dichloroethene	< DL(U)	2.0	Bromodichloromethane	< DL(U) 2.0	
Methylene Chloride	< DL(U)	40.0	1,1,2,2-Tetrachioroethane	< DL(U) 2.0	
trans-1,2-Dichloroethene	< DL(U)	2.0	Benzene	< DL(U) 4.0	
Mcthyhtert-Datyi ether	< DL(U)	8.0	cis-1,3-Dichloropropene	< DL(U) 2.0	
1,1-Dichloroethane	< DL(U)	2.0	l'oluène	5.9 5.0	
2,2-Dichloropropane	< DL(U)	2.0	trans-1,3-Dichloropropene	< DL(U) 2.0	
cu-1,2-Dichloroethene	< DL(U)	50.0	1,1,2-Trichloroethane	< DL(U) 2.0	
Methyl ethyl ketone	< DL(U)	20.0	Tetrachloroethene	< DL(U) 35.0	
Bromochloromethane	< DL(U)	2.0	I,3-Dichloropropane	< DL(U) 2.0	
Chioroform	< DL(U)	2.0	Dibromochloromethane	< DL(U) 2.0	
I,I,I-Trichloroethane	< DL(U)	20.0	1,2-Dibromoethane	< DL(U) 2.0	
I,I-Dichloropropene	< DL(U)	2.0	Ethylbenzene	< DL(U) 2.0	
DL = Detection Limit				Page 1	
	RESU	LTS WH	EN YOU WANT THEM		

SEP-30-1998 11:38	7165544114		P.03/05
EXPRESSIA THE CHAINESS AND THE COMPANY	AB PO Bas	x 40 5611 Water Street M	fiddlesex NY 14507
18: (710) 334-3347 12:: (0	OUT THE LABS	165 (600) 643-3227	FAX: (/10) 334-4114
		SPECIALIZING IN ENVIRON	NMENTAL SOIL TESTS TORY #11369
LABORATOR	RY REPO	RT - METH	OD 624
Cust OSC Address 333 GANSON ST BUFFALO, NY 14203 Attn: RICH CYGAN		PO Number: Project Number 9705 Project Cust: OSC Project Site: PRIMO	SHIELD-UTICA
Phone 856-3333 FAX 842-1630		Lab Director	W
SAMPLE DEMO)GRAPHIC	S AND TEST RE	SULTS
Results in bold type; Detection Limits in Detection Limits [•] = Soil-ug •See Individual Limit Water-	small print /kg ppb 	Results shown are: Volatile (Extraction Method: EPA 503) Analysis Method: EPA 8260	Drganic Aualytes D Purge & Trap D GC/MS
Sample ID (LAB) Sample ID#1(CUST) Sample ID#2(CUST)	20976 9705-16 & 9705-17		
Matrix Sampled By	WATER	4 4 .	
Date Sampled	09/21/98 10:00	4.	
Date Received	09/25/98 09:30		
Date Analyzed	09/28/98		
Date Reported	09/29/98	1 :.	
	Results Det Limit*		Results Det Limit*
m&p-Xylene	< DL(U) 4.0	I,2-Dichlorobenzone	< DL(U) 2.0
o-Xylene	<dl(u) 2.0<="" th=""><th>n-Butylbenzene</th><th>< DL(U) 2.0</th></dl(u)>	n-Butylbenzene	< DL(U) 2.0
Styrene	< DL(U) 2.0	1,2-Dibromo-3-chloropropane	< DL(U) 5.0
Isopropylbenzene	< DL(U) 2.0	1,2,4-Trichlorobenzene	< DL(U) 4.0
n-Propylbenzene	< DL(U) 2.0	Hexachlorobutadiene	< DL(U) 2.0
1,3,5-Trimethylbenzene	< DL(U) 2.0	Naphthalene	< DL(U) 10.0
tert-Butylbenzene	< DL(U) 2.0	1,2,3-Trichlorobenzene	< DL(U) 10.0
- Chlorobenzene		· · ·	
1.1.1.2-Tetrachloroethane	< <u>DL(U)</u> 20		
Bromobenzene	< DL(U) 2.0		
1,2,3-Trichloropropane	< DL(U) 2.0	· · ·	
2-Chlorotoluene	< DL(U) 2.0	·. ·	
4-Chlorotoluene	< DL(U) 2.0	< DL(U)= analyzed but no	t detected
1,3-Dichlorobenzene	< DL(U) 2.0	L= estimated value	
4-Isopropyltoluene	< DL(U) 2.0	B=analyte found in blank	
1,4-Dichlorobenzene	< DL(U) 2.0	E=exceed calibration range	
* DL = Detection Limit			Page 2

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LOZIER LABORATORIES, INC. 909 CULVER ROAD ROCHESTER, NEW YORK 14609 TEL (716) 654-6350

NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

Client: EXPRESSLAB INC. 5611 Water St Middlesex, NY 14507

FAX (716) 654-6354

Atta: Barbara Catlin

Client Project:

SAMPLE INFORMATION

Sample Date: 10/9/98 Sampler: Client Matrix:

23047

Date Received: 10/9/98

Report Date: 10/20/98

Laboratory No.:

Leb ID: Client ID:	230471 9705-17	230472 9705-18			
Location:	01	618	Units	Method	Analysis Date
Cyanide			mg/l	SM 4500	
pH	7.2	-0.001	S.U.	EPA 150.1	10/9/9
CADMIUM		₹0.001	mg/i	EPA 200.7	10/13/
TINC		0.003	mg/i	EPA 200.7	10/13/2
NICKE		0.114	ma/l	EPA 200.7	10/13/9
LEAD		<0.003	ma/l	EPA 200.7	10/13/9
COPPER		0.024	mg/l	EPA 200.7	10/13/9
Leb ID: Client ID: Location:	23047-3 9705-19		والمراو	Method Nember	Analysis Data
Cyanide	<0.010		mg/l	SM 4500	10/14/9

PAGE: 1

Footnotes:

Janea A. Crestor oproved By:__

EXPRESSLA	B PO Box 40 5611 Water Street Middlesex NY 1450	07
Tel: (716) 554-5347 Tel: (8	10) THE LABS Tel: (800) 843-5227 FAX: (716) 554-411	4
	SPECIALIZING IN ENVIRONMENTAL SOIL TEST NEW YORK STATE LABORATORY #11369	TS
LABORATOF	Y REPORT - METHOD 624	
Cust O.S.C. Address 333 GANSON ST. BUFFALO, NY 14203 Attn: RICH CYGAN Phone 856-3333 FAX 842-1630	PO Number: Project Number 9705 Project Cust: NYSDEC Project Site: PRIMOSHIELD, UTICA Date FAXED: Lab Director WWW	>
SAMPLE DEMO	GRAPHICS AND TEST RESULTS	
Results in bold type; Detection Limits in Detection Limits* = Soil=ug *See Individual Limit Water=u	mall printResults shown are:Volatile Organic AnalyteskgppbExtraction Method:EPA 5030 Purge & Trapg/LppbAnalysis Method:EPA 8260 GC/MS	
Sample ID (LAB) Sample ID#1(CUST) Sample ID#2(CUST)	21305 9705 - 20	
Matrix Sampled By Date Sampled	WATER PATRICK FOOTE 10/07/98 09:45	
Date Received Date Analyzed Date Reported	10/09/98 09:15 10/12/98 10/13/98	
m&p-Xylene	Results Det Limit* Results Det Limit* < DL(U)	
Styrene Isopropylbenzene	< DL(U) 4.0 1.2-Dibromo-3-chloropropane < DL(U) 10.0 < DL(U)	
n-Propylbenzene 1.3,5-Trimethylbenzene tert-Butylbenzene		
1,2,4-Trimethylbenzene sec-Butylbenzene Chlorobenzene		
1,1,1,2-Tetrachloroethane Bromobenzene	< DL(U) 40 < DL(U) 40	
1,2,3- 1 richioropropane 2-Chlorotoluene 4-Chlorotoluene		
1,3-Dichlorobenzene / 4-Isopropyltoluene 1,4-Dichlorobenzene	< DL(U)	

* DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2



Lozier Analytical Group

Lozier Laboratories, Inc. #10390
 EXPRESSLAB, Inc. #11369
 Environmental Testing Facilities, Inc. #10312

888 - 841 - 5227 800 - 843 - 5227 800 - 843 - 5220

Client: EXPRESSLAB INC. 5611 Water St Middlesex, NY 14507
 Date Received:
 10/26/98

 Laboratory No.:
 23285

 Report Date:
 10/29/98

Attn: Barbara Catlin

Client Project:

SAMPLE INFORMATION

Sample Date: 10/20/98 Sampler: Cilent

Matrix:

Lab ID: Client ID: Location: PARAMETER	23285-1 9705-21	23285-2 9705-22	Units	Method Number	Analysis Date
Ph	7.34		S.U.	EPA 150.1	10/27/9
Cadmium		<0.001	mg/l	EPA 200.7	10/27/9
Chromium		<0.003	mg/l	EPA 200.7	10/27/9
Lead		0.004	mg/l	EPA 200.7	10/27/9
Nickel		0.158	mg/l	EPA 200.7	10/27/98
Copper		0.012	mg/l	EPA 200.7	10/27/98
Zinc		0.028	mg/l	EPA 200.7	10/27/9
Leb ID: Client ID: Location: PARAMETER	232853 9705-23		Units	Method Number	Analysis Date
	- 0.01				

ACOTOVED BY James a. Cousin





NOV-12-1998 13:29 ?1	65544114			P.02/05		
EXPRESSLA	(<i>B</i>	PO Ba	c 40 5611 Water Street	Middlesex NY 14507		
<i>Tel: (710) 334-3347 Tel: (80</i>	W) THE LA	<i>b</i>	Tel: (800) 843-5227	FAX: (716) 354-4114		
			SPECIALIZING IN ENVIR NEW YORK STATE LABO	ONMENTAL SOIL TESTS RATORY #11369		
LABORATORY REPORT - METHOD 8260						
		T	PO Number: 0705			
		1	Project Marthe			
Address 333 GANSON S1.		· ·	Project Number:			
BUFFALO, NY 14203			Project Cust: NYS D	EC		
Attn: RICHARD CYGAN			Project Site: PRIMO	DENTELD 3		
		l	Date FAXED:			
Phone 856-3333			Lab Director			
FAX 842-1630			W V			
		<u> </u>				
SAMPLE DEMO)GRA]	PHIC	S AND TEST RI	ESULTS		
Results in bold type; Detection Limits in s	imall print		Results shown are: Volatik	e Organic Analytes		
Detection Limits* = Soil=ug/	kg ppb		Extraction Method: EPA 50	130 Purge & Trap		
*See Individual Limit Water-u	g/L ppb		Analysis Method: EPA 82	260 GC/MS		
Standa ID (LAB)	201	44	1			
Sample (D (LAB)	9705 - 25		4			
Sample ID#7(CUST)	7703 - 23		-			
Sample 10#2(COS1)	WATED		-			
	VEITT	11/20	4			
Sampled By	KEITH U	LIVER	-			
Date Sampled	11/05/98	01:15	4			
Date Received	11/10/98	09:20	· ·			
Date Analyzed	11/10/98					
Date Reported	11/11/98					
	Results	Det Limit*		Results Det Limit*		
Dichlorodifluoromethane	< DL(U)	2.0	Carbon Tetrachloride	< DL(U) 2.0		
Vinyl Chloride	< DL(U)	2.0	1,2-Dichloroethane	< DL(U) 2.0		
Chloromethane	< DL(U)	8.0	Trichloroetheac	< DL(U) 8.0		
Bromomethane	< DL(U)	6.0	1,2-Dichloropropane	< DL(U) 2.0		
Chlorocthane	< DL(U)	5.0	Dibromomethaue	< DL(U) 2.0		
Trichlorofluoromethane	< DL(U)	2.0	Bromoform	< DL(U) 10.0		
1,1-Dichloroethene	< DL(U)	2.0	Bromodichloromethane	< DL(U) 8.0		
Methylene Chloride	< DL(U)		1,1,2,2-Tetrachloroethane	< DL(U) 10.0		
trans-1,2-Dichloroethene	< DL(U)	2.0	Benzene	< DL(U) 4.0		
Methyl-tert-butyl ether	< DL(U)	8.0	cis-1,3-Dichloropropene	< DL(U) 2.0		
I,1-Dichloroethane	< DL(U)	2.0	Toluene	< DL(U) 5.0		
2,2-Dichloropropane	< DL(U)	8.0	trans-1,3-Dichloropropene	< DL(U) 2.0		
cis-1,2-Dichloroethene	< DL(U)	2.0	1,1,2-Trichloroethane	< DL(U) 8.0		
Methyi ethyi ketone	< DL(U)	40.0	Tetrachloroethene	< DL(U) 2.0		
Bromochloromethane	< DL(U)	2.0	1,3-Dichloropropane	< DL(U) 2.0		
Chloroform	< DL(U)	2.0	Dibromochloromethane	< DL(U) 8.0		
1,1,1-Trichloroethane	< DL(U)	2.0	1,2-Dibromoethane	< DL(U) 8.0		
1,1-Dichloropropene	< DL(U)	2.0	Ethylbenzene	< DL(U) 2.0		
 DL = Detection Limit 				Page 1		
	DEC	TTOWN	IN VALLANT THELE	8		

WANT THEM 70

NOV 12-1998 13:29	7165544114		P.03/05				
EXPRESSL	АВ рова	x 40 5611 Water Street Middle	sex NY 14507				
Tcl: (716) 554-5347 Tel: (800) THE LABS	Tel: (800) 843-5227 FAD	(; (716) 554-4114				
		SPECIALIZING IN ENVIRONMEN NEW YORK STATE LABORATOR	VTAL SOIL TESTS V #11369				
LABORATORY REPORT - METHOD 8260							
Curt OSC		PO Number: 0705					
Cust U.S.C.		PO Number. 9705					
Address 333 GANSON ST.		Project Number:					
BUFFALO, NY 14203		Project Cust: NYS DEC	1				
Attn: RICHARD CYGAN	• •	Project Site: PRIMOSHI	ELD				
		Date FAXED:					
Phone 856-3333		Lab Director					
FAX 842-1630							
SAMPLE DEM	OGRAPHIC	S AND TEST RESU					
Results in bold type; Detection Limits in	n small print	Results shown are: Volatile Orgaa	ic Analytes				
Detection Limits* = Soil=u	g/kg ppb	Extraction Method: EPA 5030 Purg	e & Trap				
*See Individual Limit Water=	-ug/L ppb	Analysis Method: EPA 8260 GC/	MS				
	29144						
	0705 25						
	9703 - 23						
Sample ID#2(CUSI)							
Matrix	WATER						
Sampled By	KEITH OLIVER	_					
Date Sampled	11/05/98 01:15	_					
Date Received	11/10/98 09:20						
Date Analyzed	11/10/98						
Date Reported	11/11/98						
	Results Det Limit	Res	ults Det Limit*				
m&p-Xylene	< DL(U) 4	0 1,2-Dichlorobenzene < DL	(U) 2.0				
o-Xylenc	< DL(U) 2.	0 n-Butylbenzene < DL	(U) 2.0				
Styrene	< DL(U) 2.	0 1,2-Dibromo-3-chloropropane CDL	(U) 10.0				
Isopropyibenzene	< DL(U) 2	1,2,4-Trichlorobenzene <a>	(U) 4.0				
n-Propyibenzone	< DL(U) 2.	Hexachlorobutadiene < DL	(U) 2.0				
1,3,5-Trimethylbenzene	< DL(U) 2.	Naphthalene < DL	(U) 10.0				
tert-Butylbenzene	< DL(U) · 2.	1,2,3-Trichlorobenzene < DL	(U) 10.0				
1,2,4-Trimethylbenzene	< DL(U) 2.	0					
sec-Butylbenzene	< DL(U) 2.	0					
Chlorobenzenc	< DL(U) 2.	0					
1,1,1,2-Tetrachloroethane	< DL(U) 6.	0					
Bromobenzene	< DL(U) 2.	0					
1,2,3-Trichloropropane	< DL(U) 2.	0					
2-Chloratoluene	<dl(u) 2.<="" th=""><th>5</th><th></th></dl(u)>	5					
4-Chlorotoluene	< DL(U) 2.	OL(U)= analyzed but not detected	d				
1,3-Dichlorobenzene	< DL(U) 2/	D L- estimated value					
4-Isopropyltoluene	< DL(U) 2.	B=analyte found in blank					
1,4-Dichlorobenzene	< DL(U) 2.	E=exceed calibration range					
		┙ ᠃ ・ ・ ・ ・ ・ ・ ・ ・ ・					
* DL = Detection Limit			Page 2				

LOZIER LABORATORIES, INC.

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909 CULVER ROAD ROCHESTER, NEW YORK 14609 TEL (716) 654-6350 FAX (716) 654-6354

NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

Client: EXPRESSLAB INC. 5611 Water St Middlesex, NY 14507

Atta: Barbara Callin

Client Project:

SAMPLE INFORMATION

Sample Date: 11/5/78 Sampler: Client

Matrix:

[18]

Date Received: 11/10/98

Report Date: 11/12/98

Laberatory No.:

LABORATORY REPORT

Lab ID: Climit ID: Lecetion: PARAMETER Cyanide Ph Codmium Lead Nickel Chromium Zinc	1181-1 22145 0.2.6 A 0.03 7.65 0.002 0.012 0.202 0.004 0.084	Mathod Units Number rng/I SM 4500 SU EPA 150.1 rng/I EPA 200.7 rng/I EPA 200.7 rng/I EPA 200.7 rng/I EPA 200.7 rng/I EPA 200.7	Anaysis Date 11/11/98 11/11/98 11/11/98 11/11/98 11/11/98 11/11/98
Lab ID: Climit ID: Location: PARAMETER			Analysis Date

PAGE: 1

James A. Couse

NYBOOK LAB ID # 10390



Tel: (716) 554-5347 T	el: (800) THE LABS	Tel: (800) 843-522	7 FAX: (710	5) 554-4114
		SPECIALIZING IN	ENVIRONMENTALS	SOIL TESTS
		NEW YORK STAT	ELABORATORY #1130	59
LABORAT	<u>ORY REI</u>	<u> 'ORT - M</u>	ETHOD 6	524
Cust O.S.C.		PO Number:	9705	
Address 333 GANSON ST.		Project Numbe	r: `	
BUFFALO, NY 14	203	Project Cust:	NYS DEC	
Attn: RICHARD CYGA	N	Project Site:	PRIMOSHIELD	
		Date FAXED:		
Phone 856-3333		Lab Director	1/	
AX 842-1630		2	NG	
SAMPLE DE	MOGRAPH	ICS AND TES	T RESULTS	<u>S</u>
lesults in bold type; Detection Lim	its in small print	Results shown are:	Volatile Organic Ana	lytes
Detection Limits* = So	il=ug/kg ppb ·	Extraction Method:	EPA 5030 Purge & T	rap
See Individual Limit W	ater=ug/L ppb	Analysis Method:	EPA 8260 GC/MS	
ample ID (LAB)	22562			
ample ID#I(CUST)	9705 - 26	(D26 B	$\mathbf{)}$	
ample ID#2(CUST)				
latrix	WATER			
ampled By	KEITH OLIV	ER		
ate Sampled	11/20/98 1	5:30		
ate Received	11/25/98 1):50		
ate Analyzed	11/30/98			
ate Reported	12/01/98		0	D-411-itt
	Results Det	Limit"		Det Limit*
ixp-Aylene		4.0 1,2-Dichlorobenzen	$\leq DL(0)$	2.0
tyrene		2.0 1.2-Dibromo-3-chlo	ropropage < DL(U)	10.0
sonronvibenzene		2.0 1.2.4-Trichlorobenz	ene $\langle DL(U) \rangle$	4.0
Propylbenzene	< DL(U)	2.0 Hexachlorobutadie	ne < DL(U)	2.0
3,5-Trimethylbenzene	< DL(U)	2.0 Naphthalene	< DL(U)	10.0
rt-Butylbenzene	< DL(U)	2.0 1.2,3-Trichlorobenz	ene < DL(U)	10.0
2,4-Trimethylbenzene	< DL(U)	2.0	L	·
c-Butylbenzene	< DL(U)	2.0		
hlorobenzene	< DL(U)	2.0		
1,1,2-Tetrachloroethane	< DL(U)	6.0		
romobenzene	< DL(U)	2.0		
2.3-Trichloropropane	< DL(U)	2.0		
Chlorotoluene	< DL(U)	2.0		
Chlorotoluene	< DL(U)	2.0 < DL(U)= ar	alyzed but not detected	
3-Dichlorobenzene	< DL(U)	2.0 L= estimated	, value	

* DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2



909 CULVER ROAD ROCHESTER, NEW YORK 14609 TEL (716) 654-6350 FAX (716) 654-6354 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

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Client: EXPRESSLAB INC. 5611 Water St Middlesex, NY 14507

Atta: Barbara Catlin

Client Project:

SAMPLE INFORMATION

LABORATORY REPORT

Sample Date: 11/25/98 Sampler: Client Matrix:

1411

Date Received: 11/25/98

Report Date: 12/1/98

Laboratory No.:

Lacation: 02.7 A Method Analysi PARAMETER Units Number Data Total Cyanide 0.03 mg/l SM 4500 11/3 pH 7.09 S.U. EPA 150.1 11/2 Chromium 0.006 mg/l EPA 200.7 11/3 Lead 0.014 mg/l EPA 200.7 11/3 Lead 0.014 mg/l EPA 200.7 11/3 Nickel 0.195 mg/l EPA 200.7 11/3 Zinc 0.072 mg/l EPA 200.7 11/3 Linc 0.072 mg/l EPA 200.7 11/3 Zinc 0.072 mg/l EPA 200.7 11/3 Linc Units Method Analysis	Location: 02.7 A Method Method Totod Cyanide 0.03 mg/l SM 4500 pl Totod Cyanide 0.03 mg/l SM 4500 pl Chromium 0.006 mg/l EPA 200.7 Cadmium <0.001 mg/l EPA 200.7 Cadmium <0.001 mg/l EPA 200.7 Lead 0.014 mg/l EPA 200.7 Nickel 0.195 mg/l EPA 200.7 Zinc 0.072 mg/l EPA 200.7 Lab ID: Citiant ID: Location: PARAMETER Units Method A	D: Client ID:	1411-1 22563			
PARAMETER Units Number Date Fold Cyanide 0.03 mg/l SM 4500 11/3 pH 7.09 S.U. EPA 150.1 11/2 Chromium 0.006 mg/l EPA 200.7 11/3 Cadmium <0.001 mg/l EPA 200.7 11/3 Lead 0.014 mg/l EPA 200.7 11/3 Nicket 0.195 mg/l EPA 200.7 11/3 Zinc 0.072 mg/l EPA 200.7 11/3 Lab ID: Client ID: Location: Method Analysis PARAMETER Units Number Date	PARAMETER Unit Number fold Cyonide 0.03 mg/l SM 4500 pH 7.09 S.U. EPA 150.1 Chromium 0.006 mg/l EPA 200.7 Cadmium <0.001 mg/l EPA 200.7 Lead 0.014 mg/l EPA 200.7 Nickel 0.195 mg/l EPA 200.7 Zinc 0.072 mg/l EPA 200.7 Zinc 0.072 mg/l EPA 200.7 Lab ID: Client 10: Location: Mehod	Lacation:	(027 A)		Method	Analysis
Initial Cydrifde 0.03 Inity SM 4300 11/3 pH 7.09 S.U. EPA 150.1 11/2 Chromium 0.006 mg/l EPA 200.7 11/3 Lead 0.014 mg/l EPA 200.7 11/3 Nickel 0.195 mg/l EPA 200.7 11/3 Zinc 0.072 mg/l EPA 200.7 11/3 Lab ID: 0.072 mg/l EPA 200.7 11/3 Lab ID: Client ID: Location: Method Anetysis PARAMETER Units Number Date	Initial State Discrete pH 7.09 S.U. EPA 150.1 Chromium 0.006 mg/l EPA 200.7 Cadmium <0.001 mg/l EPA 200.7 Lead 0.014 mg/l EPA 200.7 Nickel 0.195 mg/l EPA 200.7 Zinc 0.072 mg/l EPA 200.7	PARAMETER	0.03		Number	Dete
Dr 7.07 3.0. ErA 100.1 11/2 Chromium 0.006 mg/l EPA 200.7 11/3 Cadmium <0.001	Dr 7.07 3.00. EPA 100.1 Chromium 0.006 mg/l EPA 200.7 Cadmium <0.001		7.09	s u	5M 4500	11/30/
Cradmium <0.006	Lab ID: Client ID: Location: PARAMETER Light EPA 200.7 mg/l EPA 200.7 mg/l EPA 200.7 mg/l EPA 200.7 mg/l EPA 200.7 mg/l EPA 200.7 Method A	Chromium	0.004	3.0. ma//	EPA 130.1	11/23/
Lead 0.014 mg/l EPA 200.7 11/3 Nickel 0.195 mg/l EPA 200.7 11/3 Zinc 0.072 mg/l EPA 200.7 11/3 Lab ID: Client ID: Location: Method Analysis PARAMETER Units Number Date	Lead 0.014 mg/l EPA 200.7 Nickel 0.195 mg/l EPA 200.7 Zinc 0.072 mg/l EPA 200.7 Client ID: Client ID: Location: Method A	Cadmium	<0.000	mg/l	EPA 200.7	11/30/
Leb ID: Client ID: Client ID: Location: PARAMETER Leb ID: Location: Method Units Number Dister Units Number Dister Dister Dister Number Diste	Leb ID: Client ID: Client ID: Location: PARAMETER Units Number	Lead	0.001	mg/l	EPA 200.7	11/30/
Lab ID: Client ID: Location: PARAMETER Units Number Dete	Lab ID: Client ID: Location: PARAMETER Units Number	Nickel	0.195	mg/i	EPA 200.7	11/30/
Lab ID: Client ID: Location: PARAMETER Units Number Dete	Line 0.072 Ing/i CFA 2007	Zipc	0.072	mg/l	EPA 200 7	11/30
Location: Method Analysis PARAMETER Units Number Dete	Location: PARAMETER Munber	Lab ID: Client ID:				
PARAMETER Units Number Date	PARAMETER Units Number	Location:			Mathead	A
		PARAMETER		Units	Number	Date

PAGE: 1

James R. Court

Approved By:___



LOZIER LABORATORIES, INC.

909 CULVER ROAD ROCHESTER, NEW YORK 14609 TEL (716) 654-6350 FAX (716) 654-6354 NEW YORK STATE APPROVED ENVIRONMENTAL LABORATORY # 10390

Client: EXPRESSLAB INC. 5611 Water St Middlesex, NY 14507

Atta: Barbara Catlin

Client Project:

SAMPLE INFORMATION

Sample Date: 12/2/98 Sampler: Client

Matrix:

1515

Date Received: 12/4/98

Report Date: 12/10/98

Laboratory No.:

Leb ID: Client ID: Location:	1515-1 22744 027 B	1515-2 22745 (O 2, B)	11-2-	Method	Analysis
Cyanide pH	7.22	<0.010	mg/l S.U.	SM 4500 EPA 150.1	12/9/5
Lab ID: Client ID: Location:	1515-J 22746 (029)			Method	Analysis
Lab ID: Client ID: Location: PARAMETER Copper Codmium	15153 22746 0.29 0.026 <0.001		Units mg/1 mg/1	Method Number EPA 200.7 EPA 200.7	Analysis Date 12/7/91 12/7/91
Lab ID: Client ID: Location: PARAMETER Copper Cadmium Chromium	1515-3 22746 0.29 0.026 <0.001 <0.003		Units mg/l mg/l mg/l	Method Number EPA 200.7 EPA 200.7 EPA 200.7	Analysis Date 12/7/91 12/7/91 12/7/91
Lab ID: Client ID: Location: PARAMETER Copper Cadmium Chromium Lead Nickal	1515-3 22746 0 2 9 0.026 <0.001 <0.003 0.005 0.153		Units mg/l mg/l mg/l mg/l	Method Number EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	Anslysis Date 12/7/9 12/7/9 12/7/9 12/7/9 12/7/9 12/7/9

Footnotes:

ADDITIO R. Cometo

EXPRESSI	LAB POB	ox 40 5611 Water Street	Middlesex	NY 14507
Tel: (716) 554-5347 Tel	: (800) THE LABS	Tel: (800) 843-5227	FAX: (7	16) 554-4114
		SPECIALIZING IN ENVIR	ONMENTAL	L SOIL TESTS
		NEW YORK STATE LABO	RATORY #11	369
LABORATC	RY REPO	DRT - METH	IOD	624
Cust O.S.C.		PO Number: 9705		
Address 333 GANSON ST.		Project Number:		
BUFFALO, NY 142	03	A Project Cust: NYS D	EC	
Attn: RICHARD CYGAN		Project Site: PRIMO	SHIPLD. U	TICA
	240	-Date FAXED	/	
Phone 856-3333	111 - 10-	Lab Director	/	
FAX 842.1630	Ville			
SAMPLE DEN	IOGRAPHIC	CS AND TEST RI	ESULT	S
Results in bold type; Detection Limit	ts in small print	Results shown are: Volatile	e Organic An	alytes
Detection Limits* = Soil	=ug/kg ppb	Extraction Method: EPA 50	30 Purge & '	Trap
*See Individual Limit Wat	er=ug/L ppb	Analysis Method: EPA 82	60 GC/MS	
Sample ID (LAB)	22747			
Sample ID#1(CUST)	9705 - 30	-		
Sample ID#2(CUST)		-		
Matrix	WATER			
Sampled By	PATRICK FOOT	E		
Date Sampled	12/02/98 09:30	-		
Date Received	12/04/98 09:50			
Date Analyzed	12/07/98			
Date Reported	12/08/98			
	Results Det Limit		Results	Det Limit*
Dichlorodifluoromethane	< DL(U) 2	0 Carbon Tetrachloride	< DL(U)	2.0
Vinyl Chloride	< DL(U) 2	0 1,2-Dichloroethane	< DL(U)	2.0
Chloromethane	< DL(U) 8	0 Trichloroethene	< DL(U)	8.0
Bromomethane	< DL(U) 6.	0 1,2-Dichloropropane	< DL(U)	2.0
Chloroethane	< DL(U) 5.	0 Dibromomethane	< DL(U)	2.0
Trichlorofluoromethane	< DL(U) 2.	0 Bromoform	< DL(U)	10.0
1,1-Dichloroethene	< DL(U) 2.	0 Bromodichloromethane	< DL(U)	8.0
Methylene Chloride	< DL(U) 18.	0 1,1,2,2-Tetrachloroethane	< DL(U)	10.0
trans-1,2-Dichloroethene	< DL(U) 2.	0 Benzene	< DL(U)	4.0
Methyl-tert-butyl ether	< DL(U) 8.	o cis-1,3-Dichloropropene	< DL(U)	2.0
1,1-Dichloroethane	< DL(U) 2.	o Toluene	< DL(U)	5.0
2,2-Dichloropropane	< DL(U) 8.	o trans-1,3-Dichloropropene	< DL(U)	2.0
cis-1,2-Dichloroethene	< DL(U) 2.	0 1,1,2-Trichloroethane	< DL(U)	8.0
Methyl ethyl ketone	< DL(U) 40.	Tetrachloroethene	< DL(U)	2.0
Bromochloromethane	< DL(U) 2.	0 1,3-Dichloropropane	< DL(U)	2.0
Chloroform	< DL(U) 2.	Dibromochloromethane	< DL(U)	8.0
1,1,1-Trichloroethane	< DL(U) 2.0	1,2-Dibromoethane	< DL(U)	8.0
I,I-Dichloropropene	< DL(U) 2.0	Ethylbenzene	< DL(U)	2.0
 DL = Detection Limit 				Page 1

EXPRESSI	LAB P	O Box	40 5611 Water Street	Middlesex	NY 14507
Tel: (716) 554-5347 Tel	: (800) THE LABS		Tel: (800) 843-5227	FAX: (7	16) 554-4114
			SPECIALIZING IN ENVIRO	NMENTAL	L SOIL TESTS
			NEW YORK STATE LABOR	4TORY #11	369
I ADODATODY DEDODT - METHOD (24					
LABORATO	DRY RE	PO	<u>RT - METH</u>		<u>624</u>
			PO Number 0705		
Address 333 CANSON ST			Project Number		
Address 555 GANSON 51.	0.2		Project Number:	FC	
BUFFALO, NY 142			Project Cust: NYS D		
Atm: RICHARD CYGAN	۲ ۲		Project Site: PRIMO	JSHIELI	D, UTICA
			Date FAXED:		
Phone 856-3333			Lab Director		
FAX 842-1630			```()		
SAMPLE DEN	MOGRAPH	IICS	S AND TEST RE	SULT	S
Results in bold type; Detection Limit	ts in small print		Results shown are: Volatile	Organic An	alytes
Detection Limits* = Soil	- ⊐ug/kg ppb		Extraction Method: EPA 503	0 Purge &	Тгар
*See Individual Limit Wat	ter=ug/L opb		Analysis Method: EPA 826	0 GC/MS	-
Sample ID (LAP)		,			
Sample ID (LAB)	22/4/				
Sample ID#1(CUST)	9705 - 30				
Sample ID#2(CUST)	WATED				
Matrix Sompled By	WAIEK	OTE			
Sampled by	12/02/08 0	0.20			
Date Beceived	12/04/09 0	9.50			
Date Analyzed	12/07/09				
Date Reported	12/08/98				
The Mehouses	Parulta Dat	Limi**		Regulte	Det Limit*
m.v.n.Xvlene		4.0	1.2-Dichlorobenzene		2.0
o-Xvlene		2.0	n-Butylbenzene	< DL(U)	2.0
Styrene		2.0	1.2-Dibromo-3-chloropropane	< DL(U)	10.0
Isopropylbenzene		2.0	1.2.4-Trichlorobenzene	< DL(U)	4.0
n-Propylbenzene	< DL(U)	2.0	Hexachlorobutadiene	< DL(U)	2.0
1,3,5-Trimethylbenzene	< DL(U)	2.0	Naphthalene	< DL(U)	10.0
tert-Butylbenzene	< DL(U)	2.0	1,2,3-Trichlorobenzene	< DL(U)	10.0
1,2,4-Trimethylbenzene	< DL(U)	2.0			·
sec-Butylbenzene	< DL(U)	2.0			
	(DI (D)	2.0			
Chlorobenzene	< DL(U)				
Chlorobenzene 1,1,1,2-Tetrachloroethane	< DL(U) < DL(U)	6.0			
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene	< DL(U) < DL(U) < DL(U)	6.0 2.0			
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane	< DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0			
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0			
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoiuene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0 2.0 2.0	< DL(U)= analyzed but no	t detected	
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0 2.0 2.0 2.0	< DL(U)= analyzed but no L= estimated value	t detected	
Chlorobenzene 1,1,1,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane 2-Chlorotoluene 4-Chlorotoiuene 1,3-Dichlorobenzene 4-Isopropyltoluene	< DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U) < DL(U)	6.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	< DL(U)= analyzed but no L= estimated value B=analyte found in blank	t detected	

* DL = Detection Limit

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