

—▽—  
*de maximis, inc.*

301 Gallaher View Road  
Suite 227  
Knoxville, TN 37919  
(615) 691-5052  
Fax (615) 691-6485

MAY 1 1995

April 27, 1995

Mr. Robert Edwards  
New York State Department of Environmental Conservation  
50 Wolf Road,  
Albany, New York 12233-7010

**RE: PAS Oswego Interim Groundwater Removal**

Dear Mr. Edwards:

As specified in the September, 1994 Temporary Access Agreement for the Pollution Abatement Services Site in Oswego New York, enclosed is an original Certificate of Insurance for BBL Environmental Services (BBLES). As discussed with A.K. Gupta, BBLES will be performing the Interim Groundwater Removal site activities beginning May 1, 1995. A copy of this certificate was provided to A.K. Gupta via facsimile on April 26, 1995.

Please call me if you have any questions.

Sincerely,



Clay McClarnon

CSM/mt

cc: L. DiGuardia - USEPA (w/attach)  
A.K. Gupta (w/attach)  
M. Valentine  
G. Edens (w/attach)

**de maximis, inc.**

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Knoxville, TN 37919  
(615) 691-5052  
Fax (615) 691-6485

**FAX TRANSMITTAL SHEET**

Project/File Number: 3045  
Date: 4-26-95

This Fax consists of 2 page(s) including this cover sheet.

TO: A K Gupta

TELECOPIER NUMBER: 518-457-7743

FROM: Clay McClernon

Please call (615) 691-5052 if there are any problems with this transmission (FAX Number 615 691-6485).

**REMARKS:**

Attached is a Insurance Certificate for BBh Environmental Services. As discussed yesterday, I will include a original of this Certificate with a letter to Mr. Edwards.

If you have any questions, please call

Clay

Unless otherwise indicated, the information contained in this facsimile message is privileged and confidential information intended for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error or are not sure whether it is privileged, please immediately notify us by telephone, and destroy all copies and return the original message to us at the above address via the U.S. Postal Service at our expense.

Fax: 615-691-6485

# CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)  
APR 21 95

**PRODUCER**

MICHAEL J. HALL & COMPANY  
600 ERICKSEN AVENUE N.E. SUITE 350  
BAINBRIDGE ISLAND, WA 98110  
PHONE: (206) 780-2100  
FAX: (206) 780-2145

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**COMPANIES AFFORDING COVERAGE**

COMPANY A	RELIANCE INSURANCE COMPANY OF NY
COMPANY B	HARTFORD FIRE INSURANCE COMPANY
COMPANY C	TWIN CITY FIRE INSURANCE CO.
COMPANY D	

**INSURED**  
BBL ENVIRONMENTAL SERVICES, INC.

6723 TOWPATH RD, BOX 66  
SYRACUSE, NY 13214

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO-TR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	<b>GENERAL LIABILITY</b>				GENERAL AGGREGATE \$ 5,000,000
<input checked="" type="checkbox"/>	COMMERCIAL GENERAL LIABILITY	NGB201534102	JUL 1 94	JUL 1 95	PRODUCTS-COMPLETION \$ 5,000,000
<input checked="" type="checkbox"/>	CLAIMS MADE OCCUR				PERSONAL & ADV. INJURY \$ 5,000,000
<input type="checkbox"/>	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE \$ 5,000,000
					FIRE DAMAGE (Any One Fire) \$ 50,000
					MED. EXPENSE (Any One Person) \$ 5,000
	<b>AUTOMOBILE LIABILITY</b>				COMBINED SINGLE LIMIT \$ 1,000,000
<input checked="" type="checkbox"/>	ANY AUTO	52UENJ2617	MAR 1 95	MAR 1 96	BODILY INJURY (Per Person) \$
<input type="checkbox"/>	ALL OWNED AUTOS				BODILY INJURY (Per Accident) \$
<input type="checkbox"/>	SCHEDULED AUTOS				PROPERTY DAMAGE \$
<input checked="" type="checkbox"/>	HIRED AUTOS				AUTO ONLY - EA ACCIDENT \$
<input checked="" type="checkbox"/>	NON-OWNED AUTOS				OTHER THAN AUTO ONLY \$
					EACH ACCIDENT \$
					AGGREGATE \$
	<b>GARAGE LIABILITY</b>				
	ANY AUTO				
	<b>EXCESS LIABILITY</b>				
	UMBRELLA FORM				EACH OCCURRENCE \$
	OTHER THAN UMBRELLA FORM				AGGREGATE \$
	<b>WORKER'S COMPENSATION AND EMPLOYERS LIABILITY</b>				STATUTORY LIMITS
<input checked="" type="checkbox"/>	EMPLOYER'S LIABILITY	52WBCV6639	MAR 1 95	MAR 1 96	EACH ACCIDENT \$ 1,000,000
<input type="checkbox"/>	EMPLOYER'S LIABILITY				DISEASE-POLICY LIMIT \$ 1,000,000
<input type="checkbox"/>	EMPLOYER'S LIABILITY				DISEASE-EACH EMPLOYEE \$ 1,000,000
	<b>OTHER</b>	NTF260943202	JUL 1 94	JUL 1 95	\$2,000,000 PER CLAIM
<input checked="" type="checkbox"/>	<b>PROFESSIONAL LIABILITY</b>				\$2,000,000 AGGREGATE

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS**  
LEACHATE COLLECTION PROJECT. AGGREGATE LIMITS APPLY TO ALL PROJECTS DURING THE POLICY PERIOD.

**CERTIFICATE HOLDER**

NY STATE DEPT. OF ENVIRONMENTAL CONSERVATION  
50 WOLF ROAD  
ALBANY, NY 12233

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

*Michael J. Hall*

Cert # 1252

Attention:



**de maximis, inc.**

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

August 30, 1994

*AK*  
*Thanks*  
*P-5*  
*Jerry*  
*FYE*  
*Thanks!*  
*AK*  
*An outward flow condition exists at well pair SWW 3-4, 9-10, & 11-12.*

RECEIVED

AUG 30 1994

HAZARDOUS WASTE

Via Federal Express

Mr. Louis Di Guardia, OSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

**Subject: Recommendations for Interim Groundwater Removal (IGR) Pumping Schedule**

Dear Mr. Di Guardia:

This letter provides recommendations for the PAS Oswego Site interim groundwater removal (IGR) schedule, which have been developed in consultation with the IGR contractor, OBG Technical Services. They are supported by the current IGR data (attached). Based upon the continued progress achieved by the present IGR removal schedule, as discussed below, the PAS Oswego Management Committee recommends continuing the present schedule (described in our May 31, 1994 letter). We propose that the schedule be continued through June 30, 1995 and a progress report to present the results of the previous 12 months of IGR activities be submitted to the Agency by June 1, 1995.

Monthly leachate removal volumes varied between 20,000 and 25,000 gallons since the current IGR schedule began in June, 1994. Table 1 provides a record of the amounts of leachate removed during the June - August, 1994 period.

During the past three months (June through August) of operating the IGR under the current schedule, leachate and groundwater elevations inside the slurry wall have remained stable at or below the May 1994 elevations. While regional groundwater levels outside the slurry wall declined significantly during the June-August period due to dry weather conditions in the area, leachate and groundwater elevations inside the slurry wall have remained stable indicating the integrity of the slurry wall is being maintained. At the downgradient extent of the slurry wall perimeter, inward hydraulic gradients continued at the SWW 5/6 well pair during the last three months. During this same period, seasonal lowering of the groundwater levels outside the slurry



*de maximis*

Mr. Louis DiGuardia  
August 30, 1994  
Page 2 of 2

wall caused outward hydraulic gradients to occur at well pair SWW 11/12. This occurrence of outward gradients at SWW 11/12 during this period appears to be related to declining groundwater levels outside the slurry wall and not to the current IGR removal schedule.

Please call me at (615) 691-5052 if you have any questions or comments.

Sincerely,

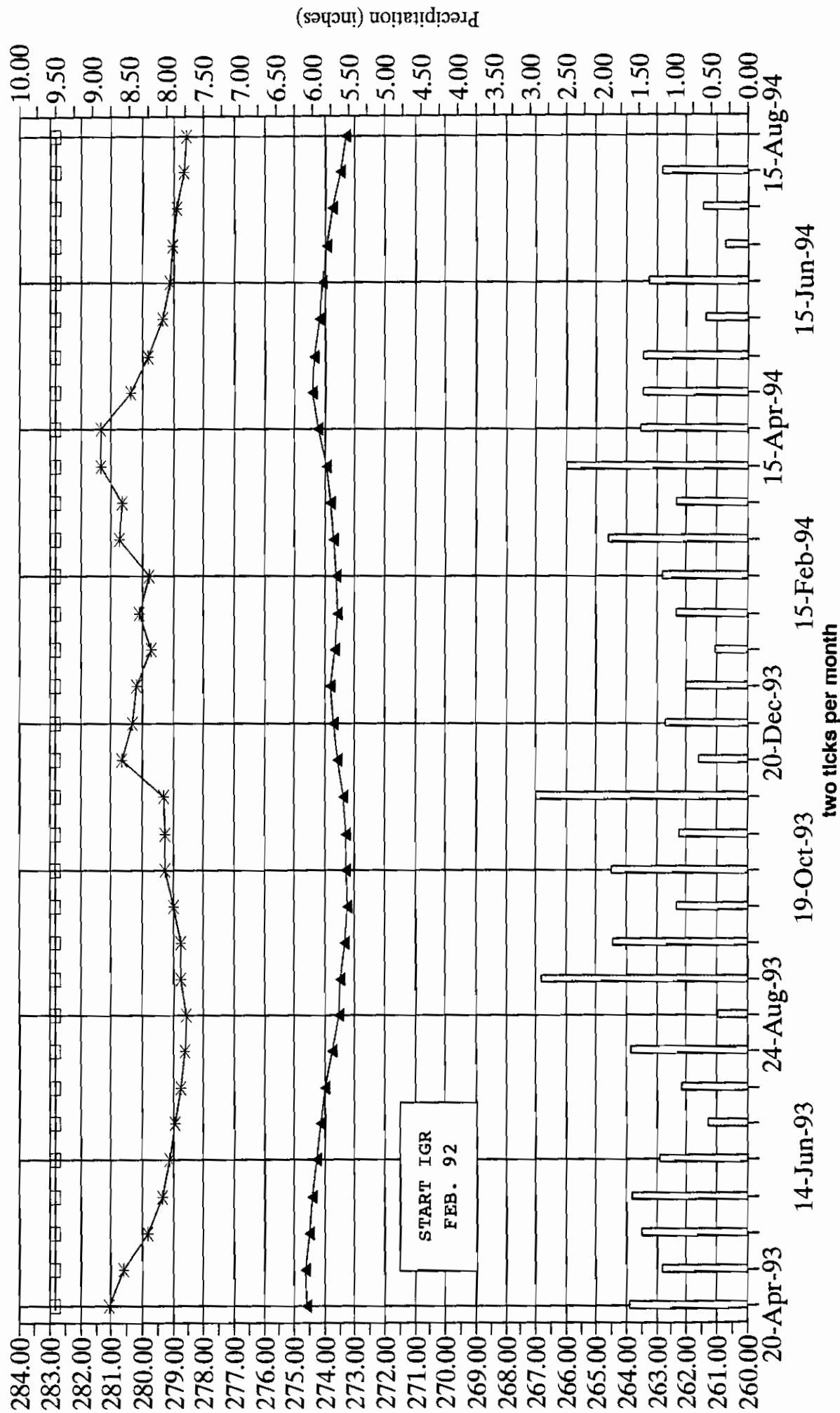
Mark Valentine

CSM/mt

Attachments

cc: R. Ramon  
A. K. Gupta  
PAS Oswego Management Committee

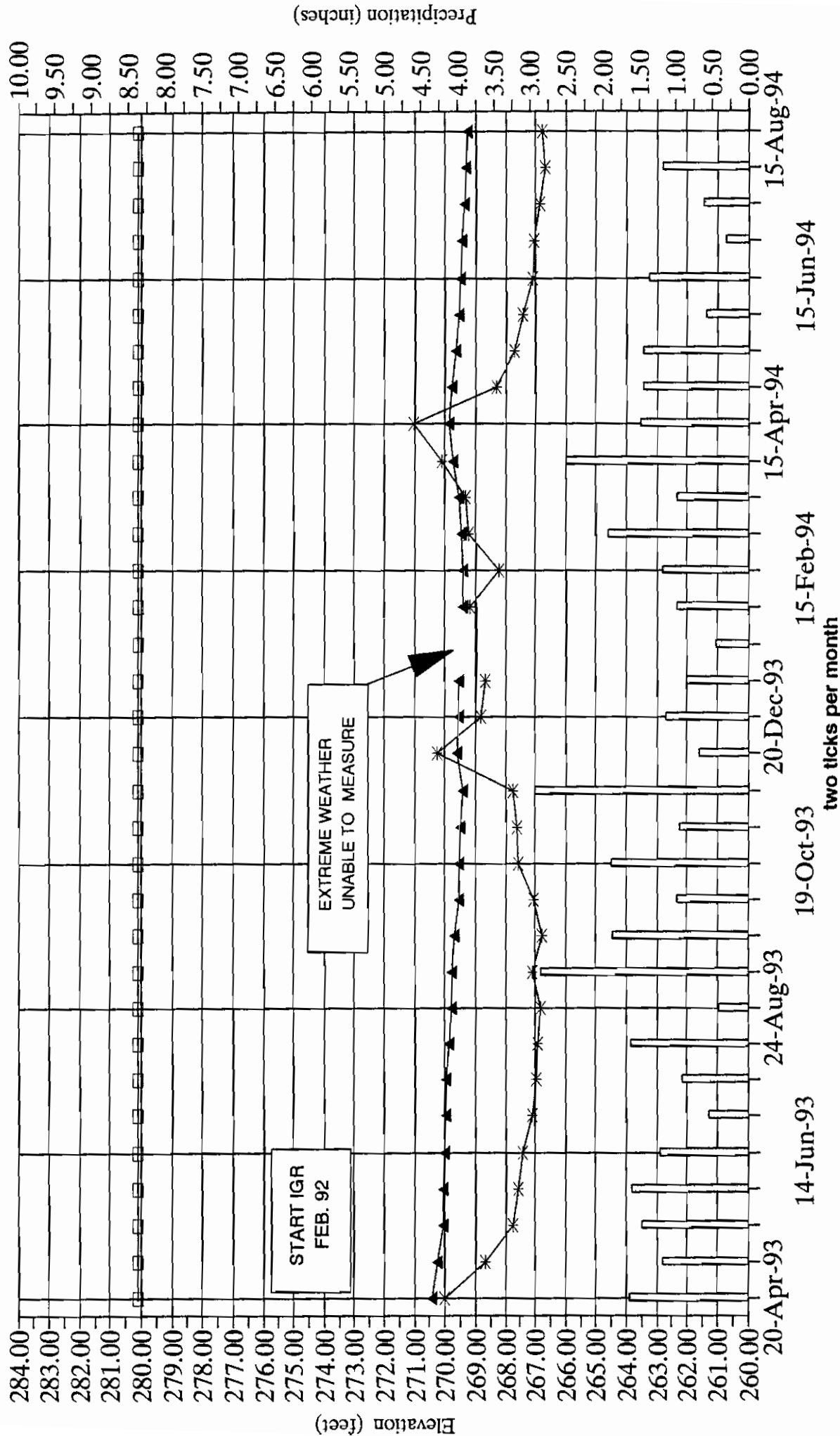
# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW1 & SWW2)



PREPARED by de maximis  
8/15/94

SLURRY WALL  
  SWW 2 (Inside)  
  SWW 1 (Outside)  
  Precipitation

# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW3 & SWW4)

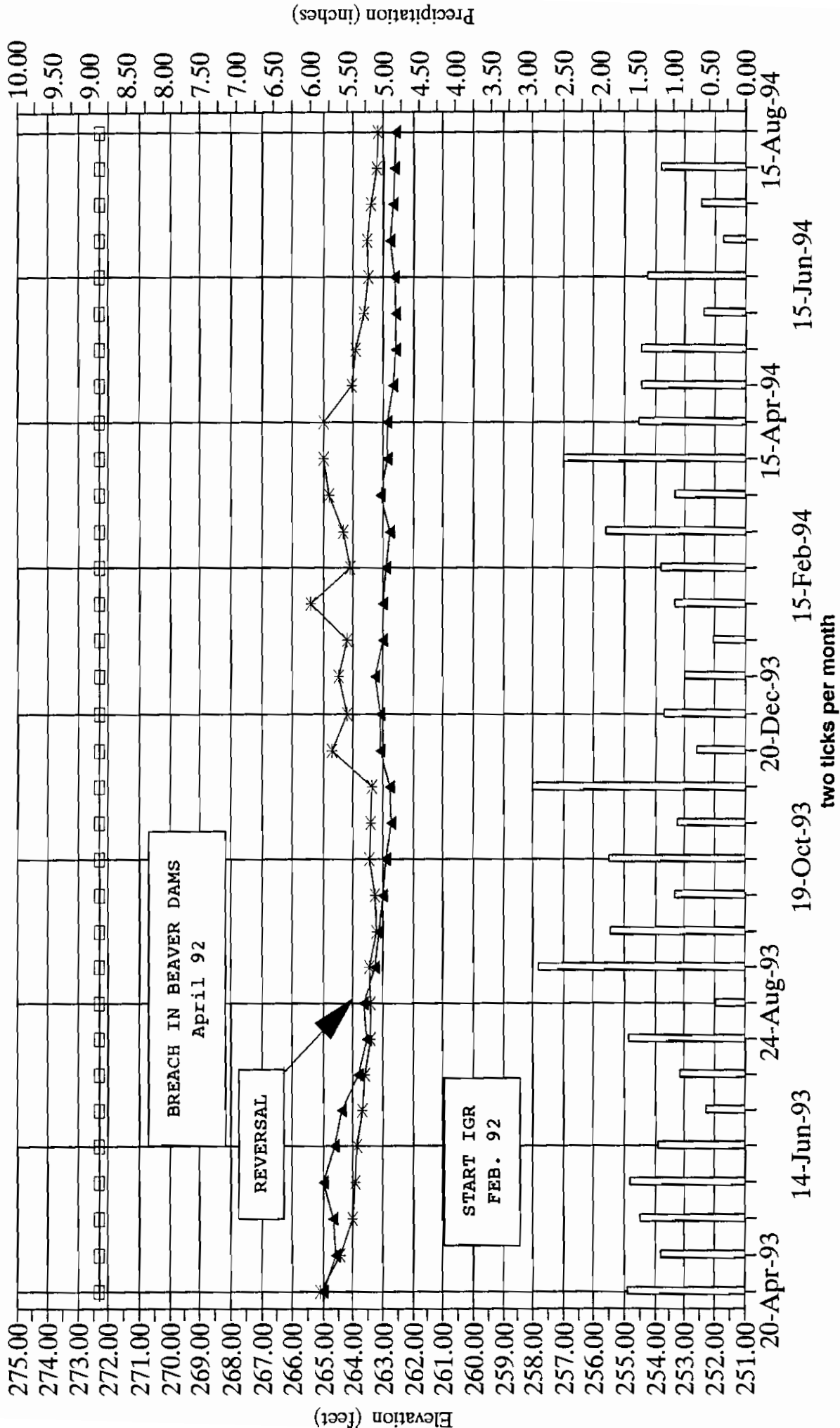


Prepared by de maximis  
8/15/94

SLURRY WALL   
  SWW 3 (Inside)   
  SWW 4 (Outside)   
  Precipitation

two ticks per month

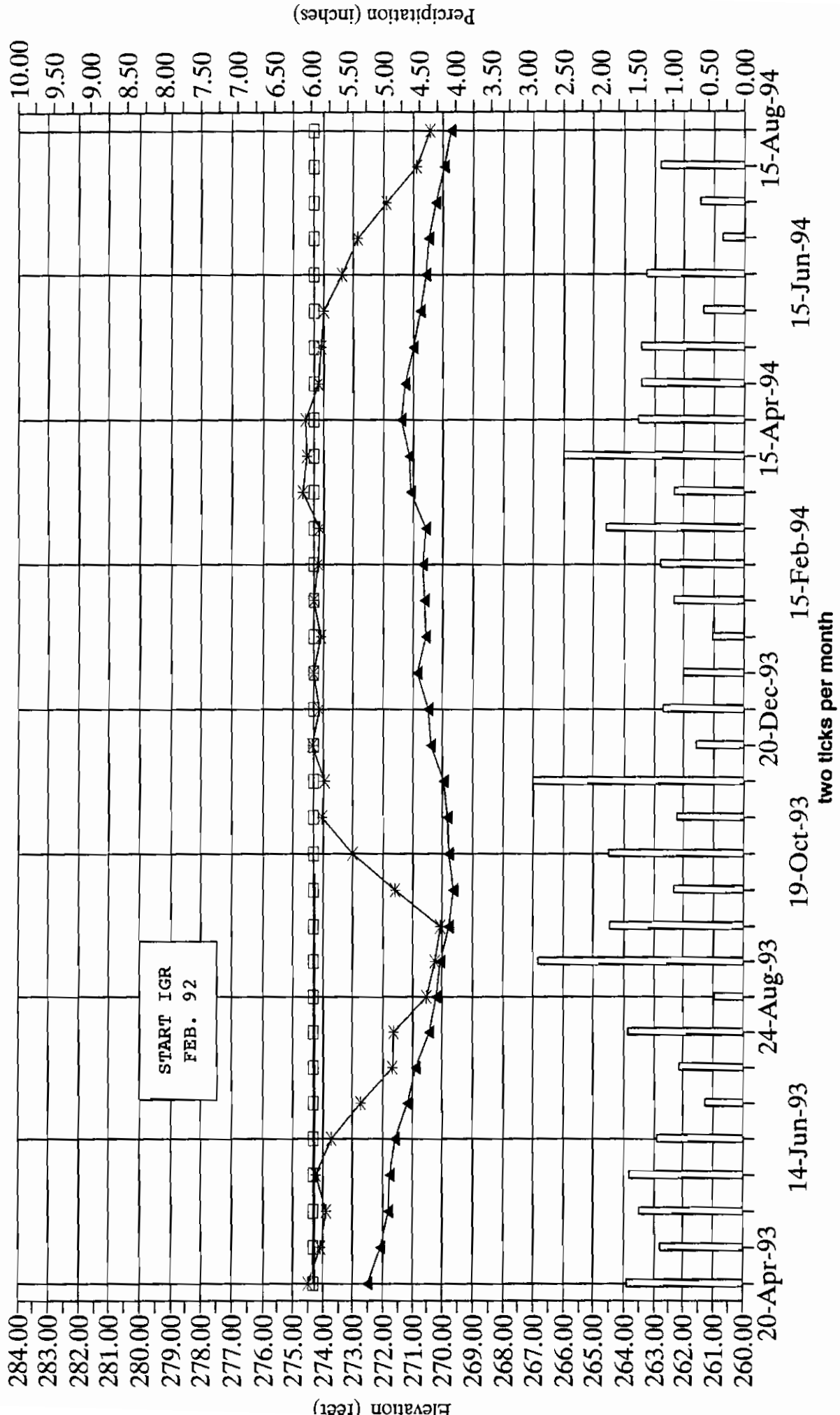
# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW5 & SWW6)



PREPARED by de maximis  
8/15/94



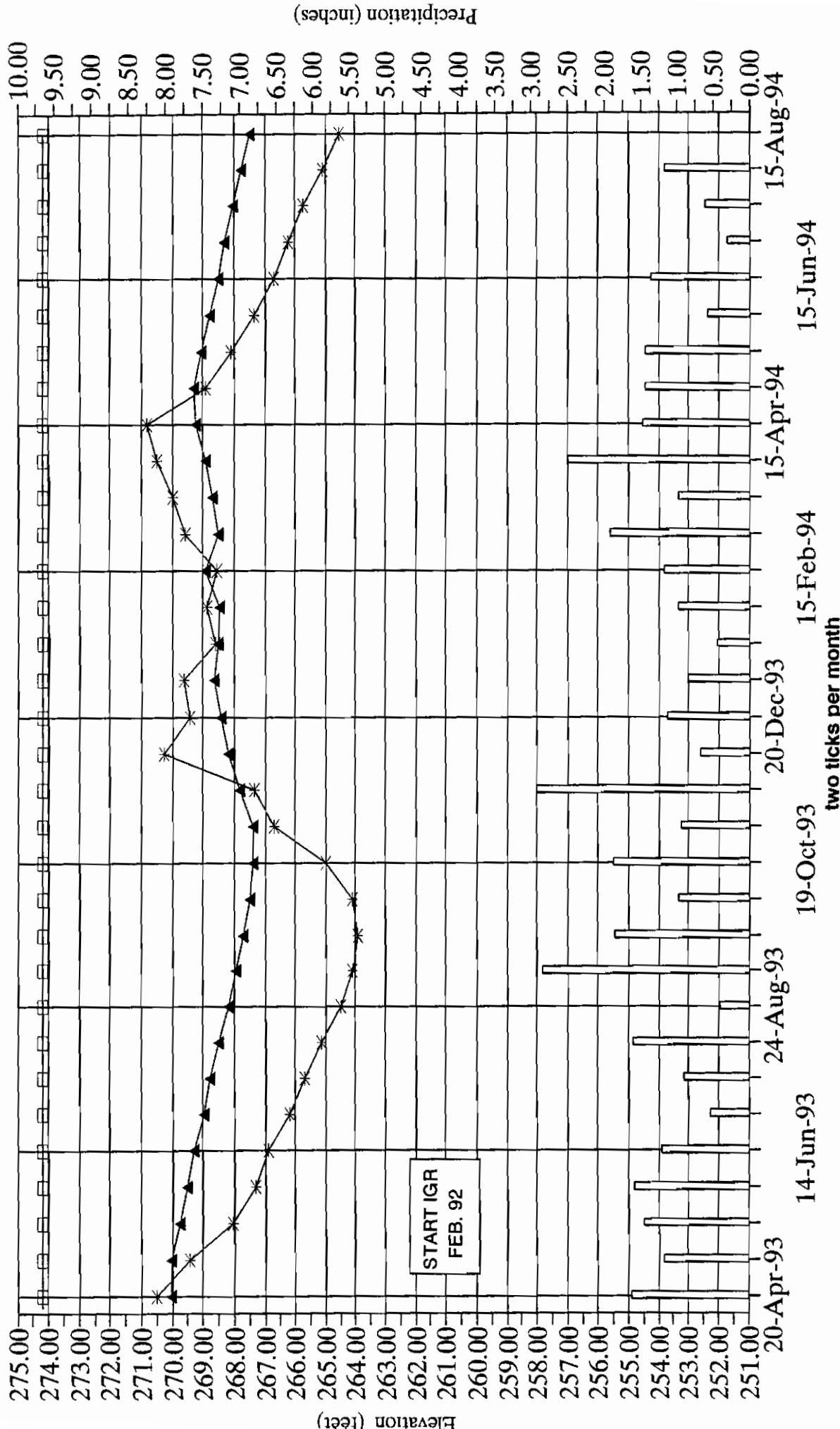
# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW7 & SWW8)



PREPARED by de maximis  
 8/15/94

□ SLURRY WALL    ▲ SWW 7 (Inside)    \* SWW 8 (Outside)    □ Precipitation

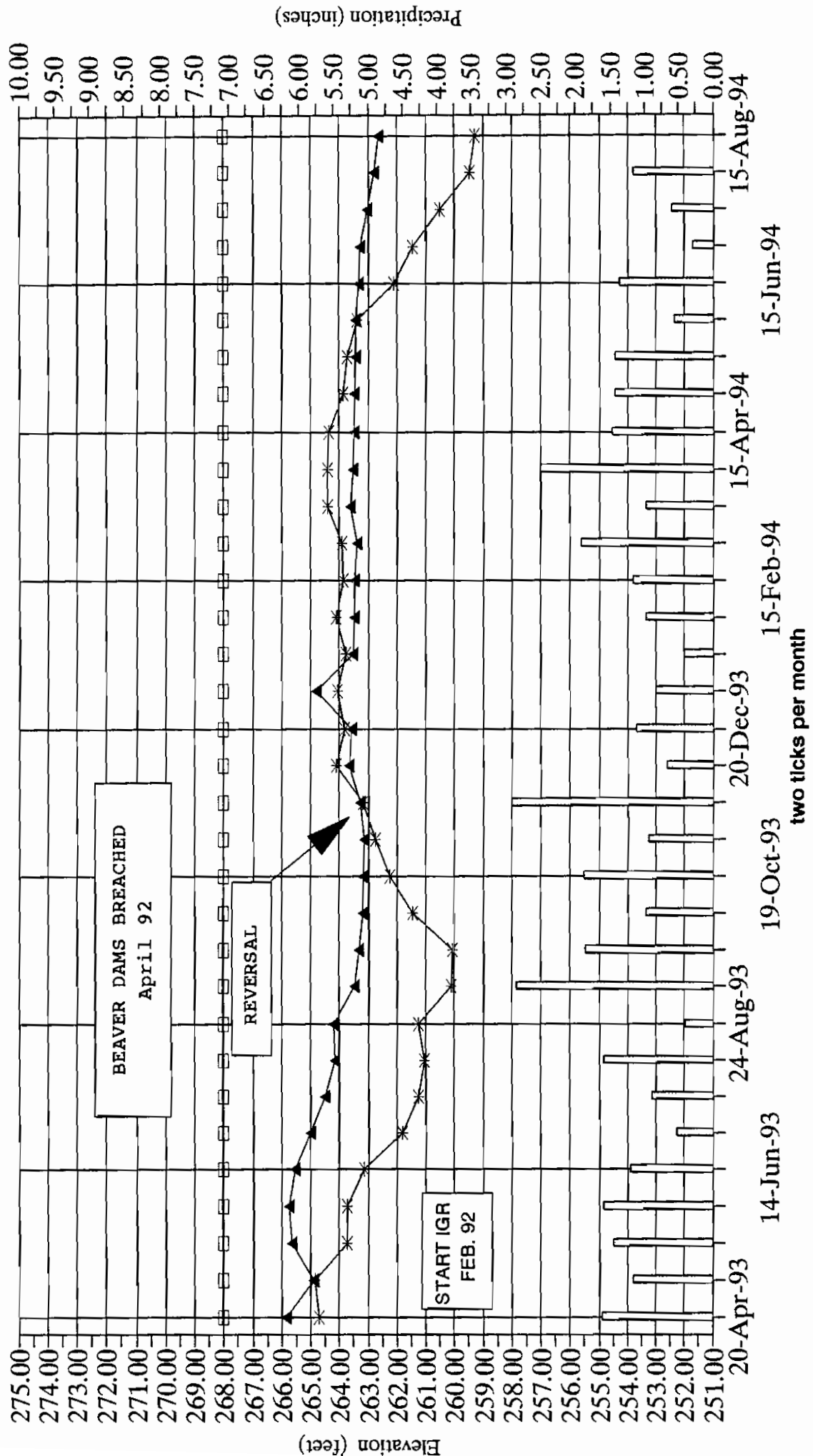
# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW9 & SWW10)



PREPARED by de maximis  
 8/15/94

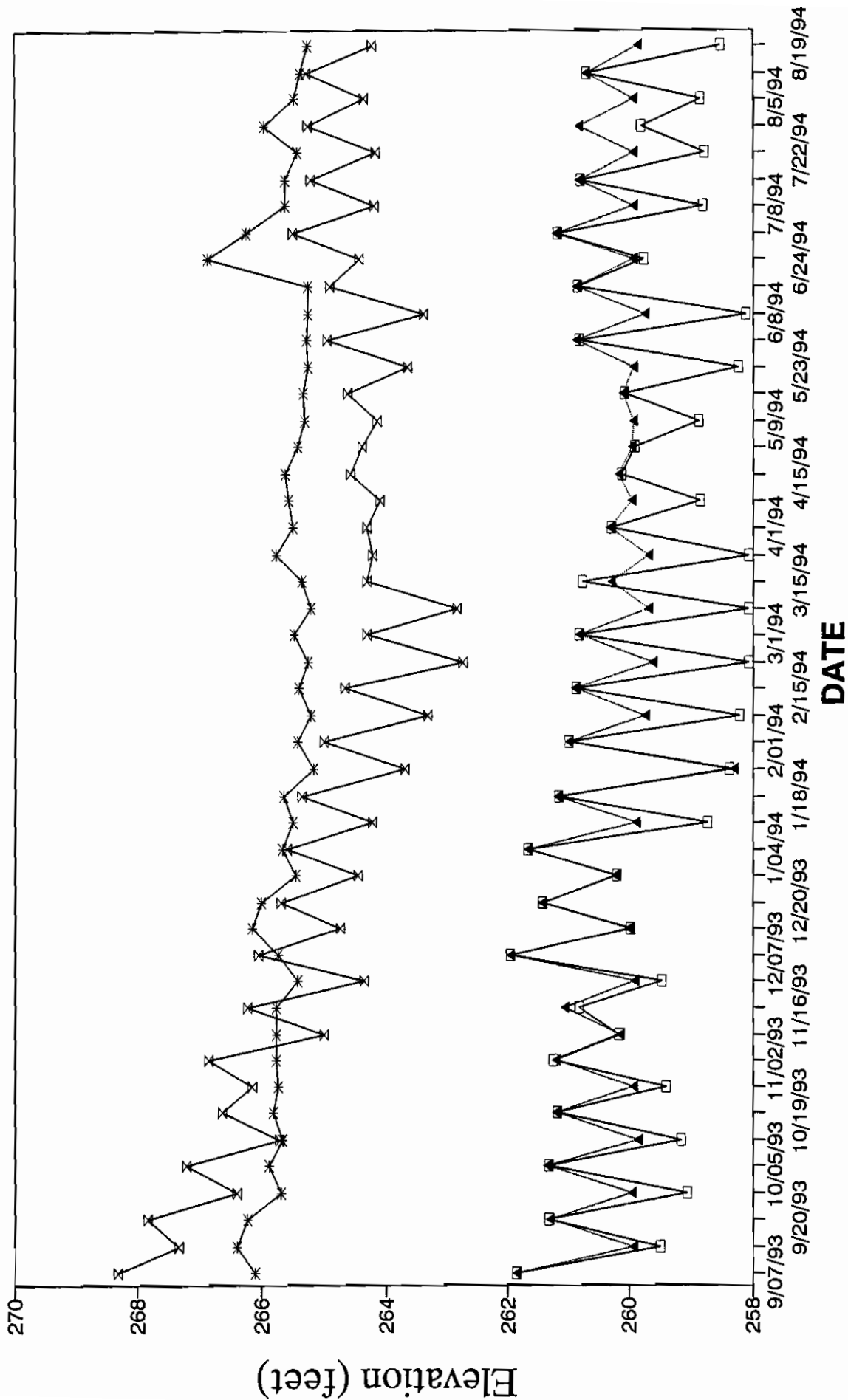
□ SLURRY WALL    ▲ SWW 9 (Inside)    \* SWW 10 (Outside)    ▒ Precipitation

# PAS - OSWEGO GROUNDWATER ELEVATIONS (SWW11 & SWW12)



PREPARED by de maximis  
 8/15/94

LCW Groundwater Elevations  
LCW1 - LCW4



▲ LCW1 □ LCW2 \* LCW3 × LCW4

## TABLE 1

### PAS OSWEGO INTERIM REMOVAL VOLUMES (JUNE - AUGUST)

DATE	VOLUME REMOVED
June 6, 1994	10,330 gallons
June 22-23, 1994	10,151 gallons
July 6, 1994	10,381 gallons
July 20, 1994	10,274 gallons
August 3, 1994	15,000 gallons *
August 17, 1994	10,200 gallons *

\* approximate volumes

Actual volumes due from Du Pont by August 30, 1994



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

OCT 12 1994

AK  
File

OCT 12 1994

P. David Smith, P.E., Chief  
Central Projects Section  
Bureau of Central Remedial Action  
Division of Hazardous Waste Remediation  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

Dear Mr. Smith:

We are in receipt of your September 26, 1994 letter, transmitting comments related to the interim groundwater removal/alternate water supply work plan addendum associated with the Pollution Abatement Services site removal administrative order on consent.

In your letter, you indicate that the work plan addendum does not include provisions for the potentially responsible parties (PRPs) to takeover the long-term monitoring program currently being performed by the New York State Department of Environmental Conservation (NYSDEC). As I noted to you during our September 26, 1994 telephone conversation, while the PRPs have expressed a willingness to takeover the long-term monitoring, this work cannot, statutorily, be performed pursuant to a removal administrative order on consent.

It is our intention to incorporate the performance of the subject work into a consent decree related to the performance of the remedial design/remedial action associated with the remedy selected in the December 1993 Record of Decision. I anticipate that these negotiations will commence in the fall of 1995, once the ongoing supplemental pre-remedial design study has been completed. Since this schedule will not accommodate NYSDEC's scheduled termination of the subject long-term monitoring contract, NYSDEC might consider either extending the long-term monitoring contract until our negotiations have been completed or negotiating the performance of the work directly with the PRPs.

In your letter, you also express concern that the work plan addendum suggests the possibility of delaying the installation of the waterline connections until next spring. Although the administrative order on consent (see enclosed copy) and the work plan allow the PRPs to commence the water supply connection program within forty-five days of receipt of an Environmental Protection Agency-generated list of the Smith's Beach area residents who have consented to being connected to the public water supply, the PRPs have assured us

that they will make every effort to install the waterline connections before the completion of this tapping season, if we can promptly provide them with a list of the residents that have agreed to be connected to the public water supply.

It is anticipated that, by October 13, 1994, our contractor will complete the identification of those Smith's Beach residents who are currently using residential wells. Once we have obtained consent from those residents that desire to be connected to the waterline, the names will be provided to the PRPs.

Assuming that consent from those residents that desire to be connected to the waterline can be readily obtained, it is likely that the water supply connections can be completed before the conclusion of the tapping season.

We will keep you apprised of the status of the supplemental pre-remedial design study and the installation of the waterline connections.

Should you have any questions regarding the above, please contact me at (212) 264-1132.

Sincerely yours,

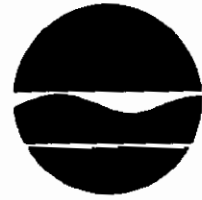


Joel Singerman, Chief  
Western New York Superfund Section I

Enclosure

cc: Gerald Rider, NYSDEC

**New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233**



JUN 13 1994

**Langdon Marsh  
Acting Commissioner**

Mr. Louis DiGuardia, OSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

Dear Mr. DiGuardia:

RE: Pollution Abatement Services (PAS) #738001  
Interim Groundwater Removal Action (IGR)

I have reviewed the Responsible Parties (RP's) recommendations for the proposed IGR pumping schedule dated May 31, 1994 which was received by NYS Department of Environmental Conservation (NYSDEC) on June 6, 1994, and have the following comments:

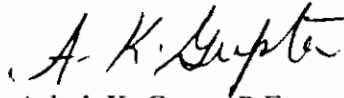
1. We do not fully agree with the RP's assumption that the low groundwater/leachate recovery rate is attributed to the drop in groundwater elevation within the containment cell. We believe that the drop in groundwater elevation is a factor for reduced yield, but is not a significant factor. Instead, we believe that the high rate of pumping at twice a month may have caused the high concentration of metals, specifically iron in the groundwater/leachate to precipitate and clog the well screen which may have reduced the yield of the wells. Therefore, it is recommended that the leachate collection well be redeveloped and the well screen should be inspected and cleaned.
2. It is suggested that an Automatic groundwater/leachate pumping system with control alarm and auto dialer be put back on line. After minor repairs and adjustments, this system can be restarted. Once in place this system will eliminate unnecessary mobilization and mechanical stress to the pumps as they will never run dry.

Per RP's monthly progress report dated June 9, 1994, it appears that the RP's request for the revised pumping schedule was received, and approved, by you prior to NYSDEC receiving a copy of the request. I would appreciate that in the future you provide NYSDEC ample appropriate opportunity to review and comment on all important issues such as this one.



If you have any questions, please call me at 518/457-0927.

Sincerely,



Ashok K. Gupta, P.E.

Operation, Maintenance & Support Section

Bureau of Hazardous Site Control

Division of Hazardous Waste Remediation

~~John~~  
Take a quick look today?  
What do you think?  
See AKG  
I

AKC, FY



**de maximis, inc.**

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

JUN - 6 1994

Via Facsimile

Mr. Louis Di Guardia, OSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

~~John~~  
5/4/94  
See...  
9/20/94  
Call...

**Subject: Recommendations for Proposed IGR Pumping Schedule**

Dear Mr. Di Guardia:

In accordance with the May 1994 Monthly Progress Report, this letter provides recommendations for the proposed schedule of interim groundwater removal (IGR) activities at the PAS Oswego Site. This letter also provides a brief status report regarding the effectiveness of IGR pumping at the current removal rate of 30,000 gallons per month to better understand the rationale for the proposed schedule of IGR activities at the Site. These recommendations have been developed after extensive consultation with OBG Technical Services, the IGR contractor, and Roux and Associates, the contractor selected to perform the Supplemental Pre-Remedial Design Study at the Site.

During the last seven-month period of IGR pumping (Nov 93 to May 94), we have achieved horizontal gradient reversal (outward to inward) at the SWW11/12 well pair and have increased the extent of inward horizontal gradient at the SWW5/6 well pair. During this same period, we have also experienced low leachate recovery rates and increased difficulties in removing the targeted 30,000 gallons per month. In April 1994, we extended the number of IGR pumping days from two to six days and were only able to remove approximately 28,000 gallons. We experienced similar removal problems in May, 1994. The current removal schedule unnecessarily increases OBG contractor mobilizations to the site ~~and unnecessarily increase the~~ **high volume leachate removal pumps.**

Roux and OBG have evaluated the IGR data and concluded that the most likely reason for low leachate recovery rates at the site is that the aggressive IGR pumping since April, 1993 has steadily dewatered the areas within the containment system that are proximate to the leachate collection systems. This conclusion is based on steady decreases in pre-pumping elevation levels in the collection trenches since October, 1993. (see Attachment A) This conclusion is also based on the increasing amount of pumping time and associated mobilizations to remove the targeted leachate volume. (see Attachment B) The frozen cap conditions that existed over the past winter do not seem to be the primary cause of low leachate recovery at the site because the low leachate recovery conditions have persisted through the May, 1994 pumping activities and the Oswego spring thaw.

Mr. Louis Di Guardia  
May 31, 1994  
Page 2 of 2

Based upon discussions with OBG and Roux, the PAS Oswego Management Committee recommends the following IGR pumping schedule.

Pump 20,000 gallons of leachate during the first week of each month (the initial IGR removal rate), or whatever volume can be efficiently removed during a one-day pumping event up to 20,000 gallons, and monitor the groundwater slurry wall well pairs and leachate elevations during the beginning of the third week of each month. If the leachate elevations measured during the third week indicate that an additional 10,000 gallons of removable leachate has accumulated in the trenches, then a contingency removal event will be promptly scheduled to remove the 10,000 gallons of the additionally accumulated leachate. Removable leachate is that volume of leachate that can be efficiently removed in one day from the collection trenches without mechanically stressing the leachate removal pumps. (The removal rate during the first week of each month would be increased up to the cap amount of 30,000 gallons per month or decreased as appropriate and approved by USEPA if groundwater elevation results indicate that this removal volume will not efficiently sustain inward horizontal gradients.) We recommend that the proposed IGR removal schedule be considered for future pumping activities for a period of three months (June 94 through August 94). The IGR removal schedule will be reevaluated during this three month period to determine if any further modifications to the schedule are required.

Please call me if you have any questions or comments.

Sincerely,

*Mark Valentine*  
Mark Valentine

MV/mt

cc: PAS Management Committee  
Tim Barry, OBG  
Doug Swanson, Roux  
A.K. Gupta, NYSDEC  
R. Ramon, USEPA

*AK*  
*The proposal looks sound*

*to me*  
*they are just*  
*assuming the 30000*  
*over 2 events. Still*  
*30000 gal if its there*  
*I assume the auto dialer will*  
*activate when 20000 gal is present.*

*I think we*  
*should accept*  
*RP proposal*  
*if agree with EPA/Bob.*  
*6/1/94 T*

*I assume the auto dialer will*  
*activate when 20000 gal is present.*  
*I probably takes too long to*  
*have some flow in to the system.*  
*at see the proposal*  
*see the schedule*



May 31, 1994

INTERIM GROUND WATER REMOVAL EVENTS AND TASK SCHEDULE

	<u>MAY 94 REMOVAL EVENTS</u>		<u>JUNE 94 REMOVAL EVENTS</u>		<u>TASK</u>
	<u>FIRST EVENT</u>	<u>CONTINGENCY EVENT</u>	<u>FIRST EVENT</u>	<u>CONTINGENCY EVENT</u>	
PRE-PUMPING MONITORING	JUNE 3	JUNE 20	JULY 5	JULY 18	LCW, SWW WELLS
	JUNE 3	JUNE 20	JULY 5	JULY 18	SWW8/LD-3/LR-3 LS-6/LD-6/LR-6 LR-2, LR-8, M-21, M-22 WELLS
	-----	-----	JULY 5	-----	M-L SERIES WELLS (QUARTERLY)
REMOVAL*	JUNE 6	JUNE 22 (if necessary)	JULY 6	JULY 20 (if necessary)	GALLONS REMOVED AS NOTED
POST-PUMPING MONITORING	JUNE 8	JUNE 24	JULY 8	JULY 22	LCW,SWW WELLS, SWW8/LD-3/LR-3 LS-6/LD-6/LR-6 LR-2, LR-8, M-21, M-22 WELLS

\* Up to 20,000 gallons removed during the first event, or whatever can be efficiently removed during one-day. If 10,000 gallons of removable leachate has accumulated in the collection trench, then it will be removed during the contingency event.



**ATTACHMENT**

**INTERIM GROUNDWATER REMOVAL EVENTS AND TASK SCHEDULE**

**ATTACHMENT A**

# April 1994 Average Leachate Levels

Estimated Leachate Volume  
in Collection Trench

7,500 gallons

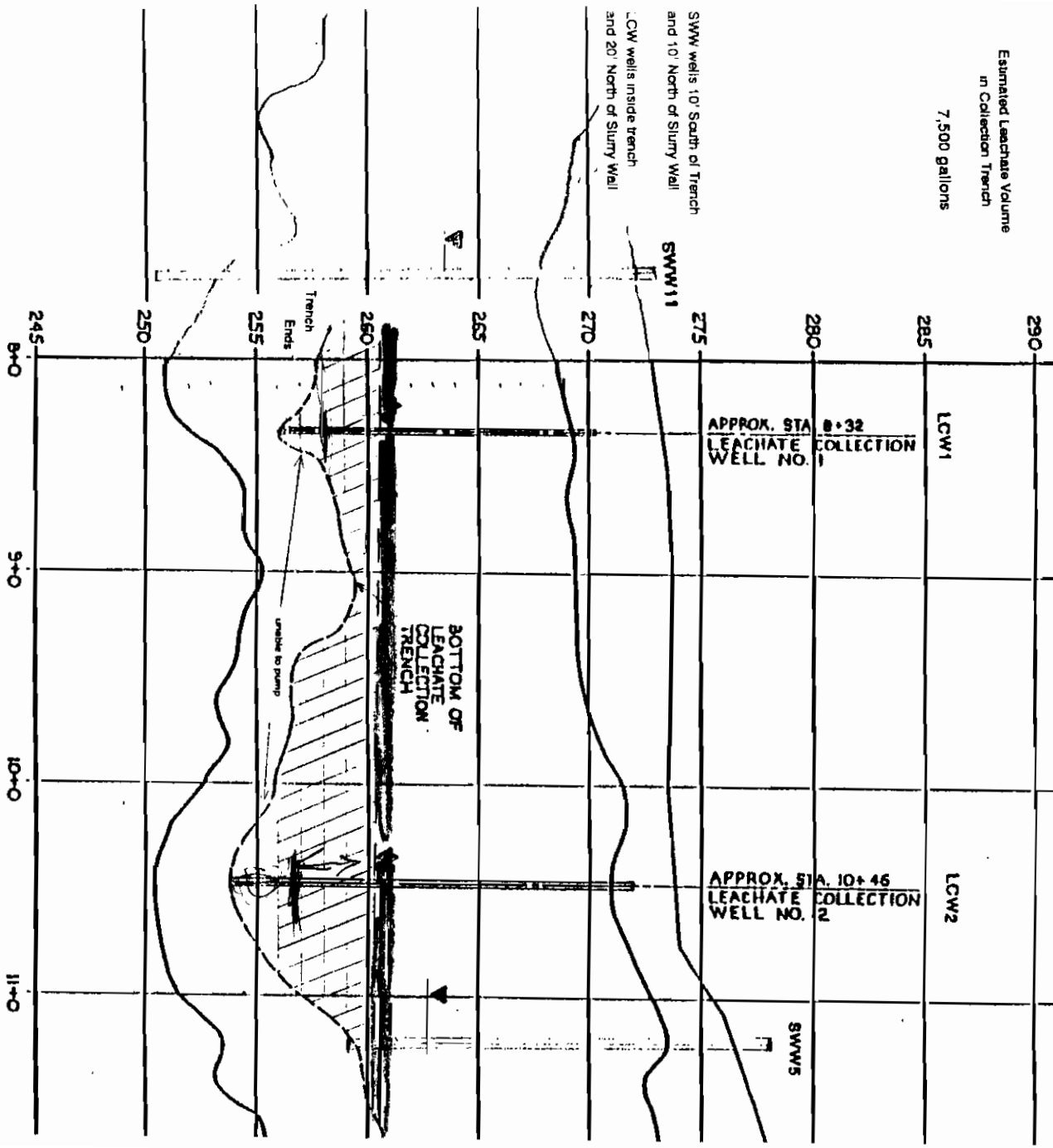


FIGURE DEVELOPED USING AVERAGE OF  
PRE-PUMPING ELEVATIONS FOR MONTH

SLURRY 1  
STA 8+0  
SCALE

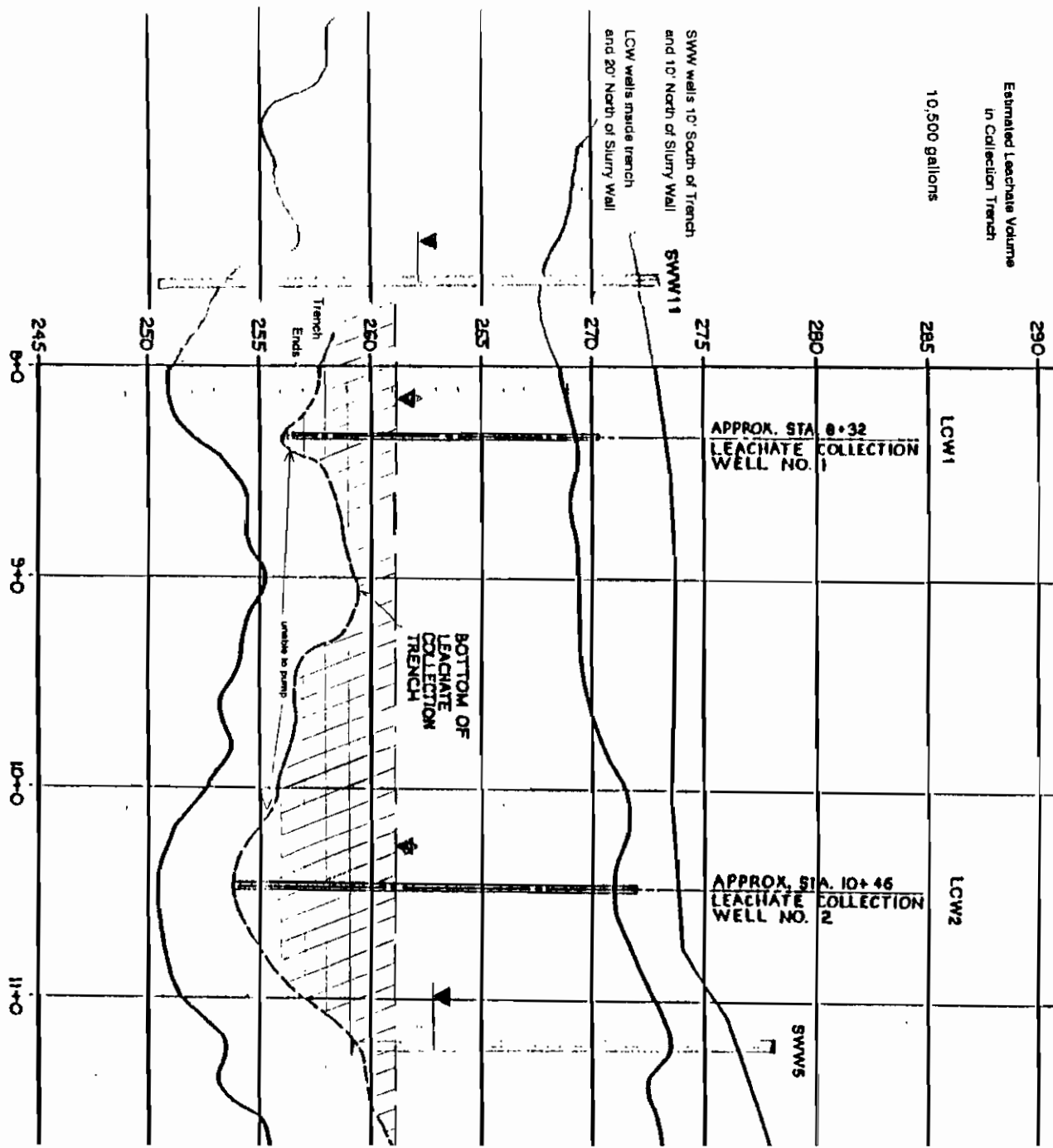


FIGURE DEVELOPED USING AVERAGE OF  
 PRE-PUMPING ELEVATIONS FOR MONTH

SLURRY WALL  
 SIA 8+0  
 SCALE:



# April 1993 Average Leachate Levels

Estimated Leachate Volume  
In Collection Trench  
25,500 gallons

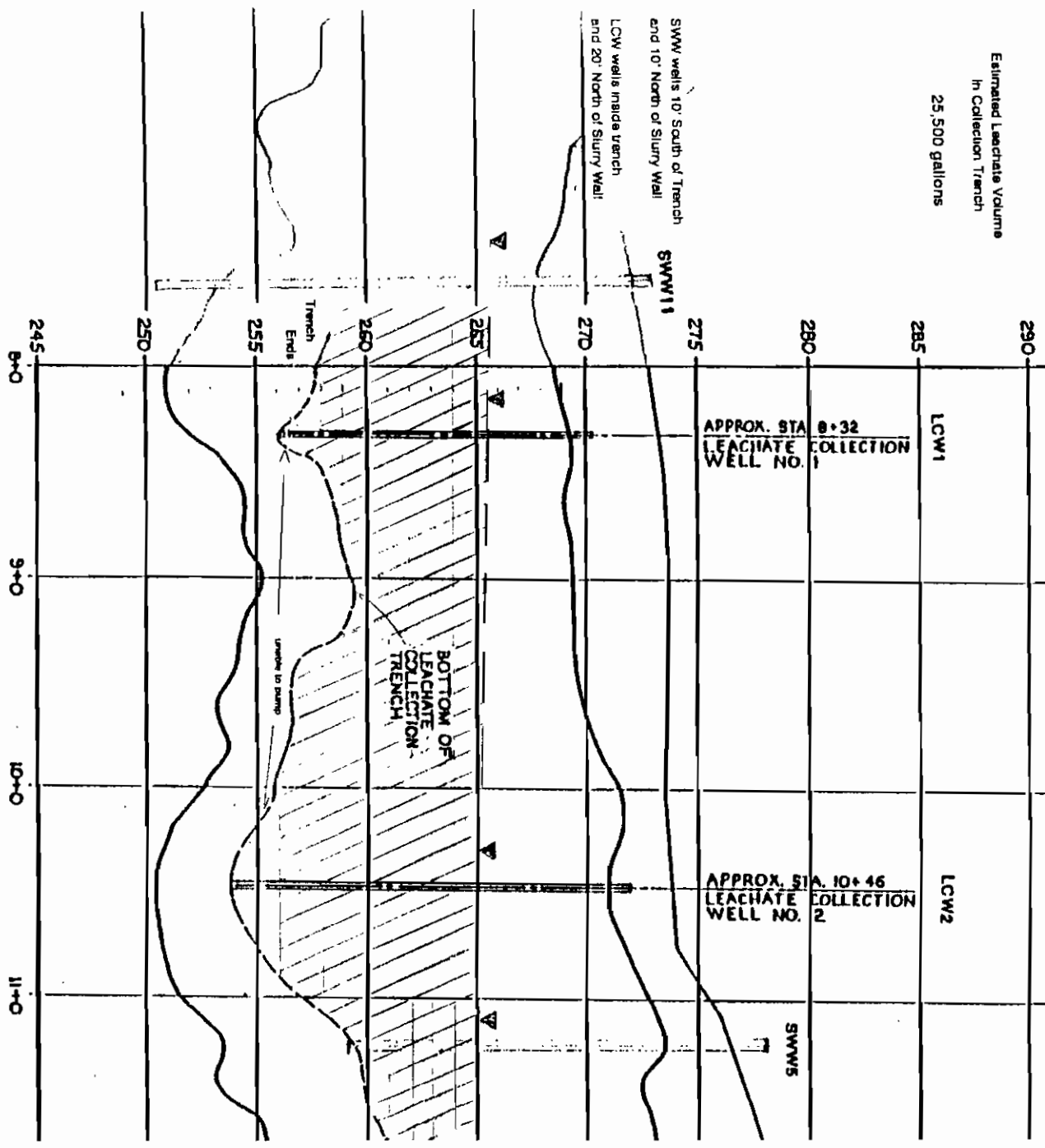


FIGURE DEVELOPED USING AVERAGE OF  
PRE-PUMPING ELEVATIONS FOR MONTH

SLURRY WALL  
STA 8+0  
SCALE

# October 1992 Average Leachate Levels

Estimated Leachate Volume  
in Collection Trench

18,750 gallons

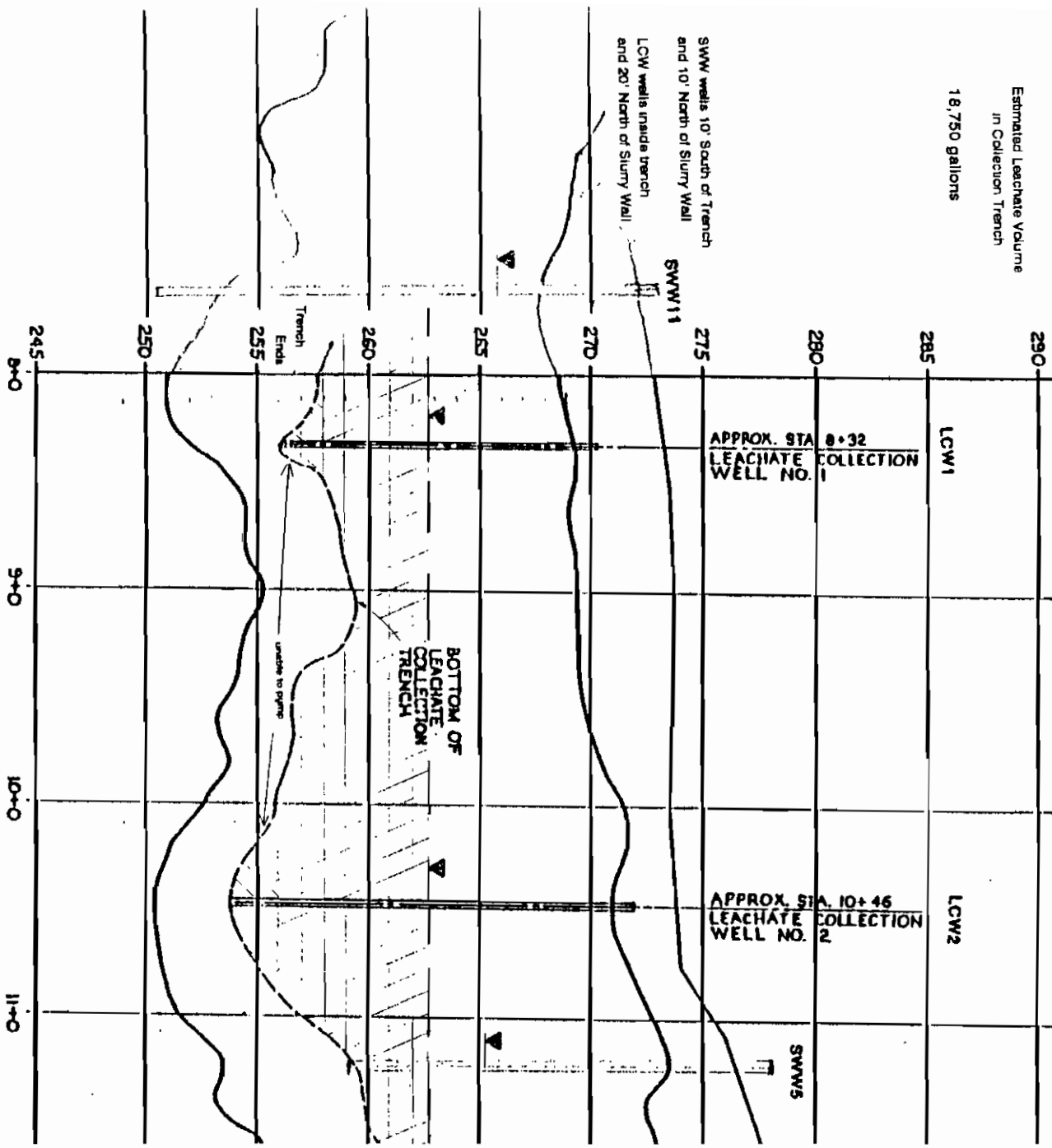


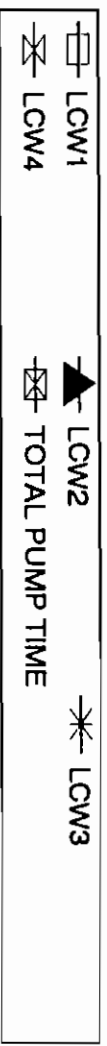
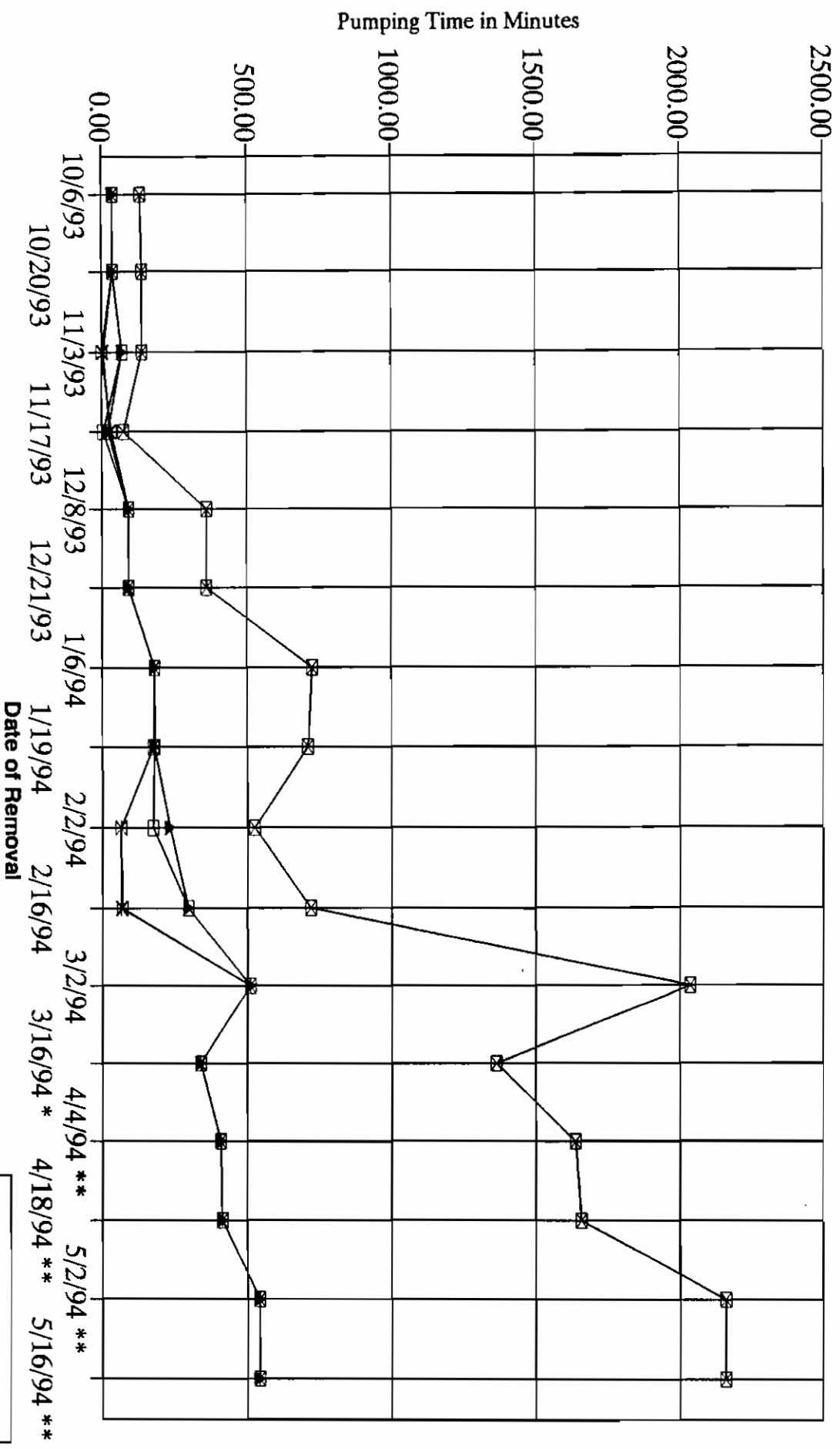
FIGURE DEVELOPED USING AVERAGE OF  
PRE-PUMPING ELEVATIONS FOR MONTH

**SLURRY**  
**STA 8+0**  
**SCAL**

**ATTACHMENT B**

# Attachment B

## Pumping Time vs Removal Date (15,000 gallon removal event)

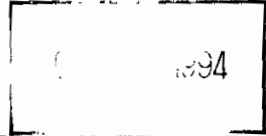


\* Two Day Removal Event  
 \*\* Three Day Removal Event

# OBG TECHNICAL SERVICES, INC.

5000 Brittonfield Parkway  
E. Syracuse, NY 1305

(315) 437-6400  
(315) 437-9800 - FAX



## Confidentiality Notice

HAZ  
L

CONTROL  
YES

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# CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

1/31/95

The Young Agency, Inc.  
 Bridgewater Place  
 600 Plum Street  
 Syracuse, NY 13204-1489  
 315 474-3274

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

## COMPANIES AFFORDING COVERAGE

COMPANY LETTER	A	Pacific Insurance Co.
COMPANY LETTER	B	Reliance National Ins. Co/NTY
COMPANY LETTER	C	Royal Insurance Company
COMPANY LETTER	D	Hartford Insurance Group
COMPANY LETTER	E	Hartford Casualty Ins. Co.

CGS Technical Services, Inc.  
 5000 Brittenfield Parkway  
 P.O. Box 5240  
 Syracuse NY 13220

THE POLICIES OF INSURANCE NOTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN IN SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS AND COVERAGE HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	AMOUNT
<b>GENERAL LIABILITY</b> COMMERCIAL GENERAL LIABILITY CLAIMS MADE BASIS RETIRE & CONTRACTORS Retire GRIL 1/1/95	N8812592200A DEDUCTIBLE \$300,000 ADDITIONAL INSURED PER EXHIBIT B	1/01/94	1/01/96	GENERAL AGGREGATE: \$ 3000000 PRODUCTS-COMM/OP/AD: \$ 3000000 PERSONAL & ADV. INJURY: \$ 3000000 EACH OCCURRENCE: \$ 3000000 FIRE DAMAGE (any one fire): \$ 50000 MED. EXPENSE (any one person): \$ 5000
<b>VEHICLE LIABILITY</b> PAS AUTO ALL OWNED & HLD SCHEDULED AUTOS NON-SCHEDULED AUTOS WAIVED AUTOS LIABILITY	010ENFP1806	1/01/94	1/01/96	COMBINED SINGLE LIMIT: 1000000 BODILY INJURY (Per person) BODILY INJURY (Per occ. limit) PROPERTY DAMAGE
<b>EMPLOYERS</b> PASHEILA FORM PASHEILA FORM WORKERS COMPENSATION EMPLOYERS LIABILITY	Z0000097 DTPWCT1041 WAIVER OF SUBROGATION PER N0000313 ATTACHED	1/01/94	1/01/96	EACH OCCURRENCE AGGREGATE: \$ 500000 STATUTORY LIMITS EACH OCCUR: \$ 500000 PLEASE FURNISH EMPLOYER'S NAME FOR EACH EMPLOYEE
<b>OTHER</b> Contractors Equipment	P0F012072 ALL RISK COVERAGE WAIVER OF SUBROGATION IN FAVOR OF PAS OSWEGO NEW YORK SITE PARTICIPATION	1/01/94	1/01/96	All Over \$300

RE Interim Groundwater Removal Activities, PAS Superfund Site -

### CANCELLATION

IF ANY OF THE EXPIRATION DATE IS 30 DAYS

PAS Oswego New York Site Participation Parties

BY SIGNATURE OF THE ISSUING COMPANY

*[Signature]*

**EXHIBIT B**

**Additional Insureds as respects General Liability Policy -  
Policy #NGB125922062:**

**TRUSTEE**

PAS OSMEGO NEW YORK SITE PARTICIPATION PARTIES

**MANAGEMENT COMMITTEE**

James W. Moorman, Esq.  
Cofelader, Wickersham & Teft  
1333 New Hampshire Avenue, N. W.  
Washington, D. C. 20036

**DESIGNATED COORDINATOR**

Mr. Mark Valentine  
de maximis, inc.  
PO Box 90348  
Knoxville, Tennessee 37990

**RESPONDENTS**

AS PER PAS OSMEGO ABATEMENT SERVICES, SITE PARTICIPATION  
AGREEMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

SEP 09 1994

SEP 14 1994

Mr. Raymond Lupe, P.E., Chief  
Central Remedial Section  
Bureau of Central Remedial Action  
Division of Hazardous Waste Remediation  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

Dear Mr. Lupe:

Four copies of the draft Interim Groundwater Removal (IGR) work plan for the Pollution Abatement Services site have been sent directly to you by de Maximis Inc. It would be appreciated if you could distribute this document. Copies of this letter and the subject document have been sent directly to the appropriate New York State Department of Environmental Conservation regional office and to the New York State Department of Health.

It would be appreciated if you could provide us with New York State's comments on this document within 10 working days of receipt of the IGR work plan.

Should your staff have any questions pertaining to the draft Interim Groundwater Removal work plan, please direct them to contact Richard Ramon, P.E., of my staff at (212) 264-1336.

Sincerely yours,

*Eduardo Gonzalez for J.A.S.*

Joel Singerman, Chief  
Western New York Superfund Section I

[Enclosures - sent directly from de Maximis Inc.]

cc: G. Anders Carlson, NYSDOH  
A.K. Gupta, NYSDEC  
Charles Branagh, NYSDEC



early-  
Needs  $\approx$  @ Oct-1994  $\rightarrow$  for re-development

# URS

URS CONSULTANTS, INC.  
282 DELAWARE AVENUE  
BUFFALO, NEW YORK 14202-1805  
TELEPHONE (716) 856-5636  
FAX (716) 856-2545

*fax cover sheet*

To A.K. Gupta From Shawn Iyer  
Date 8/16/94  
No. of pages (incl. cover sheet) 1

*... did all wells schedule for 1994, after this 3-yr w/o.*

*We can still schedule it for Fall '94; if so I would suggest that we decommission all the unsampled wells ahead of time to maintain representativeness.*

*Pk. call me to discuss this when you can.*

*Discussed with EPA & Clay Mc-demarcini's was advised to conduct sampling on their own as NYSDDEC does not have this provision. Also the data for study is their responsibility.*

*Thanks*  
*Shawn Iyer*  
*8/22/94*  
Please call if there are any problems with this transmiss

4.1.3 Program Review

The program review of all OAM projects is a review of past activities and a forecast of future activities. The review is conducted independently of the project and the contractor. The program review is a part of the program review which is evaluated after the initial phase of the monitoring program. The program review is conducted by the contractor during the first year of the program. The program review is conducted by the contractor during the first year of the program. The program review is conducted by the contractor during the first year of the program.

4.1.4 Environmental Monitoring

4.1.4.1 General

The program review of all OAM projects is a review of past activities and a forecast of future activities. The review is conducted independently of the project and the contractor. The program review is a part of the program review which is evaluated after the initial phase of the monitoring program. The program review is conducted by the contractor during the first year of the program. The program review is conducted by the contractor during the first year of the program.

4.2.2 Sampling Program

4.2.2.1 Schedule

The schedule of water environmental sampling activities are determined by the contractor during the three year period. The schedule is to be approved by the contractor. The locations where the water is sampled are 17 sites. The 17 sites are 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, and 46. The 17 sites are 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, and 46. The 17 sites are 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, and 46.

work is renewed for 1994. In addition, surface water and sediment samples will be collected from four locations shown on Figure 4-1. Also, one hour from the collection wells (Figure 4-1) and holding tank will be utilized for additional characterization during this three year period. The specific locations to be sampled are described below, including field and laboratory of requirements. Analytical parameters are identified in Section 4.2.1 (Table 4-2).

#### I) Groundwater

##### a) Fall (1991, '92, '93, and '94) Sampling Events

18 wells (11 L-series and 6 S-series) will be sampled for schedule A parameters. The L-series wells are L81, L82, L83, L84, L85, L86, L88, L89, L90 and L91. The S-series wells are SWW1, SWW2, SWW3, SWW4, SWW5, SWW6, SWW7, SWW8, SWW9, SWW10, SWW11.

##### b) Spring (1991, '92, and '93) Sampling Events

11 wells (only L-series) will be sampled for schedule A parameters (Table 4-2).

a) Each groundwater sampling event will include one field blank, field PCr for PCr only, and one matrix spike and one matrix spike lab. PCr compliance for schedule A parameters (Table 4-2).

#### II) Surface

a) During each of the seven events, 4 grab samples will be collected for Schedule B parameters. One each from flow 1, LW-1, SWW3 and SWW11.

14. Site Assessment - The site assessment will include the following:
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.

15. Site Assessment - The site assessment will include the following:
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.

16. Site Assessment - The site assessment will include the following:
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.

17. Site Assessment - The site assessment will include the following:
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.

Task 1: Monitoring of Site

The site assessment will include the following:
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.
- The site will be developed primarily for residential use and will maintain the site's natural features to the extent possible.

▽

**de maximis, inc.**

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

MAY - 3 1994

April 27, 1994

Mr. Louis Di Guardia, OSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

**Subject: PAS Site - Oswego, NY - Interim Groundwater Removal  
Schedule of Events**

Dear Mr. Di Guardia:

In accordance with the April 1994 monthly report, this letter provides notification of the schedule of interim groundwater removal events at the PAS Oswego Site for the month of May. Leachate recharge rates experienced during the April removal events remained low. Each of the two April removal events required three days of leachate pumping. The approximate amounts removed during April were as follows:

<u>Date</u>	<u>Gallons Removed*</u>
1st Event:	
April 4	5000
April 6	5000
April 8	4000
2nd Event:	
April 18	7000
April 20	5000
April 22	<u>3000</u>
TOTAL	29,000

The May removal events will be scheduled in a manner similar to the April removal events. The specific schedule of removal activities for May 3 is attached. We will submit a followup letter to you following completion of the May removal events with recommendations for scheduling subsequent removal activities at the site.

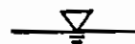
\*Actual quantities, which cannot be determined until disposal records from Dupont's Deepwater disposal facility are obtained, will be reported in the interim groundwater removal monthly report submitted in May.

*AK anyway to  
blow out screens?  
5/3/94*

*Tezby*

*Leachate recharge rate  
continued to remain low.  
I have discussed this with  
Bob Edwards, he believes  
that this may be due to  
low groundwater elevation  
within the cell. However  
he agreed that this  
may also be due to  
clogging of well screens.  
We will keep an  
eye on this.  
Thanks  
AK  
5/3*





*de maximis*

Mr. Louis DiGuardia, OSC  
PAS Interim Groundwater Removal Schedule of Events  
April 27, 1994  
Page 2 of 3

If you have any questions, please call me.

Sincerely,

Mark Valentine

CSM/mt

cc: A.K. Gupta  
R. Ramon  
PAS Oswego Interim Groundwater Removal Management Committee



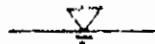


Mr. Louis DiGuardia, OSC  
PAS Interim Groundwater Removal Schedule of Events  
April 27, 1994  
Page 3 of 3

**INTERIM GROUND WATER REMOVAL EVENTS AND TASK SCHEDULE**

	<u>APR 94 REMOVAL EVENTS</u>		<u>MAY 94 REMOVAL EVENTS</u>		<u>TASK</u>
	<u>FIRST EVENT</u>	<u>SECOND EVENT</u>	<u>FIRST EVENT</u>	<u>SECOND EVENT</u>	
PRE-PUMPING MONITORING	APR 1	APR 15	APR 29	MAY 13	LCW, SWW WELLS
	APR 1	APR 15	APR 29	MAY 13	SWW8/LD-3/LR-3 LS-6/LD-6/LR-6 LR-2, LR-8, M-21, M-22 WELLS
	APR 1	----	----	----	M-L SERIES WELLS (QUARTERLY)
REMOVAL*	APR 4, 6, 8	APR 18, 20, 22	MAY 2 MAY 4,6 (if necessary)	MAY 16 MAY 18,20 (if necessary)	APPROXIMATELY 15,000 GALLONS REMOVED
POST-PUMPING MONITORING	APR 11	APR 20 (or two days following last pumping day if appropriate)	MAY 4 (or two days following last pumping day if appropriate)	MAY 18 (or two days following last pumping day if appropriate)	LCW,SWW WELLS SWW8/ LD-3/ LR-3LS-6/ LD-6/LR-6LR-2, LR-8, M-21, M-22 WELLS





**de maximis, inc.**

8001 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

**FAX TRANSMITTAL SHEET**

Project/File Number: 2111  
Date: 6/11/94

This Fax consists of 7 page(s) including this cover sheet.

TO: Mr. [unclear]

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*de maximis, inc.*

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37925  
(615) 691-5082  
Fax (615) 691-6485

VIA FACSIMILE

June 14, 1993

Mr. Louis DiGuardia  
On-Scene Coordinator  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

**Subject: May 13, 1993 US EPA Comments on Six-Month and Twelve-Month Reports  
PAS Oswego Interim Groundwater Removal Activities**

Dear Mr. DiGuardia:

This letter contains our response to your May 13, 1993 comments on the OBG and Gere Six-Month and Twelve-Month Reports, which were submitted to US EPA in August, 1992 and March, 1993, respectively. Your May 13 comments contain several itemized conclusions and recommendations regarding the Interim Groundwater Removal activities. Our response is based on the hydrogeologic evaluations of the PAS Oswego site as performed by both OBG and Gere (OBG) under the Interim Groundwater Removal (IGR) project and Cooper & Associates (Cooper) under the Supplemental Remedial Investigation/Feasibility Study (SRI/FS).

The OBG groundwater monitoring results collected during the IGR activities demonstrates that routine removal activities performed by OBG on behalf of the OBG Trust have been effective in lowering the groundwater elevations within the slurry wall below the top of the wall, the primary objective of the IGR Consent Order. Groundwater elevations have been lowered and consistently maintained approximately two feet below the top of the wall at the lowest point of the slurry wall (SWW11) since installation. These IGR monitoring results represent a significant improvement over previous remedial efforts, where monitoring results indicated that higher groundwater levels within the containment system, especially in the vicinity of wells SWW5 and SWW6, required IGR removal activities. Groundwater monitoring results indicated that groundwater elevations in the vicinity of SWW11 were higher than the top of the slurry wall during several monitoring periods.



Mr. Louis DiGuardia  
June 14, 1993  
Page 2 of 6

With a recent (May 1993) increase in the ICR pumping rate from 20,000 to 30,000 gallons per month, groundwater elevations within the containment system may continue to decline. Long-term ICR monitoring will indicate if the trends in lowered groundwater levels within the containment system will continue to be enhanced at the 30,000 gallons per month removal rate.

The following comments are presented in response to specific USEPA conclusions and recommendations presented in the May 13 letter.

#### **CONCLUSIONS #6 AND #10:**

Conclusion #6 suggests that a hydraulic connection greater than design permeabilities exists in the SWW5.6 and SWW1.112 areas, while Conclusion #10 even suggests a breach and/or breaches exist in the SWW5.6 area.

#### **RESPONSE:**

A detailed evaluation of the slurry wall has been performed by Golder as part of the SRI FS. Golder has reviewed all of the ICR, as well as SR, hydrogeologic and chemical data and has concluded that there is no evidence to support the existence of a breach within the slurry wall in the SWW5.6 area, or that hydraulic connections greater than design permeabilities exist in the SWW5.6 or SWW1.112 areas. Golder's evaluation is based on an analysis of several stress factors which influence groundwater elevations in the vicinity of the slurry wall. These stress factors include precipitation, barometric pressure, surface water elevations and leachate removal rates. Based on their evaluation, Golder concludes that the slurry wall provides an effective hydrogeologic barrier and that elevated concentrations detected at SWW5 are not a result of a breach in the slurry wall. Golder will present the results of their evaluation at the meeting scheduled with USEPA and NYSDEC on June 16th.

#### **USEPA CONCLUSION (GENERAL):**

The May 13 letter states that "the monthly rate of leachate withdrawal (i.e., 23,000 gallons) has had a limited effect on decreasing an existent hydraulic gradient, an additional objective of the Order."

Mr. Louis DiGuardia  
June 14, 1998  
Page 3 of 6

**RESPONSE:**

The primary objective of the Order is to create and maintain groundwater levels below the top of the slurry wall. The Order refers to the possibility that the withdrawal rate may have to be adjusted to create inward groundwater flow conditions at the lowest point of the slurry wall as a further safeguard for protection of the slurry wall. This reference in the Order is provided as a potential consideration rather than an additional objective for the Order. The IGR groundwater monitoring results indicate clearly that groundwater levels inside the slurry wall have been lowered well below the top of the wall which complies with the primary objective of the Order.

**USEPA CONCLUSION (GENERAL):**

The Order references that a rough water balance calculation "do not correspond to the anticipated reduction of ambient groundwater flow comprising inside the containment system"

**RESPONSE:**

We regret the opportunity to review any water balance calculations performed by the US EPA or their contractor. We are aware of some of the potential problems inherent in any attempt to perform a water balance calculation around the slurry wall, as well as the resultant uncertainties associated with such efforts. If made available to us, we would provide US EPA with our comments on any calculations that were performed, including the implications of such calculations on our evaluation of the slurry wall integrity. Factors in our evaluation of the historical groundwater monitoring results that may have warranted making groundwater levels inside the slurry wall more negative in response to increases in leachate removal rates. When removal rates have increased from approximately 10,000 gallons per month in 1991 to 10,000 gallons per month in 1995 and finally to 20,000 gallons per month in 1998, the groundwater conditions in the SVAWT and SVAWT-1 area have matched or exceeded the ambient groundwater removal rates. Further, we will also present the results of their analysis in our written reply letter.

Mr. Louis D'Guardia  
June 14, 1993  
Page 4 of 6

**USEPA RECOMMENDATION:**

The first recommendation, which references the modification of the IGR removal rate to 20,000 gallon per month, has been implemented by the IGR Trust effective April 5, 1993. This recommendation further provides that the expanded pumping program... generate on a routine basis an inward hydraulic gradient to consistently prevent off-site releases."

**RESPONSE:**

As mentioned herein in our previous response, the need to maintain inward hydraulic gradients is a potential consideration under the Order rather than a primary objective. Further, the need to maintain inward gradients to prevent off-site releases has not been established. Geologic evidence does not need to maintain inward gradients, as well as any potential for off-site releases under the RRI/ES.

**USEPA RECOMMENDATION:**

"The second recommendation references continuous studies to explore the possibility that a breach exists in the slurry wall in the vicinity of SWW0 to SWW12."

**RESPONSE:**

The IGR Trust will conduct an intensive groundwater monitoring study over a two-month period at well pairs SWW5/6 and SWW11/12 beginning in June 1993. This study will evaluate the geologic response of the groundwater in the vicinity of the slurry wall to the 20,000 gallon per month removal rate. The results of this study will provide further information on the hydrogeologic conditions in the vicinity of SWW5/6 and SWW11/12.

Mr. Louis DiGuardia  
June 14, 1997  
Page 6 of 6

#### **USEPA RECOMMENDATION:**

The third recommendation pertains to groundwater control at SWW7-8, and request that the installation of measures to limit reflux of groundwater over the elevation of the top of slurry wall containment to prevent hydraulic gradient.

#### **RESPONSE:**

The GR Order does not provide for remedial measures of the containment system to be taken such as hydrogeologic control modifications in the SWW7-8 area. The Statement of Purpose of the GR Order provides for removal and disposal of groundwater from within the containment system, as well as operation, maintenance and monitoring of the separate collection system. Golder is evaluating the integrity of the slurry wall as part of the SRI/RS. Any modifications to the hydrogeologic functioning of the slurry wall (other than those pumping shown) will be deferred until the SRI/RS is completed. If deemed appropriate at that time, such modifications could be implemented as part of any other remedial measures that are determined to be appropriate.

#### **USEPA RECOMMENDATION:**

The third recommendation provides for the system to maintain surface water elevations (i.e. White and Wine Creeks) at a determined level to support an upward gradient at the down-gradient side of the slurry wall containment system.

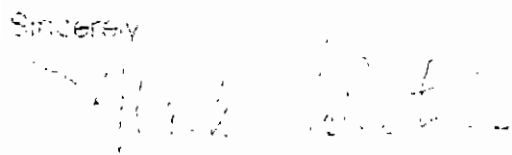
#### **RESPONSE:**

As provided above, the scope of the GR Order does not include removal or modifications of the site such as modification of any surface water elevation control features in White or Wine Creeks. The SRI/RS is intended to address issues associated with the integrity of the slurry wall, therefore the need for any modifications of the surface water elevation control features would be addressed as part of the SRI/RS.

Mr. Louis DiGuardia  
June 14, 1993  
Page 6 of 6

if you have any questions please call me

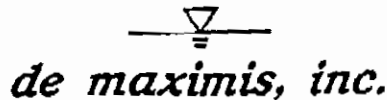
Sincerely,



Mark Valentine

MV/hn

- cc: B. Ramon
- C. Beins
- A. Gupta
- PAS Management Information
- S. Finn



9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

VIA FACSIMILE

June 14, 1993

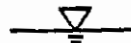
Mr. Louis DiGuardia  
On-Scene Coordinator  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

**Subject: May 13, 1993 US EPA Comments on Six-Month and Twelve-Month Reports  
PAS Oswego Interim Groundwater Removal Activities**

Dear Mr. DiGuardia:

This letter contains our response to your May 13, 1993 comments on the O'Brien & Gere Six-Month and Twelve-Month Reports, which were submitted to US EPA in August, 1992 and March, 1993, respectively. Your May 13 comments contained several itemized conclusions and recommendations regarding the Interim Groundwater Removal activities. Our response is based on the hydrogeologic evaluations of the PAS Oswego site as performed by both O'Brien & Gere (OBG) under the Interim Groundwater Removal (IGR) project and Golder & Associates (Golder) under the Supplemental Remedial Investigation/Feasibility Study (SRI/FS).

The OBG groundwater monitoring results collected during the IGR activities demonstrates that routine removal activities performed by OBG on behalf of the IGR Trust have been effective in lowering the groundwater elevations within the slurry wall below the top of the wall, the primary objective of the IGR Consent Order. Groundwater elevations have been lowered and consistently maintained approximately two feet below the top of the wall at the lowest point of the slurry wall (SWW11) due to IGR activities. These IGR monitoring results represent a significant improvement over previous removal efforts, where monitoring results indicated much higher groundwater levels within the containment system, especially in the vicinity of wells SWW5 and SWW11.<sup>7</sup> Prior to IGR removal activities, groundwater monitoring results indicated that groundwater elevations in the vicinity of SWW11 were higher than the top of the slurry wall during several monitoring periods.



Mr. Louis DiGuardia  
June 14, 1993  
Page 2 of 6

With a recent (May 1993) increase in the IGR pumping rate from 20,000 to 30,000 gallons per month, groundwater elevations within the containment system may continue to decline. Long-term IGR monitoring will indicate if the trends in lowered groundwater levels within the containment system will continue, or be enhanced, at the 30,000 gallons per month removal rate.

The following comments are presented in response to specific US EPA conclusions and recommendations presented in the May 13 letter.

**CONCLUSIONS #6 AND #10:**

Conclusion #6 suggests that a hydraulic connection greater than design permeabilities exists in the SWW5/6 and SWW11/12 areas, while Conclusion #10 even suggests a breach and/or breaches exist in the SWW5/6 area.

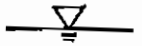
**RESPONSE:**

A detailed evaluation of the slurry wall has been performed by Golder as part of the SRI/FS. Golder has reviewed all of the IGR, as well as SRI, hydrogeologic and chemical data and has concluded that there is no evidence to support the existence of a breach within the slurry wall in the SWW5/6 area, or that hydraulic connections greater than design permeabilities exist in the SWW5/6 or SWW11/12 areas. Golder's evaluation is based on an analysis of several stress factors which influence groundwater elevations in the vicinity of the slurry wall. These stress factors include precipitation, barometric pressure, surface water elevations and leachate removal rates. Based on their evaluation, Golder concludes that the slurry wall provides an effective hydrogeologic barrier and that elevated concentrations detected at SWW6 are not a result of a breach in the slurry wall. Golder will present the results of their evaluation in the meeting scheduled with US EPA and NYSDEC on June 16th.

**USEPA CONCLUSION (GENERAL):**

The May 13 letter states that..."the monthly rate of leachate withdrawal (i.e., 20,000 gallons) has had a limited effect on developing an inward hydraulic gradient, an additional objective of the Order."



*de maximis*

Mr. Louis DiGuardia  
June 14, 1993  
Page 3 of 6

**RESPONSE:**

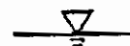
The primary objective of the Order is to create and maintain groundwater levels below the top of the slurry wall. The Order refers to the possibility that the... "withdrawal rate may have to be adjusted to create inward groundwater flow conditions at the lowest point of the slurry wall as a further safeguard for protection of the slurry wall". This reference in the Order is provided as a potential consideration rather than a additional objective under the Order. The IGR groundwater monitoring results indicate clearly that groundwater levels inside the slurry wall have been lowered well below the top of the wall which complies with the primary objective of the Order.

**USEPA CONCLUSION (GENERAL):**

The letter references that... "rough water balance calculations fail to correspond to the anticipated reduction of interior water volume with pumping inside the containment system".

**RESPONSE:**

We request the opportunity to review any water balance calculations performed by the US EPA or their contractor. We are aware of some of the potential problems inherent in any attempt to perform a water balance calculation around the slurry wall, as well as the resultant uncertainties associated with such efforts. If made available to us, we would provide US EPA with our comments on any calculations that were performed, including the implications of such calculations on our evaluation of the slurry wall integrity. Golder's evaluation of the historical groundwater monitoring results described above indicates that groundwater levels inside the slurry wall have receded in response to increases in leachate removal rates. When removal rates have increased from approximately 10,000 gallons per month in 1991 to 20,000 gallons per month in 1992, and finally to 30,000 gallons per month in 1993, the groundwater elevations in the SWW5 and SWW11 area have receded in response to each increase in the removal rate. Golder will also present the results of their analysis in our June 16th meeting.

*de maximis*

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Mr. Louis DiGuardia  
June 14, 1993  
Page 4 of 6

**USEPA RECOMMENDATION:**

The first recommendation, which references the modification of the IGR removal rate to 30,000 gallon per month, has been implemented by the IGR Trust effective April 5, 1993. This recommendation further provides that the expanded pumping program..."generate on a routine basis an inward hydraulic gradient to consistently prevent off-site releases."

**RESPONSE:**

As mentioned herein in our previous response, the need to maintain inward hydraulic gradients is a potential consideration under the Order rather than a primary objective. Further, the need to maintain an inward gradient to prevent off-site releases has not been established. Golder will address the need to maintain inward gradients, as well as any potential for off-site releases under the SRI/FS.

**USEPA RECOMMENDATION:**

The second recommendation references continued studies..."to explore the possibility that a breach exists in the slurry wall in the vicinity of SWW6 to SWW12".

**RESPONSE:**

The IGR Trust will conduct another continuous groundwater monitoring study over a two-month period at well pairs SWW5/6 and SWW11/12 beginning in June 1993. This study will evaluate the hydrogeologic response of the groundwater in the vicinity of the slurry wall to the 30,000 gallon per month removal rate. The results of this study will provide further information on the hydrogeologic conditions in the vicinity of SWW5/6 and SWW11/12.

*de maximis*

Mr. Louis DiGuardia  
June 14, 1993  
Page 5 of 6

**USEPA RECOMMENDATION:**

The third recommendation pertains to groundwater control at SWW7/8, and request that we..."incorporate measures to limit influx of groundwater over the elevation of the top of slurry wall and maintain an inward hydraulic gradient."

**RESPONSE:**

The IGR Order does not provide for remedial measures of the containment system to be taken such as hydrogeologic control modifications in the SWW7/8 area. (The Statement of Purpose of the IGR Order provides for removal and disposal of groundwater from within the containment system, as well as operation, maintenance and monitoring of the leachate collection system.) Golder is evaluating the integrity of the slurry wall as part of the SRI/FS. Any modifications to the hydrogeologic functioning of the slurry wall (other than routine pumping) should be deferred until the SRI/FS is completed. If deemed appropriate at that time, such modifications could be implemented as part of any other remedial measures that are determined to be appropriate.

**USEPA RECOMMENDATION:**

The final recommendation provides for..."a system to maintain surface water elevations (i.e., White and Wine Creek) at a determined level to support an inward gradient at the down-gradient side of the slurry wall containment system."

**RESPONSE:**

As provided above, the scope of the IGR Order does not include remedial modifications of the site, such as modification of any surface water elevation control features in White or Wine Creeks. The SRI/FS is intended to address issues associated with the integrity of the slurry wall, therefore the need for any modifications of the surface water elevation control features would be addressed as part of the SRI/FS.

Mr. Louis DiGuardia  
June 14, 1993  
Page 6 of 6

If you have any questions, please call me.

Sincerely,



Mark Valentine

MV/hg

cc: R. Ramon  
C. Berns  
A. Gupta  
PAS Management Committee  
S. Finn

projects\3023\pas6393



**O'BRIEN & GERE**

August 27, 1992

*Received on  
8/28/92*

Mr. Louis Di Guardia, OSC  
Removal Action Branch  
United States Environmental  
Protection Agency  
2890 Woodbridge Avenue  
Edison, New Jersey 08837-3679

Re: Six-Month Report  
Pollution Abatement Services Site  
Oswego, New York  
  
File: 2488.312 #2

Dear Mr. Di Guardia:

On behalf of the PAS Oswego Site Interim Ground Water Removal Trust and *de maximis, inc.*, we are providing you two copies of the *Six-Month Report, Interim Ground Water Removal Activities, Pollution Abatement Services Site, Oswego, New York.*

The report meets the requirements of the USEPA Administrative Order of Consent No II - CERCLA 10221 and summarizes the ground water and leachate removal activities detailed in the Work Plan for Interim Ground Water Activities, prepared by OBG Technical Services, Inc. dated February, 1992.

Should you have any questions concerning the report, please call Mark Valentine of *de maximis, inc.* at (615) 691-5052.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

John C. Tomik, CPG  
Managing Hydrogeologist

JCT:bdm/TEC312.29  
Enclosures

cc: SEE DISTRIBUTION

*JCT  
I have no comments  
on this report. I have  
flagged some interesting  
for you. Also. Thanks  
AJC  
8/31/92*

Mr. Louis Di Guardia, OSC  
USEPA  
August 27, 1992  
Page 2

**DISTRIBUTION:**

Mr. Mark Valentine  
*de maximis, inc.*  
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Suite 601  
Knoxville, TN 37923

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Environmental Health & Safety  
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New York, NY 10278

Carol Berns  
New York/Caribbean Superfund Branch  
Office of Regional Counsel  
U.S. EPA, Region II  
26 Federal Plaza  
New York, NY 10278



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08837

*Terri  
FYI  
Thanks!  
AM  
5/18*

MAY 7

MAY 13 1993

Mark Valentine  
Project Coordinator  
de maximus, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

- Re: ○ Six-Month Report, Interim Ground Water Removal Activities, Pollution Abatement Services (PAS) Site, Oswego, New York, August 1992; and,
- Twelve Month Report, Interim Ground Water Removal Activities, Pollution Abatement Services Site, Oswego, New York, March 1993.

Dear Mr. Valentine:

The U.S. Environmental Protection Agency (EPA) has reviewed the following reports and information pursuant to EPA's September 30, 1991 Administrative Order (Index No. II CERCLA-10221) (the "Order"), in order to evaluate the effectiveness of the monthly leachate removal rate of 20,000 gallons. The six-month evaluation period was changed to 12 months in order to accumulate enough field data to adequately evaluate the monthly pumping rate.

- Twelve Month Report, Interim Ground Water Removal Activities, Pollution Abatement Services Site, Oswego, New York, March 1993 (O'Brien & Gere, March 1993).
- Six-Month Report, Interim Ground Water Removal Activities, Pollution Abatement Services Site, Oswego, New York, August 1992 (O'Brien & Gere, August 1992).

- o Site Summary Report, Pollution Abatement Services Site, Oswego, New York, August 1992 (Geraghty & Miller, Inc., August 1992).
- o Leachate Collection System Pumping Test Data, Pollution Abatement Services Site, Oswego, NY, June 1991, (Geraghty & Miller, Inc., June 1991).
- o Monthly Progress Reports, Pollution Abatement Services Site, Oswego, NY, Interim Groundwater Removal, December 1992 -March 1993 (de maximus, inc.)
- o Subsurface Investigations of the Pollution Abatement Services Site, Oswego, NY, April 14, 1988 (U.S.EPA-ERT, April 1988).
- o Preliminary Soil Vapor Survey Report, Pollution Abatement Services Site, Oswego, NY, December 21, 1988 (U.S.EPA-ERT, December 1988).
- o Volatile Organic Compounds in the Soil Vapors and Groundwater at the Pollution Abatement Services Site, Oswego, NY, January 10, 1989 (U.S.EPA-ERT, January 1989)

In summary, conclusions drawn from review of the above reports and documents indicate:

- 1) Groundwater elevations inside the slurry wall containment system have been maintained below the top of the slurry wall.
- 2) On average, groundwater elevation changes reflect fluctuations due to seasonal affects, with the exception of the beaver dam breach which resulted in the lowering of downgradient wells as much as two feet.
- 3) An inward hydraulic gradient has continually been maintained at slurry wall well pairs SWW1/SWW2 and SWW7/SWW8. This has remained constant prior to, and after the initiation of pumping as part of this Order.
- 4) An outward hydraulic gradient has persisted at SWW11/SWW12.
- 5) Groundwater elevations at SWW7/SWW8 have been higher than the top of slurry wall, indicating possible recharge to the containment system.



The breach in the beaver dam and draining of the beaver pond precipitated a delayed lowering of water elevations of adjacent wells inside the slurry wall. O'Brien & Gere (O'Brien & Gere, August 1992) suggested this delayed response indicates the slurry wall is restricting the flow of groundwater through the containment system. EPA's interpretation differs. Wells SSW-1 and SSW-2 clearly demonstrate a restriction of flow through the slurry wall, evidenced by differences in elevation as much as 6 feet.

Comparing these wells to elevations at SSW-5/SSW-6 and SSW-11/SSW-12, and their response data to the beaver dam breach suggest to EPA that a hydraulic connection greater than the predicted design permeabilities for the slurry wall exists between inside and outside downgradient well pairs.

- 7) Leachate pumping has demonstrated to have reversed the hydraulic gradient from outward to inward at downgradient well pairs for up to two weeks following leachate pumping (i.e., SSW-5/SSW-6).
- 8) Precipitation events correspond to an increase in ground water elevations, both inside and outside the slurry wall, indicating that there may be direct recharge inside the slurry wall.
- 9) The potential for developing an inward hydraulic gradient at the downgradient side of the slurry wall is dependent upon a number of factors: seasonal water table conditions, ponding of surface water downgradient of the slurry wall, effects of leachate pumping and delayed recharge of the water table following leachate pumping.
- 10) Groundwater data from SSW-6 (Geraghty & Miller, Inc., August 1992) shows elevated concentrations of volatile organics consistent with contaminants present in the leachate, supporting the suggestion that a breach and/or breaches exist in the slurry wall containment system in this area.
- 11) Groundwater pumping at the 20,000 gallons/month rate has had limited success in reversing groundwater flow directions from outward to inward, suggesting an increase in the pumping rate or number of pumping periods may be the requirement necessary to provide this component on a long-term basis.

In general, EPA's review of the above documents points to the conclusion that, as required by the Order, the objective of analyzing, removing, treating and off-site disposal of accumulated groundwater and leachate from within the slurry wall component of the containment system has been met on a limited basis. The rate of groundwater lowering has, to date, been barely distinguishable from seasonal effects, and the monthly rate of leachate withdrawal

(i.e., 20,000 gallons) has had a limited effect on developing an inward hydraulic gradient, an additional objective of the Order.

At present, rough water balance calculations fail to correspond to the anticipated reduction of interior water volume with pumping inside the containment system, suggesting either one or a combination of the following: cap failure, slurry wall tie-in problems (causing underseepage), groundwater flowing over the slurry wall (prior to pumping), and/or slurry wall breach(es).

General design information at PAS on long-term performance data of permeate on the slurry wall or its operational lifetime is limited. In addition, measures which are capable of extending the effectiveness of the slurry wall, such as site dewatering through capping and pumping<sup>1,2,3</sup> (accomplishes the net flow of groundwater toward the interior of the wall) have not been routinely implemented. This procedure has the beneficial effect of allowing the waste/wall compatibility problems to be overcome because the wall is being permeated with groundwater and not leachate. This drain network is usually utilized as a **back-up containment measure** if, for some reason, the wall is breached

Based on these findings, EPA supports the recommendation that the following be implemented immediately:

- o Modify the pumping period from monthly to semimonthly, at the agreed upon volume of 15,000 gallons (total volume per month = 30,000 gallons). Through this expanded pumping program generate additional information to adequately evaluate pumping as required under the Removal Order, generate supplemental data to support the Supplemental Remedial Investigation (RI) in its determination of the integrity of the slurry wall, and generate on a routine basis an inward hydraulic gradient to consistently prevent off-site releases.
- o Continue studies to explore the possibility that a breach exists in the slurry wall in the vicinity of SSW-6 to SSW-12, and develop steps to be taken to prevent the continual release and migration of contaminants from this breach to the surrounding environment.

<sup>1</sup>U.S. EPA Environmental Protection Agency. Office of Research and Development. Slurry Trench Construction for Pollution Migration Control. EPA-540/2-84-001, February, 1984.

<sup>2</sup>U.S. EPA Environmental Protection Agency. Office of Research and Development. Handbook for Remedial Action at Waste Disposal Sites (Revised). EPA-625/6-85/006, October, 1985.

<sup>3</sup>U.S. EPA Environmental Protection Agency. Office of Research and Development. Leachate Plume Management. EPA-540/2-85/004, November 1985.

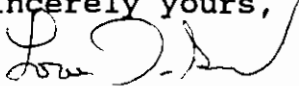
- o At SWW7/SWW8, incorporate measures to limit influx of groundwater over the elevation of the top of slurry wall and maintain an inward hydraulic gradient.
- o Incorporate a system to maintain surface water elevations (i.e., White and Wine Creek) at a determined level to support an inward hydraulic gradient at the down-gradient side of the slurry wall containment system.

EPA, as always, is open to any suggestions which may help in the interpretation of the hydrogeologic data and to effectively deal with the problems as presented by the data generated to date.

These comments are submitted pursuant to EPA's September 30, 1991 Administrative Order (Index No. II CERCLA-10221) (the "Order").

Please direct any questions regarding the comments on the Work Plan to me, EPA On-Scene Coordinator, at (908) 906-6927.

Sincerely yours,



Louis DiGuardia, On-Scene Coordinator  
Removal Action Branch

cc: R. Ramone, EPA  
C. Berns, ORC  
A.K. Gupta, NYSDEC ✓

AK

JUL 6 - 1993

Mr. Mark Valentine  
Project Manager  
de maximis, inc.  
9041 Executive Park Dr.  
Suite 401  
Knoxville, TN 37923

Dear Mr. Valentine:

RE: Pollution Abatement Service (PAS)  
SPDES Permit Modification

Per your request, enclosed is a copy of Municipal Permit Application Form "A". Also, enclosed is a copy of draft TOGS used by the Department as a guidance to review SPDES Permit modification requests from the municipalities. The permit application should include all relevant data requested as per TOGS. This information may be submitted as an attachment to the permit application.

If you have any questions, please call me at (518) 457-0927.

Sincerely,



A. K. Gupta, P.E.  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

cc: w/o enc. - R. Ramon - USEPA  
L. DiGuardia - USEPA

bcc: w/o enc. - C. Branagh  
J. Dimura

a:spdespas.wp:AKG:et

MUNICIPAL PERMIT APPLICATION FORM "A"

NY-					
FOR DEC USE ONLY					

Answer ALL Questions. Where not applicable, enter N/A.

1. Name of municipality or sewer district \_\_\_\_\_

2. If this is for renewal or modification of a NPDES or SPDES Permit, complete the following:

Permit No. NY \_\_\_\_\_ Effective Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

3. Refer all correspondence to: (Name, Title and Address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(ZIP) \_\_\_\_\_

Telephone No. (Area Code) \_\_\_\_\_ - \_\_\_\_\_

4. Is part or all of your discharge into a municipal transport system under another responsible organization? YES \_\_\_\_\_ NO \_\_\_\_\_  
(If yes, explain in the additional information section. Give the names and address of the organization, the name of the plant receiving the flow, and the amount of flow).

5. Facility Information -

A. Location:  
No. and Street \_\_\_\_\_  
City, Village, or Town \_\_\_\_\_  
County \_\_\_\_\_  
Latitude: Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. \_\_\_\_\_  
Longitude: Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. \_\_\_\_\_

B. Mailing Address (if the same as A, indicate):  
No. and Street \_\_\_\_\_  
City, Village, or Town \_\_\_\_\_

C. Describe Treatment Process -  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Plant Design Data -  
Flow (MGD): \_\_\_\_\_  
Year Plant Began Operation \_\_\_\_\_  
Year of Latest Plant Revision \_\_\_\_\_  
BOD<sub>5</sub> \_\_\_\_\_ Influent \_\_\_\_\_ mg/l; Effluent \_\_\_\_\_ mg/l \_\_\_\_\_ % Removal  
S.S. \_\_\_\_\_ Influent \_\_\_\_\_ mg/l; Effluent \_\_\_\_\_ mg/l \_\_\_\_\_ % Removal  
N.O.D. \_\_\_\_\_ Influent \_\_\_\_\_ mg/l; Effluent \_\_\_\_\_ mg/l \_\_\_\_\_ % Removal  
Phosphorus (as P) \_\_\_\_\_ Influent \_\_\_\_\_ mg/l; Effluent \_\_\_\_\_ mg/l \_\_\_\_\_ % Removal

If this is for a permit renewal, describe actions taken to comply with the compliance schedule in your present permit. (Refer to Section C - Special Conditions).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Have you applied for or received a grant for the construction of a wastewater treatment facility? YES \_\_\_\_\_ NO \_\_\_\_\_ If yes, describe \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date of application or grant award \_\_\_\_\_

10. Will your plant be phased out with your collection system becoming tributary to another publicly owned treatment works? YES \_\_\_\_\_ NO \_\_\_\_\_ If yes, which treatment works? \_\_\_\_\_

Expected date of discontinuance of discharge \_\_\_\_\_

11. Discharge Information -

A. Check the space next to parameter if it is present:

- |                                    |   |   |                                      |
|------------------------------------|---|---|--------------------------------------|
| <input type="checkbox"/> Algicides | <input type="checkbox"/> Chloride             | <input type="checkbox"/> Mercury        | <input type="checkbox"/> Silver      |
| <input type="checkbox"/> Aluminum  | <input type="checkbox"/> Chlorinated Organics | <input type="checkbox"/> Molybdenum     | <input type="checkbox"/> Sulfide     |
| <input type="checkbox"/> Antimony  | <input type="checkbox"/> Chromium             | <input type="checkbox"/> Nickel         | <input type="checkbox"/> Surfactants |
| <input type="checkbox"/> Arsenic   | <input type="checkbox"/> Cobalt               | <input type="checkbox"/> Oil and Grease | <input type="checkbox"/> Thallium    |
| <input type="checkbox"/> Barium    | <input type="checkbox"/> Copper               | <input type="checkbox"/> Pesticides     | <input type="checkbox"/> Tin         |
| <input type="checkbox"/> Beryllium | <input type="checkbox"/> Flouride             | <input type="checkbox"/> Phenols        | <input type="checkbox"/> Titanium    |
| <input type="checkbox"/> Boron     | <input type="checkbox"/> Iron                 | <input type="checkbox"/> P.C.B.'s       | <input type="checkbox"/> Zinc        |
| <input type="checkbox"/> Bromide   | <input type="checkbox"/> Lead                 | <input type="checkbox"/> Radioactivity  |                                      |
| <input type="checkbox"/> Cadmium   | <input type="checkbox"/> Manganese            | <input type="checkbox"/> Selenium       |                                      |

B. Plant Performance Data - (See next page)

Overflow and Bypass Information:

Complete a set of questions for each discharge. Include pump station overflows and frequently occurring sewer surcharges which either run overland to the stream or are relieved by pumping to the stream. Use additional pages if necessary.

Type: \_\_\_\_\_  
 Overflow \_\_\_\_\_ Bypass \_\_\_\_\_  
 Outfall No. \_\_\_\_\_  
 Facility Location:  
 Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. Longitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
 Receiving Water:  
 Name \_\_\_\_\_ Class \_\_\_\_\_  
 Frequency of Occurrence \_\_\_\_\_ Average Duration of Discharge \_\_\_\_\_ HRS.  
 Is treatment provided? YES \_\_\_\_\_ NO \_\_\_\_\_ If, yes, describe \_\_\_\_\_

Type: \_\_\_\_\_  
 Overflow \_\_\_\_\_ Bypass \_\_\_\_\_  
 Outfall No. \_\_\_\_\_  
 Facility Location:  
 Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. Longitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
 Receiving Water:  
 Name \_\_\_\_\_ Class \_\_\_\_\_  
 Frequency of Occurrence \_\_\_\_\_ Average Duration of Discharge \_\_\_\_\_ HRS.  
 Is treatment provided? YES \_\_\_\_\_ NO \_\_\_\_\_ If, yes, describe \_\_\_\_\_

Type: \_\_\_\_\_  
 Overflow \_\_\_\_\_ Bypass \_\_\_\_\_  
 Outfall No. \_\_\_\_\_  
 Facility Location:  
 Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. Longitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
 Receiving Water:  
 Name \_\_\_\_\_ Class \_\_\_\_\_  
 Frequency of Occurrence \_\_\_\_\_ Average Duration of Discharge \_\_\_\_\_ HRS.  
 Is treatment provided? YES \_\_\_\_\_ NO \_\_\_\_\_ If, yes, describe \_\_\_\_\_

Type: \_\_\_\_\_  
 Overflow \_\_\_\_\_ Bypass \_\_\_\_\_  
 Outfall No. \_\_\_\_\_  
 Facility Location:  
 Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. Longitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
 Receiving Water:  
 Name \_\_\_\_\_ Class \_\_\_\_\_  
 Frequency of Occurrence \_\_\_\_\_ Average Duration of Discharge \_\_\_\_\_ HRS.  
 Is treatment provided? YES \_\_\_\_\_ NO \_\_\_\_\_ If, yes, describe \_\_\_\_\_

Type: \_\_\_\_\_  
 Overflow \_\_\_\_\_ Bypass \_\_\_\_\_  
 Outfall No. \_\_\_\_\_  
 Facility Location:  
 Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec. Longitude \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
 Receiving Water:  
 Name \_\_\_\_\_ Class \_\_\_\_\_  
 Frequency of Occurrence \_\_\_\_\_ Average Duration of Discharge \_\_\_\_\_ HRS.  
 Is treatment provided? YES \_\_\_\_\_ NO \_\_\_\_\_ If, yes, describe \_\_\_\_\_





<u>SIC Code(s)</u>	<u>Units of Measurement</u>	<u>Industry</u>
331 .....	Ton hot metal .....	Blast furnaces.
	Ton liquid steel .....	Steelworks.
	Ton hot formed steel .....	Hot forming.
	Ton processed steel .....	Rolling and finishing mills.
332 .....	Ton metal cast .....	Iron and steel foundries.
333 .....	1,000 lb metal product .....	Primary smelting and refining of nonferrous metals.
334 .....	1,000 lb metal product .....	Secondary smelting and refining of nonferrous metals.
335 .....	1,000 lb metal processed .....	Rolling, drawing, and extruding of nonferrous metals.
336 .....	1,000 lb metal cast .....	Nonferrous foundries.
3465; 3711; 3714 ..	Unit production .....	Automobile manufacturing.
	or square feet	
4911; 4931 .....	1,000 MWh generated .....	Electric power services.
4961 .....	1 million lb steam produced .....	Steam supply.

\*A Significant Industrial User is one that meets any of the following criteria:

- A. An industry that is subject to categorical pretreatment standards (21 primary industries - see below); or
- B. A manufacturing industry that uses priority pollutants (see page 10); or
- C. An industry that has substantial impact, either singly or in combination with other contributing industries, on the operation of the treatment works; or
- D. An industry discharging more than 25,000 gallons per day of process wastes.

Industries Subject to Categorical Pretreatment Standards

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. Timber Products Processing</li> <li>2. Steam Electric</li> <li>3. Leather Tanning and Finishing</li> <li>4. Iron and Steel Manufacturing</li> <li>5. Petroleum Refining</li> <li>6. Nonferrous Metals</li> <li>7. Paving and Roofing</li> <li>8a. Paint and Ink Formulation</li> <li>8b. Printing and Publishing</li> <li>9. Ore Mining</li> <li>10. Coal Mining</li> <li>11. Organic Chemicals</li> <li>12. Inorganic Chemicals</li> <li>13. Textile Mills</li> <li>14. Plastics and Synthetic Materials</li> <li>15. Pulp and Paper</li> <li>16. Rubber</li> <li>17. Soaps and Detergents</li> <li>18. Auto and Other Laundries</li> </ul> | <ul style="list-style-type: none"> <li>19. Miscellaneous Chemicals                             <ul style="list-style-type: none"> <li>a. Pesticide Manufacturing</li> <li>b. Gum and Wood Chemicals</li> <li>c. Pharmaceutical Manufacturing</li> <li>d. Explosives Manufacturing</li> <li>e. Adhesives and Sealants</li> <li>f. Carbon Black</li> </ul> </li> <li>20. Machinery and Mechanical Products                             <ul style="list-style-type: none"> <li>a. Mechanical Products</li> <li>b. Battery Manufacturing</li> <li>c. Plastics Processing</li> <li>d. Foundries</li> <li>e. Coil Coating</li> <li>f. Porcelain Enameling</li> <li>g. Aluminum Forming</li> <li>h. Copper &amp; Copper Alloy Products</li> <li>i. Electrical &amp; Electronic Components</li> <li>j. Shipbuilding</li> <li>k. Photographic Equipment &amp; Supplies</li> </ul> </li> <li>21. Electroplating</li> </ul> |
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New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233 - 3505



Thomas C. Jorling  
Commissioner

**MEMORANDUM**

TO: Bud Frick  
FROM: Joe DiMura  
by: Angus Eaton  
SUBJECT: Proposed TOGS  
DATE: December 14, 1992

Dan Campbell asked that we prepare the attached proposed TOGS.

This TOGS would have far reaching effects on local pretreatment program coordinators. Further, the relationship between pretreatment program coordinators and DEC is largely a partnership. Because of the partnership aspect of the the DEC/local pretreatment program coordinator relationship, I recommend that, with the Division Director's approval, the proposed TOGS be circulated to approved local pretreatment program coordinators for review. If you wish, I have a mailing list for local coordinators.

This TOGS would also have some effect on the Division of Hazardous Waste Remediation (remediation site wastewaters) and the Division of Solid Waste (landfill leachate). The proposed TOGS should also be circulated to those Divisions.

If you have any questions or comments, please do not hesitate to call me or Mr. Eaton at 7-6716.

cc: John McMahon



Thomas C. Jorling  
Commissioner

MEMORANDUM **DRAFT**

TO: Regional Water Engineers, Bureau Directors, Section Chiefs

SUBJECT: Division of Water Technical and Operational Guidance Series  
NEW DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (Originator:  
Mr. DiMura)

PURPOSE

To provide guidance to regional and central office permit writers in evaluating new non-domestic discharges to Publicly Owned Treatment Works (POTWs).

DISCUSSION

The Department is mandated through 6NYCRR 754.4(g) and (i) to determine if a new discharge or a substantial change in volume or character of pollutants discharged to a POTW will require that the POTW SPDES permit be modified. In addition, through a memorandum of understanding (MOU) with the USEPA, the Division of Water shares pretreatment program oversight (approval authority) responsibility with the USEPA.

Under the combined responsibility of implementing the state regulations and fulfilling the pretreatment MOU, the Division of Water must determine if a new discharge:

- I. Is adequately characterized.
- II. Would be defined as a new discharge or a substantial change in volume or character of pollutants discharged to a POTW.
- III. Will cause the influent loading to the POTW to exceed the Maximum Allowable Influent Loading.
- IV. Will cause the POTW to discharge a pollutant or pollutants that must be regulated (limit, action level, monitoring, or other condition) in the POTW SPDES permit.
- V. Will cause the discharge of bioaccumulative and persistent toxics to surface waters through combined sewer overflows.
- VI. Will endanger POTW employee health and safety.
- VII. Will cause miscellaneous nuisance conditions.

To allow for consistent handling of POTW requests the Division of Water has prepared the New Discharger Form for submission of POTW requests. Included with this form is guidance to POTWs for how to fill out the form and determine if the form must be submitted to DEC prior to permitting the new discharge. POTWs with approved local pretreatment programs should be encouraged to make this determination.

Permit writers should also refer to the Division Hazardous Substance Regulation and the Division of Water joint memorandum on Part 364 Permits for Industrial Waste with Disposal at POTWs (copy attached).

For the most part this guidance compiles the standard operating procedures for evaluation of new discharges that is used by local pretreatment program coordinators and permit writers in evaluating new non-domestic dischargers to POTWs. However, this guidance proposes to handle new discharges of bioaccumulative and persistent toxics in a fundamentally different manner.

An untreated indirect discharge of bioaccumulative and persistent toxics tributary to a combined sewer overflow or frequent bypass is likely to be rendered undetectable by dilution prior to discharge through the overflow or bypass. For many bioaccumulative and persistent toxics, even very small amounts discharged without treatment through an overflow or bypass would cause a violation of a water quality standard. Further, future remediation may be required when those persistent substances accumulate in the downstream sediments.

For direct dischargers, the SPDES permit program has reduced non-CSO point source discharges to very low levels. The Division is frequently involved in hearing negotiations with permittees that require special monitoring programs just to detect the limited substances at permitted levels. Under the most recent SPDES program proposal, the Great Lakes Initiative, discharges of persistent and bioaccumulative toxics will be capped at present levels and new discharges of persistent and bioaccumulative toxics will be prohibited unless the discharger demonstrates compelling economic or sociological reasons for the increased discharge.

Considering the context of these other Division of Water initiatives, it would be completely incongruous to allow new dischargers to use combined sewer systems to mask the discharge of bioaccumulative and persistent toxics. Especially because such overflows would assure that, at least part of the time, those substances would not be treated at all and then tend to reconcentrate in the environment because of their persistence and bioaccumulative properties. For these reasons, the department is addressing these discharges now, rather than waiting until after potentially irrevocable environmental damage has occurred.

Except in very narrow circumstances (e.g. deminimus

discharges), restricting discharges to periods of dry weather would not be practicable or effective. CSOs don't automatically stop when it stops raining; there can be a considerable lag between the end of a rain event and when the system stops flowing, depending on the rain amounts. For dischargers of wastewater containing stormwater, this is probably when they have the most need to discharge. Further, bioaccumulative and persistent toxics would tend to concentrate in solids that settle in sewers and are subsequently discharged through combined sewer overflows. Finally, it would be extremely manpower intensive for a POTW to verify that discharges only occurred during dry weather.

In all but a few cases the only practical way to control these discharges is to require BAT/BPJ treatment at the point of discharge into the POTW.

## GUIDANCE

### I. ADEQUATE CHARACTERIZATION

Whether or not a proposed discharge is adequately characterized is dependent on the source of discharge and the amount of monitoring information and/or engineering projections of the discharge's wastewater quality. In virtually every case, initial characterization can be made using three daily composite samples analyzed for conventionals, non-conventionals and toxics. However, there will be many discharges where this is either not possible or not necessary.

Some examples of appropriate initial monitoring programs are as follows:

Landfill leachate. When a landfill is not on the DEC list of inactive hazardous waste disposal sites, the leachate can be adequately characterized by three daily composite samples for BOD, TSS, Oil and Grease, TKN, Ammonia, Iron, Phosphorus, Chlorides, Total Dissolved Solids and priority pollutants. To find out if a landfill is on the DEC list of inactive hazardous waste disposal sites, contact the Division of Hazardous Waste Remediation ((518)457-0639).

When a landfill is on the DEC list of inactive hazardous waste disposal sites and no other information is known about the site (there is no ongoing investigation), then adequate characterization requires three daily composite samples analyzed for BOD, TSS, Oil and Grease, TKN, Ammonia, Phosphorus, Chlorides, Total Dissolved Solids and all the substances listed in Appendix VII to 40 CFR Part 261.

When a landfill is on the DEC list of inactive hazardous waste disposal sites and there is an ongoing investigation, the characterization needs should be determined from the ongoing investigation.

Fuel Contaminated Wastewater. Groundwater remediation or tank waters associated with fuel contaminated wastewater should be characterized by at least one sample for Volatile organics (including xylene) and lead.

Groundwater Remediation Wastewaters. Groundwater remediation wastewater characterization needs are most frequently determined from ongoing investigations of the source(s) of contamination.

Categorical Industrial Discharge. An industry subject to a federal categorical discharge standard must, at a minimum, monitor for all of the regulated pollutants in accordance with 40 CFR 403.12.

If the permit writer receives a submission that does not provide adequate characterization of the discharge, the submission should be returned to the permittee with a summary of the additional descriptive and monitoring information necessary.

## II. IS THIS TRULY A NEW OR INCREASED DISCHARGE?

There are times when the department should be rightly excluded from review of a new discharger. Many local POTWs have approved pretreatment programs that would allow for ample review and control of new dischargers. Further, these POTWs are frequently already receiving substantial quantities of industrial waste. So, it is not always true that the acceptance of a new discharger constitutes new pollutants or a substantial change in volume or character of pollutants being introduced to the POTW as defined by State/Federal regulation and the SPDES General Conditions.

To provide for efficient, non-duplicative review of such discharges, POTWs should be allowed to accept new or increased discharges of wastes without DEC review, provided:

- (1) the waste is adequately characterized; and
- (2) for each substance believed present in the proposed discharge to the POTW at levels in excess of the levels found in domestic wastes, headworks loading analysis shows the discharge will not, in conjunction with present discharges, cause the maximum allowable headworks loading to be exceeded; and
- (3) the POTW SPDES permit contains a limit for the substance; or the substance is covered by an action level in the proposed SPDES permit and the proposed discharge would not, in conjunction with present discharges, cause the action level to be exceeded; or the new discharge to the POTW would not, in conjunction with present discharges, raise the POTW influent above 1 ppb; and
- (4) the discharge does not contain bioaccumulative and persistent toxics; and
- (5) the discharge will not endanger the health and safety of

- POTW employees; and  
(6) the discharge will not cause a nuisance (i.e. odors) or an explosive condition; and  
(7) the POTW has an approved pretreatment program.

POTWs with approved local programs are encouraged to make these determinations. However, even if the POTW determines that prior notification to the department is not necessary, they should nonetheless complete the New Discharger Form and submit it with their annual pretreatment reports.

### III. MAXIMUM ALLOWABLE INFLUENT LOADING

The Maximum Allowable Influent Loading (MAIL) for any substance is the mass loading of that substance that the POTW has determined, through engineering analysis, below which (1) SPDES permit limits will not be exceeded, (2) sludge disposal criteria will not be exceeded and (3) the processes at the POTW treatment plant will not be inhibited. EPA guidance for calculation of MAILs is contained in the document entitled Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program, USEPA, December, 1987.

The MAIL includes the loading from industrial and non-industrial sources. So, a showing that the total permitted loads to the facility do not exceed the MAIL is not adequate. The total permitted loads plus the non-industrial loads must be less than the MAIL.

Further, the MAIL for any one substance may originally have been calculated without the benefit of a permit limit for that substance (e.g. the MAIL may have been based on sludge criteria or inhibition). So, a showing that the MAIL would not be violated when the substance is not limited by the permit, is not adequate if the proposed discharge would require that the permit be modified to include such a limit.

The MAIL for conventional pollutants and flows is the design rating for the POTW treatment plant.

If the proposed discharge would cause the MAIL to be exceeded, it must be prohibited.

### IV. NEW SPDES PERMIT CONDITIONS NEEDED

Upon review of a New Discharger Form, the permit writer must determine whether the POTW may accept the wastewaters without further delay or whether the POTW SPDES permit must be modified prior to acceptance of the wastewater. If the SPDES permit must be modified, the SPDES regulations require that the POTW be prohibited from accepting the new discharge until the permit has been

modified.

There are three basic considerations in determining if the permit must be modified as follows:

(1) If the proposed discharge to the POTW will result in the discharge from the POTW of a substance that must be limited or subject to an action level or other monitoring;

(2) If the proposed discharge presents a potential nuisance explosive condition that could be controlled through the SPDES permit (see VII. below); or

(3) If the proposed discharge contains bioaccumulative and persistent toxics and is tributary to a combined sewer overflow or frequent bypass point (see V. below).

#### V. BIOACCUMULATIVE AND PERSISTENT TOXICS TO CSOS

When a permit writer is notified of a proposed discharge of bioaccumulative and persistent toxics to a combined sewer system, the permit writer should require treatment for bioaccumulative and persistent toxics to the levels equivalent to BAT. As a guide to what is bioaccumulative and persistent the permit writer should use the preliminary list that the USEPA and the eight Great Lakes States developed under the Great Lakes Initiative (a copy of that list is attached).

At least one exception should be noted herein; Phthalate esters in trace amounts may also be problematic because they are both ubiquitous and frequent sample contaminators.

As a guide to BAT/BpJ treatment levels, the permit writer should refer to the NYSDEC Division of Water Technical and Operational Guidance Series 1.3.4 (BPJ Methodologies) and 1.3.4.A (BPJ Methodologies/Amendments).

#### VI. POTW EMPLOYEE HEALTH AND SAFETY

A proposed discharge may cause enclosed space type dangers to employees of the POTW at pump stations, sewers, manholes, etc. The EPA Manual entitled Guidance to Protect POTW Workers from Toxic and Reactive Gases and Vapors - June, 1992 can be used to evaluate these types of discharges.

#### VII. NUISANCE OR EXPLOSIVE CONDITIONS

A proposed discharge may cause odors if the point of introduction to the POTW is poorly chosen. Examples of this are (1) the introduction of septic wastes to a manhole in a heavily trafficked area, (2) the introduction of septic wastes to the POTW treatment plant in a sloppy manner or (3) introduction of a volatile chemical waste where vapors from the waste can back up



into basements or otherwise affect the public.

A proposed discharge may also pose an explosive threat. The Guidance Manual on Development and Implementation of Local Discharge Limitations Under the Pretreatment Program, USEPA, December, 1987, Chapter 4 and table 4-2 provide screening techniques for explosive substances. Discharges with closed cup flashpoints less than 140 degrees F are not allowed.

GUIDANCE FOR ACCEPTANCE OF NEW DISCHARGES  
AND DEC NOTIFICATION

Under General Condition 1(c) of SPDES permits and 6 NYCRR Part 754.4(g), POTWs are required to notify the Department when they will be accepting 'new or increased discharges of pollutants'. This guidance is intended to (1) assist POTW personnel in judging what constitutes 'new or increased discharges of pollutants' as set forth in General Condition 1(c) and 6 NYCRR Part 754.4(g), (2) assist POTWs in judging when a waste is adequately characterized and (3) preparing notifications to the Department of 'new or increased discharges of pollutants'.

I. IS THIS TRULY A NEW OR INCREASED DISCHARGE?

There are times when the department should be rightly excluded from review of a new discharge. Many local POTWs have approved pretreatment programs that would allow for ample review and control of new discharges. Further, these POTWs are frequently already receiving substantial quantities of industrial waste. So, it is not always true that the acceptance of a new discharger constitutes new pollutants or a substantial change in volume or character of pollutants being introduced to the POTW as defined by State/Federal regulation and the SPDES General Conditions.

To provide for efficient, non-duplicative review of such discharges the Division of Water, POTWs should be allowed to accept new or increased discharges of wastes without DEC review provided:

- (1) the waste is adequately characterized; and
- (2) for each substance believed present in the proposed discharge to the POTW at levels in excess of the levels found in domestic wastes, headworks loading analysis shows the discharge will not, in conjunction with present discharges, cause the maximum allowable headworks loading to be exceeded; and
- (3) the POTW SPDES permit contains a limit for the substance; or the substance is covered by an action level in the POTW's SPDES permit and the proposed discharge would not, in conjunction with present discharges, cause the action level to be exceeded; or the new discharge to the POTW would not, in conjunction with present discharges, raise the POTW influent above 1 ppb; and
- (4) the discharge does not contain bioaccumulative and persistent toxics; and
- (5) the discharge will not endanger the health and safety of POTW employees; and
- (6) the discharge will not cause a nuisance (i.e. odors) or an explosive condition; and
- (7) the POTW has an approved pretreatment program.

POTWs with approved local pretreatment programs are encouraged to make these determinations. However, even if the POTW determines that prior notification to the department is not necessary, they should nonetheless complete the New Discharge Form and submit it with their annual pretreatment reports.

## II. ADEQUATE CHARACTERIZATION

Whether or not a proposed discharge is adequately characterized is dependent on the source of discharge and the amount of monitoring information and/or engineering projections of the discharge's wastewater quality. In virtually every case, initial characterization can be made using three daily composite samples analyzed for conventionals, non-conventionals and toxics. However, there will be many discharges where this is either not possible or not necessary.

Some examples of appropriate monitoring programs are as follows:

Landfill leachate. When a landfill is not on the DEC list of inactive hazardous waste disposal sites, the leachate can be adequately characterized by three daily composite samples for BOD, TSS, Oil and Grease, TKN, Ammonia, Iron, Phosphorus, Chlorides, Total Dissolved Solids and priority pollutants. To find out if a landfill is on the DEC list of inactive hazardous waste disposal sites, contact the Division of Hazardous Waste Remediation ((518) 457-0639).

When a landfill is on the DEC list of inactive hazardous waste disposal sites and no other information is known about the site (there is no ongoing investigation), then adequate characterization requires three daily composite samples analyzed for BOD, TSS, Oil and Grease, TKN, Ammonia, Phosphorus, Chlorides, Total Dissolved Solids, and all the substances listed in Appendix VIII to 40 CFR Part 261.

When a landfill is on the DEC list of inactive hazardous waste disposal sites and there is an ongoing investigation, the characterization needs should be determined from the ongoing investigation.

Fuel Contaminated Wastewater. Groundwater remediation or tank waters associated with fuel contaminated wastewater should be characterized by at least one sample for volatile organics (including xylene) and lead.

Groundwater Remediation Wastewaters. Groundwater remediation wastewater characterization needs are most frequently determined from ongoing investigations of the source(s) of contamination.

Categorical Industrial Discharge. An industry subject to a

federal categorical discharge standard must, at a minimum, monitor for the parameters limited by the standard for one day.

### III. NOTIFICATION TO THE DEPARTMENT

Submission of the following information by the POTW should, in most cases, allow the Department to advise the POTW of any SPDES permit modifications or other requirements which would be necessary before the POTW accepts new or increased non-domestic discharges. The attached form is provided to summarize the information required in items 10 and 11.

1. Provide a letter from the POTW to the Department which either contains the information in items 2 through 11 or endorses the attached work of a licensed New York State Professional Engineer which the POTW has retained to prepare the information on it's behalf.
2. Provide the name and location of the source of the proposed discharge.
3. Provide a brief description of the source of the proposed discharge.
4. State when the discharge is proposed to commence.
5. Indicate whether or not the proposed discharge is a hazardous waste and, if hazardous, whether it is a "listed" or "characteristic" hazardous waste. Explain the basis of this determination.
6. Identify how the proposed discharge will be conveyed from the source to the POTW.
7. Identify where and in what manner the proposed discharge will be introduced into the POTW.
8. List the substances for which the proposed discharge has been analyzed.
9. Specify the quantity of the proposed discharge which will be introduced into the POTW. Provide daily average and daily maximum flow rates in GPD and instantaneous peak flow rates in GPM.
10. Provide a thorough description of the quality of the proposed discharge to the POTW (i.e., provide a waste characterization). Conventional, toxic, and nonconventional pollutants must be considered. The average and maximum anticipated concentrations of substances believed present in the proposed discharge must be identified. If available, sample results should be provided in support of the

characterization. Sample results must include a description of where and how the samples were collected and a discussion of the reliability of the results. A submission consisting only of sample result data sheets, with no engineering analysis of the data thereon, is not acceptable.

11. For each of the substances believed present in the proposed discharge, provide an updated POTW headworks analysis showing the current influent load, the maximum allowable influent load, and the influent load including the leachate. When completing items 10, 11, 12, you may wish to consult the Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program, USEPA, December 1987.
12. Discuss whether or not pretreatment of the proposed discharge will be required in order to meet the following:
  - a. the POTW's current sewer use ordinance,
  - b. the requirements of 40 CFR 403.5 (National Pretreatment Standards: Prohibited Discharges) and any local discharge limits developed thereunder,
  - c. the maximum allowable POTW influent loads from item 11, and
  - d. the effluent limitations in the POTW's current SPDES permit.
13. Discuss anticipated changes in the quantity or quality of the effluent discharged from the POTW if the (pretreated) wastewater is accepted for treatment by the POTW. For each of the substances believed present in the wastewater and/or limited by the POTW's SPDES permit, average and maximum anticipated POTW effluent concentrations during discharge of the treated wastewater should be provided.
14. Discuss proposed control procedures (permits/contracts, permit limits, monitoring, etc.) which the POTW will impose on the new or increased discharge. The POTW should also indicate whether or not a new discharge is proposed for classification as a Significant Industrial User (SIU) and provide the basis for that proposal. It should be noted that as a consequence of review of the information submitted, the Department may require the POTW to designate the discharge as an SIU, even though the POTW does not initially propose SIU designation.



**BIO-ACCUMULATIVE / PERSISTENT TOXICS**  
(for Factor No. 5)

This list of pollutants has been identified by the USEPA and the eight Great Lakes States through the effort known as the Great Lakes Initiative. It represents Toxic Substances (organic & inorganic) which have a measured or calculated human health bio-accumulation factor of 1,000 or greater. The approval date of this list is 12/6/91.

CAS#	HHBAF*	NAME
56-55-3	396,198	1,2-Benzanthracene; benz(a)anthracene
634-66-2	8,250	1,2,3,4-Tetrachlorobenzene
120-82-1	1,003	1,2,4-Trichlorobenzene
95-94-3	5,872	1,2,4,5-Tetrachlorobenzene
53-70-3	7,895 to 4,894,800	1,2,5,6-Dibenzanthracene; dibenz(a,h) anthracene
191-24-2	7,895 to 7,894,800	1,12-Benzoperylene; benzo(ghi) perylene
1746-01-6	60,000	2,3,7,8-TCDD
205-99-2	1,611,450	3,4-Benzofluoranthene; benzo(b)fluoranthene
101-55-3	18,638	4-Bromophenyl phenyl ether
7005-72-3	1,759	4-Chlorophenyl phenyl ether
72-54-8	486,804	4,4'-DDD; p,p'-DDD; 4,4'-TDE; p,p'-TDE
72-55-9	9,128,274	4,4'-DDE; p,p'-DDE
50-29-3	2,296,650	4,4'-DDT; p,p'-DDT
207-08-9	1,611,450	11, 12-Benzofluoranthene; benzo(k)fluoranthene
309-00-2	1,157,358	Aldrin
319-84-6	1,954	alpha-Hexachlorocyclohexane; alpha-BHC
120-12-7	1,354	Anthracene
50-32-8	1,199,970	Benzo(a)pyrene; 3,4-benzopyrene
319-85-7	1,954	beta-Hexachlorocyclohexane; beta-BHC
85-68-7	1,160	Butyl benzyl phthalate
57-74-9	263,250	Chlordane (also CAS# 12789-03-6)
218-01-09	243,156	Chrysene
117-81-7	14.25 to 14,250	DEHP; di(2-ethylhexyl) phthalate
319-86-8	1,954	delta-Hexachlorocyclohexane; delta-BHC

\* Human Health Bio-accumulation Factor

(continued)

CAS#	HHBAF*	NAME
84-74-2	3,115	Dibutyl phthalate; di-n-butyl phthalate
60-57-1	33,805	Dieldrin
117-84-0	41.25 to 14,250	Dioctyl phthalate; di-n-octyl phthalate
72-20-8	7,458	Endrin
206-44-0	10,950	Fluoranthene
86-73-7	1,929	Fluorene; 9H-fluorene
1024-57-3	12,507	Heptachlor epoxide
76-44-8	22,916	Heptachlor
118-74-1	250,308	Hexachlorobenzene
87-68-3	3,038	Hexachlorobutadiene; hexachloro-1,3-butadiene
608-73-1	1,954	Hexachlorocyclohexane; BHC
67-72-1	1,139	Hexachloroethane
193-39-5	4,997 to 4,996,800	Indeno(1,2,3-cd)pyrene; 2,3-o-phenylene pyrene
58-89-9	1,954	Lindane; gamma-BHC; gamma-hexachlorocyclohexane
7439-97-6	130,440	Mercury
72-43-5	3,338	Methoxychlor
2385-85-5	5,969,130	Mirex; dechlorane
29082-74-4	2,315,538	Octachlorostyrene
A21000-00-0	2,132,232	PCBs; polychlorinated biphenyls
608-93-5	19,530	Pentachlorobenzene
85-01-8	4,805	Phenanthrene
108-95-2	2,073	Phenol
39801-14-4	2,791,446	Photomirex
129-00-0	10,669	Pyrene
8001-35-2	2,540,940	Toxaphene

\* Human Health Bio-accumulation Factor





Thomas C. Jorling  
Commissioner

MEMORANDUM

TO: Attached Distribution List  
FROM: Sal Pagano, DOW  
N. G. Kaul, DHSR  
SUBJECT: Part 364 Permits for Industrial Waste with Disposal at POTWs  
DATE: April 23, 1992

We are in agreement that no Part 364 Permit should be issued for the disposal of Industrial Waste at a POTW without the specific prior approval of the Regional Water Engineer. The Department is presently evaluating the issuance of 364 Permits for Septage and we have consequently not incorporated those permits in this memo. We may consider some form of STP Operator Certification in lieu of DEC review and approval for septage hauled to sewage treatment plants in the future.

Attached is a memorandum from the DOW to their field staff about the technical considerations for this review.

It will be the responsibility of the POTW permittee or the Part 364 permittee to provide the Department staff with the necessary engineering evaluation of the impact on the POTW of the new Part 364 permit discharge.

DBH:mak

Attachment

cc: Dan Campbell  
Dan Halton  
Regional Water Engineers  
B. Becherer, Region 1  
S. Jagirdar, Region 2  
A. Shah, Region 3  
C. VanGuilder, Region 4  
D. Curtis, Region 5  
T. Morgan, Region 6  
S. Eidt, Region 7  
D. Rollins, Region 8  
F. Shattuck, Region 9  
D. Mafrici  
R. Haggerty  
A. Snyder



Thomas C. Jorling  
Commissioner

MEMORANDUM

TO: Regional Water Engineers *D. H.*  
FROM: Daniel Halton, BWFD  
SUBJECT: Approval of 364 Permits Discharging to POTWs  
DATE: April 9, 1992

In recent months the issue of proper review and approval of discharge of hauled waste (Part 364 Waste Transport permits) was surfaced by Region 3. (See attached February 13, 1992 memo by Peg Duke). In certain cases the approval of these permits have occurred without review/approval of the Division of Water or consideration to important technical concerns that must be addressed. (See February 26, 1986 memo by C. Manfredi). This issue has been discussed with Norm Drapeau and Bob Haggerty from the Division of Hazardous Substance Regulation. We agreed that all Part 364 permit requests to discharge industrial waste at a POTW or municipal sewer system must receive prior approval from the Regional Water Engineer or his staff.

This Bureau supports Cesare Manfredi's memo of February 24, 1986. However, there are now two additional considerations that must be addressed. The Department should explicitly prohibit the receiving of hauled waste at any location in a collection system upstream of combined sewer overflow.

In addition, the federal pretreatment regulations under specific discharge prohibition 40CFR 403.5(b)(8) prohibits the discharge of trucked or hauled waste to sanitary sewers except at points designated by the Control Authority (i.e. POTW). A copy of this regulation is attached.

The new edition of "Ten States Standards" now has an Appendix on handling and receiving of septage at a treatment plant. I have attached copies of the pages from this Appendix. BWFD has ordered multiple copies of these new "Ten State Standards" and we expect to send each region a few copies in the future.

Another good document on septage handling and treatment is the EPA Handbook - Septage Treatment and Disposal. In general, this Bureau's position is that septage should be received and handled at the treatment plant location and not upstream in the collection system. However, the Regional Water Engineer can use best professional judgment in approving receiving locations.

Please note that the acceptance at POTWs of various leachates from solid and hazardous waste remediation sites has come to the forefront as a policy issue needing further guidance. This Bureau will be developing additional written guidance on this subject

during the next fiscal year. In the mean time, these leachates will be considered to be industrial wastes and must be approved by the DOW.

If you have any questions, please call Joe DiMura at 457-6716.

DBH:JD:mak



New York State Department of Environmental Conservation

MEMORANDUM

TO: AL KLAUSS, HAZARDOUS REMEDIATION  
FROM: PEG DUKE, DIVISION OF REGULATORY AFFAIRS  
SUBJECT: CESARE J. MANFREDI  
364 PERMITS/STP'S REGION 3  
DATE: FEBRUARY 13, 1992

---

It has come to my attention that Region 3 staff who review and process 364 Permits with STP's as a disposal site have either NO knowledge of Water's requirements or NO full understanding of Water's requirements.

Attached are Water's requirements, dated February 24, 1986. They remain unchanged. These requirements are especially important for industrial wastes which apparently are done out of the Central Office. It is imperative that Water's concerns are addressed when an industrial waste is involved.

Please note that if the STP that is to receive the waste is in another Region, then only the Water Engineer for that specific Region can review and approve the STP as a disposal facility.

CJM:sec

CC: Water Engineers 1, 2, 4, 5, 6, 7, 8, 9  
Sal Pagano  
Ralph Manna

-State Department of Environmental Conservation

MEMORANDUM

TO: Ralph Manna, Division of Regulatory Affairs, Region 3, New Paltz  
FROM: Cesare Manfredi, Division of Water, Region 3, White Plains  
SUBJECT: SEWAGE TREATMENT PLANTS AND 364 PERMITS  
DATE: February 24, 1986

It has become essential to add one more requirement to the letter from Town Supervisor (Village Mayor etc.) regarding waste to sewage treatment plants. The letter needs to include:

- (1) Location of discharge to STP system.
- (2) Calculations showing STP capable of handling increase in BOD, solids and industrial loading.
- (3) Statement that the STP sludge production will be handled appropriately.
- (4) Total maximum amount of all trucked wastes to be received at the STP for each day and how to be allocated to all users.
- (5) Statement that compliance with SPDES Permit limits will be maintained.
- (6) Statement that the waste will comply with all provisions of the municipal sewer use ordinance.

All approvals will be by this writer.

You will also note that the word septage has been replaced by waste so that we cover any possibility such as industrial or leachate waste.

CJM: bz

cc: Al Klause  
Rich Gardiner  
James Reidy  
Joe Marcogliese

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# **Recommended Standards for WASTEWATER FACILITIES**

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**POLICIES FOR THE DESIGN, REVIEW, AND APPROVAL OF PLANS AND SPECIFICATIONS  
FOR WASTEWATER COLLECTION AND TREATMENT FACILITIES**

**·1990 EDITION**

**A REPORT OF THE WASTEWATER COMMITTEE**

**OF THE**

**GREAT LAKES — UPPER MISSISSIPPI RIVER**

**BOARD OF STATE PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS**

**MEMBER STATES AND PROVINCE**

**ILLINOIS  
INDIANA  
IOWA  
MICHIGAN  
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**NEW YORK  
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WISCONSIN**

**PUBLISHED BY: Health Education Services**

**P.O. Box 7126**

**Albany, N.Y. 12224**

**Phone: (518) 439-7286**

**APPENDIX  
HANDLING AND TREATMENT OF SEPTAGE  
AT A  
WASTEWATER TREATMENT PLANT**

**GENERAL**

One method of septage disposal is the discharge to a municipal or district wastewater treatment plant (WWTP). The handling and treatment of septage received at a WWTP is the subject of this appendix.

**Septage Defined**

Septage is a general term for the contents removed from septic tanks, portable vault toilets, privy vaults, holding tanks, grease traps, very small wastewater treatment plants, or semi-public facilities (i.e., schools, motels, mobile home parks, campgrounds, small commercial endeavors) receiving wastewater from domestic sources.

Nondomestic (industrial) wastes are not included in the definition and are not covered by this appendix.

**Septage Characteristics**

Compared to raw domestic wastewater from a conventional municipal sewer collection system, septage usually is quite high in organic, grease, and-solids concentrations. Substantial quantities of phosphorus, ammonia nitrogen, bacterial growth inhibitors, and cleaning materials may be present in septage depending on the source. Tables No. 1 and No. 2 (Tables 3-4 and 3-8 from the U.S. EPA Handbook entitled "Septage Treatment and Disposal" 1984, EPA-625/6-84-009 reprinted herein) give a comparison of some of the common parameters for septage and municipal wastewater. Characteristics of septage may be expected to vary widely from load to load depending on the source (i.e., septic tank pumpage compared to grease traps or to recreational vehicles, or dump station holding tanks containing bacteria inhibitors).

**Treatment of Septage at a WWTP**

Septage is normally considered treatable at a WWTP. However, unless proper engineering planning and design is provided, septage may represent a shock loading or have other adverse impacts on plant processes and effluent quality which will be influenced by many factors including the following:

- a. Capacity (MGD) ( $m^3/d$ ) of the WWTP relative to the amount and rate of septage feed to the plant;
- b. Unused WWTP capacity available (above current sewer collection system loadings) to treat septage loadings;
- c. Sensitivity of the treatment plant process to daily fluctuations in loadings brought about by the addition of septage;
- d. Slug septage loadings of BOD, ammonia or phosphorus which may cause process upset, pass through to effluent, odor nuisance or other problems such as foaming aeration tank/aerated digester;
- a. The point of introduction of the septage into the WWTP process. Feasible alternative points of feed to the WWTP units shall be evaluated including feed to the sludge processing units provided the unit function will not be adversely affected;

## HANDLING AND TREATMENT OF SEPTAGE AT A WASTEWATER TREATMENT PLANT

## APPENDIX

- f. The ability to control feed rates of septage to the WWTP during off peak loading periods; and,
- g. The volume and concentrations of bacterial growth inhibitors in septage from some portable vault toilets and recreational dump station holding tanks.

The permitted plant effluent regulatory limits for the WWTP on each of the controlled parameters must be considered when evaluating these factors.

### WWTP Facilities Considered for Septage Treatment

It is essential that an adequate engineering evaluation be made of the existing WWTP and the anticipated septage loading being considered prior to receiving septage at the WWTP. The regulatory agency shall be contacted to obtain the appropriate approvals prior to the acceptance of septage. For proposed WWTP expansion and upgrading, the engineering report or facility plan (refer to Chapter 10), shall include anticipated septage loading in addressing treatment plant sizing and process selection. The following items should be included as appropriate in the engineering evaluation and facility planning:

- a. The uninterrupted and satisfactory treatment (within the plant regulatory limits) of wasteloads from the sewer system must not be adversely affected by the addition of septage to the plant;
- b. In general, the smaller the WWTP design capacity relative to the septage loading proposed, the more subject the WWTP will be to upset and potential violation of permitted discharge effluent limits;
- c. Allocation of organic plant capacity originally planned for future growth;
- d. For plants to be expanded and upgraded, the engineering evaluation and facility planning should jointly consider the sensitivity of the WWTP process to receiving of septage, and the impact on the discharge parameter limits;
- e. An evaluation of available WWTP operator staff and the staffing requirements necessary when septage is to be received. Staff should be present when septage is being received and unloaded. Added laboratory work associated with the receiving of septage for treatment should be included in the staffing evaluation;
- f. The space for constructing septage receiving facilities that are to be off-line from the raw wastewater incoming from the sewer system. The location of the septage receiving facility and the septage hauler unloading area should consider other plant activity, and traffic flow; and.
- g. The impact of the septage handling and treatment on the WWTP sludge handling and processing units and ultimate sludge disposal procedures.

### WWTP Septage Receiving Facility

The design of the septage receiving station at the WWTP should provide for the following elements:

- a. Hard surface haul truck unloading ramp sloped to a drain to allow ready cleaning of any spillage and washing of the haul tank, connector hoses, and fittings. The ramp drainage must be tributary to treatment facilities and shall exclude excessive stormwater;



**HANDLING AND TREATMENT OF SEPTAGE AT A  
WASTEWATER TREATMENT PLANT**

**APPENDIX**

- b. A flexible hose fitted with easy connect coupling to provide for direct connection from the haul truck outlet to minimize spillage and help control odors;
- c. Washdown water with ample pressure, hose, and spray nozzle for convenient cleaning of the septage receiving station and haul trucks. The use of chlorinated WWTP effluent may be considered for this purpose. If a potable water source is used, it must be protected in accordance with Section 56 of these Recommended Standards;
- d. An adequate off-line septage receiving tank should be provided. Capability to collect a representative sample of any truck load of waste accepted for discharge at the WWTP shall be provided. The receiving tank should be designed to provide complete draining and cleaning by means of a sloped bottom equipped with a drain sump. The design should give consideration to adequate mixing, for testing, uniformity of septage strength, and chemical addition, if necessary, for treatability and odor control. The WWTP shall have authority to prevent and/or stop discharge that is likely to cause WWTP discharge violation;
- e. Screening, grit, and grease removal of the septage as appropriate to protect the WWTP treatment units;
- f. Pumps provided for handling the septage should be of the nondlogging design and capable of passing 3-inch (76.2 mm) diameter solids;
- g. Valving end piping for operational flexibility to allow the control of the flow rate and point of discharge of the septage to the WWTP;
- h. Safety features to protect the operational personnel. Refer to Section 57; and
- i. Laboratory and staffing capability to determine the septage strength and/or toxicity to the WWTP treatment processes. Provision for the WWTP operation reports to include the plant load attributed to septage.

WA:ts/1446n and 1477n

APPENDIX

TABLE NO. 1\*

PHYSICAL AND CHEMICAL CHARACTERISTICS OF SEPTAGE, AS FOUND IN THE LITERATURE, WITH SUGGESTED DESIGN VALUES<sup>a,b</sup>

Parameter	United States (5) (9-19)				Europe/Canada (4) (20)				Suggested Design Value	
	Average	Minimum	Maximum	Variance	Average	Minimum	Maximum	Variance		
TS	34,106	1,132	130,475	115	33,800	200	123,860	619	36,800	40,000
TVS	23,100	353	71,402	202	31,600	160	87,570	422	25,260	25,000
TSS	12,862	310	93,370	301	45,000	5,000	70,920	14	13,000	15,000
VSS	9,027	95	51,500	542	29,900	4,000	52,370	13	8,720	10,000
BOD <sub>5</sub>	6,480	440	78,600	179	8,343	700	25,000	36	5,000	7,000
COO	31,900	1,500	703,000	469	28,975	1,300	114,870	88	42,850	15,000
TKN	588	66	1,060	16	1,067	150	2,570	17	677	700
NH <sub>3</sub> -N	97	3	116	39	—	—	—	—	157	150
Total P	210	20	760	38	155	20	636	32	253	250
Alkalinity	970	522	4,190	8	—	—	—	—	—	1,000
Grease	5,600	208	23,368	112	—	—	—	—	9,080	8,000
pH	—	1.5	12.8	8	—	5.2	9.0	—	6.9	6.0
LAS	—	110	200	2	—	—	—	—	157	150

<sup>a</sup> Values expressed as mg/L, except for pH.

<sup>b</sup> The data presented in this table were compiled from many sources. The inconsistency of individual data sets results in some skewing of the data and discrepancies when individual parameters are compared. This is taken into account in offering suggested design values.

\* Table No. 1 including footnotes is taken from the USEPA Handbook entitled "Septage Treatment and Disposal", 1994, EPA-625/R-94-009 and is designated in that document as Table 3-4".

**APPENDIX**

**TABLE NO. 2<sup>a</sup>**

**COMPARISON OF SEPTAGE AND MUNICIPAL WASTEWATER<sup>a</sup>**

<b>Parameter</b>	<b>Septage<sup>b</sup></b>	<b>Wastewater<sup>c</sup></b>	<b>Ratio of Septage to Wastewater</b>
TS	40,000	720	55:1
TVS	25,000	365	68:1
TSS	15,000	220	68:1
VSS	10,000	165	61:1
BOD <sub>5</sub>	7,000	220	32:1
COD	15,000	500	30:1
TKN	700	40	17:1
NH <sub>3</sub> -N	150	25	6:1
Total P	250	8	31:1
Alkalinity	1,000	100	10:1
Grease	6,000	100	60:1
pH	6.0	---	---
LAS	150	---	---

<sup>a</sup> Values expressed as mg/L, except for pH.

<sup>b</sup> Based on suggested design values in Table No. 1 (USEPA Table 3-4).

<sup>c</sup> From Metcalf and Eddy, 2nd Edition, "medium strength sewage".

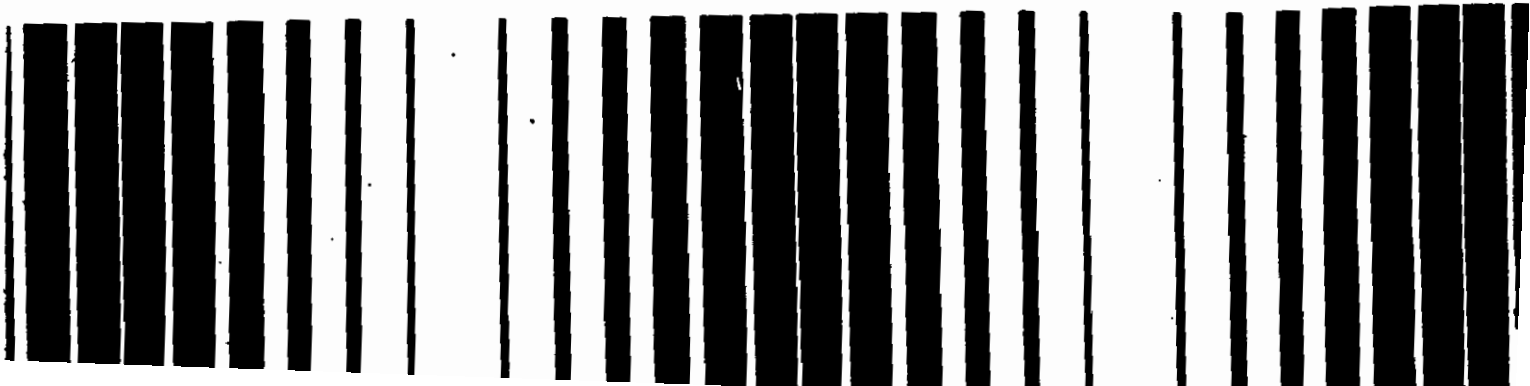
<sup>d</sup> Table No. 2 including footnotes is taken from the USEPA Handbook entitled "Septage Treatment and Disposal", 1984, EPA-625/6-84-009 and is designated in that document as "Table 3-8".

Technology Transfer



# Handbook

## Septage Treatment and Disposal



EPA-625/6-84-009

HANDBOOK  
SEPTAGE TREATMENT AND DISPOSAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

Municipal Environmental Research Laboratory  
Center for Environmental Research Information

Cincinnati, Ohio 45268

October 1984

... Act of 1987, secs. 2002 and 3018(d) of the Solid Waste Disposal Act as amended.

2. Section 403.3 is amended by redesignating existing paragraph (t) as paragraph (u) and adding new paragraph (l) to read as follows:

**§ 403.3 Definitions.**

(t) **Significant Industrial User.** (1) Except as provided in paragraph (t)(2) of this section, the term Significant Industrial User means:

(i) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and

(ii) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.6(f)(6)).

(2) Upon a finding that an industrial user meeting the criteria in paragraph (t)(1)(ii) of this section has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority (as defined in 40 CFR 403.12(a)) may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.6(f)(6), determine that such industrial user is not a significant industrial user.

3. Section 403.5 is amended by revising paragraphs (a)(2) introductory text, (b)(1), and (e), adding text to the end of (c)(1), and adding new paragraphs (b)(6), (b)(7), and (b)(8) to read as follows:

**§ 403.5 National Pretreatment Standards: Prohibited Discharges.**

(a) \* \* \*

(2) **Affirmative Defenses.** A User shall have an affirmative defense in any action brought against it alleging a violation of the general prohibitions established in paragraph (a)(1) of this section and the specific prohibitions in paragraphs (b)(3), (b)(4), (b)(5), (b)(6),

and (b)(7) of this section where the User can demonstrate that:

(b) \* \* \*

(1) Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 281.21.

(6) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

(8) Any trucked or hauled pollutants, except at discharge points designated by the POTW.

(c) \* \* \*

(1) \* \* \* Each POTW with an approved pretreatment program shall continue to develop these limits as necessary and effectively enforce such limits.

(e) EPA enforcement actions under section 309(f) of the Clean Water Act. If, within 30 days after notice of an Interference or Pass Through violation has been sent by EPA to the POTW, and to persons or groups who have requested such notice, the POTW fails to commence appropriate enforcement action to correct the violation, EPA may take appropriate enforcement action under the authority provided in section 309(f) of the Clean Water Act.

4. Section 403.6 is amended by revising the introductory text to read as follows:

**§ 403.6 National Pretreatment Standards: Categorical Standards.**

National pretreatment standards specifying quantities or concentrations of pollutants or pollutant properties which may be discharged to a POTW by existing or new industrial users in specific industrial subcategories will be established as separate regulations under the appropriate subpart of 40 CFR chapter I, subchapter N. These standards, unless specifically noted otherwise, shall be in addition to all applicable pretreatment standards and requirements set forth in this part.

5. Section 403.8 is amended by revising the section heading, the introductory text to paragraph (f), paragraphs (f)(1)(iii), (f)(1)(vi)(B),

(f)(2)(v), and (f)(2)(vii), adding text to the end of (f)(2)(iii), and adding new paragraphs (f)(5) and (f)(6) to read as follows:

**§ 403.8 Pretreatment Program Requirements: Development and Implementation by POTW.**

(f) **POTW pretreatment requirements.** A POTW pretreatment program must be based on the following legal authority and include the following procedures. These authorities and procedures shall at all times be fully and effectively exercised and implemented.

(1) \* \* \*

(iii) Control through permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements. In the case of Industrial Users identified as significant under 40 CFR 403.3(t), this control shall be achieved through permits or equivalent individual control mechanisms issued to each such user. Such control mechanisms must be enforceable and contain, at a minimum, the following conditions:

(A) Statement of duration (in no case more than five years);

(B) Statement of non-transferrability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;

(C) Effluent limits based on applicable general pretreatment standards in part 403 of this chapter, categorical pretreatment standards, local limits, and State and local law;

(D) Self-monitoring, sampling, reporting, notification and recordkeeping requirements, including an identification of the pollutants to be monitored, sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in part 403 of this chapter, categorical pretreatment standards, local limits, and State and local law;

(E) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond applicable federal deadlines.

(vi) \* \* \*

(B) Pretreatment requirements which will be enforced through the remedies set forth in paragraph (f)(1)(vi)(A) of this section, will include but not be limited to, the duty to allow or carry out inspections, entry, or monitoring activities; any rules, regulations, or



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
JACOB K. JAVITS FEDERAL BUILDING  
NEW YORK, NEW YORK 10278

AKG  
Did we get draft  
RI?  
I 7/2/93  
~~Not yet.~~  
As  
7/6/93

JUN 22 1993

Mr. Raymond Lupe, P.E., Chief  
Central Remedial Section  
Bureau of Central Remedial Action  
Division of Hazardous Waste Remediation  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

Mr. Gerald Rider, Jr., P.E., Chief  
Operation and Maintenance Section  
Bureau of Construction Services  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

JUN 24

Dear Messrs. Lupe and Rider:

As you are aware, it is our intention to sign a Record of Decision for the Pollution Abatement Services site by September 30, 1993. The potentially responsible parties (PRPs) have agreed to ask their contractor to accelerate its preparation of the draft remedial investigation (RI) and feasibility study (FS) reports so as to facilitate the release of a final RI/FS report to the public by mid-August 1993. So that the PRPs' contractor can meet this ambitious schedule, it will be necessary for comments on the draft RI and FS reports to be submitted on an accelerated schedule.

Accordingly, it would be appreciated if New York State could review the draft RI and FS reports, as well as the draft Proposed Plan and Record of Decision, and submit comments to us in the time frames denoted on the enclosed schedule.

Thank you for your assistance.

Should you have any questions regarding these documents, please contact me at (212) 264-1132.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Joel Singerman". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Joel Singerman, Chief  
Western New York Superfund Section I

Enclosure

cc: G. Anders Carlson, NYSDOH  
Joseph Kelleher, NYSDEC  
James Colquhoun, NYSDEC  
Arthur Fossa, NYSDEC  
Charles Branagh, NYSDEC  
Thomas Male, NYSDEC



### **Expedited Review Schedule for the Pollution Abatement Services Site**

Draft RI report review:	July 2 - July 21
Draft FS initial screening sections review:	July 2 - July 14
Remaining portions of draft FS report review:	July 15 - July 28
Draft Proposed Plan review:	July 21 - August 4
Draft Record of Decision review:	August 23 - September 10

JUL 23 1993

Mr. Anthony A. Lotta, P.E.  
 City Engineer  
 City of Oswego  
 City Hall  
 Oswego, New York 13126

Dear Mr. Lotta:

This is in regard to your letter of April 20, 1993, which transmitted a proposed sewer use ordinance, local limits information, and an enforcement response plan.

I am writing in advance of the completion of our review to address local limits. The City's proposal is not complete and needs revision. Our comments are as follows:

1. We are with the City in retaining the draft local limits, Concentration Limits, Critical Influent Loads, and...  
 (The following text is extremely faint and largely illegible, appearing to be a list of technical comments and references.)

(The following text is extremely faint and largely illegible, appearing to be a closing paragraph or signature block.)

Section 2 of the proposed Sewer Use Ordinance (SUO) sets out Specific Pollutant Limitations, but is not complete. We suspect that the City intends to insert, in both the East Side and West Side plants, the appropriate Allocation Mass for the eighteen (18) parameters in the local 2's attachment (BOD, TSS, Ammonia, etc.). Please clarify this matter and send a revised version of the proposed SUO.

4. Section 4 of the SUO also contains a narrative describing how the substances will be controlled in permits. We suggest that this section explicitly indicate whether permits must include limits for all parameters or if the City will only provide limits for selected parameters.
5. Section 6 includes a statement regarding the fifteen (15) percent safety factor. This safety factor would not need to be addressed in this way if the City lists the Allocation Mass in this part of the SUO, which already incorporates the safety factor. Alternatively, this section would need to address the "uncontrollable load" if the section refers to the Critical Influent Loads rather than the Allocation Mass.
6. The last sentence in Section 6, which would allow discharges in excess of the limitations Section 2 should be deleted or the City must propose revised language to better clarify its intent. We cannot support language which would allow permits to override the regulatory prohibition in Section §403.5.

Please address these matters in a written response within thirty (30) days of receipt. This response could include a cover letter addressing the above items. If you have any questions, please call Philip Sweeney of this office at (212) 264-2911.

Sincerely yours,

Robert F. Vaughn, Chief  
Water Permits and Compliance Branch

cc: Robert Cronin, NYSDEC  
Sandra Litzlovs, NYSDEC Region VII

Bob F. Vaughn, WM:WPC  
P. Sweeney, WM:WPC  
E. Schlueter, WM:WPC  
TSB file  
T. Singerman, ERRD

FAX TRANSMITTAL *Page 2*

*George J. Lee* *Joe L. Singer*

*315-264-1132*

*315-264-6107*

JUL 30 1993

Ms. Kathryn E. Torba  
 Executive Assistant to the Mayor  
 City of Oswego  
 City Hall  
 Oswego, New York 13126

Dear Ms. Torba:

This is in response to your letter of July 12, 1993 to Mr. John Kushwara of this office regarding the Pollution Abatement Services (PAS) site.

In response to your question about whether the proposed discharge will meet applicable standards, in our view it is the City's responsibility, as part of its implementation of the approved Industrial Pretreatment Program, to determine if proposed discharges can be accepted at the plant. To make this determination, the City would need to evaluate whether the proposed discharge would cause interference with plant processes or sludge disposal practices, or would pass through the plant and contribute to permit violations or water quality criteria exceedences in the receiving water. We suggest that the City proceed with a review and that a determination be made in this regard.

In addition, please be aware that this Branch has recently provided comments to the City regarding the sufficiency of its local limits which were established to prevent interference at the City's two plants. Enclosed please find my recent letter on this topic. It may be preferable for the City to concentrate its efforts on these program-wide matters before you make a determination regarding whether the PAS loadings can be safely accepted at the Eastside Wastewater Treatment Plant.

Finally, we ask that the City specifically address whether the nickel loadings in the proposed PAS discharge would cause the City to approach or exceed the existing action level for this parameter in the State Pollutant Discharge Elimination System (SPDES) permit. Our review of Discharge Monitoring Report data indicate that during 1991 and 1992 the Eastside Plant exceeded the nickel action level, and we note that the proposed PAS loading to the plant constitutes 33 percent of the nickel action level.

If you have any questions please call me at (212) 264-9894.

Sincerely yours,

Robert F. Vaughn, Chief  
Water Permits and Compliance Branch

Enclosure

cc: Robert Cronin, NYSDEC (w/o enclosure)  
Sandra Lizlovs, NYSDEC Region VII (w/o enclosure)

bcc: R. Vaughn, WM:WPC (w/o enclosure)  
P. Sweeney, WM:WFC "  
J. Singerman, ERRD "  
E. Schlueter, WM:WFC "

PLEASE NUMBER ALL PAGES

City of New York Water Pollution  
New York State Department of  
Environmental Conservation  
60 Wolf Road  
Albany, NY 12233-7000

Mr. Gene Gajda, Chief  
City of New York  
Bureau of Environmental Services  
New York State Department of  
Environmental Conservation  
60 Wolf Road  
Albany, NY 12233-7000

Dear Mr. Gajda:

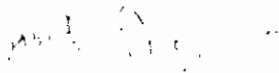
As you are aware, the City of New York is a Party to the 1987 Clean Air Act Amendments signed by President Reagan. The Act requires that the City (CIRPA) have a permit to use the contract to provide air quality improvement services. The City is currently working to complete the permit application by the end of August 1988. The City is currently working to complete the permit application by the end of August 1988. It will be necessary to complete the permit application by the end of August 1988.

Accordingly, it will be necessary for New York State to review the CIRPA and EPA reports and comments on the Proposed Plan and Report of Design. The City is currently working to complete the permit application by the end of August 1988.

Thank you for your assistance.

NYSDOT has a number of questions regarding this document. Please contact me at (914) 294-1192.

Sincerely yours,



J. G. Sangermano, CDE  
Wetland New York Superfund Region I

Enclosure

- cc: G. Anders Conson, NYSOCH
- Joseph K. ... NYSDOT
- James O'Leary, NYSDLC
- Anthony ... NYSDOC
- Charles ... NYSDLC
- Thomas ... NYSDOC

The first part of the report deals with the general situation in the country. It is noted that the economy is still in a state of depression, and that the government has taken various measures to stimulate it. The second part of the report deals with the specific measures taken by the government, and the results of these measures. It is noted that the government has succeeded in increasing the production of certain key industries, and that the unemployment rate has fallen slightly. However, it is also noted that the government has not succeeded in reducing the inflation rate, and that the balance of payments remains in a state of deficit.



▽  
=

**de maximis, inc.**

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052

Thanks Jerry  
FYB  
Thanks!  
AK

JUN 21 1993

June 17, 1993

Ashok K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation  
New York State Department of Environmental  
Conservation  
50 Wolf Road  
Albany, New York 12233

**RE:** Site 7038-001  
Pollution Abatement Services (PAS), Oswego County

Dear Mr. Gupta:

I am responding to your letter of December 11, 1992 regarding a number of undesirable site conditions observed at the PAS site. First, we do not believe that the rut marks along the east side of the site were caused by our contractors or subcontractors. If you have any information that suggests we are responsible for these ruts, I would appreciate receiving that information. We do not have general custodial responsibility for repair of the cap. Therefore, we do not plan to take any actions unless it can be demonstrated that the damage resulted from our negligence.

Second, the majority of the materials contained in the shed and the garbage on the pallets in the parking lot do not belong to our contractors or subcontractors. Nevertheless, our contractor OBG Technical Services (OBG) cleaned the area and disposed of the debris in accordance with applicable regulations. Third, the rear access door of the leachate holding tank has been railed to the tank. Both the front and rear doors have been repaired. Finally, we are not aware that any riser caps are missing on any wells except SWW-8. This cap was lost during continuous well measurement activities. To prevent contamination and unauthorized access while a permanent cap is being fabricated, a J-Plug sealing device has been temporarily installed at this well. OBG checked the caps on the wells cited in your letter and all were observed in place.

If you have any questions or comments, please feel free to call me.

Sincerely,



Mark Valentine  
MV/mt

cc: Geri Edens

File:comments.pas 3023

615-648-6485  
 MARK J. JARVINE  
 A.K.A. SUPER NYDEC  
 615-648-6485  
 457-0713

# MONTHLY MONITORING WELL LEVELS

Pollution Abatement Services

Date: 5-11-93

Mark  
 GW Elevations  
 for your report  
 Thanks  
 H4

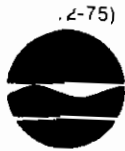
Well Number	Riser Elevation (feet)	Ground Elevation (feet)	Water Depth to Level of		Water Elevation (feet)
			Top of Riser (feet)	Ground Level (feet)	
LS2	289.81	287.5	6.77	4.46	283.04
LR2	289.85	287.5	13.85	11.50	276.00
LD2	289.73	287.1	7.56	4.93	282.17
LR3	278.06	275.5	8.70	6.14	269.36
LD3	278.62	275.8	4.49	1.67	274.13
LD4	279.25	276.3	10.95	8.00	268.30
LD5	272.94	270.2	8.63	5.89	264.31
LS6	274.14	271.4	10.54	7.80	263.60
LR6	274.39	270.9	11.17	7.68	263.22
LD6	274.03	270.9	10.98	7.85	263.05
LR8	273.42	270.0	10.20	6.78	263.22
LD8	272.83	269.9	7.62	4.69	265.21
LS9	276.72	274.0	8.53	5.81	268.19
SWW1	289.33	286.2	9.19	6.06	280.14
SWW2	289.37	286.3	14.74	11.67	274.63
SWW3	286.50	286.0	16.29	15.79	270.21
SWW4	283.60	282.9	15.50	14.80	268.10
SWW5	277.02	275.9	11.60	10.48	265.42
SWW6	273.06	270.9	8.68	6.52	264.38
SWW7	277.93	273.3	5.72	1.09	272.21
SWW8	278.24	275.7	4.20	1.66	274.04
SWW9	285.55	283.3	15.63	13.38	269.92
SWW10	280.43	279.3	11.74	10.61	268.69
SWW11	273.50	271.0	7.98	5.48	265.52
SWW12	272.82	270.2	8.75	6.13	264.07
<del>LCW1</del>	<del>272.21</del>	<del>271.4</del>			
<del>LCW2</del>	<del>274.44</del>	<del>272.8</del>			
<del>LCW3</del>	<del>284.88</del>	<del>283.3</del>			
<del>LCW4</del>	<del>285.70</del>	<del>283.8</del>			

Remarks: NONE  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

By: MIKE GUTMAN / KEVIN KEARLEY

Firm: URS CONSULTANTS, INC.

Telephone #: (716) 856-5636



12-75)

A.K.

## New York State Department of Environmental Conservation

### MEMORANDUM

TO: Alan Rockmore, Director, Bureau of Construction Services  
FROM: Ashok K. Gupta THRU: Gerald J. Rider, Jr., Chief, Operation & Maintenance Section  
SUBJECT: Pollution Abatement Services (PAS) Site #7-38-001 Groundwater/Leachate Removal and Long-Term Monitoring Activities  
DATE: JUN 09 1993

On March 18, 1993, a meeting was convened among representatives of USEPA, the Responsible Parties, and NYSDEC at Edison, NJ. In this meeting, the evaluation of the groundwater removal activities performed since February 1992 was presented by the Responsible Parties. Also discussed was the status of the current operation of the groundwater removal activities. The following paragraphs describe the current status of the site, evaluation of activities, and recommendations for the future work including groundwater removal activities and long-term monitoring at this site.

#### 1992 Meeting main goals and decisions:

- Seasonal changes need more information;
- Inward gradient occurring sometimes;
- May have flow into the site over wall at well SWW 7-8;
- Could beaver dam be beneficial?
- Should pumping be increased?

#### Current Operation, Maintenance and Monitoring Activities:

1. The groundwater/leachate removal has been performed by the RP's since February 1992. They are continuing to pump as per the EPA consent order. As of February 1993, approximately 241,965 gallons of groundwater/leachate have been removed. The groundwater/leachate is pumped on a monthly basis (approximately 20,000 gallons each month) and is transported in 5,000 gallon tankers to Dupont, New Jersey for treatment.
2. Monthly groundwater prepumping and post-pumping elevations are being monitored by the RP's. The groundwater elevations were collected from 12 SWW series paired monitoring wells, the four leachate collection wells (LCW-1 to LCW-4), the 13 L-Series wells and three M-series wells. See attached sketch.
3. Groundwater/leachate samples were analyzed by the RP's as needed for disposal purposes. Monitoring of the leachate also provides information on whether chemical concentrations are changing, an important consideration relative to future leachate disposal or on-site treatment.
4. Environmental sampling of the groundwater, surface water and sediments was performed by URS Consultants, Inc. (NYSDEC consultant). Samples were collected during the Fall (19 groundwater, 5 surface water and 5 sediment) and Spring (13 groundwater). The groundwater and surface water samples were analyzed for volatiles and semi-volatiles. The sediment samples were analyzed for volatiles, semi-volatiles, pesticides, metals, total phenol, total cyanide and hexavalent chromium.
5. During 1992, RP's also performed preventive maintenance activities which included repair and overhaul of groundwater/leachate pumps and starters, and modifications to the access road for safe turn around of the tanker trucks.

6. General operation and maintenance activities for the upkeep of the site were performed by the Division of Operation staff which included mowing, fertilization and fence repairs.

#### Evaluation of Groundwater Elevation Data:

1. The groundwater elevation inside the slurry wall has been maintained below the top of the slurry wall at all slurry wall well pairs.
2. The impact of groundwater removal was more prominent on the down gradient wells. The groundwater elevation inside the slurry wall at the down gradient end of the slurry wall has been lowered by about 2 feet, whereas the upstream end shows almost no impact.
3. The well clusters between have shown varying impacts (from 0 to 1.8 ft.).
4. Inward hydraulic gradients were maintained on the upper half of the site. At the down gradient end of the site the hydraulic gradient was outward at all times. However, a couple of well pairs showed that a hydraulic gradient reversal occurred for short periods depending upon the seasonal high water table and/or short-term impact of leachate pumping.
5. The vertical hydraulic gradient between bedrock wells and till wells was always downward. The vertical gradients are affected more by precipitation than leachate removal, given that these well clusters are located outside the slurry well.

#### Evaluation of Environmental Sampling Data:

1. The environmental sampling and analysis is being done on a semi-annual basis since November 1989. To date the sampling has been conducted seven times. The next round of sampling was completed in May 1993. We have not conducted statistical analysis to detect any trends etc., however, the data has been reviewed and compared with the past data by our consultant (URS, Consultants, Inc.). A minimum of 8 - 12 data sets are needed to perform statistical analysis if we felt that an upward trend was occurring.
2. Some low level contamination has been detected in some selected down gradient wells (LR8, SWW6, SWW12) outside the slurry wall since November 1989. Contamination was also found in sediment samples in the creeks. This contamination may have been there prior to the remediation of the site (i.e. construction of the slurry wall and installation of the cap). An RI/FS is being performed by the RP's to investigate this contamination and the impact of this site on the creeks.

#### Conclusions:

1. The groundwater elevations inside the slurry wall containment system is continuously been maintained below the top of the slurry wall as a result of pumping of approximately 20,000 gallons of groundwater/leachate per month.
2. The inward flow condition has not been definitively and consistently established yet. In order to establish inward flow conditions all around the slurry wall the pumping rate should be increased. We have recommended an increase to between 30,000 gallons and 40,000 gallons per month.

3. Groundwater elevations in some inside slurry wall wells (SWW7, SWW11, SWW5) show impacts of outside groundwater elevation fluctuations (i.e., beaver dam was drained during this period).

Recommendations:

1. The groundwater removal rate should be increased. During the meeting on March 18, 1993, discussions were conducted to increase the pumping rate to 20,000 gallons twice a month. The RP's were reluctant to increase the pumping rate, however, on April 2, 1993 the RP's agreed to increase the pumping rate to 15,000 gallons twice a month beginning April 1993. The groundwater pumping on a 15 day schedule has been initiated.
2. The USEPA will be issuing a ROD upon completion of the supplemental RI/FS. The FS for the offsite work is expected to be completed this summer. I believe, it is the right time for the Department to formally request that the USEPA include that the RP's takeover complete operation, maintenance and monitoring activities at this site in the upcoming consent order negotiations. A draft letter to USEPA from Mike O'Toole is attached for your review. It is important to formally request this now since the RI/FS will be resolved and we want full responsibility for the site to be transferred at the same time. Also, it will be an opportune time to recover all costs spent by the Department. A request to compile these cost should be made and kept current with a deadline of October 1, 1993.
3. The current work assignment with URS Consultants, Inc. for continued monitoring of the site exists until December 1993. It is proposed that this work assignment be extended for one year (until December 1994) for continued environmental monitoring of the site at the same schedule (twice a year). We believe that by that time the consent order is negotiated and the RP's are in a position to take over the complete operation, maintenance and monitoring of the site. We will have to continue to perform the work. There are enough funds available within the work assignment for URS to cover the extra one year monitoring costs.

If you have any questions, please call me or A. K. Gupta at 7-0927.

Attachments

cc: Charles Branagh  
Ray Lupe

a:pasgw1ra.wp:AKG:GR:et

# DRAFT

Mr. George Pavlou  
Acting Director  
Emergency & Remedial Response Division  
U.S. Environmental Protection Agency  
Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Pavlou:

Re: Site #7-38-001  
Pollution Abatement Services (PAS)  
Oswego County  
EPA ID # NYD000511659

This letter is in continuation of my previous letter dated March 11, 1992 to Ms. Kathleen C. Callahan, requesting that the U.S. Environmental Protection Agency (EPA) begin negotiations as soon as possible following completion of the Supplemental Investigation and Feasibility Study with the PAS - Oswego Steering Committee. The purpose of these negotiations is that the RP's to assume total responsibility for meeting the goals set forth in the June 6, 1984 Record of Decision (ROD). This responsibility must include permanently taking over maintenance, long-term monitoring, and leachate/groundwater removal work at this site.

The RP's have been conducting interim groundwater removal and disposal activities at this site since February 1992 as per the consent order signed by EPA and the PAS - Oswego Steering Committee on September 30, 1991. Also, the RP's are now conducting maintenance of the groundwater collection system, leachate collection tank, leachate pumps, force mains and appurtenances. However, the NYS Department of Environmental Conservation (DEC) is performing the long-term monitoring and general maintenance activities at this site.

The Supplemental Investigation/Feasibility Study described in the consent order dated September 27, 1990 between EPA and RP's is nearing completion. It is expected that a ROD will be issued by EPA in the near future. During the negotiations for the September 30, 1991 consent order the DEC and EPA indicated to the RP's that complete responsibility for the operation, maintenance, and long-term monitoring of this site should be permanently assumed by the RP's. EPA assured the DEC in September 1991 that this issue would be incorporated in future negotiations with the RP's. Again, during the recent progress meetings among our staffs and the RP's this issue was again stressed. The timing of the negotiations for the next order is an opportune time to include recovery of all State expenditures and the requirement for the RP's to takeover complete operation, maintenance and monitoring of the site, including regular reporting to both the EPA and DEC.

Mr. George Pavlou

Page 2

The DEC appreciates EPA's negotiation efforts which have made possible the transfer of the leachate removal responsibility to the RP's on an interim basis. We request that the EPA initiate negotiations for permanent transfer of operation, maintenance and long-term monitoring responsibility to the RP's as soon as feasible. Please call me at (518) 457-5861, or Gerald J. Rider, Jr., of my staff, at 518/457-0927, if you have any questions.

Sincerely,

Michael J. O'Toole, Jr.  
Director  
Division of Hazardous Waste Remediation

AKG/et

bcc: M. O'Toole (2)  
C. Goddard  
A. Rockmore  
J. McKeon  
C. Branagh, Reg. 7  
R. Lupe  
G. Rider  
A. K. Gupta

a:pasnego.wp:AKG:et



## New York State Department of Environmental Conservation

### MEMORANDUM

TO: Alan Rockmore, Director, Bureau of Construction Services  
FROM: Ashok K. Gupta THRU: Gerald J. Rider, Jr., Chief, Operation & Maintenance Section  
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DATE: *A. K. Gupta*

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cc: Charles Branagh  
Ray Lupe

a:pasgw\ra.wp:AKG:GR:et

# DRAFT

Mr. George Pavlou  
Acting Director  
Emergency & Remedial Response Division  
U.S. Environmental Protection Agency  
Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Pavlou:

Re: Site #7-38-001  
Pollution Abatement Services (PAS)  
Oswego County  
EPA ID # NYD000511659

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Mr. George Pavlou

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Sincerely,

Michael J. O'Toole, Jr.  
Director  
Division of Hazardous Waste Remediation

AKG/et

bcc: M. O'Toole (2)  
C. Goddard  
A. Rockmore  
J. McKeon  
C. Branagh, Reg. 7  
R. Lupe  
G. Rider  
A. K. Gupta

a:pasnego.wp:AKG:et

***de maximis, inc.***

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052  
Fax (615) 691-6485

March 1, 1993

Via Facsimile

Mr. Lou DiGuardia  
U.S. Environmental Protection Agency  
Removal Action Branch  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

Mr. A.K. Gupta  
Operation & Maintenance Section  
Bureau of Construction Services  
NYSDEC  
50 Wolf Road  
Albany, NY 12233-7010

**Subject: Agenda for March 16, 1993 Meeting in Edison, New Jersey  
OBG Engineers 12-Month Report - Findings and Recommendations  
PAS Oswego Site - Interim Groundwater Removal Activities**

Dear Gentlemen:

We have requested a meeting with you to discuss the findings and recommendations of our Interim Groundwater Removal (IGR) contractor, O'Brien & Gere (OBG), based on their first twelve months of removal activities at the PAS Oswego site. We have scheduled our meeting for March 16, 1993 in at U.S. EPA's offices in Edison, New Jersey. We have arranged for OBG representatives to present the results of their IGR activities during the meeting. A suggested agenda for our upcoming meeting is presented in the following.

- \* **Summary of Six-Month Report Findings and Recommendations**
- \* **Presentation of Findings of Twelve Months of IGR Activities**
- \* **Recommendations for Future IGR Activities**
  - **Removal Rate**
  - **Monitoring**

Agenda for March 16, 1993  
March 1, 1993  
Page 2 of 2

We anticipate that our meeting will begin at 11 AM EST and last approximately two hours.

If you have any questions, please call me.

Sincerely,



Mark Valentine

MV/mt

cc: PAS Management Committee  
R. Ramon - EPA

File:markv\pas3193

3/15/93.

PAS

Edison N.J.

12 month Pumping

OBG presentation

pumping @ 20,000 gpm/month  
since 2/92

Shipped to Dupont  $20,000 \times 12$

total 240,000 gal

elevation after 1 hr  
2 days

pre pumping

- 20,000 gal / 2 wk

- Pre pumping elevation on SWW well 5

- Quarterly on L. Service wells

- LCW :- TERMS :-

**PAS SITE TWELVE MONTH INTERIM GROUND WATER ACTIVITIES MEETING  
US EPA REGION II, EDISON, NJ.**

DATE: MARCH 18, 1993

PERSONNEL	REPRESENTING	PHONE NO.
Louis D. Guardi	USEPA Region II	908-906-6927
Carol Y. Berns	USEPA - ORC	212-264-9791
A. K. Gupta	NYS DEC.	578-457-0927
Ba Lin	TAT. Reg. II	908-225-6116
Kathleen Moldthan	Monsanto	(314)694-4238
Tim Barry	OBG Technical Svcs	315-437-6400
John Tomik	O'BRIEN & GERE ENG.	315-437-6100
Ed Singer	Mobil Oil	609-737-6159
Bob Glazier	Golder Associates	609-273-1110
Mark Valentine	de-maximus	615-691-5052
Geri Edens	Crowl & Widstrom Eng.	202 862-2411
Jerry Rider	NYS DEC	518 457 0927



**PAS SITE TWELVE MONTH INTERIM GROUND WATER ACTIVITIES MEETING  
US EPA REGION II, EDISON, NJ.**

**DATE: MARCH 18, 1993**

PERSONNEL	REPRESENTING	PHONE NO.
Louis D. Guardo	USEPA Region II	908-906-6927
Carol Y. Berns	USEPA - ORC	212-264-9791
A. K. Gupta	NYSDEC	578-457-0927
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Tim Barry	OBG Technical Svcs	315-437-6400
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Mark Valentine	de-maximus	615-691-5052
Geri Edens	Christopher Wideman & Co.	202-862-2411
Jerry Rider	NYSDEC	518 457 0927

THE VOA ANALYTICAL RESULTS OF LEACHATE

PAS SITE, NY

03/17/93

CHEMICALS (ug/l)	05/21/91		11/13/91		02/10/92		09/01/92		12/01/92		01/05/93		02/01/93		02/02/93		02/02/93		02/02/93		02/01/93		02/01/93		
	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	LCW-2	PRP	
Chloromethane																									
Bromomethane																									
Vinyl Chloride	980	500																							
Chloroethane																									
Methylene Chloride																									
Acetone	5100	5800																							
Carbon disulfide																									
1,1-Dichloroethane																									
1,1-Dichloroethane																									
1,2-Dichloroethane (total)	12000																								
Chloroform	30	3900																							
1,2-Dichloroethane	210																								
2-Butanone	370																								
1,1,1-Trichloroethane																									
Carbon tetrachloride																									
Vinyl acetate																									
Bromodichloromethane																									
1,2-Dichloropropane																									
Cis-1,3-Dichloropropene																									
Trichloroethene																									
Dibromochloromethane																									
1,1,1-Trichloroethane																									
Benzene	100	470																							
trans-1,3-Dichloropropene																									
Bromoform																									
4-Methyl-2-Pentanone	3100	5500																							
2-Hexanone																									
Tetrachloroethene																									
1,1,2,2-Tetrachloroethane																									
Toluene	8400	1200																							
Chlorobenzene																									
Ethylbenzene																									
Styrene																									
Xylenes (o,m,p)	17000																								

THE SEMIVOLATILE ANALYTICAL RESULTS OF LEACHATE  
PAS SITE, NY

SAMPLE NO.	03/17/93												
	11/13/91	11/13/91	11/14/91	02/10/92	02/01/93	02/01/93	02/01/93	02/01/93	02/02/93	02/02/93			
SAMPLING LOCATION	LCW-2	SWW-4	SWW-6	TANK	LCW-2	PL	LCW-4	PL	TANK	TANK PL	TANK PL	TANK PL	TANK PL
CHEMICALS (ug/l)													
Phenol	290			740	39	49	1753	1500	1114	390	540		
Bis (2-chloroethyl) ether					ND	ND		ND		ND	ND		
2-Chlorophenol					50	ND	50	ND	784	ND	ND		
1,3-Dichlorobenzene						ND		ND		ND	ND		
1,4-Dichlorobenzene						2		ND		ND	ND	160	140
Benzoic acid						ND		ND		6200	ND		
1,2-Dichlorobenzene	69				46	46		220		110	140		
2-Methylphenol					130	130		510		290	83	ND	ND
Bis (2-chloroisopropyl) ether					ND	ND		ND		ND	ND		
4-Methylphenol	1600				850	850		2100		1500	670	1200	640
1,4-Dichlorobenzene					ND	ND		ND		ND	ND		
Nitrobenzene					610	610		1300		580	470	ND	ND
Isophorone					ND	ND		17		ND	ND		
2,4-Dimethylphenol						540	462	570	566	590	68		
Benzyl alcohol						ND		ND		ND	ND		
Naphthalene	58				52	52		ND		23	24		
4-Chloro-3-methylphenol					220	220		360		280	150		
2-Methylnaphthalene					14	14		ND		ND	ND		

US EPA Region II, Removal Action Branch

Roy F. Weston, Inc.

**THE METAL ANALYTICAL RESULTS OF LEACHATE  
PAS SITE, NY**

03/17/93

SAMPLING LOC.	02/10/92 TANK	02/01/93 LCW-2	02/01/93 LCW-4	02/02/93 TANK	02/02/93 TANK
<b>CHEMICALS (UG/L)</b>					
Aluminum	5000	160	200	490	250
Antimony	< 60	ND	ND	ND	ND
Arsenic	53	46	23	36	34
Barium	1400	550	1900	1300	1300
Beryllium	< 5	ND	ND	ND	ND
Cadmium	< 5	ND	ND	ND	ND
Calcium	530000	230000	670000	470000	460000
Chromium	60	ND	58	32	30
Cobalt	< 50	12	11	ND	ND
Copper	90	79	590	ND	ND
Iron	84000	24000	140000	88000	86000
Lead	8	ND	ND	ND	ND
Manganese	26000	10000	23000	19000	18000
Magnesium	87000	59000	99000	85000	82000
Mercury	< 0.2	ND	ND	ND	ND
Nickel	1300	300	2600	1600	1600
Potassium	92000	31000	190000	120000	120000
Selenium	< 5	ND	ND	ND	ND
Silver	< 10	ND	ND	ND	ND
Sodium	200000	92000	300000	220000	210000
Thallium	<100	ND	ND	ND	ND
Vanadium	< 50	ND	29	16	15
Zinc	40	ND	23	ND	ND

US EPA Region II, Removal Action Branch

Roy F. Weston, Inc.

10/11/68  
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**CONFIDENTIAL DELIVERY**

10/11/68

10/11/68

10/11/68

10/11/68

10/11/68

10/11/68

PLEASE RETURN TO (202) 851-1111

10/11/68

10/11/68

10/11/68

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

MAR 31 1993

Mr. Louis DiGuardia  
OSC, Removal Action Branch  
USEPA  
2890 Woodbridge Avenue  
MS-211  
Edison, NJ 08837-3679

Dear Mr. DiGuardia:

RE: Site #7-38-001  
Pollution Abatement Services (PAS)  
Oswego County

Per your request, enclosed is a copy of the Summary Report of Fall 1992 environmental monitoring, prepared by URS Consultant, Inc. This report also contains historical analytical data since Fall 1989.

I believe this will serve your purpose. If you have any questions, please call me at 518/457-0927.

Sincerely,

A. K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Division of Hazardous Waste Remediation

Enclosure

a:summrpt.wp:AKG:et







*A.G.*

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

DEC 11 1992

Mr. Bruce Thompson  
de maxmis, Inc.  
Suite 401  
9041 Executive Park Drive  
Knoxville, TN 37923

Dear Mr. Thompson:

RE: Site 7-38-001  
Pollution Abatement Services (PAS) Oswego County

This is to confirm our telephone conversation of December 2, 1992 regarding the observations made by URS, (NYSDEC Consultant) during the week of November 9, 1992. As discussed, URS observed the following undesirable site conditions which are attributable to the site activities performed by the Responsible Parties:

1. Shed and Parking Area:

The shed was found disorganized and messy. Four (4) of the six (6) five gallon buckets used to transport the purge water were gone. The site drums were stored on wooden pallets across the parking lot from the shed. There was some garbage on the pallets. The garbage was mostly used sampling equipment (i.e. gloves, bottles, rope).

2. Site Cap: Obvious vehicle rut marks were present along the entire east side of the site.

3. Leachate Collection Tank: Rear access door of leachate holding tank was missing and front door was broken.

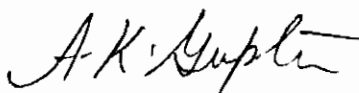
4. Groundwater Monitoring Wells: The riser caps were missing on the following wells: SWW-7, SWW-9; SWW-10; SWW-11; SWW-12; LR-2, LD-2; LS-2; LD-3; LR-3; LD-4; LD-5; LS-6; LR-6; LD-6; LD-8; LR-8; LS-9.

Also, at well SWW-8 the casing lid was missing but riser was capped.

The above observation indicates that the working practices of your contractor are unsatisfactory. I am requesting that the above noted deficiencies be corrected immediately and necessary work practices be established to prevent these conditions from reoccurring. Please keep me apprised of the corrective actions taken at this site.

If you have any questions, please call me at 518/457-0927.

Sincerely,



Ashok K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: L. DiGuardia, USEPA  
R. Ramon, USEPA

bcc: J. May, Region 7  
R. Edwards  
G. Rider

a:teleconv.pas:AKG:et

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233 - 7010



**Thomas C. Jorling**  
Commlasioner

OCT 28 1992

Mr. Louis DiGuardia, OSC  
Removal Action Branch  
USEPA  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

Dear Mr. DiGuardia

RE: PAS Oswego Site

Per your request, enclosed is a copy of analytical data of groundwater monitoring, performed by NYSDEC, for your information.

If you have any questions please call me at 518/457-0927.

Sincerely,

A. K. Gupta, P.E.  
Project Engineer  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

a:analydat.wp:AKG:et

Mr. Bruce Thompson  
de maximis, Inc.  
9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923

OCT 06 1992

Dear Mr. Thompson:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Roadway Improvement Plans

This is to inform you that the Department has received a set of half-size construction drawings from your contractor OBG Technical Services for the improvement of access road at the PAS site.

As stated in my letter dated August 10, 1992, the proposed improvement is acceptable to the Department with following conditions:

1. Extreme care should be taken not to damage the integrity of the HDPE liner. It is suggested that no toothed equipment be used for excavation.
2. Please inform the Department at least one week in advance prior to any start of on-site work.

If you have any questions, please call me at 518/457-0927.

Sincerely,



Ashok K. Gupta, P.E.  
Project Engineer  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: R. Ramon, USEPA  
L. DiGuardia, USEPA

bcc: John May, Region 7 w/one copy of Roadway Improvement Plans  
G. Rider

a:roadway.wp:AKG:et

# FAX MEMO

## SAMPLING EVENT SUMMARY

DRAFT

8 PAGES 7 DATE 5/11/92 TIME 6:15-6:45 PM  
 TO BRUCE THOMPSON  
 FROM A. K. GUPTA, NYSDEC  
 CO. \_\_\_\_\_  
 FRI # \_\_\_\_\_

Pollution Abatement Services

ARRIVAL:  
 DATE: 5-11-92 TIME: 11:00

DEPARTURE:  
 DATE: 5-12-92 TIME: 1400

Personnel Onsite: Dave Sheppard  
Jeff Richards

POST-SAMPLING CHECKLIST:

Site Conditions on Arrival: 5/11/92 site secure  
5/13/92 site secure

- yes Wells Locked
- yes Tank Secured
- yes Site Cleanup / Walk Through
- yes Site Secured

Weather: Date: 5/11/92: 73°F, NWe, Sunny clear  
 Date: 5/12/92: 60°F, Se, Sunny  
 Date: 5/13/92: 60°F, SW, clear  
 Date: \_\_\_\_\_

SURFACE WATER SAMPLES

Sample Number	Sampling Date	Sample Time	A.S.
PAS-SW-1			
PAS-SW-2			
PAS-SW-3			
PAS-SW-4			

STREAM SEDIMENT SAMPLES

Sample Number	Sampling Date	Sample Time	A.S.
PAS-SS-1			
PAS-SS-2			
PAS-SS-3			
PAS-SS-4			

LEACHATE SAMPLES

Sample Number	Sampling Date	Sample Time	A.S.
LCW-1,2,3 COMPOSITE			
LCW-4			
PAS-SWW-3			
PAS-SWW-11			

GROUNDWATER SAMPLES

Sample Number	Sampling Date	Sample Time	A.S.
PAS-LS-2	5-11-92	1800	A
PAS-LR-2	5-11-92	1830	A
PAS-LD-2	5-11-92	1900	A
PAS-LR-3	5-12-92	1530	A
PAS-LD-3	5-12-92	1105	A
PAS-LD-4	5-13-92	1130	A
PAS-LD-5	5-13-92	1145	A
PAS-LS-6	5-12-92	1615	A
PAS-LR-6	5-12-92	1305	A
PAS-LD-6	5-12-92	1630	A
PAS-LR-8	5-13-92	1245	A
PAS-LD-8	5-13-92	1230	A
PAS-LS-9	5-11-92	1915	A
PAS-SWW-1			
PAS-SWW-4			
PAS-SWW-6			
PAS-SWW-8			
PAS-SWW-10			
PAS-SWW-12			
Trip Blank GWTB-1	5-11-92		VoA
MS/MSD LR-8	5-13-92	1245	A

TANK LEVEL MEASUREMENTS

Date	Time	Level from Bottom	Remarks

A.S. = Analytical Schedule

NOTES: Split samples were taken by NYSDEC from LD-3 and LR-6

By: Dave Sheppard / J. Richards

Firm: URS Consultants

Telephone #: 716-856-5636

PAS-



# WELL DATA SUMMARY

Pollution Abatement Services

Month: May Year: 1992

Semiannual

Date	Time	Well Number	Well Bottom Elevation (feet)	Water Elevation (feet)	Water Height From Bottom (feet)	Volume of Casing (gal)	Volume Purged (gal)	Specific Conduct. (µmhos/cm)	pH (S.U.)	Temp. (deg. C)	Remarks
5-11-92	1630	LS-2	269.5	283.42	14.11	2.30	7.0	1375	7.28	6.8	
5-11-92	1530	LR-2	231.5	275.75	44.90	7.32	22.0	492	7.31	64.2°F	
5-11-92	1540	LD-2	251.1	282.30	31.90	5.20	16.0	1463	7.21	7.7	
5-12-92	0930	LR-3	211.7	269.04	58.15	9.48	30.0	1679	7.54	10.7	
5-12-92	0930	LD-3	248.6	274.12	26.06	4.25	13.0	1980	6.54	9.8	
5-12-92	0915	LD-4	246.3	268.83	22.58	3.68	5.0	442	7.70	12.9	purged dry
5-12-92	0925	LD-5	243.2	264.18	21.07	3.43	11.0	1081	7.07	12.9	
5-12-92	1330	LS-6	253.4	264.08	10.90	1.80	4.0	1331	7.47	11.81	purged dry
5-12-92	1200	LR-6	213.6	262.88	50.07	8.16	25.0	945	7.05	10.7	
5-12-92	1200	LD-6	240.9	263.82	22.73	3.71	4.0	647	7.62	12.2	purged dry
5-12-92	1030	LR-8	230.3	263.30	32.95	4.28	13.0	1897	6.76	12.9	
5-12-92	1030	LD-8	248.1	265.61	16.70	2.72	8.5	835	7.41	12.9	
5-11-92	1745	LS-9	260.9	268.56	7.67	1.25	3.75	695	6.99	8.3	purged dry
		SWW-1	267.1								
		SWW-2	268.2								
		SWW-3	265.8								
		SWW-4	257.5								
		SWW-5	254.5								
		SWW-6	254.0								
		SWW-7	250.3								
		SWW-8	256.2								
		SWW-9	256.1								
		SWW-10	256.3								
		SWW-11	250.7								
		SWW-12	251.5								

Casing Volume = water height from bottom of well(ft.) X π r<sup>2</sup> (Inside Radius of casing in ft.) X 7.48 gal/ft<sup>3</sup>  
 NOTES: Split samples with NYSDEC from LD-3 & LR-6.

By: Dave Sheppard / Jeff Richards

# MONTHLY MONITORING WELL LEVELS

Pollution Abatement Services

Date: 5-11-92

Well Number	Riser Elevation (feet)	Ground Elevation (feet)	Water Depth to Level of		Water Elevation (feet)
			Top of Riser (feet)	Ground Level (feet)	
LS2	289.81	287.5	6.39	4.08	283.42
LR2	289.85	287.5	14.10	11.75	275.75
LD2	289.73	287.1	7.43	4.80	282.30
LR3	278.06	275.5	9.02	6.46	269.04
LD3	278.62	275.8	4.50	1.68	274.12
LD4	279.25	276.3	10.42	7.47	268.83
LD5	272.94	270.2	8.76	6.02	264.18
LS6	274.14	271.4	10.06	7.32	264.08
LR6	274.39	270.9	11.51	8.02	262.88
LD6	274.03	270.9	10.21	7.08	263.82
LR8	273.42	270.0	10.12	6.70	263.30
LD8	272.83	269.9	7.22	4.29	265.61
LS9	276.72	274.0	8.16	5.44	268.56
SWW1	289.33	286.2	8.84	5.71	280.49
SWW2	289.37	286.3	10.16	7.09	279.21
SWW3	286.50	286.0	15.04	14.54	271.46
SWW4	283.60	282.9	14.67	13.97	268.93
SWW5	277.02	275.9	12.49	11.37	264.53
SWW6	273.06	270.9	8.36	6.20	264.70
SWW7	277.93	273.3	5.56	0.93	272.37
SWW8	278.24	275.7	4.14	1.60	274.10
SWW9	285.55	283.3	15.43	13.18	270.12
SWW10	280.43	279.3	11.10	9.97	269.33
SWW11	273.50	271.0			
SWW12	272.82	270.2			
<del>LCW1</del>	<del>272.21</del>	<del>271.4</del>			
<del>LCW2</del>	<del>274.44</del>	<del>272.8</del>			
<del>LCW3</del>	<del>284.38</del>	<del>283.3</del>			
<del>LCW4</del>	<del>285.70</del>	<del>283.8</del>			

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

By: Dave Sheppard / Jeff Richards

Firm: URS Consultants

Telephone #: 716-856-5636

# ROUTINE INSPECTION CHECKLIST

Pollution Abatement Services

Item	Date Inspection Performed	Remarks
Containment Cell Cap	5-11-92	fair with animal burrows through cap
Landscaping	5-11-92	needs mowing - fair
Roadways	5-11-92	Good
- General condition	5-11-92	Good
- Snow Removal	5-11-92	N/A
Concrete Drainage Trough	5-11-92	Clear & good condition
Debris	5-11-92	PRP drums still on site
French Drains	5-11-92	Good
Fence	5-11-92	Good
Monitoring Wells	5-11-92	rust buildup on protective casings
Risers	5-11-92	good - caps not present
Locks	5-11-92	locks open on wells *
<del>Leachate Collection System</del>		
<del>Pumps</del>		
<del>Pump Controls / Alarms</del>		
<del>Tank Level</del>		
<del>Liquid Level Controls / Alarms</del>		

Remarks: \* locks were found open on following wells; LD-4, LD-5, LS-6, LR-6, LD-6, LD-8, LR-8 and SWW-8.

By: Dave Sheppard / Jeff Richards

Firm: URS Consultants

Telephone #: 716-856-5636





# SAMPLING: Month May Year 1992

## Pollution Abatement Services Monitoring Wells

Well Number	LR-3	LR-2	LR-2	LR-3	LR-3	LR-3	LR-4	LR-4	LR-4	LR-5	LR-6	LR-6	LR-6	LR-6	LR-6	LR-8	LR-8	LR-8	LR-8	LR-8	LR-10	LR-12
Date	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92	5/11/92
Volatile Compounds																						
Acetone																						
Benzene			2.5			8					2.5						82					
Bromochloromethane																						
Bromoforn																						
Bromomethane																						
2-Butanone																						
Chloroethane																						
Chlorobenzene						3.5					6.5						18					
Carbon Disulfide						3.5											22					
Carbon Tetrachloride																						
Chloroform																						
Dibromochloromethane																						
1,1-Dichloroethane			2.5			32					11						14					
1,2-Dichloroethane																						
1,1-Dichloroethylene																						
1,2-Dichloroethylene (total)						0.95					9											
1,2-Dichloropropane																						
cis-1,2-Dichloropropene																						
trans-1,2-Dichloropropene																						
Ethylbenzene						1.5											24					
2-Hexanone																						
4-Methyl-2-Pentanone																						
Methylene Chloride											0.65						0.65					
Styrene																						
1,1,2,2-Tetrachloroethane																						
Tetrachloroethylene																						
Toluene																						
1,1,1-Trichloroethane																						
1,1,2-Trichloroethane																	19					
Trichloroethylene																						
Vinyl Acetate																						
Vinyl Chloride											0.95						5.5					
Xylenes (total)																						270.0

All values in ug/L (ppb)

J - Indicates the compound meets the identification criteria, but the result is less than the sample quantitation limit, but greater than zero.

B - Compound is detected in the associated method blank.

SAMPLING: Month May Year 1992

Pollution Abatement Services  
Monitoring Wells

Well Number	LS-2	LR-2	LD-2	LR-3	LD-3	LR-3	LD-3	LD-4	LD-5	LR-6	LD-6	LR-6	LD-8	LR-8	LD-8	LR-9	LD-9	SRM-1	SRM-1	SRM-4	SRM-4	SRM-6	SRM-6	SRM-10	SRM-12	
Date	5/11/92	5/11/92	5/11/92	5/12/92	5/12/92	5/12/92	5/12/92	5/13/92	5/13/92	5/14/92	5/14/92	5/14/92	5/14/92	5/14/92	5/14/92	5/14/92	5/14/92									
Semivolatile Compounds																										
Phenol																										
1,2-Dichlorobenzene																										
2-Chlorophenol																										
1,3-Dichlorobenzene																										
1,4-Dichlorobenzene																										
Benzyl Alcohol																										
2-Methylphenol																										
1,2-Dichloroethane																										
4-Methylphenol																										
N-Nitroso-Di-n-Propylamine																										
Hexachloroethane																										
Nitrobenzene																										
Isophorone																										
2-Nitrophenol																										
2,4-Dimethylphenol																										
Benzoic Acid																										
1,2-Dichloroethane																										
2,4-Dichlorophenol																										
1,2,4-Trichlorobenzene																										
Naphthalene																										
4-Chloroaniline																										
Hexachlorobutadiene																										
4-Chloro-3-Methylphenol																										
2-Methylnaphthalene																										
Hexachlorocyclopentadiene																										
2,4,6-Trichlorophenol																										
2,4,6-Trichlorophenol																										
2-Chloronaphthalene																										
2-Nitroaniline																										
Dimethyl Phthalate																										
Acenaphthylene																										
2,6-Dinitrotoluene																										
3-Nitroaniline																										

J - Indicates the compound meets the identification criteria but the result is less than the sample quantitation limit, but greater than zero.

All values reported in ug/L (ppb).  
Only detected values are reported.

**SAMPLING: Month May Year 1992**

**Pollution Abatement Services  
Monitoring Wells**

Well Number	LA-2	LD-2	LA-3	LD-3	LD-4	LD-5	LA-6	LD-6	LA-8	LD-8	LA-9	LD-9	SWM-1	SWM-4	SWM-8	SWM-9	SWM-10	SWM-12
<b>Date</b>	5/11/92	5/11/92	5/11/92	5/12/92	5/13/92	5/13/92	5/12/92	5/12/92	5/13/92	5/13/92	5/11/92	5/11/92						
<b>Semivolatile Compounds (cont'd)</b>																		
Acenaphthene																		
2,4-Dinitrophenol																		
4-Nitrophenol																		
Dibenzofuran																		
2,4-Dinitrotoluene																		
Diethylphthalate																		
4-Chlorophenyl-phenyl ether																		
Fluorene																		
4-Nitroaniline																		
4,6-Dinitro-2-Methylphenol																		
N-Nitrosodiphenylamine																		
4-Bromophenyl-phenyl ether																		
Hexachlorobenzene																		
Pentachlorophenol																		
Phenanthrene																		
Anthracene																		
Di-n-Butylphthalate																		
Fluoranthene																		
Pyrene																		
Butylbenzylphthalate																		
3,3'-Dichlorobenzidine																		
Benzo(e)anthracene																		
Chrysene																		
Bis(2-ethylhexyl)phthalate		0.65																
Di-n-octyl Phthalate																		
Benzo(b)Fluoranthene																		
Benzo(k)Fluoranthene																		
Benzo(a)Pyrene																		
Indeno(1,2,3-cd)pyrene																		
Dibenzo(a,h)anthracene																		
Benzo(g,h,i)perylene																		

65

J - indicates the compound meets the identification criteria, but the result is less than the sample quantitation limit, but greater than zero.

All values reported in ug/L (ppb). Only detected values are reported.

SUBJECT	SHEET	BY	DATE	JOB NO.
---------	-------	----	------	---------

# 7/27/92 MEETING - PAS INTERIM GROUNDWATER REMOVAL

## Attendees -

<u>NAME</u>	<u>Affiliation</u>	<u>Number</u>
Mark Valentine	de maximis	615-691-5052
Robert P. Yunick	Schenectady Chemicals, Inc.	518-370-4200
A.K. GUPTA	DEC	578-457-0927
GERALD J. RIDER, JR	DEC	518-457-0927
Paul Harc	GE	518-458-6613
Jane Kim	Roy F. Weston - TATI	908-225-6116
Louis DiGuardia	US EPA	908-906-6927
TIM BARRY	OBG Tech Services	315-437-6400
JOHN TOMIE	O'Brien & Gere Engineers	315-437-6100.

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

AUG 10 1992

Mr. Bruce Thompson  
de maximis, inc.  
9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923

Dear Mr. Thompson:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Asphalt Installation

The State has reviewed your submittal regarding upgrading the access road at the PAS site. The plan's and construction sequence is acceptable to the State with the following conditions:

1. The construction drawings should be signed and stamped by a professional engineer licensed to practice in New York State. Please submit signed construction drawing prior to any construction work at site.
2. Extreme care should be taken not to damage the integrity of the HDPE liner. It is suggested that no toothed equipment be used for excavation.
3. Please inform NYSDEC at least one week in advance prior to any start of on-site work.

If you have any questions, please call me at 518/457-0927.

Sincerely,

A. K. Gupta, P.E.  
Project Engineer  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: R. Ramon, USEPA  
L. DiGuardia, USEPA  
a:asphalt.wp:AKG:et

(2)

*de maximis, inc.*

9041 Executive Park Drive  
Suite 601  
Brynsville, TN 37025  
(615) 691 5052

**FAX TRANSMITTAL SHEET**

PROJECT/FILE NUMBER: 3015

DATE: 5 AUG 92

THIS FAX CONSISTS OF 1 PAGE(S) INCLUDING THIS COVER SHEET.

TO: [unclear] [unclear]

TELECOPTER NUMBER:

FROM: Bruce Thompson

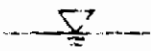
PLEASE CALL (615) 691 5052 if there are any problems with this transmission (FAX Number 615 691 6485)

REMARKS:

- 108 400-0901
- 518 450-7703
- 214-264-1331
- 202 862-2400
- 318 457-2200

*Called Bruce Thompson  
to provide signed &  
Sealed drawing  
for modification  
8/7/92*

Unless otherwise indicated, the information contained in this fax is confidential, privileged and/or otherwise restricted. It is intended for the individual(s) named above. If the above this message to you, the intended recipient, or the employer or agent available to deliver it to the intended recipient, you are advised that if you have received this communication in error, you should not disseminate, distribute, or copy this information. If you have received this communication in error, please notify the sender immediately by telephone or by return fax to the sender. This message may be subject to the U.S. Postal Service's wiretap provisions.

  
*de maximis, inc.*

9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923  
(615) 691 5052  
Fax (615) 691 6485

August 5, 1992

**VIA FACSIMILE**

Mr. Louis Di Guardia, CSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-3679

Ashok K. Gupta, P.E.  
New York State Department of Environmental Conservation  
Bureau of Construction Services  
Division of Hazardous Waste Remediation  
50 Wolf Road  
Albany, New York 12233-7010

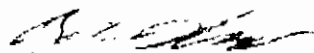
Subject: Asphalt Installation at the FAS - Oswego Site

Dear Gentlemen:

Enclosed please find OBG Technical Services plan to install asphalt to widen the access road at the FAS - Oswego site. As we have discussed previously, the widening of the road will allow the tank trucks used to remove leachate more room to maneuver. We intend to commence work the week of August 17, 1992.

Please call me if you have any questions.

Sincerely,

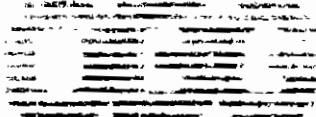


Bruce Thompson

cc: J. Moorman, Cadwalader, Wickersham & Taft  
M. Valentine, de maximis  
R. Ramon, US EPA  
T. Barry, OBG Technical Services

/Bj

File: gupta ltr/dsk BT



**TECHNICAL SERVICES**

RECEIVED JUL 27 1992

July 23 1992

Mr. Bruce Thompson  
de maximis, inc.  
9041 Executive Park Dr.  
Suite 601  
Knoxville, TN 37923

Re: PAS Lagovego Interim Groundwater Activities  
Subj: Asphalt Installation  
File: 56100 #1A

Dear Mr. Thompson

As requested, OBG Technical Services' proposed work plan for installation of asphalt pavement at the referenced site is presented below. The attached Figure Nos. 1 & 2 detail the proposed limits of additional asphalt and subgrade preparation, respectively.

**ASPHALT INSTALLATION**

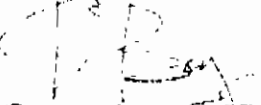
1. OBG Tech personnel will document existing site conditions, and lay out limits of asphalt, as shown on Figure 1.
2. OBG Tech personnel will excavate to required subgrade elevation (approximately 3" below existing grade - see fig. 2) utilizing a rubber tire backhoe. Excavated material (clean riprap) will be stockpiled on site, or regraded (as directed by the Management Committee).
3. OBG Tech personnel will compact the existing subgrade material, place soil stabilization fabric, and place and compact base material (5" compacted depth), as shown on Figure 2.
4. OBG Tech subcontractor (E. LaValle & Son Paving) will place 2" binder and 1" finish asphalt, as shown on Figure 2. OBG Tech personnel will supervise the asphalt installation work.

Please advise if the proposed work plan is acceptable. Following approval we can develop an installation schedule. The estimated duration for the proposed effort is approximately 1 week start-to-finish.

If you have any questions, or require additional information, please contact me at your convenience.

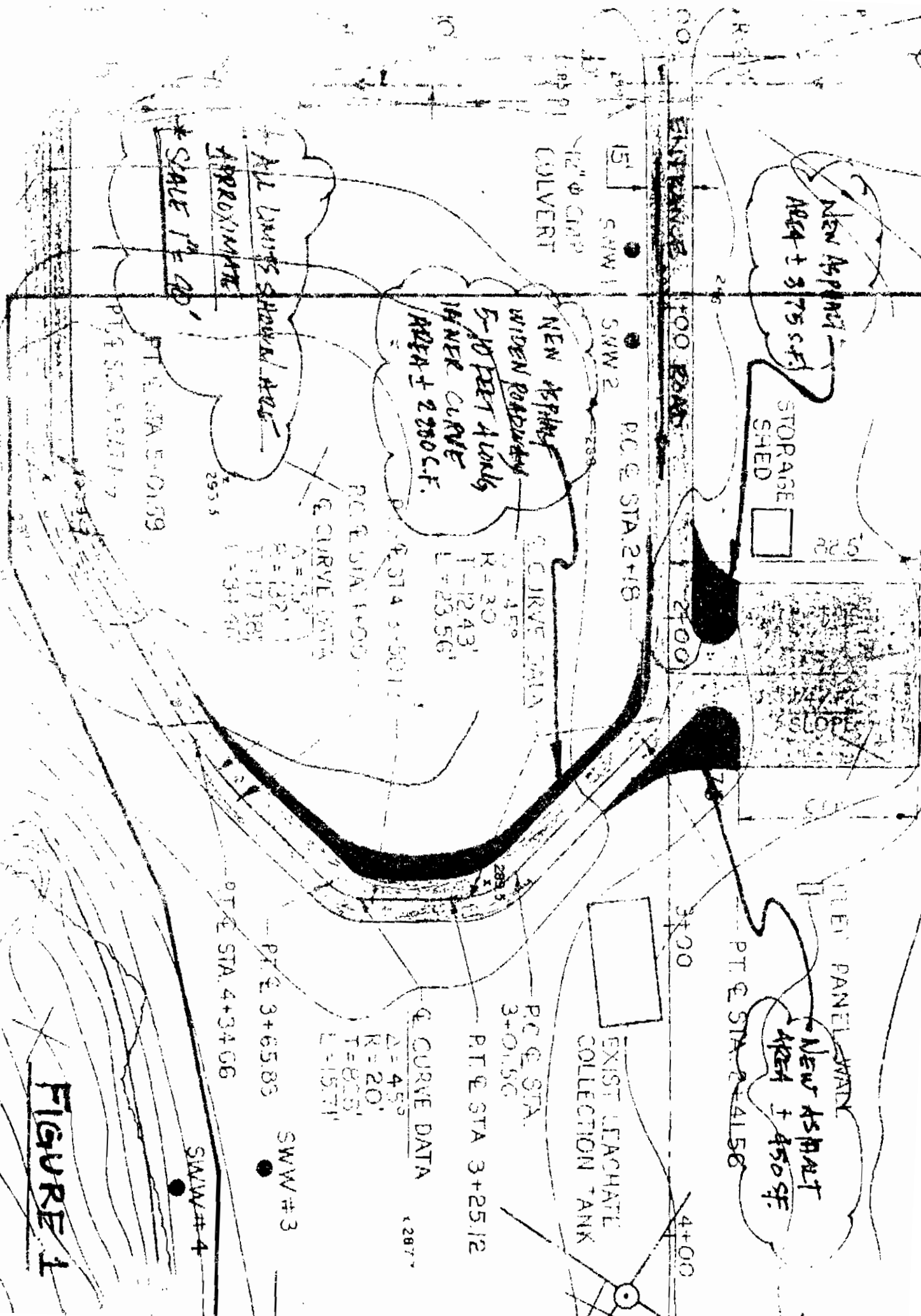
Very truly yours,

**OBG TECHNICAL SERVICES, INC.**

  
Timothy J. Barry, PE  
Sr. Project Supervisor

TJB/ems





NEW ASPHALT  
AREA ± 3,775 SF

STORAGE SHED

NEW ASPHALT  
AREA ± 4,450 SF

NEW ASPHALT  
WIDEN ROADWAY  
5-10 FEET WIDEN  
INNER CURVE  
AREA ± 2,280 C.F.

12" Ø CORR  
COLVERT

15'

SWW #1

SWW #2

P.C. @ STA. 2+18

ENTRANCE

100 FEET

2+00

2+00

2+00

2+00

3+00

3+00

4+00

4+00

SLOPE

SLOPE

NEW PANEL DRAIN

EXIST. LEACHATE  
COLLECTION TANK

P.C. @ STA.  
3+01.56

P.T. @ STA. 3+25.12

Q. CURVE DATA

Δ = 45°  
R = 20'  
T = 8.25'  
L = 15.71'

P.T. @ STA. 4+34.06

P.T. @ 3+65.85

SWW #3

SWW #4

P.T. @ STA. 5+01.59

P.T. @ STA. 5+27.19

ALL DIMENSIONS SHOWN ARE  
APPROXIMATE

\* SCALE 1" = 40'

FIGURE 1

1. SEE TECHNICAL SPECIFICATIONS  
CONSTRUCTION NOTES

- NOTE:
- 1. PAVEMENT SLOPED TOWARDS CURB SIDE
  - 2. WHEREVER FOOTWAY PASSED OVER HDPE MEMBRANE (APPROX. STATIONS FROM STATIONS +04 TO 5+77), GEOTEXTILE STABILIZATION PANELS (MIRAFLEX OR EQUIV.) TO BE PLACED UNDER FULL WIDTH OF PAVEMENT COURSE.
  - \* MAINTAIN EXISTING PROFILE WITH ROADWAY EXTENSION
  - \* FILL MIRAFLEX BELOW 5" COMPACTED BASE COURSE

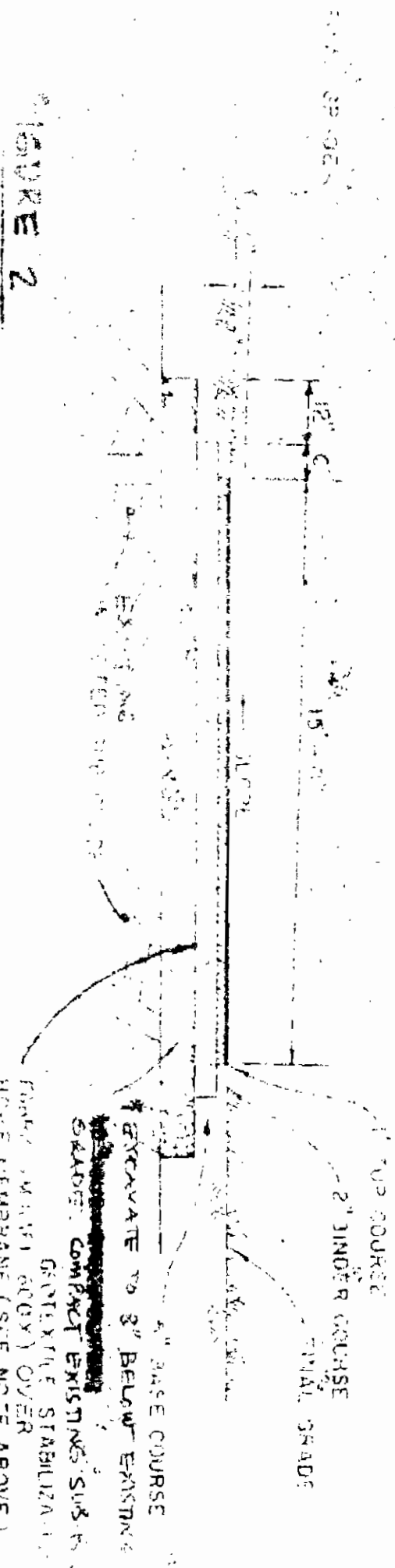


FIGURE 2

PAVEMENT ROADWAY SECTION

AUG 6 1992

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Proposed Discharge of Leachate to Oswego East POTW

This letter is in response to your letter dated July 16, 1992 regarding the difficulties between the PAS Steering Committee and the City of Oswego in pursuing discharging leachate from the PAS hazardous waste site to the City of Oswego Publicly Owned Treatment Works (POTW). It appears that the City may be willing to consider this project but is reluctant to pursue it without some sort of initial commitment from the Department of Environmental Conservation (DEC). A preliminary assessment was submitted by the Steering Committee to the City and to the Department but due to time constraints, the complex issues involving the City's treatment plant upgrade, and the lack of a complete formal application, the Department did not review the submittal.

I have been informed by the Department's Division of Water, who is responsible for administration and enforcement of the SPDES program, that the Department is presently developing an enforcement action against the City of Oswego for inadequately administering their pretreatment program. This has been a problem in Oswego for some time, and has resulted in significant impacts on the municipal treatment plant and thence on the environment. Until the successful completion of the DEC enforcement action, and Oswego's demonstrated implementation of pretreatment program acceptable to the DEC and EPA, the City will not be allowed to accept PAS wastewater.

After the City of Oswego has demonstrated its ability to implement an acceptable pretreatment program, they must evaluate their capabilities and submit a formal application as they would for any new discharge.

There are many issues to consider while studying alternatives:

- . the status of the City of Oswego pretreatment program
- . changes in the waste stream
- . flow rates anticipated
- . upgrade of the City of Oswego plant
- . Ontario discharge agreement for Oswego River
- . access to the plant
- . pretreatment of leachate if required.
- . moratorium on new discharges

As you can see it is difficult to provide any reasonable assurance of the acceptability of this solution without the City of Oswego implementing an acceptable pretreatment program and before they have submitted a full application. We believe it is in the best interest of all parties to fully coordinate this proposal with all the activities involved in operating the plant to be sure that there are no detrimental effects and that treatment is successful.

In order to assist in this effort the Department has included with this letter some general requirements which should be addressed in the formal application, to help in assuring that any application is as thorough and complete as possible.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

bcc: L. Flocke  
J. Demura  
C. Branagh  
A. Rockmore  
A. Gupta

a:discharg.wp:AKG:GR:et

# DRAFT

POLLUTION ABATEMENT SERVICES (PAS)  
DISCHARGE OF LEACHATE TO OSWEGO EAST POTW  
GENERAL REQUIREMENTS TO BE ADDRESSED IN SPDES PERMIT  
MODIFICATIONS APPLICATION

In order to properly review a request from the City of Oswego for a modification of their SPDES permit to accept the groundwater leachate from the Pollution Abatement Site at their Oswego East POTW, the City has to submit a complete application for the Departments review. A complete application should at least include, but not be limited to:

1. identify the name and location of the site generating the leachate;
2. indicate whether or not the leachate is a hazardous waste, and if hazardous, whether it is a "listed" or "characteristic" hazardous waste;
3. identify how the leachate will be conveyed from the site to the POTW;
4. identify where and in what manner the leachate will be introduced into the POTW;
5. identify the quantity of leachate which will be introduced into the POTW. Daily average and daily maximum flow rates in GPD and instantaneous peak flow rates in GPM should be provided;
6. adequately describe the quality of the leachate which will be introduced to the POTW. A stack of sample result data sheets, with no engineering analysis of the data thereon, is unacceptable. The leachate must be characterized for conventional, toxic, and nonconventional pollutants including all classes of priority pollutants. The average and maximum concentrations of substances believed present in the leachate must be identified. If available, sample results should be provided in support of this characterization. The sample results should include a description of where and how the samples were collected and a discussion of the reliability of the results. The lowest possible detection limit for individual toxic parameters should be attained.
7. include an updated POTW headworks analysis showing the current influent load, the maximum allowable influent load, and the influent load including the leachate (for each of the substances believed present in the leachate).
8. discuss whether or not pretreatment of the leachate will be necessary so that requirements of the following can be met:
  - a. the City sewer use ordinance
  - b. 40 CFS 403.5 (National pretreatment standards: Prohibited discharges) and any local discharge limits developed thereunder
  - c. the maximum allowable influent load from item 7
  - d. the current SPDES permit for the POTW



**DRAFT**

9. discuss any anticipated change in the quantity or quality of the effluent discharged from the POTW; and
10. discuss any proposed control procedures (permit, monitoring, enforcement, etc.) which will be imposed on the leachate discharge by the Control Authority (City of Oswego) under it's industrial pretreatment program. The Control Authority should also indicate whether or not the leachate discharge is proposed for classification as a Significant Industrial User (SIU) and provide the basis for that proposal. Please note that during review of the permittee's application, the Department may require the Control Authority to designate the leachate discharge as an SIU.
11. discuss any possibility that untreated leachate may be discharged via combined sewer overflow points in the Oswego East Side POTW Sewer System.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING  
NEW YORK, NEW YORK 10278

JUL 16 1992

JUL 22 1992

Mr. Gerald J. Rider, Jr., P.E., Chief  
Operation & Maintenance Section  
Bureau of Construction Services  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

Dear Mr. Rider:

As you are aware, the Pollution Abatement Services (PAS) potentially responsible party (PRP) steering committee's contractor has prepared a report that addresses the feasibility of sending the leachate from the PAS site to the City of Oswego's publicly-owned treatment works (POTW). It is our understanding that the New York State Department of Environmental Conservation (NYSDEC) will not review the subject report until the City of Oswego submits a State Pollution Discharge Elimination System (SPDES) permit application. The City of Oswego has indicated, however, that it will not submit an SPDES permit application until it receives some indication that the proposed connection has merit and is, at least in concept, approvable by NYSDEC.

While we recognize that NYSDEC must review a formal permit application from the City of Oswego before a decision regarding the acceptability of a connection to the POTW can be made, based upon our discussions with representatives of the PRP steering committee (who have discussed this matter with City of Oswego representatives), it appears that there is some uncertainty on the part of the City of Oswego relative to what information NYSDEC will require from the City of Oswego to support its SPDES permit application. We believe that if NYSDEC could delineate in a letter what must be demonstrated by the City of Oswego in support of its permit application (e.g., the results of a worst-case discharge analysis, pilot tests, toxicity tests, and sludge tests), then the City of Oswego might be more amenable to submitting a permit application. NYSDEC would, of course, reserve its right to reject the City of Oswego's proposal. At the very least, such a letter from NYSDEC would serve as a basis for future negotiations between the City of Oswego and the PRPs.

It would be appreciated if you could forward this request to the appropriate NYSDEC office.

If you have any questions regarding the above, please call me at (212) 264-1132, or Richard Ramon of my staff at (212) 264-1336.

Sincerely yours,



Joel Singerman, Chief  
Western New York Superfund Section I





al

8/4/92

OK

AKG  
Sent 8/6/92  
TJ

The region, <sup>Dew</sup> has made this letter very negative. Our first draft dealt with pretreatment issues in the broad sense.

However the region has the lead on the SPDES issue, therefore we probably should send the letter with their changes.

If we do then we should press EPA again to begin to negotiate when ~~the~~ the consent order has 12-18 months to run. The PRP's should continue to remove leachate. They may have to want to implement the ROD and the State should allow them to want providing they take over the whole site.

AL

DRAFT

8/4/92

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Proposed Discharge of Leachate to Oswego East POTW

This letter is in response to your letter dated July 16, 1992 regarding the difficulties between the PAS Steering Committee and the City of Oswego in pursuing discharging leachate from the PAS hazardous waste site to the City of Oswego Publicly Owned Treatment Works (POTW). It appears that the City may be willing to consider this project but is reluctant to pursue it without some sort of <sup>initial</sup> commitment from the Department of Environmental Conservation (DEC). A preliminary assessment was submitted by the Steering Committee to the City and to the Department but due to time constraints, the complex issues involving the City's treatment plant upgrade, and the lack of a complete formal application, the Department did not review the submittal.

I have <sup>been informed by the Department's Division of water, who is responsible</sup> ~~recently become aware~~ that the Department is presently developing an enforcement action against the City of Oswego for inadequately administering their pretreatment program. ~~Poor administration of the pretreatment program~~ <sup>this</sup> has been a problem in Oswego for some time, and has resulted in significant impacts on the municipal treatment plant and thence on the environment. Until the successful completion of the DEC enforcement action, and Oswego's demonstrated implementation of pretreatment program acceptable to the DEC and EPA, the City <sup>will</sup> ~~should~~ not be allowed to accept PAS wastewater.

After the City of Oswego has demonstrated its ability to implement an acceptable pretreatment program, they must evaluate their capabilities and submit a formal application as they would for any new discharge.

for administration and enforcement of the SPDES program

There are many issues to consider while studying alternatives:

- . the status of the City of Oswego pretreatment program
- . changes in the waste stream
- . flow rates anticipated
- . upgrade of the City of Oswego plant
- . Ontario discharge agreement for Oswego River
- . access to the plant
- . pretreatment of leachate if required.
- . moratorium on new discharges

As you can see it is difficult to provide any reasonable assurance of the acceptability of this solution without the City of Oswego implementing an acceptable pretreatment program and before they have submitted a full application. We believe it is in the best interest of all parties to fully coordinate this proposal with all the activities involved in operating the plant to be sure that there are no detrimental effects and that treatment is successful.

In order to assist in this effort the Department has included with this letter some general requirements which should be addressed in the formal application, to help in assuring that any application is as thorough and complete as possible.

Sincerely,

General J. Rider, Jr., P.E.  
Chief Operation & Maintenance Section  
Executive Construction Services  
Division of Hazardous Waste Remediation

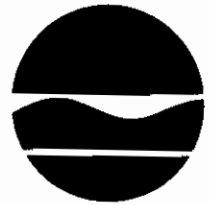
Attachment

bcc: L. Flocke  
J. Demura  
C. Branagh  
A. Rockmore  
A. Gupta

a:discharg.wp:AKG:GR:et

New York State Department of Environmental Conservation  
615 Erie Blvd. W., Syracuse, NY 13204-2400

AKG  
for  
PAS



Thomas C. Jorling  
Commissioner

MEMORANDUM

TO: Gerald J. Rider, Jr., Chief, O & M Section, Albany 7010  
FROM: Leland C. Flocke, Region 7 Water Engineer  
SUBJECT: PAS

DATE: July 29, 1992

-----

As stated in my previous comment, the pretreatment program in Oswego has been inadequate and we are developing an enforcement case to achieve meaningful administration of that program and a planned wastewater facilities expansion program so that all industrial, commercial and private users can be adequately served. Until the successful completion of the enforcement action, and the implementation of a pretreatment program acceptable to the DEC and EPA, PAS should not be allowed to discharge to the municipal plant.

I suggest the following changes be made to the letter:

1. At the end of paragraph 2, add the following:  
"Until the successful completion of the DEC enforcement action, and Oswego's demonstrated implementation of pretreatment program acceptable to the DEC and EPA, the City should not be allowed to accept PAS wastewater."
2. Add to the first sentence of paragraph 3 the following:  
"After the City of Oswego has demonstrated its ability to implement an acceptable pretreatment program, they"....must evaluate their capabilities and...."
3. Insert into the first sentence of paragraph 4 the following:  
Acceptability of this solution without... "The City of Oswego implementing an acceptable pretreatment program and before they have submitted"...a full application.

LF/cr  
a:rider.lf

cc: C. Branagh  
S. Lizlovs  
D. Halton  
R. Cronin  
T. Fucillo, Esq.

AUG - 4 1992



New York State Department of Environmental Conservation

MEMORANDUM

TO: Charles Branagh, RHWE, Region 7  
FROM: Lee Flocke, Div. of Water, Region 7  
SUBJECT: Gerald J. Rider, Jr., Chief, O&M Section, Bur. of Construction Services  
Site #7-38-001 - Pollution Abatement Services (PAS)

*A. K. Gupta for GJR*

DATE: JUL 28 1992

Attached is a copy of USEPA letter dated July 16, 1992. Also attached is a revised draft response to the USEPA relative to the proposed discharge of leachate from PAS site to the Oswego East POTW.

If this letter is okay with you we will send it. I would appreciate your comments/thoughts ASAP.

If you have any questions please call me or A. K. Gupta at 518/457-0927.

Attachment

a:discharg.wp.AKG:et

**FAX MEMO**  
# PAGES 2 DATE 7/28 FAX # 518/457-2743  
TO C. Branagh / L. Flocke  
FROM A. K. Gupta  
CO.  
FAX # 518/457-0927 FAX # 518/457-2743

*7/29/92 discussed with Jerry - Hold.*  
*7/29/92 Charlie Branagh - No comment.*  
*Lee Flocke ~~was~~ have some*  
*he is working on this Sandy Lislo*

*sent*

**DRAFT**

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Proposed Discharge of Leachate to Oswego East POTW

This letter is in response to your letter dated July 16, 1992 regarding the difficulties between the PAS Steering Committee and the City of Oswego in pursuing discharging leachate from the PAS hazardous waste site to the City of Oswego Publicly Owned Treatment Works (POTW). It appears that the City may be willing to consider this project but is reluctant to pursue it without some sort of commitment from the Department of Environmental Conservation (DEC). A preliminary assessment was submitted by the Steering Committee to the City and to the Department but due to time constraints, the complex issues involving the City's treatment plant upgrade, and the lack of a complete formal application, the Department did not review the submittal.

I have recently become aware that the Department is presently developing an enforcement action against the City of Oswego for inadequately administering their pretreatment program. Poor administration of the pretreatment program has been a problem in Oswego for some time, and has resulted in significant impacts on the municipal treatment plant and thence on the environment.

The City of Oswego must evaluate their capabilities and submit a formal application as they would for any new discharge.

There are many issues to consider while studying alternatives:

- . the status of the City of Oswego pretreatment program
- . changes in the waste stream
- . flow rates anticipated
- . upgrade of the City of Oswego plant
- . moratorium on new discharges

**DRAFT**

Mr Singerman

Page 2

- . Ontario discharge agreement for Oswego River
- . access to the plant
- . pretreatment of leachate if required.

As you can see it is difficult to provide any reasonable assurance of the acceptability of this solution without a full application. We believe it is in the best interest of all parties to fully coordinate this proposal with all the activities involved in operating the plant to be sure that there are no detrimental effects and that treatment is successful.

In order to assist in this effort the Department has included with this letter some general requirements which should be addressed in the formal application, to help in assuring that any application is as thorough and complete as possible.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

bcc: L. Flocke  
J. Demura  
C. Branagh  
A. Rockmore  
A. Gupta

a:discharg.wp:AKG:GR:et

SUBJECT	SHEET	BY	DATE	JOB NO.
---------	-------	----	------	---------

7/27/92 MEETING - PAS INTERIM GROUNDWATER REMOVAL

Attendees -

<u>NAME</u>	<u>Affiliation</u>	<u>Number</u>
Mark Valentine	de maximis	615-691-5052
Robert P. Yunick	Schenectady Chemicals, Inc.	518-370-4200
A.K. GUPTA	DEC	518-457-0927
GERALD J. RIDER, JR	DEC	518-457-0927
Paul Hare	GE	518-458-6613
Bruce Kim	Roy F. Weston - TATI	908-225-6116
Louis DiGuardia	USEPA	908-906-6927
TIM BARRY	OBG Tech Services	315-437-6400
JOHN TOMIK	O'Brien & Gere Engineers	315-437-6100.



*de maximis, inc.*

1001 Executive Park Drive  
Suite 401  
Evansville, IN 47913  
(317) 691-9052  
Fax (317) 691-0489

July 24, 1992

**VIA FACSIMILE**

Mr. Louis DiGuardia  
Removal Action Unit  
USEPA  
2890 Woodford Drive  
Edison, NJ 08818-3199

**Subject: PAS Oswego Site  
Interim Groundwater Removal Activities  
Oswego, New York**

Dear Mr. DiGuardia:

This is to advise you regarding the ADEU. The ADEU is a permit to install and operate a groundwater remediation system at the Oswego Site. The ADEU is a permit to install and operate a groundwater remediation system at the Oswego Site. The ADEU is a permit to install and operate a groundwater remediation system at the Oswego Site. The ADEU is a permit to install and operate a groundwater remediation system at the Oswego Site.

Directions to General Electric's site are provided below:

Take the Wolf Road exit off of I-190 at I-190 Exit 107.  
Turn right on Wolf Road at the end of the interchange.  
Turn right onto Computer Drive at the second traffic light on Wolf Road.  
Turn left onto Computer Drive - South, two blocks down Computer Drive.  
The second building on the right is Computer Drive - South.  
Stop before the building. The building is the General Electric site. Please call the receptionist and ask for Paul Hare.

Very truly yours,  
De Maximis, Inc.

Paul Hare, Director

Journal of ...  
Page 2 of 2

... ..  
p. 151-152

...

...

...

- A. ...
- B. ...
- C. ...
- D. ...
- E. ...

...





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING  
NEW YORK, NEW YORK 10278

JUL 16 1992

J 22 1992

Mr. Gerald J. Rider, Jr., P.E., Chief  
Operation & Maintenance Section  
Bureau of Construction Services  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, NY 12233-7010

Dear Mr. Rider:

As you are aware, the Pollution Abatement Services (PAS) potentially responsible party (PRP) steering committee's contractor has prepared a report that addresses the feasibility of sending the leachate from the PAS site to the City of Oswego's publicly-owned treatment works (POTW). It is our understanding that the New York State Department of Environmental Conservation (NYSDEC) will not review the subject report until the City of Oswego submits a State Pollution Discharge Elimination System (SPDES) permit application. The City of Oswego has indicated, however, that it will not submit an SPDES permit application until it receives some indication that the proposed connection has merit and is, at least in concept, approvable by NYSDEC.

While we recognize that NYSDEC must review a formal permit application from the City of Oswego before a decision regarding the acceptability of a connection to the POTW can be made, based upon our discussions with representatives of the PRP steering committee (who have discussed this matter with City of Oswego representatives), it appears that there is some uncertainty on the part of the City of Oswego relative to what information NYSDEC will require from the City of Oswego to support its SPDES permit application. We believe that if NYSDEC could delineate in a letter what must be demonstrated by the City of Oswego in support of its permit application (e.g., the results of a worst-case discharge analysis, pilot tests, toxicity tests, and sludge tests), then the City of Oswego might be more amenable to submitting a permit application. NYSDEC would, of course, reserve its right to reject the City of Oswego's proposal. At the very least, such a letter from NYSDEC would serve as a basis for future negotiations between the City of Oswego and the PRPs.

It would be appreciated if you could forward this request to the appropriate NYSDEC office.

If you have any questions regarding the above, please call me at (212) 264-1132, or Richard Ramon of my staff at (212) 264-1336.

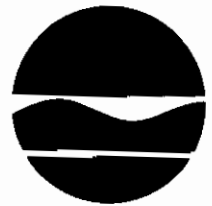
Sincerely yours,

A handwritten signature in cursive script, appearing to read "Joel Singerman".

Joel Singerman, Chief  
Western New York Superfund Section I

New York State Department of Environmental Conservation  
615 Erie Blvd. W., Syracuse, NY 13204-2400

AKK



Thomas C. Jorling  
Commissioner

MEMORANDUM

TO: Gerry Rider via Charlie Branagh  
FROM: Lee Flocke  
SUBJECT: PAS WASTEWATER *Lee Flocke*  
DATE: July 17, 1992

-----

Please be advised that the Division of Water is presently developing an enforcement action against the City of Oswego for inadequately administering their pretreatment program. This is being done as a result of EPA pressure on the Division.

Poor administration of the pretreatment program has been a problem in Oswego for some time, and has resulted in significant impacts on the municipal treatment plant and thence on the environment.

It seems inappropriate for one arm of the EPA/DEC to be encouraging the City to accept PAS wastewater, while another arm of the DEC/EPA has decided that the City is handling the pretreatment program poorly and is thus using its enforcement powers to seek a resolution to the problem.

LF/cr  
a:rider.lf

JUL 22 1992

SPEED  
MESSAGE 44-900

**Wilson Jones** Carbonless  
Snap-A-Way® Forms

SPEED MESSAGE

TO

Charlie BRANASH

LEE FLOCKE

ALR  
as AKG

FROM

Jerry Rider

SUBJECT

PAS

DATE

JULY 10, 1992

EPA has informed us that the negotiations between the PAS  
responsible parties and the city are at a standstill.

We have drafted a letter to EPA to clarify DEC's position  
on the status of any proposed application the city  
of Oswego may submit to accept PAS leachate

IF this letter is ok with you we will send it.

Could you let me or AK Gupta know your thoughts  
in a couple of days. Thanks.

SIGNED

ORIGINAL

**FAX MEMO**

FROM: S. DUB 711/12/92 315 426-7400 ✓  
TO: CHARLIE BRANASH  
FROM: G. RIDER  
CC:  
FOR:

Wilson Jones - Carbonless - MADE IN US  
44-900 Duplicate

NOTE: PLEASE PROVIDE A COPY TO LEE FLOCKE

THANKS!

JERRY.

**DRAFT**

9/10/92

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Proposed Discharge of Leachate to Oswego East POTW

This letter is in response to our telephone discussion during which you mentioned that there are difficulties between the PAS Steering Committee and the City of Oswego in pursuing discharging leachate from the PAS hazardous waste site to the City of Oswego Publicly Owned Treatment Works (POTW). It appears that the City may be willing to consider this project but is reluctant to pursue it without some sort of commitment from the Department of Environmental Conservation (DEC). A preliminary assessment was submitted by the Steering Committee to the City and to the Department but due to time constraints, the complex issues involving the City's treatment plant upgrade, and the lack of a complete formal application, the Department did not review the submittal in detail.

There are many issues to consider while studying alternatives:

- . the status of the City of Oswego pretreatment program
- . changes in the waste stream
- . flow rates anticipated
- . upgrade of the City of Oswego plant
- . moratorium on new discharges
- . Ontario discharge agreement for Oswego River
- . access to the plant
- . pretreatment of leachate if required.

As you can see it is difficult to provide any reasonable assurance of the acceptability of this solution without a full application. We believe it is in the best interest of all parties to fully coordinate this proposal with the activities involved in upgrading the plant to be sure that there are no detrimental effects and that treatment is successful.

**DRAFT**

Mr. Singerman

Page 2

We encourage the steering committee to work with the City of Oswego to submit a formal application for the modification of the City's SPDES permit.

In order to assist in this effort the Department has included some general requirements which should be addressed in the formal application, to help in assuring that the application is as thorough and complete as possible.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

a:discharg.wp:AKG:GR:et

*[Handwritten notes and signatures, including "Discharge", "SPDES", and "Waste Remediation"]*



# DRAFT

POLLUTION ABATEMENT SERVICES (PAS)  
DISCHARGE OF LEACHATE TO OSWEGO EAST POTW  
GENERAL REQUIREMENTS TO BE ADDRESSED IN SPDES PERMIT  
MODIFICATIONS APPLICATION

In order to properly review <sup>a</sup> ~~new~~ requests from the City of Oswego for a modification of their SPDES permit to accept the groundwater leachate from the Pollution Abatement Site at their Oswego East POTW, the City has to submit a complete application for the Departments review. A complete application should at least include, but not be limited to:

1. identify the name and location of the site generating the leachate;
2. indicate whether or not the leachate is a hazardous waste, and if hazardous, whether it is a "listed" or "characteristic" hazardous waste;
3. identify how the leachate will be conveyed from the site to the POTW;
4. identify where and in what manner the leachate will be introduced into the POTW;
5. identify the quantity of leachate which will be introduced into the POTW. Daily average and daily maximum flow rates in GPD and instantaneous peak flow rates in GPM should be provided;
6. adequately describe the quality of the leachate which will be introduced to the POTW. A stack of sample result data sheets, with no engineering analysis of the data thereon, is unacceptable. The leachate must be characterized for conventional, toxic, and nonconventional pollutants including all classes of priority pollutants. The average and maximum concentrations of substances believed present in the leachate must be identified. If available, sample results should be provided in support of this characterization. The sample results should include a description of where and how the samples were collected and a discussion of the reliability of the results. The lowest possible detection limit for individual toxic parameters should be attained.
7. include an updated POTW headworks analysis showing the current influent load, the maximum allowable influent load, and the influent load including the leachate (for each of the substances believed present in the leachate).
8. discuss whether or not pretreatment of the leachate will be necessary so that requirements of the following can be met:
  - a. the City sewer use ordinance
  - b. 40 CFS 403.5 (National pretreatment standards: Prohibited discharges) and any local discharge limits developed thereunder
  - c. the maximum allowable influent load from item 7
  - d. the current SPDES permit for the POTW

**DRAFT**

9. discuss any anticipated change in the quantity or quality of the effluent discharged from the POTW; and
10. discuss any proposed control procedures (permit, monitoring, enforcement, etc.) which will be imposed on the leachate discharge by the Control Authority (City of Oswego) under its industrial pretreatment program. The Control Authority should also indicate whether or not the leachate discharge is proposed for classification as a Significant Industrial User (SIU) and provide the basis for that proposal. Please note that during review of the permittee's application, the Department may require the Control Authority to designate the leachate discharge as an SIU.
11. discuss any possibility that untreated leachate may be discharged via combined sewer overflow points in the Oswego East Side POTW Sewer System.

212  
11/13

**DRAFT**

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:


RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Proposed Discharge of Leachate to Oswego East POTW

This letter is in response to our telephone discussion during which you mentioned that there are difficulties between the PAS Steering Committee and the City of Oswego in pursuing discharging leachate from the PAS hazardous waste site to the City of Oswego Publicly Owned Treatment Works (POTW). It appears that the City may be willing to consider this project but is reluctant to pursue it without some sort of commitment from the Department of Environmental Conservation. <sup>(DEC)</sup> A preliminary assessment was submitted by the Steering Committee to the City and to the Department but due to time constraints, the complex issues involving the City's treatment plant upgrade, and the lack of a complete formal application, the Department did not review the submittal in detail. ~~This does not mean that the DEC is not in favor of approaching disposal of the leachate in this manner.~~

There are many issues to consider while studying alternatives:

- . the status of the City of Oswego pretreatment program
- . changes in the waste stream
- . flow rates anticipated
- . upgrade of the City of Oswego plant
- . moratorium on new discharges
- . Ontario discharge agreement for Oswego River
- . access to the plant
- . *pretreatment of leachate if required*

As you can see it is difficult to provide any reasonable assurance of the acceptability of this solution without a full application. We believe it is in the best interest of all parties to fully coordinate this proposal with the activities involved in upgrading the plant to be sure that there are no detrimental effects and that treatment is successful.



We encourage the steering committee to work with the City of Oswego to submit a formal application for the modification of the City's SPDES permit.

In order to assist in this effort the Department has included some general requirements which should be addressed in the formal application, to help in assuring that the application is as thorough and complete as possible.

We believe that the acceptance of PAS leachate at Oswego East POTW if feasible will benefit all parties as well as protect public health and the environment.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

a:discharg.wp:AKG:GR:et

POLLUTION ABATEMENT SERVICES (PAS)  
DISCHARGE OF LEACHATE TO OSWEGO EAST POTW  
GENERAL REQUIREMENTS TO BE ADDRESSED IN SPDES PERMIT  
MODIFICATIONS APPLICATION

In order to properly review <sup>a</sup> ~~the City of Oswego's~~ request for ~~the~~ <sup>from the City of Oswego</sup> modification of their SPDES permit to accept the groundwater leachate from the Pollution Abatement Site at their Oswego East POTW, the City has to submit a complete application for the Departments review. A complete application should at least include, but not be limited to:

1. identify the name and location of the <sup>Site</sup> ~~landfill~~ generating the leachate;
2. indicate whether or not the leachate is a hazardous waste, and if hazardous, whether it is a "listed" or "characteristic" hazardous waste;
3. identify how the leachate will be conveyed from the <sup>Site</sup> ~~landfill~~ to the POTW;
4. identify where and in what manner the leachate will be introduced into the POTW;
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7. include an updated POTW headworks analysis showing the current influent load, the maximum allowable influent load, and the influent load including the leachate (for each of the substances believed present in the leachate).
8. discuss whether or not pretreatment of the leachate will be necessary so that requirements of the following can be met:
  - a. the City sewer use ordinance
  - b. 40 CFS 403.5 (National pretreatment standards: Prohibited discharges) and any local discharge limits developed thereunder
  - c. the maximum allowable influent load from item 7
  - d. the current SPDES permit for the POTW

9. discuss any anticipated change in the quantity or quality of the effluent discharged from the POTW; and
10. discuss any proposed control procedures (permit, monitoring, enforcement, etc.) which will be imposed on the leachate discharge by the Control Authority (City of Oswego) under its industrial pretreatment program. The Control Authority should also indicate whether or not the leachate discharge is proposed for classification as a Significant Industrial User (SIU) and provide the basis for that proposal. Please note that during review of the permittee's application, the Department may require the Control Authority to designate the leachate discharge as an SIU.
11. *discuss any possible ~~control~~ possibility that untreated leachate may be discharged via Combined Sewer Overflow Points in the Oswego East Side POTW Sewer System.*  
The City of Oswego has been implementing an EPA approved Industrial Pretreatment Program since ~~\_\_\_\_\_~~, thus, submission of an application containing the above information ~~should not place a great burden the City.~~

**DRAFT**

Mr. Joel Singerman, Chief  
Western NY Remedial Action  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

Dear Mr. Singerman:

RE: Site #7-38-001  
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- . flow rates anticipated
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We believe that the acceptance of PAS leachate at Oswego East POTW if feasible will benefit all parties as well as protect public health and the environment.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

a:discharg.wp:AKG:GR:et



POLLUTION ABATEMENT SERVICES (PAS)  
DISCHARGE OF LEACHATE TO OSWEGO EAST POTW  
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  - c. the maximum allowable influent load from item 7
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The City of Oswego has been implementing an EPA approved Industrial Pretreatment Program since \_\_\_\_\_, thus, submission of an application containing the above information should not place a great burden the City.

A.K.

JUN 22 1992

Mr. Bruce Thompson  
de maximums, Inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

Dear Mr. Thompson:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Fall 1991 Environmental Monitoring Report

Per your request, attached is a copy of the Fall 1991 Environmental Monitoring Report prepared by URS Consultants, Inc. under contract with the New York State Department of Environmental Conservation (NYSDEC). As you will see this report also includes data of past sampling performed by the NYSDEC.

If you have any questions, please call me at 518/457-0927.

Sincerely,



A. K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

bcc: G. Rider

a:91envimr.pas:AKG:et

A.K.



Thomas C. Jorling  
Commissioner

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233-7010

MAR 27 1992

Mr. Richard Ramon, PE  
Emergency & Remedial Response Division  
USEPA - Region II  
26 Federal Plaza - Rm. 29-100  
New York, NY 10278

Dear Mr. Ramon:

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Operation, Maintenance & Monitoring Activities

Per your request, attached is an updated brief description of Operation, Maintenance and Monitoring activities performed by the New York State Department of Environmental Conservation at the PAS Site.

The leachate removal and disposal activities are now being performed by the Responsible Parties.

If you have any questions, please call me at 518/457-0927.

Sincerely,

Ashok K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

a:briefdes.pas:AKG:et

BRIEF DESCRIPTION OF OPERATION, MAINTENANCE AND MONITORING (OM&M)  
ACTIVITIES PERFORMED BY NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AT

POLLUTION ABATEMENT SERVICES

SITE ID # 07-38-001

MARCH 1992

The majority of remediation work at this site has been completed. The site is being operated, maintained, and monitored. The standby consultant to NYSDEC, URS Consultants, Inc. (URS), has been tasked to provide OM&M activities until December 1993. On September 30, 1991, an interim consent order was signed between USEPA and the Responsible Parties (RP) for the removal and disposal of groundwater from this site. The RP's began groundwater removal in February 1992. The current OM&M activities performed by NYSDEC include:

- a. Long Term Monitoring: This activity is performed by URS. The long term groundwater monitoring network consists of 31 wells. In addition to the monitoring well network, four surface water/sediment sampling locations are incorporated into the long-term monitoring program. Thirteen wells have been included in the spring sampling program and nineteen wells have been included in the fall sampling program. Surface water/sediment sampling is included in the fall sampling program. All wells will be sampled every five years. A summary report is developed after each sampling event, and includes all OM&M activities performed at this site during the reporting period.
- b. Other Miscellaneous Activities: Provided by Div. of Operations (NYSDEC)
  1. Maintenance of Security Fence (3760 LF).
  2. Maintenance of Cap by Mowing of grass, Fertilization, Seeding and Erosion Control etc. (8 acres, 2/yr.).
  3. Maintenance of two french drains (500 LF) and concrete drainage ditch (800 LF).
  4. Maintenance of access road (678' x 16') and parking area (60' x 60').

PROJECT ENGINEER: A. K. Gupta, Operation & Maintenance Section (518) 457-0927

COSTS:

Current cost of \$125,000/yr. is being estimated for the OM&M activities performed by the NYSDEC at this site.

a:pasupdte.epa:AKG:et



**TECHNICAL SERVICES**

P.O. Box 5240 / 5000 Brittonfield Parkway / Syracuse, New York 13220 / (315) 437-6400

**Transmittal**

MAR 17 1992

To: Mr. Louis DiGuardia, OSC  
Removal Action Branch  
USEPA  
2890 Woodbridge Ave.  
Edison, NJ 08837

Date: March 12, 1992  
File: C56100 #8  
Re: PAS Oswego Interim Groundwater  
Activities/AOC: CERCLA - 10221

*"What DEC is Doing"*

Gentlemen: We are sending you   X   herewith

           drawings            signature            letters   X   Other

Quan.	Date	Description
3		Series 3311 "Master" Lock Keys
		House Public Works & TRANSP COMMY
		Senate Sub Comm on O&Sight & Invest
		on Municipal Liability
		<del>APR 17 1992</del> (NO)

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE \_\_\_\_\_ 19\_\_\_\_\_
- Approved as submitted
- Approved as noted
- Returned for corrections
- Resubmit \_\_\_\_\_ copies for approval
- Submit \_\_\_\_\_ copies for distribution
- Return \_\_\_\_\_ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS: The PAS Oswego Site entrance gate, monitoring wells, leachate tank, and storage shed have been re-equipped with "Master" Series 3311 locks. The enclosed key(s) are provided for your use, as required, to gain access to the site. Please let me know if any other individual(s) require a key to the site.

If material received is not as listed, please notify us at once.


cc.

- AK Gupta - NYSDEC Albany (2)
- Bob Edwards - NYSDEC Albany (1)
- Eric Knapp - NYSDEC Syracuse (1)
- Bruce Thompson - de maximis (1)
- Laine Vignona - Gerritz & Miller (1)

Very truly yours,  
OBG TECHNICAL SERVICES, INC.

*Timothy Barry*

Timothy J. Barry, PE  
Project Supervisor

  
*de maximis, inc.*

FEB 14 1992

9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923  
(615) 691-5052

VIA FAX

February 7, 1992

Mr. Louis Di Gaurdia, OSC  
Removal Action Branch  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, NJ 08837-1679

**SUBJECT: OBG TECHNICAL SERVICES DRAFT WORKPLAN  
INTERIM GROUNDWATER REMOVAL**

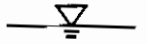
Dear Mr. DiGuardia:

I am writing to confirm our discussions at the PAS Oswego Site during our February 6, 1992 site removal activities. Specifically, I am confirming our agreement on sampling of the leachate for disposal purposes.

As agreed, we will revise the draft workplan in response to your comments on your January 30, 1992 letter as modified by our discussion on February 6, 1992. Our understanding of the specific modifications to the US EPA comments of January 30, 1992 letter include the following.

- \* The leachate sampling and analysis will be as described in Section 3.03 of the January 27, 1992 draft workplan (includes non-CLP TCL/TAL) with the exception of the volatiles analysis, which will be done using GC/MS (US EPA Method 8240) instead of GC procedures. US EPA Contract Laboratory Program (CLP) analysis of the leachate is not required.
- \* The Quality Assurance Project Plan (QAPP) will be revised as needed to clarify quality assurance/quality control procedures for non-CLP analysis. Specific items discussed include clarification of sample preservation/holding times and elimination of independent data validation.
- \* Calibration procedures for field analyses and measurements will be added to the QAPP.

Our revised workplan, which will be submitted by February 13, 1992, will contain our response to the US EPA January 30, 1992 comments. The revised workplan will incorporate the understanding described above, as well as any other revisions to the draft workplan as may be appropriate.



*de maximis*

OBG plans to be at the PAS Oswego Site on Monday, February 10, 1992 to conduct removal activities and collect a sample of the leachate from the leachate collection tank following pumping of approximately 10,000 gallons from the collection wells. Our understanding is that Weston, a US EPA contractor, will be onsite to collect a split sample of the leachate.

Two tankers from Buffalo Fuels are scheduled for February 10th to load and transport the leachate removed to Dupont, Deepwater NJ for disposal.

If you have any questions, please call me.

Sincerely,

Mark Valentine

cc: PAS Management Committee  
A Gupta  
R Edwards  
R Ramon  
C Berns



▽

*de maximis, inc.*

FEB 11 1992

February 5, 1992

9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923  
(615) 691-5052

**VIA FEDERAL EXPRESS**

Mr. David Abrimes  
US EPA, Region II  
Permits Administration Branch  
26 Federal Plaza, Room 505  
New York, NY 10278

Subject: Change of Address for US EPA  
Generator ID# NYD000511659

Dear Mr. Abrimes:

Please change the address of record and generator's phone number for the subject ID number.

**(Old Address)**

NYS DEC (PAS Site-O&M)  
50 Wolf Road  
Albany, NY 12233  
(315) 437-5677

**(New Address and Phone Number)**

PAS-OSWEGO Interim Groundwater Removal Trust  
c/o OBG Technical Services  
5000 Britton Field Parkway  
Syracuse, NY 13220  
(315) 437-6400  
Attn: PAS - Interim Groundwater Removal  
Project Supervisor

We plan to remove and dispose of waste from the site using EPA Waste Code Number F039, in addition to codes previously used by NYSDEC, including F004, D018, and D043.

This change becomes effective on February 6, 1992.

If you have any questions please call me.

Sincerely,



Mark Valentine  
Project Manager

cc: NYS DEC (via FedX)  
Manifest Section  
PO Box 12820  
Albany, NY 12212  
A. Gupta - NYS DEC  
R. Ramon - US EPA

J. Fox - OBG Technical Services  
PAS Management Committee  
L. DiGuardia - US EPA  
C. Berns - US EPA  
R. Edwards - NYS DEC

psm/genid/pl

▽  
—  
*de maximis, inc.*

9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923  
(615) 691-5052

February 11, 1992

Ms. Michelle VanBergen  
New York Telephone  
158 State Street, Room 501B  
Albany, New York 12207

Subject: Account Number 316/343-6230-629-250

Dear Ms. VanBergen:

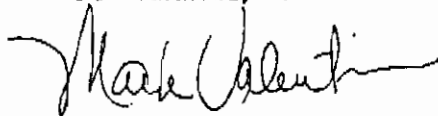
On an interim basis, groundwater removal activity at the Pollution Abatement Services (PAS) - Oswego Site, (location of above telephone) has been taken over by the PAS - Oswego Site Interim Groundwater Removal Trust. Therefore, it is requested that the name and address of the above mentioned account be changed as follows effective February 18, 1992 until further notice.

PAS - Oswego Site Interim Groundwater Removal Trust  
c/o Mark Valentine, Project Coordinator  
*de maximis, inc.*  
9041 Executive Park Drive, Suite 401  
Knoxville, Tennessee 37923

If you have any questions please contact me.


Sincerely,

*de maximis, inc.*



Mark Valentine  
(615) 691-5052  
psm

APPROVED BY:



A.K. Gupta  
NYS Dept. of Environmental Conservation  
(518) 457-0927

3045fon\p

~~SECRET~~

*de maximis, inc.*

904 EXECUTIVE PARK DRIVE  
Suite 401  
Knoxville, TN 37923  
(615) 691-5052

February 11, 1992

Ms. Michelle VanBergen  
New York Telephone  
158 State Street, Room 501B  
Albany, New York 12207

Subject: Account Number 316.343 6230-629-250

Dear Ms. VanBergen:

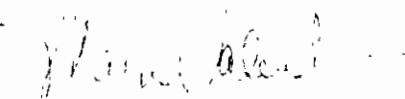
On an interim basis, groundwater removal activity at the Pollution Abatement Services (PAS) - Oswego Site, (location of above telephone) has been taken over by the PAS - Oswego Site Interim Groundwater Removal Trust. Therefore, it is requested that the name and address of the above mentioned account be changed as follows effective February 18, 1992 until further notice:

PAS - Oswego Site Interim Groundwater Removal Trust  
c/o Mark Valentine, Project Coordinator  
*de maximis, inc.*  
9041 Executive Park Drive, Suite 401  
Knoxville, Tennessee 37923

If you have any questions please contact me

Sincerely,

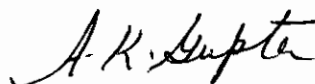
*de maximis, inc.*



Mark Valentine  
(615) 691-5052  
psm

3045ton/p

APPROVED BY:



A.K. Gupta  
NYS Dept. of Environmental Conservation  
(518) 457-0927

de maximis, inc.

9941 Executive Park Drive  
Suite 601  
Knoxville, TN 37923  
(615) 691-5052

## TRANSMITTAL SHEET

PROJECT/FILE NUMBER: 2005

DATE: 11/11/92

THIS FAX CONSISTS OF \_\_\_\_\_ PAGE(S) INCLUDING THIS COVER SHEET.

TO: A. K. GURIN

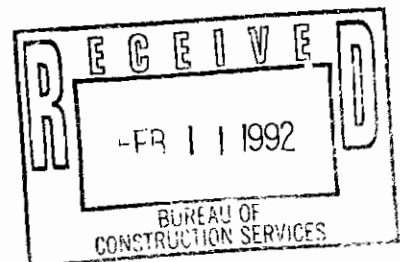
TELECOPIER NUMBER: 518-457-7743

FROM: Bruce Thompson

Please call (615) 691-5052 if there are any problems with this transmission (FAX Number 615 691-6485).

REMARKS:

*For your review/ comments.*



Unless otherwise indicated, the information contained in this facsimile message is privileged and confidential information intended for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error or are not sure whether it is privileged, please immediately notify us by telephone, and destroy all copies and return the original message to us at the above address via the U.S. Postal Service at our expense.

New York State Department of Environmental Conservation  
60 Wolf Road, Albany, New York 12243



Thomas C. Jorling  
Commissioner

Ms. Michelle VanBerg  
New York Telephone  
158 State Street, Room  
Albany, NY 12207

Dear Ms. VanBerg:

RE: Account Number 316/443-6230-629-250

*has*  
*on an interim basis groundwater removal activity*  
~~has been taken over by the Pollution~~  
Abatement Services (PAS) Oswego Site, (location of above telephone)  
has been taken over by the PAS - Oswego Site Interim Groundwater  
Removal Trust. Therefore, it is requested that the name and address  
of the above mentioned account be changed as follows effective  
February 12, 1992 *until further notice*

*18*  
PAS - Oswego Site Interim GW Removal Trust  
% Mark Valentine  
Project Coordinator  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

If you have any questions please contact us.

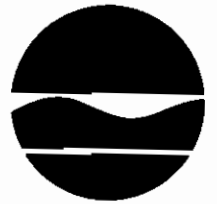
Sincerely,

Mark Valentine  
Project Coordinator  
615/691-5052

A. K. Gupta  
Project Manager  
510/457-0927

a:phones.pas:AK6:et

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling  
Commissioner

Mr. Mark Valentine  
Project Coordinator  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

FEB 2 1992

Dear Mr. Valentine:

RE: Site #7-38-001  
Pollution Abatement Services (PAS)  
Telephone Services

Enclosed is a letter addressed to New York Telephone requesting change of name and address for the telephone number 315/343-6230 at the PAS site. Please sign and fax it back to my attention so that I can sign and send it to New York Telephone.

If you have any questions, please call me at 518/457-0927.

Sincerely,

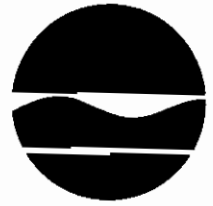
Ashok K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

a:phones.pas:AKG:et

**FAX MEMO**  
# PAGES 2 DATE 2/9/92 FAX #  
TO MARK VALENTINE  
FROM A. K. GUPTA  
CO. NYS DEC  
F1# 518/457 0927 FAX# 518/457-7743

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

158-471-518

Ms. Michelle VanBergen  
New York Telephone  
158 State Street, Room 501B  
Albany, NY 12207

Dear Ms. VanBergen:

RE: Account Number 315/343-6230-629-250

The operation and maintenance responsibility of the Pollution Abatement Services (PAS) - Oswego Site, (location of above telephone) has been taken over by the PAS - Oswego Site Interim Groundwater Removal Trust. Therefore, it is requested that the name and address of the above mentioned account be changed as follows effective February 12, 1992.

PAS - Oswego Site Interim GW Removal Trust  
% Mark Valentine  
Project Coordinator  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

If you have any questions please contact us.

Sincerely,

---

Mark Valentine  
Project Coordinator  
615/691-5052

---

A. K. Gupta  
Project Manager  
518/457-0927

a:phones.pas:AKG:et

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233-7010



**Thomas C. Jorling**  
Commissioner

JAN 28 1992

Mr. Mark Valentine  
Project Coordinator  
de maximus, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

RE: Site #7-38-001  
Pollution Abatement Services (PAS), Oswego County  
Interim Groundwater Removal Activities

Dear Mr. Valentine:

As discussed, enclosed is a copy of analytical results of leachate sampled during May 1991 and November 1991 from LCW-2 well at the PAS site. Please note that QA/QC on November 1991 data has not been completed yet.

Also, please be advised that a set of keys for the above mentioned site can be obtained by your authorized representative, today from Mr. John May of the New York State Department of Environmental Conservation (NYSDEC) Region 7 office. Your representative can get a duplicate of these keys made for your future use.

As discussed, the NYSDEC Region 7 office has two spare pump sets available for LCW wells. If required, these pumps can be borrowed for replacement purposes, but the repaired pumps will have to be returned to the Region 7 office for future needs.

If you have any questions, please call me at 518/457-0927.

Sincerely,

Ashok K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

cc: w/enc.: L. DiGuardia, USEPA  
w/o enc: R. Ramon, USEPA  
C. Berns, USEPA  
J. May, NYSDEC Reg. 7

a:intgwrem.pas:AKG:et  
bcc: C. Branagh, NYSDEC Reg. 7  
R. Lupe  
G. Rider



SAMPLING: Month 11 Year 91

Pollution Abatement Services  
Surface Water, Sediments and Leachate

Q/A/OC  
Q/NOI/MS/RES  
CONC/RES  
11/27/92

Well Number	SW-1	SW-2	SW-3	SW-4	SS-1	LCW-2	SS-3	SS-4	LCW-2
Date						5/91			11/91
<b>Volatile Compounds (ppb)</b>									
Acetone						5000D			5900
Benzene						700D			470J
Bromodichloromethane									
Bromochloromethane									
2-Butanone						870D			
Chloroethane									
Chlorobenzene						1200D			1000
Carbon Disulfide									
Carbon Tetrachloride									
Chloroform						30D			
Dibromochloromethane									
1,1-Dichloroethane									
1,2-Dichloroethane						210D			
1,1-Dichloroethylene									
1,2-Dichloroethylene (total)						12000D			3900
1,2-Dichloropropane									
cis-1,2-Dichloropropene									
trans-1,2-Dichloropropene									
Ethylbenzene						2800D			7500
2-Hexanone									
4-Methyl-2-Pentanone						3400D			3100
Methylene Chloride									
Styrene									
1,1,2,2-Tetrachloroethane									
Tetrachloroethylene									
Toluene						2400D			5500
1,1,1-Trichloroethane									
1,1,2-Trichloroethane									
Trichloroethylene									
Vinyl Acetate									
Vinyl Chloride						980D			500J
Xylenes (total)						17000D			14000

Post-It™ brand fax transmittal memo 7671 # of pages > 6

To: **P.K. GUPTA**  
 Co: **NYSDC**  
 Dept: **1**  
 FAX #: **212-856-7545**

From: **J. LYSIAK**  
 Co: **URS**  
 PHOTO #: **776-856-5636**  
 FAX #: **212-856-7545**

SAMPLING: Month 11 Year 91

Pollution Abatement Services  
Surface Water, Sediments and Leachate

Well Number	SW-1	SW-2	SW-3	SW-4	SS-1	LCN-2	SS-3	SS-4	LCW-2
Date						5/91			11/91
<b>Semivolatile Compounds (ppb)</b>									
Phenol									290
bis(2-Chloroethyl)Ether									
2-Chlorophenol									
1,3-Dichlorobenzene						5 J			
1,4-Dichlorobenzene									
Benzyl Alcohol									
1,2-Dichlorobenzene						110			69 J
2-Methylphenol									
bis(2-Chloroisopropyl)Ether									
4-Methylphenol									1600
N-Nitroso-Di-n-Propylamine									
Hexachloroethane									
Nitrobenzene									
Isophorone									
2-Nitrophenol									
2,4-Dimethylphenol						100			
Benzoic Acid									
bis(2-Chloroethoxy)Methane									
2,4-Dichlorophenol									
1,2,4-Trichlorobenzene									
Naphthalene									58 J
4-Chloroaniline						110			
Hexachlorobutadiene									
4-Chloro-3-Methylphenol									
2-Methylnaphthalene									
Hexachlorocyclopentadiene									
2,4,6-Trichlorophenol									
2,4,5-Trichlorophenol									
2-Chloronaphthalene									
2-Nitroaniline									
Dimethyl Phthalate									
Acenaphthylene									
2,6-Dinitrotoluene									
3-Nitroaniline									

SAMPLING: Month 11 Year 91

Pollution Abatement Services  
Surface Water, Sediments and Leachate

Well Number	SW-1	SW-2	SW-3	SW-4	SS-1	LCV/2	SS-3	SS-4	LCW-2
Date						5/91			11/91
Semi-volatile Compounds (cont'd)									
Acenaphthene									
2,4-Dinitrophenol									
4-Nitrophenol									
Dibenzofuran									
2,4-Dinitrotoluene									
Diethylphthalate									
4-Chlorophenyl-phenyl ether									
Fluorene									
4-Nitroaniline									
4,6-Dinitro-2-Methylphenol									
N-Nitrosodiphenylamine						23			
4-Bromophenyl-phenyl ether									
Hexachlorobenzene									
Pentachlorophenol									
Phenanthrene									
Anthracene									
Di-n-Butylphthalate						0.54			
Fluoranthene									
Pyrene									
Butylbenzylphthalate									
3,3'-Dichlorobenzidine									
Benzofluoranthracene									
Chrysene									
Bis(2-ethylhexyl)phthalate									
Di-n-octyl Phthalate									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Benzo(a)pyrene									
Indeno(1,2,3-cd)pyrene									
Dibenzo(a,h)anthracene									
Benzo(g,h,i)perylene									

**SAMPLING: Month 11 Year 91**

**Pollution Abatement Services  
Surface Water, Sediments and Leachate**

Well Number	SW-1	SW-2	SW-3	SW-4	SS-1	SS-2	SS-3	SS-4	LOW-2
Date						<u>5/91</u>			<u>11/91</u>
Metals/Inorganics (ppm)									
Aluminum						N/A			N/A
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									
Total Phenol									
Total Cyanide									
Hexavalent Chromium									N/A

**SAMPLING: Month 11 Year 91**

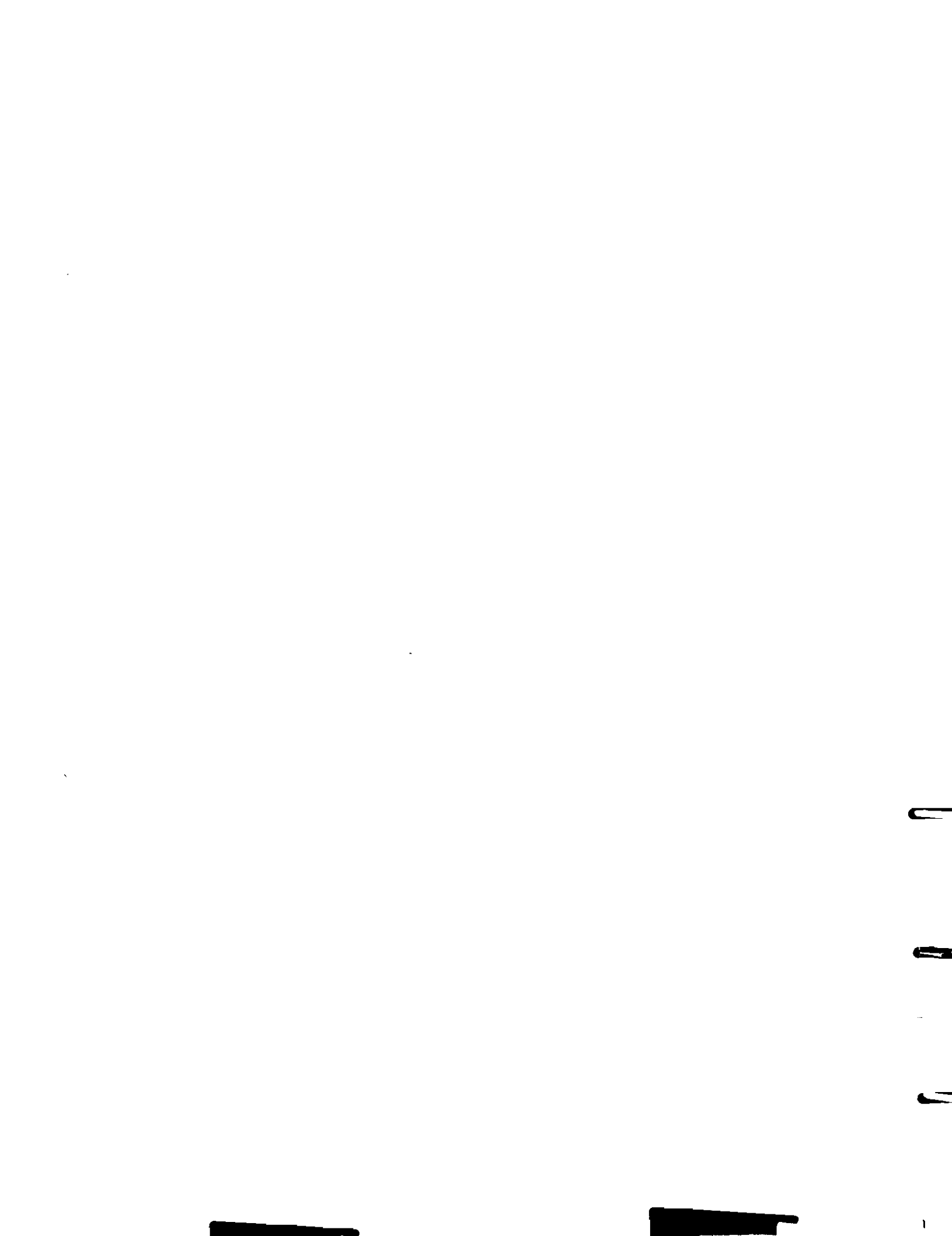
**Pollution Abatement Services  
Surface Water, Sediments and Leachate**

Well Number	SW-1	SW-2	SW-3	SW-4	SS-1	SS-2	SS-3	SS-4	LCW-2	LCW-2
Date									5/91	11/91
Pesticides and PCBs (ppb)	NA									
Alpha-BHC										NA
Beta-BHC										NA
Delta-BHC										NA
Gamma-BHC										NA
Heptachlor										NA
Aldrin										NA
Heptachlor epoxide										NA
Endosulfan I										NA
Dieldrin										NA
4,4'-DDE										NA
Endrin										NA
Endosulfan II										NA
4,4'-DDD										NA
Endosulfan Sulfate										NA
4,4'-DDT										NA
Methoxychlor										NA
Endrin Kelone										NA
Alpha-Chlordane										NA
Gamma-Chlordane										NA
Toxaphene										NA
Aroclor-1016										NA
Aroclor-1221										NA
Aroclor-1232										NA
Aroclor-1242										NA
Aroclor-1248										NA
Aroclor-1254										NA
Aroclor-1260										NA

SAMPLING: Month 11 Year 91

Pollution Abatement Services  
Surface Water, Sediments and Leachate

Well Number	LOW-2	LOW-2	SWW-3	SWW-11
Date	11/91	5/91		
Indicator Parameters (ppm)				
BOD	265	290		
COD	590	681		
TKN	60	60		
Total Phosphorus	0.02	-		
TOC	278	272		
TSS	39	70		
TDS	1570	2650		



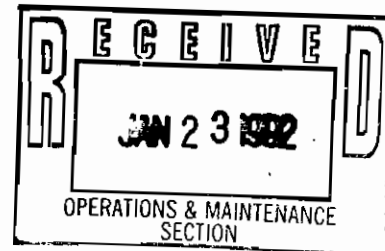


F42

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08837

January 23, 1992

Mr. Mark Valentine  
Project Coordinator  
de maximus, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923



Re: Conditional Approval of the Draft Work Plan - December 1991 - Interim Groundwater Removal Activities, Pollution Abatement Services Site (PAS), Oswego, NY

Dear Mr. Valentine:

Based upon the U.S. Environmental Protection Agency (EPA) September 30, 1991 Administrative Order (Index No. II CERCLA-10221) (the "Order"), and EPA's review of the December 1991 Draft Work Plan (the "Work Plan"), "Interim Groundwater Removal Activities, Pollution Abatement Services Site (PAS), Oswego, NY", EPA is giving conditional approval of the Work Plan subject to the resolution of comments discussed below in order to continue the pumping schedule the New York State Department of Environmental Conservation (NYSDEC) has maintained for the past two years to prevent the buildup of leachate behind the slurry wall.

Please be advised that actions conducted to date have not been consistent with terms of the Order. It has come to EPA's attention that a site visit was performed on November 16, 1991, for the purpose of sampling and analysis of the leachate for disposal analysis, with the analysis being performed directly by pre-selected disposal facilities.

As specified by paragraph 22.a of the Order, all planned on-site activities were to be submitted for scheduling to EPA before the initiation of on-site activities. The Work Plan should have incorporate an approved "Quality Assurance/Quality Control Plan (QA/QC)" for the sampling and analysis performed, and when the analytical results became available, they should have been presented to EPA for review for disposal classification and for EPA to verify the facilities compliance with EPA's Off-site Disposal Policy. All these activities were performed prior to the submission and/or approval of the Work Plan.

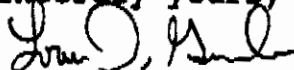


At this time, EPA is notifying you that failure to comply with all requirements, provisions or time limits of the Order could result in the assessment of stipulated penalties in accordance with paragraph 70 of the Order.

As specified in the Order, Respondents have fourteen (14) business days after receipt of EPA's comments (which were forwarded and received January 14, 1992) to amend the Work Plan as required and submit the modified Work Plan to EPA.

The NYSDEC has informed EPA that accumulated leachate behind the slurry wall is approaching dangerous levels and that expedited action is required within the next two weeks. Please notify and provide to me, EPA On-Scene Coordinator, at (201) 906-6927 your proposed plans for action.

Sincerely yours,



Louis DiGuardia, OSC  
Removal Action Branch

**Attachment**

cc: J. Rotola, RAB-SB  
G. Zachos, RAB  
R. Ramone, EPA  
C. Berns, ORC  
A.K. Gupta, NYSDEC  
PAS Oswego Management Steering Committee

**FAX MEMO**  
PAGE 1 DATE 12/27 FAX # 615-691-6485  
TO BRUCE THOMPSON  
FROM A. K. GUPTA, NYSDEC  
NY 513-487-0127 FAX

**HAZARDOUS WASTE MANIFEST**  
P.O. Box 12820, Albany, New York  
NY D 00091165977  
NYS DEC (P&S SITE - O&M)  
50 WOLF RD  
ALBANY, NY 12233

NY B **447742 8**  
OSWEGO, NY

Please type Do not Staple.

**HAZARDOUS WASTE MANIFEST**

1. Generator's Phone ( **315 437-5677** )  
2. Transporter 1 (Company Name) **ENVIRONMENTAL PRODUCTS SERVICES, INC NY D 980761191** State Transporter's ID **447742 8 (315) 471-0503**

7. Transporter 2 (Company Name) EPA ID Number

9. Designated Facility Name and Site Address  
**PROCIER CHEMICAL WASTE PROCESS, INC.**  
**4626 ROYAL AVENUE**  
**NIAGARA FALLS, NY 14303 NY D 043815703 716-285-6208**

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)  
**NO ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**  
**(XYLENE, DIMER)**  
**9 - PGII**  
Total Quantity **2018.0043** Unit **WT/VOI** Waste No. **STATE**

**SAMPLE**

12. Additional Descriptions for Materials listed in 11  
a. **1004**  
**LOCHER, VINYL CHLORIDE**  
b.

15. Special Handling Instructions and Additional Information  
**HA. CODE 1251-748**  
**Job Number: 94711**  
**Emergency Phone: (315) 471 - 0503**

16. **GENERATOR'S CERTIFICATION:** I have read all of the contents of this assignment and I have classified, packed, marked and labeled, and prepared the contents for proper and lawful transport by highway according to applicable federal, state and local regulations.  
If I am a large quantity generator, I certify that I have taken all steps to reduce the volume and toxicity of waste generated to the maximum extent practicable and that I have provided the appropriate manifest, labels, and other information to the transporter, which is true, correct, and complete to the best of my knowledge and belief, and that I can afford to pay the cost of the waste disposal.

Printed/Typed Name **Robert L. ...** Signature **Robert L. ...**

17. Transporter 1 (Acknowledgment of Receipt of Materials)  
Printed/Typed Name **Mark ...** Signature **Mark ...**

18. Transporter 2 (Acknowledgment of Receipt of Materials)  
Printed/Typed Name Signature

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted below.  
Printed/Typed Name Signature Mo Day Year

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233 7010



**Thomas C. Jorling**  
Commissioner

OCT 25 1991

Mr. Mark Valentine  
Project Director  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

Dear Mr. Valentine:

RE: Temporary Access Agreement  
Pollution Abatement Services Site  
Interim Groundwater Removal Activities

The PAS-Oswego Site Interim Groundwater Removal Trust, its employees, agents or contractors (including de maximis, inc.) are hereby granted temporary access to the Pollution Abatement Services Site (the site), as shown on the enclosed map, for the purposes of ingress, egress, regress, and activities in relation to interim groundwater removal, as well as any other related activities as may be required by the United States Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) (the Removal Order), subject to the following conditions:

1. The "Department" shall mean the New York State Department of Environmental Conservation (NYSDEC).
2. The "Trust" shall mean the PAS-Oswego Site Interim Groundwater Removal Trust, its employees, agents or contractors (including de maximis, inc.).
3. This agreement shall not be assigned or transferred without the prior written consent of the Department.
4. The Trust and the USEPA, its contractors and oversight officials, shall have access to the site at all reasonable times, or as otherwise required by NYSDEC. The Department shall have the right to have its representatives present to observe the Trust's activities. However, the unavailability of such Department representatives shall not be cause to deny or restrict access to the site.

5. The Trust will be liable for all damages to persons (including death) and property resulting from the Trust's negligent or willful act and omissions and those of its employees, contractors, subcontractors, agents, guests, and any other person working under or for the Trust in connection with the project for which this agreement is granted, while conducting activities at the site. Further, the Trust agrees to indemnify and save harmless the Department of Environmental Conservation and its Commissioner and employees and the People of the State of New York, their officers and employees from judgements, claims, suits, and actions arising out of the negligent or willful acts or omissions of the Trust, or its authorized representatives, in connection with the field activities as described in the approved work plan, for which this agreement is granted.
6. The Trust agrees that upon the selection of its contractor, the contractor will promptly furnish to the Department a Certificate of Insurance which describes the liability coverage for the Trust's contractor, who is responsible for performance of the work described in the approved work plan. The Certificates of Insurance shall demonstrate that the limits of liability in such policy shall not be less than \$1,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by one person in any one accident and, subject to that limit for one person, not less than \$2,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by two or more persons in any one accident, not less than \$1,000,000 for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident. Such Certificate shall state that it will not be changed or cancelled until thirty days' (30) written notice has been given to said Department. The Trust are not representatives of the USEPA with respect to any liability associated with activities conducted by the Trust at the site.
7. The enumeration in this agreement of the kind and amount of insurance shall not abridge, diminish or affect the Trust's legal responsibilities for the consequences of accidents arising out of or resulting from the acts and omissions of the Trust under this agreement. Nor shall it relieve the contractor selected by the Trust from maintaining other forms of insurance as required by other laws and regulations including, without limitations, workers' compensation, disability, vehicle and liability, all of which the Trust's contractor will represent that it has in force and will maintain in force.

8. The Trust agrees that any damages to existing remediated areas (the cover, slurry wall, leachate/groundwater collection system), or existing structures (buildings, wells, roads, fences) that are caused by the acts and omissions of the Trust will be restored to their condition which existed prior to the initiation of the field activities required by the approved work plan.
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11. The Trust agrees that precautions shall be taken to avoid accidental or intentional spillage or disposal of waste materials or construction debris directly or indirectly into White Creek or Wine Creek or in areas where such material would eventually be carried into the streams by storm runoff, or disposal of any materials on any portion of the remediated site.
12. The Trust agrees to restore any vegetated areas disturbed during the required work.
13. The Trust agrees that upon completion of the required work, all materials and debris (including construction debris, personal protective clothing and equipment, and miscellaneous trash) created by the required work activities as described in the approved work plan, will be removed from the site and disposed of in accordance with applicable regulations.
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15. The Trust agrees to obtain any local permits for off-site work, as may be required to comply with the Order, to accomplish the activities described in the approved work plan.

If these conditions are acceptable, please have the enclosed copy of this letter signed and return it to me. The Temporary Access Agreement will take effect upon my receipt of the signed copy, and will expire upon receipt of notification from the USEPA of satisfactory completion of all the requirements of the Removal Order. No field activities related to the interim groundwater removal activities can occur until the Department has received the required proof of insurance from the contractor as described herein. The Commissioner may, after notice and an opportunity to be heard is given to the Trust, modify, suspend, or revoke this agreement if he determines that any condition of the agreement has been, is being, or is about to be violated.

If you have any questions concerning this matter, please contact Mr. A. K. Gupta, of my staff, at (518) 457-0927.

Sincerely,



Michael J. O'Toole, Jr., P.E.  
Director  
Division of Hazardous Waste Remediation

Enclosure  
cc: w/enc. - J. West

---

I have read this letter and accept the above conditions.

for: PAS-Oswego Site Interim Groundwater Removal Trust

Signature \_\_\_\_\_ Date \_\_\_\_\_

Linda P. Jones, for Mercantile Bank of St. Louis, N.A.,  
Trustee, and not in its individual capacity

Address: Mercantile Bank, N.A.  
Mercantile Tower, Box 135  
St. Louis, MO 63166

Telephone: (314) 425-2629

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233

7010

bcc: M. O'Toole (2)  
C. Goddard  
A. Rockmore  
G. Rider  
J. West  
A. Gupta ✓

**OCT 25 1991**

Mr. Mark Valentine  
Project Director  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

Dear Mr. Valentine:

RE: Temporary Access Agreement  
Pollution Abatement Services Site  
Interim Groundwater Removal Activities

The PAS-Oswego Site Interim Groundwater Removal Trust, its employees, agents or contractors (including de maximis, inc.) are hereby granted temporary access to the Pollution Abatement Services Site (the site), as shown on the enclosed map, for the purposes of ingress, egress, regress, and activities in relation to interim groundwater removal, as well as any other related activities as may be required by the United States Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) (the Removal Order), subject to the following conditions:

1. The "Department" shall mean the New York State Department of Environmental Conservation (NYSDEC).
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If you have any questions concerning this matter, please contact Mr. A. K. Gupta, of my staff, at (518) 457-0927.

Sincerely,



Michael J. O'Toole, Jr., P.E.  
Director  
Division of Hazardous Waste Remediation

Enclosure  
cc: w/enc. - J. West

---

I have read this letter and accept the above conditions.

for: PAS-Oswego Site Interim Groundwater Removal Trust

Signature \_\_\_\_\_ Date \_\_\_\_\_

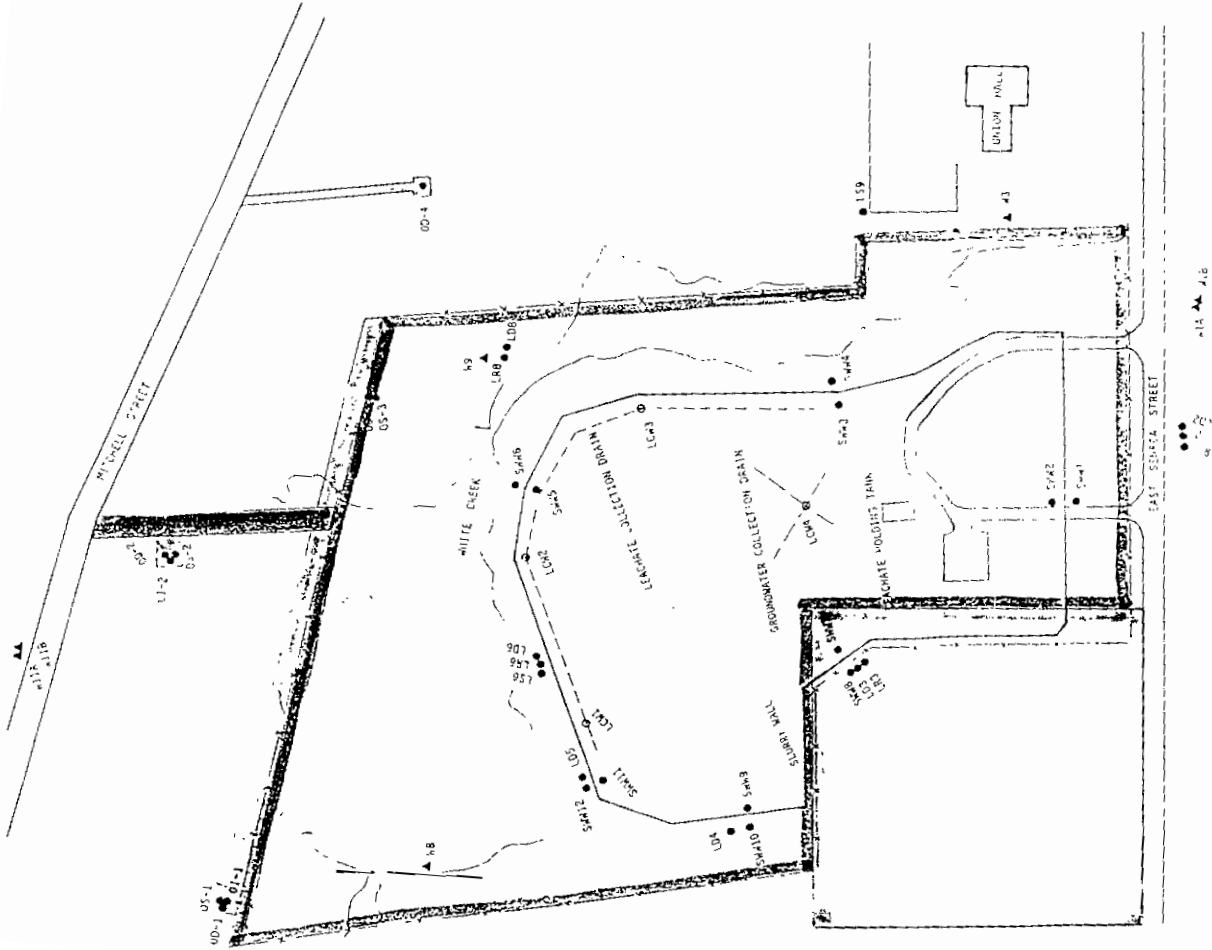
Linda P. Jones, for Mercantile Bank of St. Louis, N.A.,  
Trustee, and not in its individual capacity

Address: Mercantile Bank, N.A.  
Mercantile Tower, Box 135  
St. Louis, MO 63166

Telephone: (314) 425-2629

# POLLUTION ABATEMENT SERVICES SITE

Oswego, New York



MONITORING WELL I.D.	GROUND SURFACE	TOP OF RISEK
4A	204.5	206.0
4B	204.4	206.0
43	204.0	206.0
48	204.3	206.2
49	210.0	213.0
51A	208.5	211.5
51B	208.5	211.5
52	209.5	209.0
53	207.1	209.7
54	207.5	209.85
55	215.8	218.62
56	215.5	218.35
57	215.5	218.25
58	210.2	212.64
59	211.4	214.14
60	210.9	214.03
61	210.5	213.8
62	210.0	213.32
63	214.0	216.72
64	211.4	212.21
65	212.6	214.44
66	213.3	215.35
67	203.0	205.70
68	206.2	209.13
69	206.3	209.27
70	206.0	206.00
71	205.9	203.00
72	215.8	217.66
73	215.3	217.84
74	215.7	218.74
75	203.3	205.5
76	210.1	213.11
77	210.2	212.16
78	209.63	212.14
79	208.14	212.60
80	208.51	213.12
81	208.29	209.21
82	207.98	216.41
83	214.63	217.47
84	214.96	217.54
85	211.02	211.15

PROPERTY OF STATE OF NEW YORK

MAP SCALE: 1"=100'



New York State Department of Environmental Conservation

FILE COPY

Originator AKG 10/24/91

Reviewer \_\_\_\_\_

Reviewer \_\_\_\_\_

MEMORANDUM

**TO:** Michael J. O'Toole, Jr., Dir., Division of Hazardous Waste Remediation  
**FROM:** Gerald J. Rider, Jr., Chief, O&M Section THRU: Alan Rockmore, Director,  
**SUBJECT:** Bureau of Construction Services  
 Temporary Access Agreement for Pollution Abatement Services (PAS) Site  
**DATE:** #7-38-001 - Interim Groundwater Removal Activities

OCT 24 1991

*Gerald J. Rider*

Attached please find a proposed Temporary Access Agreement for the Pollution Abatement Services Site, Oswego County, Interim Groundwater Removal Activities. The PAS site Supplemental RI/FS Access Agreement dated March 25, 1991 has been used as the basis for the attached proposed agreement.

The Administrative Order on Consent for PAS Oswego Site Interim Groundwater Removal between USEPA and the Responsible Parties requires an access agreement within 20 days of the effective date of the Order, which is October 7, 1991. The agreement has been reviewed and approved by James Eckl. Please sign the attached access agreement so that it can be executed before October 27, 1991.

If you have any questions, please call me at 7-0927.

Attachment

a:tempacc.pas:AKG:GR:et

bcc: w/att.: C. Goddard (2)  
 A. Rockmore  
 G. Rider  
 J. West  
 A. Gupta



New York State Department of Environmental Conservation

MEMORANDUM

TO: James H. Eckl, Program Attorney, DEE  
FROM: Charles N. Goddard, Assistant Director, DHWR  
SUBJECT: Temporary Access Agreement for Pollution Abatement Services (PAS) Site #7-38-001 - Interim Groundwater Removal Activities

DATE:

Attached please find a ~~draft~~ proposed Temporary Access Agreement for the Pollution Abatement Services Site, Oswego County, Interim Groundwater Removal Activities. The PAS site Supplemental RI/FS Access Agreement dated March 25, 1991 has been used as the basis for the attached proposed agreement.

The Administrative Order on Consent for PAS Oswego Site Interim Groundwater Removal between USEPA and the Responsible Parties requires an access agreement within 20 days of the effective date of the Order, which is October 7, 1991. ~~Please provide your comments by COB October 21, 1991,~~ so that the access agreement can be executed before October 25, 1991.

If you have any questions, please call A.K. Gupta, of my staff, at 7-0927.

Attachment

10/24, 11<sup>30</sup> am

CNG -

Attached draft is alright with me as far as concerns the language. However pls. note the scope of this. As I understand from Real Prop there are two parcels. One is the site itself, owned by local govt & on which we have easement. The other is the radio station parcel at the southwest corner of the site owned by the State. Only 1<sup>st</sup> parcel is shown on map which letter references. That means, letter does not give anybody access to radio station parcel - which is okay as far as I am concerned but realize problem created if whatever field work involved requires entry on the radio station parcel.



New York State Department of Environmental Conservation

AKG 10/17/91

MEMORANDUM

AL 10/17/91

TO:  
FROM:  
SUBJECT:

James H. Eckl, Program Attorney, DEE  
Charles N. Goddard, Assistant Director, DHWR  
Temporary Access Agreement for Pollution Abatement Services (PAS) Site  
#7-38-001 - Interim Groundwater Removal Activities

DATE:

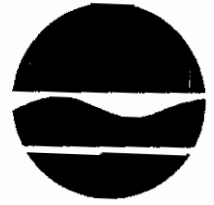
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Attachment

AG/tr  
bcc: w/att.: C. Goddard (2) ✓  
A. Rockmore  
G. Rider  
J. West  
A. Gupta  
Dayfile



Thomas C. Jorling  
Commissioner

**DRAFT**

Mr. Mark Valentine  
Project Director  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

RE: Temporary Access Agreement  
Pollution Abatement Services Site  
Interim Groundwater Removal Activities

Dear Mr. Valentine:

The PAS-Oswego Site Interim Groundwater Removal Trust, its employees, agents or contractors (including de maximis, inc.) are hereby granted temporary access to the Pollution Abatement Services Site (the site), as shown on the attached map, for the purposes of ingress, egress, regress, and activities in relation to interim groundwater removal, as well as any other related activities as may be required by the United States Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) (the Removal Order), subject to the following conditions:

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# DRAFT

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**DRAFT**

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**DRAFT**

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If you have any questions concerning this matter, please contact Mr. A. K. Gupta, of my staff, at (518) 457-0927.

Sincerely,

Michael J. O'Toole, Jr., P.E.  
Director  
Bureau of Hazardous Waste Remediation

Enclosure  
cc: w/enc. - J. West  
a:tempacc.pas:AKG:et

---

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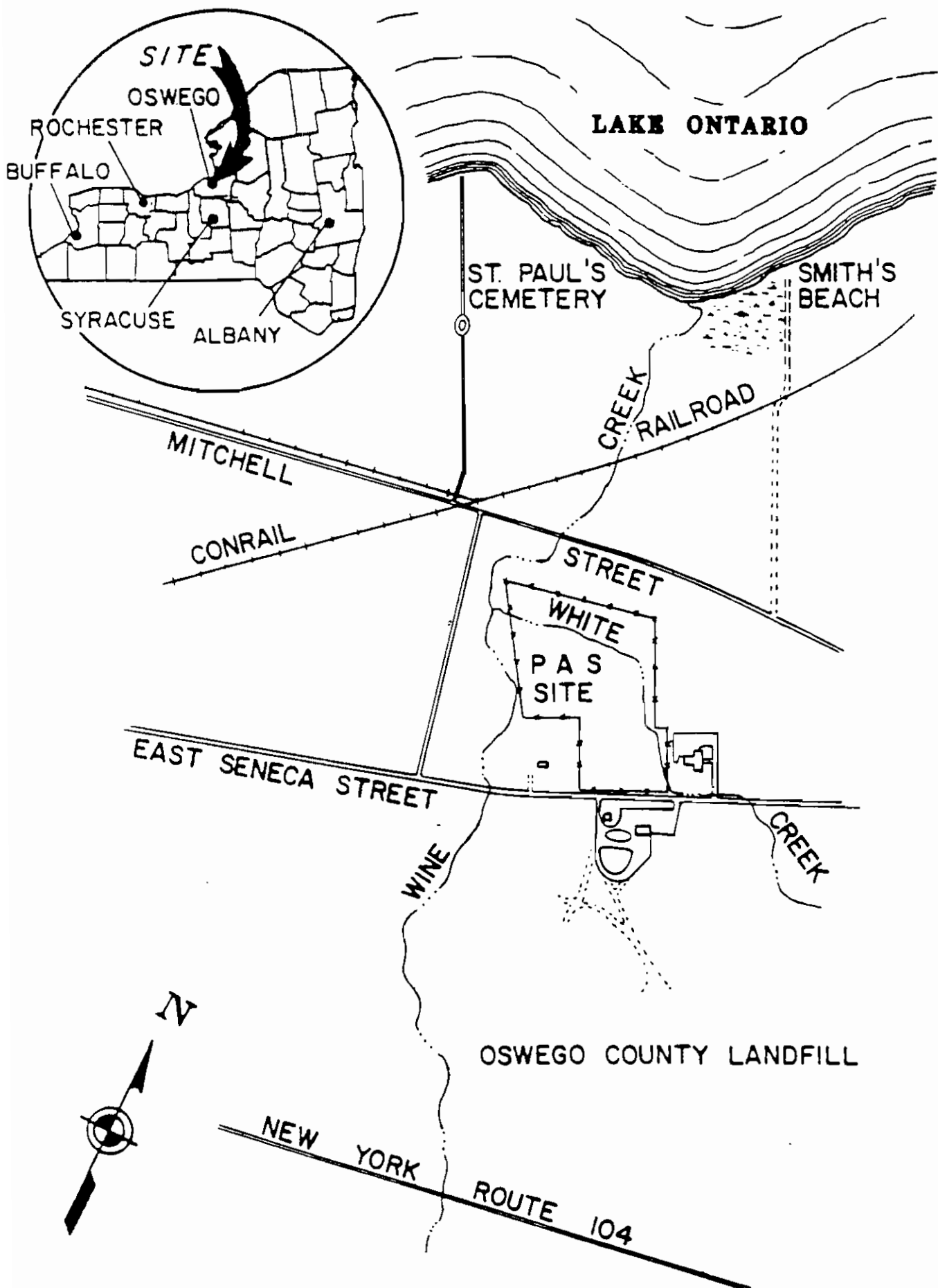
for: PAS-Oswego Site Interim Groundwater Removal Trust

Signature \_\_\_\_\_ Date \_\_\_\_\_

Linda P. Jones, for Mercantile Bank of St. Louis, N.A.,  
Trustee, and not in its individual capacity

Address: Mercantile Bank, N.A.  
Mercantile Tower, Box 135  
St. Louis, MO 63166

Telephone: (314) 425-2629



**FIGURE 1 - LOCATION MAP**

**de maximis, inc**

12345 Main Street  
City, State, ZIP  
Phone: (123) 456-7890

**TAX TRANSMITTAL SHEET**

Preparer's Name (Print or Type) \_\_\_\_\_  
Firm (Print or Type) \_\_\_\_\_

Taxpayer's Name (Print or Type) \_\_\_\_\_

Preparer's Name (Print or Type) \_\_\_\_\_

Preparer's Title (Print or Type) \_\_\_\_\_

Preparer's Signature (Print or Type) \_\_\_\_\_

Preparer's Title (Print or Type) \_\_\_\_\_

Preparer's Address (Print or Type) \_\_\_\_\_

Page 1 of 1

*de maximis, inc.*

904 Executive Park Drive  
Suite 601  
Knoxville TN 37923  
(615) 691-5051

October 15, 1991

Ashok K. Gupta, P.E.  
New York State Department of  
Environmental Conservation  
Bureau of Construction Services  
50 Wolf Road  
Albany, NY 12233-7010

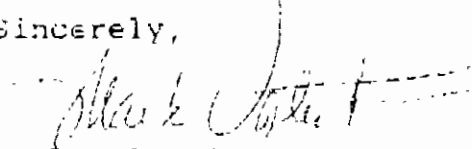
**Reference: Temporary Access Agreement**

Dear Mr. Gupta:

Enclosed please find our proposed Temporary Access Agreement to the PAS-Osage Interim Groundwater Removal Activities which has been revised based on your comments. Please provide your comments to us, if any, before executing the Agreement.

Please call me at (615) 691-5052 if you have any questions.

Sincerely,

  
Mark Valentine  
Project Coordinator

BRT/mdm

cc: J. Moorman  
R. Neuman

File:gupta.ttr

October 15, 1991

Mr. Mark Valentine  
 Project Director  
 de maximis, inc.  
 9041 Executive Park Drive  
 Suite 601  
 Knoxville, TN 37923

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 Pollution Abatement Services Site  
 Interim Groundwater Removal Activities**

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5. The Trust will be liable for all damages to persons (including death) and property resulting from the Trust's negligent or willful act and omissions and those of its employees, contractors, subcontractors, agents, guests, and any other person working under or for the Trust in connection with the project for which this agreement is granted, while conducting activities at the site. Further, the Trust agrees to indemnify and save harmless the Department of Environmental Conservation and its Commissioner and employees and the People of the State of New York, their officers and employees from judgements, claims, suits, and actions arising out of the negligent or willful acts or omissions of the Trust, or its authorized representatives, in connection with the field activities as described in the approved work plan, for which this agreement is granted.
  
6. The Trust agrees that upon the selection of its contractor, the contractor will promptly furnish to the Department a Certificate of Insurance which describes the liability coverage for the Trust's contractor, who is responsible for performance of the work described in the approved work plan. The Certificate of Insurance shall demonstrate that the limits of liability in such policy shall not be less than \$1,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by one person in any one accident and, subject to that limit for one person, not less than \$2,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by two or more persons in any one accident, and not less than \$1,000,000 for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident. Such Certificate shall state that it will not be changed or cancelled until thirty days' (30) written notice has been given to said Department. The Trust are not representatives of the U.S. EPA with respect to any liability associated with activities conducted by the Trust at the site.
  
7. The enumeration in this agreement of the kind and amount of insurance shall not abridge, diminish or affect the Trust's legal responsibilities for the consequences of accidents arising out of or resulting from the acts and omissions of the Trust under this agreement. Nor shall it relieve the contractor selected by the Trust from maintaining other forms of insurance as required by other laws and regulations including, without limitations, workers' compensation, disability, vehicle and liability, all of which the Trust's contractor will represent that it has in force and will maintain in force.



8. The Trust agrees that any damages to existing remediated areas (the cover, slurry wall, leachate/groundwater collection system), or existing structures (building, wells, roads, fences) that are caused by the acts and omissions of the Trust will be restored to their condition which existed prior to the initiation of the field activities required by the approved workplan.
9. The Trust will provide to said Department a copy of the U.S. EPA approved workplan as required by the Removal Order, which shall fully describe the field activities at the site. The Trust will provide the Department with a copy of any modifications to the approved workplan.
10. The Trust agrees that no vehicular traffic of any kind shall be allowed on the cover of the remediated portion of the main site, except that portion of the project which is directly involved with the required work, and as approved by the Department.
11. The Trust agrees that precautions shall be taken to avoid accidental or intentional spillage or disposal of waste materials or construction debris directly or indirectly into White Creek or Wine Creek or in areas where such material would eventually be carried into the streams by storm runoff, or disposal of any materials on any portion of the remediated site.
12. The Trust agrees to restore any vegetated areas disturbed during the required work.
13. The Trust agrees that upon completion of the required work, all materials and debris (including construction debris, personal protective clothing and equipment, and miscellaneous trash) created by the required work activities as described in the approved workplan, will be removed from the site and disposed of in accordance with applicable regulations.
14. Work associated with the granting of this agreement shall progress in such a manner as to avoid interference with the operations and maintenance of the PAS site in accordance with the Long-term Monitoring Program. The Trust and NYSDEC will coordinate any field activities required by the approved workplan with the NYSDEC's Operation and Maintenance program.
15. The Trust agrees to obtain any local permits for off-site work, as may be required to comply with the Order, to accomplish the activities described in the approved workplan.

If these conditions are acceptable, please have the enclosed copy of this letter signed and return it to me. The Temporary Access Agreement will take effect upon my receipt of the signed copy, and will expire upon receipt of notification from the U.S. EPA of satisfactory completion of all the requirements of the Removal Order. No field activities related to the interim groundwater removal activities can occur until the Department has received the required proof of insurance from the contractor as described herein. The Commissioner may, after notice and an opportunity to be heard is given to the Trust, modify, suspend, or revoke this agreement if he determines that any condition of the agreement has been, is being, or is about to be violated.

If you have any questions concerning this matter, please contact Mr. A. K. Gupta at (518) 457-0927.

Sincerely,

---

I have read this letter and accept the above conditions.

for: PAS-Oswego Site Interim Groundwater Removal Trust

Signature \_\_\_\_\_

Linda P. Jones, for Mercantile Bank of St. Louis, N.A.,  
Trustee, and not in its individual capacity

Address: Mercantile Bank, N.A.  
Mercantile Tower, Box 139  
St. Louis, MO 63166

Telephone: (314) 425-2629

Attachment

MV/mclm

File: PASecces.1trzdsk

L/



***de maximis, inc.***

9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923  
(615) 691-5052

15 1991

October 8, 1991

Ashok K. Gupta, P.E.  
New York State Department of  
Environmental Conservation  
Bureau of Construction Services  
50 Wolf Road  
Albany, NY 12233-7010

**Reference: Temporary Access Agreement**

Dear Mr. Gupta:

Enclosed please find our proposed Temporary Access Agreement for the PAS-Oswego Interim Groundwater Removal Activities. We have used the PAS Site SRI/FS Access Agreement as the basis for the attached proposed agreement. We request your prompt assistance in this matter as the Administrative Order on Consent requires the Trust to use our best efforts to obtain an access agreement within 20 days of the effective date of the Order, which was October 7, 1991. Please provide your comments to us, if any, on our proposed agreement before executing the Agreement.

Please call me at (615) 691-5052 if you have any questions.

Sincerely,

Mark Valentine  
Project Coordinator

BLT/mdm

cc: J. Moorman  
R. Neuman  
L. Jones

File:gupta.ltr

October 4, 1991

Mr. Mark Valentine  
Project Director  
de maximis, inc.  
9041 Executive Park Drive  
Suite 601  
Knoxville, TN 37923

**Reference: Temporary Access Agreement  
Pollution Abatement Services Site  
Interim Groundwater Removal Activities**

Dear Mr. Valentine:

The PAS-Oswego Site Interim Groundwater Removal Trust, its employees, agents or contractors (including de maximis, inc.) are hereby granted temporary access to the Pollution Abatement Services Site (the site), as shown on the attached map, for the purposes of ingress, egress, regress, and activities in relation to interim groundwater removal, as well as any other related activities as may be required by the United States Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) (the Removal Order), subject to the following conditions:

1. The "Department" shall mean the New York State Department of Environmental Conservation (NYSDEC).
2. The "Trust" shall mean the PAS-Oswego Site Interim Groundwater Removal Trust its employees, agents or contractors (including de maximis, inc).
3. This agreement shall not be assigned or transferred without the prior written consent of the Department.
4. The Trust and the United States Environmental Protection Agency (U.S. EPA), its contractors and oversight officials, shall have access to the site at all reasonable times, or as otherwise required by NYSDEC. The Department shall have the right to have its representatives present to observe the Trust's activities. However, the unavailability of such Department representatives shall not be cause to deny or restrict access to the site.

5. The Trust will be liable for all damages to persons (including death) and property resulting from the Trust's negligent or willful act and omissions and those of its employees, contractors, subcontractors, agents, guests, and any other person working under or for the Trust in connection with the project for which this agreement is granted, while conducting activities at the site. Further, the Trust agrees to indemnify and save harmless the Department of Environmental Conservation and its Commissioner and employees and the People of the State of New York, their officers and employees from judgements, claims, suits, and actions arising out of the negligent or willful acts or omissions of the Trust, or its authorized representatives, in connection with the field activities as described in the approved work plan, for which this agreement is granted.
  
6. The Trust agrees that upon the selection of its contractor, the contractor will promptly furnish to the Department a Certificate of Insurance which describes the liability coverage for the Trust's contractor, who is responsible for performance of the work described in the approved work plan. The Certificates of Insurance shall demonstrate that the limits of liability in such policy shall not be less than \$1,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by one person in any one accident and, subject to that limit for one person, not less than \$2,000,000 for all damages arising out of bodily injury, including death at any time resulting therefrom, sustained by two or more persons in any one accident, and not less than \$1,000,000 for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident. Such Certificate shall state that it will not be changed or cancelled until thirty days' (30) written notice has been given to said Department. The Trust are not representatives of the U.S. EPA with respect to any liability associated with activities conducted by the Trust at the site.
  
7. The enumeration in this agreement of the kind and amount of insurance shall not abridge, diminish or affect the Trust's legal responsibilities for the consequences of accidents arising out of or resulting from the acts and omissions of the Trust under this agreement. Nor shall it relieve the contractor selected by the Trust from maintaining other forms of insurance as required by other laws and regulations including, without limitations, workers' compensation, disability, vehicle and liability, all of which the Trust's contractor will represent that it has in force and will maintain in force.

8. The Trust agrees that any damages to existing remediated areas (the cover, slurry wall, leachate/groundwater collection system), or existing structures (building, wells, roads, fences) that are caused by the acts and omissions of the Trust will be restored to their condition which existed prior to the initiation of the field activities required by the approved workplan.
9. The Trust will provide to said Department a copy of the U.S. EPA approved workplan as required by the Removal Order, which shall fully describe the field activities at the site. The Trust will provide the Department with a copy of any modifications to the approved workplan.
10. The Trust agrees that no vehicular traffic of any kind shall be allowed on the cover of the remediated portion of the main site, except that portion of the project which is directly involved with the required work, and as approved by the Department.
11. The Trust agrees that precautions shall be taken to avoid accidental or intentional spillage or disposal of waste materials or construction debris directly or indirectly into White Creek or Wine Creek or in areas where such material would eventually be carried into the streams by storm runoff, or disposal of any materials on any portion of the remediated site.
12. The Trust agrees to restore any vegetated areas disturbed during the required work.
13. The Trust agrees that upon completion of the required work, all materials and debris (including construction debris, personal protective clothing and equipment, and miscellaneous trash) created by the required work activities as described in the approved workplan, will be removed from the site and disposed of in accordance with applicable regulations.

If these conditions are acceptable, please have the enclosed copy of this letter signed and return it to me. The Temporary Access Agreement will take effect upon my receipt of the signed copy, and will expire upon receipt of notification from the U.S. EPA of satisfactory completion of all the requirements of the Removal Order. No field activities related to the interim groundwater removal activities can occur until the Department has received the required proof of insurance from the contractor as described herein. The Commissioner may, after notice and an opportunity to be heard is given to the Trust, modify, suspend, or revoke this agreement if he determines that any condition of the agreement has been, is being, or is about to be violated.

If you have any questions concerning this matter, please contact Mr. A. K. Gupta at (518) 457-0927.

Sincerely,



---

I have read this letter and accept the above conditions.

for: PAS-Oswego Site Interim Groundwater Removal Trust

Signature \_\_\_\_\_

Linda P. Jones, for Mercantile Bank of St. Louis, N.A.,  
Trustee, and not in its individual capacity

Address: Mercantile Bank, N.A.  
Mercantile Tower, Box 135  
St. Louis, MO 63166

Telephone: (314) 425-2629

Attachment

MV/mdm

File:PASaccs.ltr/dsk 27

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling  
Commissioner

OCT 15 1991

Mr. Mark Valentine  
Project Manager  
de maximis, inc.  
9041 Executive Park Dr.  
Suite 401  
Knoxville, TN 37923

RE: Site 7-38-001  
Pollution Abatement Services

Dear Mr. Valentine:

Per your request, the following are enclosed for your use:

1. 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes - December 25, 1988. This is the latest version available at this time. A revised version is expected in the near future.
2. Notification of Regulated Waste Activity - EPA July 1990
3. Land Disposal Restrictions - Summary of Requirements - EPA February 1991.

Sincerely,

Ashok K. Gupta, P.E.  
Environmental Engineer II  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosures

a:valntine.pas:AKG:et

4K

OCT 09 1991

FEDERAL EXPRESS

Mr. Mark Valentine  
Project Director  
de maximis, inc.  
9041 Executive Park Drive  
Suite 401  
Knoxville, TN 37923

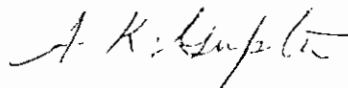
RE: Site #7-38-001  
Pollution Abatement Services (PAS) Site  
Oswego County, New York

Dear Mr. Valentine:

As requested by Mr. Bruce Thompson of your office, attached is a copy of the Operation and Maintenance Manual for the above referenced site. This manual is scheduled for an update by the end of 1993.

If you have any questions, please call me at 518/457-0927.

Sincerely,



A. K. Gupta, P.E.  
Environmental Engineer II  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

cc: w/o att. - R. Ramon, USEPA  
C. Berns, USEPA  
D. Iyer, URS

bcc: w/o att. - G. Rider  
R. Lupe

a:dmaximis.pas:AKG:et



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION II

JACOB K. JAVITS FEDERAL BUILDING  
NEW YORK, NEW YORK 10278

*AKG  
lets include  
in application*

September 26, 1991

Gerald J. Rider, Jr., P.E.  
Chief, Operation and Maintenance  
Bureau of Construction Services  
Division of Hazardous Waste Reme  
New York State Dept. of Environm  
50 Wolf Road  
Albany, N.Y. 11233-7010

*412  
Send a  
copy to  
AKG  
John*

Dear Mr. Rider:

This letter is in response to you  
Ms. Carol Berns, Esq., Assistan  
proposed Removal Order for the F

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te.

First of all I want to thank you for providing comments so quickly. However, due to time constraints they cannot be addressed in the Consent Order itself but, will except as noted below, be addressed in the Potentially Responsible Party 's removal workplan. Your concerns about the number of wells to be monitored will also be addressed in the workplan. NYSDEC will be provided copies of the workplan for its review.

In regard to comment No. 8, the Environmental Protection Agency cannot include an indemnification for the New York State Department of Environmental Conservation (NYSDEC) in the Consent Order. Similarly, comment No. 9 cannot be addressed in the Consent Order, however, the NYSDEC can submit an application for a support agency assistance cooperative agreement to cover the oversight costs. Comment No. 7 has already been addressed in the most recent draft.

If you have any questions or comments please call me at (212) 264-1336.

Sincerely,  
*Richard Ramon*  
Richard Ramon, P.E.  
Project Manager

cc: Carol Bern, Esq., ORC

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

FAXED ON SEPTEMBER 25, 1991

SEP 25 1991

Ms. Carol Y. Berns, Esq.  
Assistant Regional Counsel  
Office of Regional Counsel  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

RE: Site #7-38-001  
Pollution Abatement Services  
Proposed Removal Order

Dear Ms. Berns:

The draft proposed removal order has been reviewed by the New York State Department of Environmental Conservation. The following are our comments:

1. Paragraph 12: Since 1986 approximately 611,800 gallons of leachate have been removed. At the end of last sentence add "...and to assure no off-site migration of hazardous substances."
2. Paragraph 22(e): The monthly measurements of groundwater elevations should not be limited to the inside and outside of the slurry wall wells. The monthly measurements of groundwater elevations should be recorded for all long-term monitoring wells and leachate collection wells. We previously faxed you the language on this revision.
3. Paragraph 31: Please re-word first sentence to read "...reports to EPA every month which fully describe and evaluate all actions and activities.."
4. Paragraph 32: Reports to the Operation and Maintenance Section should be submitted to the attention of Gerald J. Rider, Jr., P.E.

The report to Central Projects Section should be addressed as follows:

Raymond E. Lupe, P.E.  
Chief, Central Projects Section  
Bureau of Central Remedial Action  
Division of Hazardous Waste Remediation  
New York State Department of Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7010

5. Paragraph 35: The Respondents should also immediately notify the NYSDEC Spill Hot Line at 1/800/457-7362 of any emergency situations.
6. Paragraph 36: For proper coordination, the Respondents should also provide NYSDEC with at least one week advance notice of any change in the schedule.
7. Paragraphs 49-50: Please split the paragraphs.

8. Paragraphs 56 & 57: The State of New York and NYSDEC should also be included in the list of agencies indemnified.
9. Paragraph 68: What happens to NYSDEC's oversight cost? Based on our conversations, I understand USEPA will provide the NYSDEC's oversight cost through the cooperative agreement.

Third line - after EPA add "or agents".

Please submit review documents, example work plan, to NYSDEC for review prior to USEPA approval.

If you have any questions, please call me at 518/457-0927.

Sincerely,

51

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: R. Ramon

bcc: A. Rockmore  
G. Rider  
R. Lupe  
A. Gupta

a:proremov.pas:AKG:GR:et



**New York State Department of Environmental Conservation**

**MEMORANDUM**

**TO:** A.K. Gupta, O&M Section  
**FROM:** Raymond E. Lupe, Chief, CPS, BCRA, DHWR (REC) for R Lupe  
**SUBJECT:** Draft Consent Order for PAS Site (738001)

**DATE:** SEP 24 1991

My staff has reviewed the subject Draft Consent Order and have the following questions and comments.

1. Page 6 - Does this order include the Long-Term Monitoring Plan developed for the site?
2. Page 7 - Will only one slurry wall well pair be measured monthly?
3. Page 10 - Please change the last address in paragraph 32 to:  
 Chief, Central Projects Section  
 Bureau of Central Remedial Action  
 Division of Hazardous Waste Remediation  
 New York State Department of Environmental  
 Conservation  
 50 Wolf Road  
 Albany, New York 12233-7010

Please contact Bob Edwards or Bob McNamee, of my staff, if you have any questions.

cc: B. Edwards  
 B. McNamee

SEP 25 1991

**DRAFT**

**FAX MEMO**  
PAGE 1 OF 124 PAGES  
TO CAROL BURNS  
FROM A. K. GUPTA  
CC  
PH

*ok*

22(e).

Monthly measurements of groundwater elevations of all Slurry-Wall Wells (12), Long-Term-Monitoring Wells (13), and Leachate-Collection Wells (4) before and following leachate removal operations in accordance with the procedures outlines in EPA's "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document" (September 1986).

*1 to 2 days*



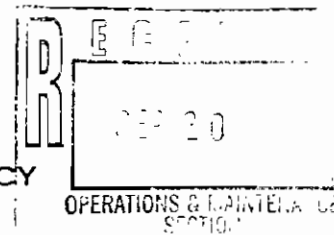


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278



EXPRESS MAIL

September 19, 1991

Mr. Jerry Ryder  
Chief, Operation and Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation  
New York State Department of Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7010

Dear Mr. Ryder:

In connection with our telephone conversation today and your letter dated September 18, 1991, I am enclosing the most current draft version of the PAS removal order for your information. As I stated to you, this version is still a draft, however, the Chairman of the PAS Steering Committee has indicated to me that he is generally satisfied with the language of the document as it stands now and that he anticipates only a few minor revisions.

As you can see, paragraph 25 of the draft order sets a cap of 1,080,000 gallons, however, the last sentence of that paragraph expressly reserves EPA's rights to issues orders to perform further groundwater/leachate removal if it becomes necessary.

Additionally, paragraph 21(b) provides for "implémentation and maintenance and monitoring of the existing leachate collection system . . .". This should address the other concern which you expressed in your letter.

I will advise you when the order has been finalized and you will be provided a copy.

Sincerely yours,

Carol Y. Berns  
Assistant Regional Counsel  
Office of Regional Counsel

Enclosure

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION II

-----X  
: IN THE MATTER OF: :  
: : :  
: The Pollution Abatement Services : :  
: Site, Oswego, New York, : :  
: : ADMINISTRATIVE :  
: [Respondents to be inserted later] : ORDER ON CONSENT :  
: : :  
: Proceeding under Section 106(a) of : Index Number :  
: the Comprehensive Environmental : II-CERCLA- :  
: Response, Compensation, and Liability: : :  
: Act, 42 U.S.C. § 9606(a). : :  
: : :  
-----X

## I. JURISDICTION

1. This Administrative Order on Consent ("Order") is issued to the above-captioned Respondents (hereinafter referred to as "Respondents") pursuant to the authority vested in the President of the United States under Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9606(a), which authority was delegated to the Administrator of the United States Environmental Protection Agency ("EPA") pursuant to Executive Order 12580 and duly redelegated to the Regional Administrators of EPA. Notice of this Order and the negotiations preceding its issuance were provided to the New York State Department of Environmental Conservation ("NYSDEC").

## II. STATEMENT OF PURPOSE

2. In entering into this Order, the objectives of EPA and the Respondents are to remove, treat, analyze, and dispose of accumulated groundwater and leachate from within the slurry wall component of the containment system at the Pollution Abatement Services Site at rates determined pursuant to this Order, and to operate, maintain and monitor the existing leachate collection system at the Pollution Abatement Services Site.

## III. EPA'S FINDINGS OF FACT AND CONCLUSIONS OF LAW

3. The Pollution Abatement Services Site (hereinafter referred to as the "Site") includes a parcel of land, approximately 15.6 acres in size, located near the eastern boundary of the City of Oswego, New York, bounded on the south by East Seneca Street and on the east, north and west by a wetlands area formed along the stream channels of White Creek and Wine Creek, as well as surrounding areas to which contamination has migrated. Two aquifers underlie this Site, the overburden aquifer and the bedrock aquifer. At this Site, Pollution Abatement Services of Oswego, Inc. (hereinafter, "PAS") operated a high temperature liquid chemical waste incinerator from 1970 to 1977. During this period, numerous drums containing a variety of chemical wastes from numerous generators, including "hazardous substances" within the meaning of Section 101(14) of CERCLA, 42 U.S.C. § 9601(14), were collected and stored at the Site. Liquid wastes containing hazardous substances were also stored in lagoons or tanks at the Site.

4. During PAS' period of operation at the Site, the facility experienced numerous operational difficulties and environmental problems, including spills and incineration and storage problems, which caused the release of hazardous substances into the environment.

5. Between 1973 and 1984, EPA and the NYSDEC undertook various response actions to address contamination at the Site, including but not limited to treatment and incineration of oil-contaminated liquid wastes in the main lagoon and adjacent pit, overpacking of selected leaking drums, removal of over 4000 drums containing hazardous substances, and disposal of liquid chemical waste from various storage tanks.

6. The Site was placed on the National Priorities List in September 1983, which list is established under Section 105 (a)(8)(B) of CERCLA, 42 U.S.C. § 9605(a)(8)(B), and which is set forth at 40 C.F.R. Part 300, Appendix B.

7. A Remedial Investigation/Feasibility Study ("RI/FS") for Site remediation was prepared by NYSDEC between 1982 and 1984. The RI revealed significant and widespread contamination of both the soil and groundwater. A wide range of organic and inorganic contaminants were detected in the soil, most notably, polychlorinated biphenyls ("PCBs") and volatile organic compounds ("VOCs"). The groundwater sampling indicated widespread contamination by metals and VOCs.

8. On June 6, 1984, EPA issued a Record of Decision ("ROD") outlining the Site remediation measures. In accordance with the ROD, remediation of the hazardous substances still existing at the Site was to be achieved through the construction of a soil bentonite slurry wall, impermeable cap, leachate collection system within the slurry wall (hereinafter referred to collectively as "the containment system"), installation of a groundwater recovery system, and treatment of the leachate and groundwater recovered. These remedial activities were conducted by NYSDEC and, with the exception of the treatment system, were completed in 1986.

9. On January 19, 1988, a partial consent decree was entered in the Federal District Court for the Northern District of New York which reflected a settlement of past costs in the amount of \$9,105,380.17 between the United States of America, the State of New York and some or all of the Respondents for response costs incurred at the Site up to April 1, 1987. EPA acknowledges that \$556,542.00 of the amount paid to the United States pursuant to that partial consent decree had been intended to defray some of the costs of groundwater and leachate removal but ultimately \$499,244.00 out of the \$556,542.00 has not been utilized by EPA for that purpose as of the effective date of this Order.

10. Since the construction of the slurry wall and cap containment system, various investigations have indicated the presence of aromatic and chlorinated volatile organic compounds ("VOCs"), which include hazardous substances, outside the containment system. The source of this contamination is being investigated through the Supplemental RI/FS process pursuant to

an Administrative Order on Consent which was entered into between EPA and some or all of the Respondents on September 27, 1990.

11. Many of the wastes and constituents thereof disposed of at the Site and detected in the groundwater and leachate, including those listed above, are "hazardous substances" as defined in section 101(14) of CERCLA, 42 U.S.C. 9601(14).

12. In lieu of construction of an on-Site leachate and groundwater treatment system within the containment system, approximately ~~602,000~~ <sup>611,800</sup> gallons of leachate and groundwater have been removed since 1986 to an off-Site treatment facility. However, leachate and groundwater continue to accumulate within the containment system. This necessitates regular pumping and removal in order to maintain levels of leachate within the containment system below the top of the slurry wall at its lowest point. Failure to remove and treat this leachate and groundwater on a regular basis could cause a buildup of contaminated groundwater which might impair the structural and hydraulic integrity of the containment system and cause a release of hazardous substances. This leachate and groundwater withdrawal rate may have to be further adjusted to create inward groundwater flow conditions at the lowest point of the slurry wall as a further safeguard for the protection of the slurry wall. ?

13. Exposure to the various hazardous substances detected at the Site through failure of the containment system or otherwise could result in direct contact, inhalation, or ingestion and may cause a variety of adverse human health effects.

14. Each of the Respondents is a "person" within the meaning of Section 101(21) of CERCLA, 42 U.S.C. § 9601(21). Each of the Respondents arranged for the disposal or treatment of hazardous substances which came to be disposed of at the Site, and is accordingly a responsible party under Sections 104, 107, and 122 of CERCLA, 42 U.S.C. §§ 9604, 9607, and 9622.

15. The Site is a "facility" as defined in section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

16. The presence of hazardous substances at the Site or the past, present or potential migration of hazardous substances currently located at or emanating from the Site, constitute actual and/or threatened "releases" as defined in section 101(22) of CERCLA, 42 U.S.C. § 9601(22).

17. The actions required by this Consent Order are necessary to protect the public health or welfare or the environment, are in the public interest, 42 U.S.C. §9622(a), are consistent with CERCLA and the NCP, 42 U.S.C. §§ 9604(a)(1), 9622(a), and are

expected to expedite effective remedial action and minimize litigation, 42 U.S.C. §9622(a).

18. Respondents have been given an opportunity to discuss with EPA the basis for issuance of this Order and its terms.

#### IV. EPA'S DETERMINATION

19. Based upon the Findings set forth above and other information available to EPA, EPA has determined that the release and threat of release of hazardous substances into the environment from the Site may present an imminent and substantial endangerment to the public health, welfare, and the environment, within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

#### V. ORDER

20. Based upon the foregoing Findings of Fact and Conclusions of Law, Determination, and other information available to EPA, it is hereby ordered and agreed that Respondents shall undertake a response action at the Site in accordance with the requirements specified below. All activities specified below shall be initiated and carried out in accordance with the time periods set forth in this Order and schedules which are approved by EPA.

##### Description of Work

21. The Work to be performed under this Order shall involve the implementation of a program to remove, sample, analyze, treat and dispose of accumulated leachate and groundwater until such time as a final groundwater and leachate treatment remedy has been implemented. Such program shall include but not be limited to:

- a) Removal, sampling, analysis, treatment and disposal of accumulated leachate and groundwater from within the slurry wall at the Site at a rate of 20,000 gallons per month for the first six months, commencing with EPA's approval of the Work Plan referred to below. At the end of the six-month period, the parties to this Order or their designated representatives shall meet to evaluate the adequacy of the monthly removal rate. EPA will thereafter either direct the Respondents to maintain the 20,000 gallons/month rate, or -- if the water level monitoring data or other field conditions indicate an adjustment is necessary -- will direct the Respondents to meet a new rate. Respondents shall thereafter remove, analyze, treat and dispose of the accumulated leachate

and groundwater from within the slurry wall at the rate so selected by EPA, subject to paragraph 26 below. 25 7 =

- b) Implementation of operation and maintenance and monitoring of the existing leachate collection system in compliance with the substantive technical requirements of the National Contingency Plan ("NCP"), 40 C.F.R. Part 300, Subpart E, and applicable EPA guidance documents.

22. Within sixty (60) calendar days of the effective date of this Order, the Respondents shall submit to EPA for review and approval a detailed plan (hereinafter the "Work Plan") for implementation of the Work described in paragraph 21 above. The Work Plan shall include, but need not be limited to, the following:

- a) A detailed time schedule for the performance of specific tasks and for submitting plans and reports to EPA, as set forth in this paragraph and paragraph 21 of this Order; and a detailed description of how these tasks will be accomplished.
- b) Performance of the removal operations in accordance with applicable methods as specified in this Order.
- c) A Quality Assurance/Quality Control ("QA/QC") Plan and a description of Chain of Custody Procedures to be followed, which shall satisfy the following requirements:
- i. The QA/QC Plan shall be completed in accordance with Section 10 of SW-846, and "Guidance for Preparation of Combined Work/Quality Assurance Project Plans for Environmental Monitoring" (U.S. EPA, Office of Water Regulations and Standards, May, 1984);
- ii. The Respondents shall use QA/QC procedures in accordance with the QA/QC Plan submitted and approved by EPA pursuant to this Order and shall use standard EPA Chain of Custody procedures, as set forth in the National Enforcement Investigations Center Policies and Procedures Manual, as revised in May 1986 and the National Enforcement Investigations Center Manual for the Evidence Audit, published in September, 1981, and SW-846, for all sample collection and analysis activities conducted pursuant to this Order;

- iii. If performance of any subsequent phase of the work required by this Order requires alteration of the QA/QC Plan, the Respondent shall submit to EPA for review and approval proposed amendments to the QA/QC Plan.
  - iv. Provision of any sampling results to NYSDEC and EPA within 10 days from the time they are received from the laboratory.
- d) A Health and Safety Plan, which shall satisfy the requirements of 29 CFR Part 1910.120, Hazardous Waste Operations Standards, 29 CFR Part 1910.134, Respiratory Protection Standards, 29 CFR Part 1910.1001, General Industry Standards, 29 CFR Part 1926.58, Construction Standards, and EPA's "Standard Operating Safety Guides" (OSWER, 1988). If performance of any subsequent phase of the work required by this Order requires alteration of the Health and Safety Plan, the Respondents shall submit to EPA for review proposed amendments to the Health and Safety Plan.
  - e) Monthly measurement of groundwater elevations (inside and outside of the slurry wall) at the lowest point of the slurry wall before and following leachate removal operations in accordance with the procedures outlines in EPA's "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document" (September 1986).
  - f) The name, titles and qualifications of the prime contractor, subcontractors and laboratories to be used in carrying out the work under this Order.
  - g) Provision of procedures to be used to operate and maintain the leachate collection system.

Should include all long-term monitoring wells. Who is going to do other wells?

23. EPA will either approve the Work Plan or require modifications thereto, in accordance with the procedures set forth in paragraphs 43 - 45 below.

24. Within ten (10) business days after EPA's approval of the Work Plan, the Respondents shall commence implementation of the EPA approved Work Plan.



25. Respondents shall perform the work called for in paragraphs 21 and 22 above and the EPA-approved Work Plan for thirty-six (36) months (commencing upon EPA's approval of the Work Plan), unless EPA directs Respondents in writing to terminate that work prior to the expiration of the 36-month period, or unless EPA and Respondents mutually agree to the continuation of that work following the 36-month period. The total volume of groundwater and leachate to be removed under this Order shall not exceed 1,080,000 gallons unless a greater volume is mutually agreed to by the parties to this Order. Nothing in this paragraph or any other provision of this Order shall preclude EPA from issuing a separate administrative order to Respondents (or any other entities) under Section 106 of CERCLA or any other provision of law or from initiating other proceedings to require Respondents (or any other entities) to perform or pay the costs of additional removal, analysis, treatment and disposal of leachate and groundwater from within the slurry wall beyond the amounts or rates or time period called for by this Order.

Designated Coordinator, Other Personnel

26. Within ten (10) business days of the effective date of this Order, Respondents shall select a coordinator, to be known as the Designated Coordinator, and submit the name, address, and telephone number of the Designated Coordinator to EPA. The Designated Coordinator shall be responsible for oversight of the implementation of this Order. He or she shall have technical expertise sufficient to adequately oversee all aspects of the work contemplated by this Order. The qualifications of the Designated Coordinator shall be subject to EPA's review and approval, in accordance with the provisions of paragraph 44 through 46, for verification that such person meets minimum technical background and experience requirements. EPA correspondence to the Respondents will be sent to the Designated Coordinator. Respondents shall have the right to change their Designated Coordinator, subject to the approval requirements of paragraph 44 through 46. However, Respondents shall notify EPA in writing at least seven (7) days prior to any such change.

27. Respondents shall provide a copy of this Order to each contractor and subcontractor retained to perform the work required by this Order, and shall do so within 14 days after the effective date of this Order or the date of retaining the contractor's or subcontractor's services, whichever is later. Respondents shall include in all contracts or subcontracts entered into for work required under this Order provisions stating that such contractors or subcontractors, including their agents and employees, shall perform activities required by such contracts or subcontracts in compliance with this Order and all applicable laws and regulations. Notwithstanding the terms of any contract, Respondents are responsible for compliance with this Order and for ensuring that their contractors and

subcontractors perform the work contemplated herein in accordance with this Order.

28. All activities required of Respondents under the terms of this Order shall be performed only by well-qualified persons possessing all necessary permits, licenses, and other authorizations required by federal, state, and local governments, and all work conducted pursuant to this Order shall be performed in accordance with prevailing professional standards.

#### Insurance/Financial Responsibility

29. (a). Prior to commencement of any work under this Order, Respondents shall provide evidence to EPA demonstrating that one or more of the Respondents passes the financial test described in 40 CFR § 264.147(f) corresponding to liability coverage in the amount of ten million dollars.

(b). For the duration of this Order, Respondents shall satisfy, or shall ensure that their contractors or subcontractors satisfy, all applicable laws and regulations regarding the provision of employer's liability insurance and workmen's compensation insurance for all persons performing work on behalf of Respondents, in furtherance of this Order.

#### Reporting Requirements

30. All reports and other documents submitted by Respondents to EPA which purport to document Respondents' compliance with the terms of this Order shall be signed by a responsible official(s) of one or more of the Respondents or by the Designated Coordinator who has been delegated this responsibility by the Respondents and whose qualifications have been found by EPA to be acceptable pursuant to paragraph 26 of this Order. Notwithstanding such a delegation of responsibility, Respondents shall remain liable for the proper performance of the work required by this Order. For purposes of this paragraph, a "responsible official" is a corporate official who is in charge of a principal business function.

31. During the implementation of this Order, Respondents shall provide written progress reports to EPA every month which fully describe all actions and activities undertaken pursuant to this Order. Such progress reports shall, among other things, a) describe the actions taken toward achieving compliance with this Order during the previous month, (b) include all results of sampling and tests, groundwater elevations measurements taken as required by this Order, amounts of leachate removed and treated, waste manifest and certifications of waste treatment or destruction, and all other data received by Respondents during that period in the implementation of the work required hereunder,

(c) describe all actions which are scheduled for the next month, (d) provide other information relating to the progress of work as is customary in the industry, (e) and include information regarding percentage of completion, all delays encountered or anticipated that may affect the future schedule for completion of the work required hereunder, and a description of all efforts made to mitigate those delays or anticipated delays. These progress reports shall be submitted to EPA by the Respondents by the tenth (10th) day of every month following the effective date of this Order. //

32. All work plans, reports, notices and other documents required to be submitted to EPA under this Order shall be sent to the following addressees:

Louis Di Guardia, On-Scene Coordinator  
Removal Action Branch  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency  
2890 Woodbridge Avenue  
Edison, New Jersey 08837-3679 (2 copies)

Chief, Western New York Superfund Section I  
Emergency and Remedial Response Division  
United States Environmental Protection Agency  
26 Federal Plaza, Room 29-102  
New York, New York 10278 (2 copies)

Attention: PAS Oswego Site Manager

Chief, New York/Caribbean Superfund Branch  
Office of Regional Counsel  
U.S. Environmental Protection Agency, Region II  
26 Federal Plaza  
New York, New York 10278

Attention: PAS Oswego Site Attorney

*Gerald T. Ripley, Jr.*  
Chief, Operation and Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation  
New York State Department of Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7010 (2 copies)

Robert McNamee  
Remedial Project Manager  
Bureau of Central Remedial Action  
Division of Hazardous Waste Remediation  
New York State Department of Environmental Conservation  
50 Wolf Road

Albany, New York 12233-7010

33. Upon the occurrence of any event during performance of the work required hereunder which, pursuant to Section 103 of CERCLA, requires reporting to the National Response Center, Respondents shall immediately orally notify the EPA On-Scene Coordinator (or, in the event of the unavailability of the EPA On-Scene Coordinator, the Chief of the Response and Prevention Branch of the Emergency and Remedial Response Division of EPA, Region II), in addition to the reporting required by Section 103. Respondents shall fully describe the event and the measures taken in response thereto in the next monthly report.

34. As appropriate during the course of implementing the actions required of Respondents pursuant to this Order, Respondents or their consultant(s) or contractor(s), acting through the Designated Coordinator, may confer with EPA concerning the required actions. Based on new circumstances or new information not in the possession of EPA on the date of issuance of this Order, the Designated Coordinator may submit a request to the EPA On-Scene Coordinator, in writing, for approval of a modification to the EPA-approved Work Plan. If approved by the EPA in writing, such modification shall be deemed incorporated into this Order.

35. In the event of a significant change in conditions at the Site, or in the event of emergency circumstances relating to public health, welfare or the environment associated with contamination at the Site, Respondents shall immediately notify the EPA On-Scene Coordinator (or, in the event of the unavailability of the EPA On-Scene Coordinator, the Chief of the Response and Prevention Branch of EPA's Emergency and Remedial Response Division) at the following telephone numbers: (908) 906-6927 or (908)906-6656. In the event that EPA determines that (a) the activities performed pursuant to this Order, (b) significant changes in conditions at the Site, or (c) emergency circumstances occurring at the Site pose a threat to human health or the environment, EPA may direct Respondents to stop further implementation of any actions pursuant to this Order or to take other and further actions which are consistent with the Statement of Purpose Section of this Order and which are reasonably necessary to abate the threat. This provision is not to be construed so as to limit any enforcement or other powers EPA has under the National Contingency Plan ("NCP") or under any other applicable law or regulation.

36. Respondents shall include in the progress reports required in paragraph 31, above, a schedule for the field activities which are expected to occur pursuant to this Order during the upcoming month. Respondents shall, in addition, provide EPA with at least one week advance notice of any change in that schedule.

Oversight

37. During the implementation of the requirements of this Order, Respondents and their contractors and subcontractors shall be available for such conferences and inspections with EPA as EPA may determine are reasonably necessary for EPA to adequately oversee the work being carried out and/or to be carried out.

38. Respondents and their employees, agents, contractor(s) and consultant(s) shall cooperate with EPA in its efforts to oversee Respondents' implementation of this Order.

Access and Availability of Data

39. If the Site, or any off-Site area that is to be used for access or is within the scope of the work required under this Order is owned in whole or in part by parties other than those bound by this Order, Respondents shall use their best efforts to obtain, within twenty (20) days of the effective date of this Order, such access to the premises where work under this Order is to be performed as is necessary for Respondents to carry out the requirements of this Order. Such agreements for access shall provide access at all reasonable times for EPA, its contractors and oversight official, NYSDEC and its contractors, and the Respondents or their authorized representatives. Such agreements shall specify that Respondents are not EPA's representatives with respect to liability associated with Site activities. This Order does not convey any rights of access to Respondents. If such access agreements are not obtained by Respondents within the time period specified herein, Respondents shall immediately notify EPA of their failure to obtain access. EPA may, in its sole discretion, obtain access for Respondents, perform those response actions with EPA contractors at the property in question, or terminate the Order if Respondents cannot obtain access agreements. If EPA performs those tasks or activities with EPA contractors and does not terminate the Order, Respondents shall perform all other activities not requiring access to that property. Respondents shall integrate the results of any such tasks undertaken by EPA into their reports and deliverables.

40. EPA and its designated representatives, including but not limited to employees, agents, contractor(s) and consultant(s) thereof, shall be permitted to observe the work carried out pursuant to this Order. At all reasonable times, EPA and its authorized representatives shall have the authority to enter and freely move about all property at the Site and off-Site areas where work is being performed, for purposes of inspecting or observing Respondents' progress in implementing the requirements of this Order, verifying the information submitted to EPA by Respondents, conducting investigations relating to contamination at the Site, or for any other purpose EPA determines to be reasonably related to EPA oversight of the implementation of this

Order. All parties with access to the Site under this paragraph shall comply with all applicable health and safety plans.

41. All data, information and records created, maintained or received by Respondents or their contractor(s) or consultant(s) in connection with implementation of the work under this Order, including but not limited to contractual documents, invoices, receipts, work orders and disposal records, except for those items subject to the attorney client/attorney work product privilege, shall without delay, be made available to EPA upon request. EPA shall be permitted to copy all such documents. No such data, information, or records shall be destroyed for six (6) years after completion of the work required by this Order without either the express written approval of EPA or a written offer by Respondents to provide such material to EPA, followed by EPA's written rejection of that offer. Following said six-year period, Respondents shall notify EPA at least thirty (30) days prior to the destruction of any such documents.

42. Upon request by EPA, Respondents shall provide EPA or its designated representatives with duplicate and/or split samples of any material sampled in connection with the implementation of this Order. Upon request by Respondents, EPA will provide Respondents or their designated representatives with the validated analytical results of such duplicate and/or split samples.

43. Notwithstanding any other provision of this Order, EPA hereby retains all of its information gathering, access, and inspection authority under CERCLA, the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. §§ 6901-6991, and any other applicable statute or regulations.

#### Plans and Reports Requiring EPA Approval

44. If EPA disapproves or otherwise requires any modifications to any plan, report or other item required to be submitted to EPA for approval pursuant to this Order (including the qualifications of firms or personnel proposed to undertake the work required under this Order), Respondents shall have fourteen (14) calendar days from the receipt of notice of such disapproval or the required modifications to correct the deficiencies noted by EPA and resubmit the plan, report, or other written document to EPA for approval, unless a shorter or longer period is specified in the notice. Any notice of disapproval will include an explanation of why the plan, report, or other item is being disapproved. Respondents shall address each of the comments and resubmit the plan, report, or other item with the required changes within the time stated above. At such time as EPA determines that the plan, report, or other item is acceptable, EPA will transmit to Respondents a written statement to that effect.

45. If any plan, report, or other item required to be submitted by EPA for approval pursuant to this Order is disapproved by EPA, even after being resubmitted following Respondents' receipt of EPA's comments on the initial submittal, Respondents shall be deemed to be out of compliance with this Order. If any resubmitted plan, report, or other item, or portion thereof, is disapproved by EPA, EPA may again direct Respondents to make the necessary modifications thereto, and/or EPA may amend or develop the item(s) and recover the costs of doing so from Respondents. Respondents shall implement any such item(s) as amended or developed by EPA.

46. EPA shall be the final arbiter in any dispute regarding the sufficiency or acceptability of all documents submitted and all activities performed pursuant to this Order. EPA may modify those documents and/or perform additional work unilaterally. EPA may also require the Respondents to perform additional work pursuant to this Order to the extent such additional work is consistent with the Statement of Purpose section of this Order. This provision is not to be construed so as to limit any enforcement or other powers EPA has under the National Contingency Plan ("NCP") or under any other applicable law or regulation.

#### Community Relations

47. Respondents shall cooperate with EPA in providing information relating to the work required hereunder to the public. As requested by EPA, Respondents shall participate in the preparation of all appropriate information disseminated to the public and in public meetings which may be held or sponsored by EPA to explain activities at or concerning the Site.

#### General Provisions

48. This Order shall apply to and be binding upon the Respondents, their successors and assigns. Respondents agree to instruct their officers, directors, employees and agents involved in the performance of the work required by this Order to cooperate in carrying out the obligations of Respondents under this Order. Respondents agree that their officers, directors, employees, and agents involved in the performance of the work required by this Order shall take all necessary steps to accomplish the performance of said work in accordance with this Order. Respondents are jointly and severally responsible for carrying out all actions required of them by this Order. The signatories to this Order certify that they are authorized to execute and legally bind the parties they represent to this Consent Order. No change in the ownership or corporate status of

the Respondents or of the Site shall alter Respondents' responsibilities under this Order.

# 49. The Respondents shall provide a copy of this Order to any subsequent owners or successors before ownership rights or stock or assets in a corporate acquisition are transferred. 50. All actions and activities carried out by Respondents pursuant to this Order shall be performed in accordance with all applicable federal, state, and local laws, regulations, and requirements, including but not limited to the NCP and any amendments thereto that are promulgated while this Order is in effect.

51. Notwithstanding any other provision in this Order, and in accordance with Section 121(e)(1) of CERCLA, no federal, state, or local permits shall be required for any portion of the work required hereunder that is conducted entirely on-Site, although Respondents must comply with the substantive requirements that would otherwise be included in such a permit. Respondents shall obtain all permits necessary for off-Site work under federal, state, or local laws and shall submit timely applications and requests for any such permits. This Order is not, nor shall it act as, a permit issued pursuant to any federal or state statute or regulation.

52. All plans, reports and other submittals required to be submitted to EPA pursuant to this Order shall, upon approval by EPA, be deemed to be incorporated in and an enforceable part of this Order.

53. All waste disposal conducted by Respondents pursuant to this Order shall be performed in compliance with all applicable requirements of CERCLA, including Section 121(d)(3), 42 U.S.C. §9621(d)(3), RCRA, the Toxic Substances Control Act ("TSCA"), 15 U.S.C. §§2601-2629, and all applicable regulations promulgated pursuant thereto, and all other applicable federal and state laws and regulations. In addition, all waste disposal conducted by Respondents pursuant to this Order shall be carried out in compliance with all applicable EPA policies and guidance documents, including the EPA guidance document entitled, "Superfund Removal Procedures" (OSWER, 1988). In addition, if hazardous substances from the Site are to be shipped to a waste management facility outside of New York State, Respondents shall insure that both the environmental agency of the accepting state and the EPA OSC are notified of the following: (a) the name and location of the facility to which the wastes are to be shipped; (b) the type and quantity of waste to be shipped; (c) the expected schedule for the waste shipments; and (d) the method of transportation. Respondents shall provide such notification to the affected state and to EPA in writing as soon as practicable, but in any event at least five (5) business days prior to the said shipments.



54. At the time of completion of all activities required by this Order, demobilization shall include sampling and proper disposal or decontamination of protective clothing, remaining laboratory samples, and any equipment or structures constructed to facilitate the cleanup.

55. Respondents may assert a claim of business confidentiality under 40 C.F.R. § 2.203, covering part or all of the information submitted to EPA pursuant to the terms of this Order, provided such claim is allowed by section 104(e)(7) of CERCLA, 42 U.S.C. § 9607(e)(7). This claim shall be asserted in the manner described by 40 C.F.R. §2.203(b) and substantiated at the time the claim is made. Information determined to be confidential by EPA will be given the protection specified in 40 C.F.R. Part 2. If no such claim accompanies the information when it is submitted to EPA, it may be made available to the public by EPA or New York State without further notice to Respondents. Respondents agree not to assert confidentiality claims with respect to any data related to Site conditions, sampling or monitoring.

56. Neither EPA nor the United States, by issuance of this Order, assumes any liability for any injuries or damages to persons or property resulting from acts or omissions by Respondents or Respondents' employees, agents, contractor(s), or consultant(s) in carrying out any action or activity pursuant to this Order, nor shall EPA or the United States be held as or be held out to be a party to any contract entered into by Respondents or Respondents' officers, employees, agents, contractor(s), or consultant(s) in carrying out any action or activity pursuant to this Order.

57. Respondents agree to indemnify and hold harmless EPA and the United States Government, its agencies, departments, agents, and employees, from all claims, causes of action, damages, and costs of any type or description by third parties for any injuries or damages to persons or property resulting from acts or omissions of Respondent, its officers, directors, officials, agents, servants, receivers, trustees, successors, or assigns as a result of the fulfillment or attempted fulfillment of the terms and conditions of this Order by Respondents.

58. Nothing contained in this Order shall affect any right, claim, interest, defense, or cause of action of any party hereto with respect to third parties.

59. Nothing in this Order shall be construed to constitute preauthorization under Section 111(a)(2) of CERCLA, 42 U.S.C. §9611(a)(2), and 40 CFR §300.700(d).

60. Respondents hereby waive any rights they may have to seek reimbursement pursuant to Sections 106(b)(2), 111 and/or 112 of CERCLA, 42 U.S.C. §§9606(b)(2), 9611, 9612, or any other

provision of law, either directly or indirectly, from the Hazardous Substance Superfund of costs incurred by Respondents in complying with this Order.

61. Nothing herein shall constitute or be construed as a satisfaction or release from liability for Respondents or Respondents' officers, directors, employees, agents, contractor(s), consultant(s), receivers, trustees, successors, or assigns, or for any other individual or entity. Nothing herein shall constitute a finding that Respondents are the sole responsible parties with respect to the release and threatened release of hazardous substances at and from the Site.

62. No informal advice, guidance, suggestions or comments by EPA shall be construed to relieve Respondents of any of their obligations under this Order.

63. "Force majeure", for purposes of this Order, is defined as any event arising from causes beyond the control of Respondents and of any entity controlled by Respondents, including their contractors and subcontractors, that delays the timely performance of any obligation under this Order notwithstanding Respondents' best efforts to avoid the delay. The requirement that the Respondents exercise "best efforts to avoid the delay" includes using best efforts to address the effects of any potential force majeure event (1) as it is occurring and (2) following the potential force majeure event, such that the delay is minimized to the greatest extent practicable. Examples of events that are not force majeure events includes, but are not limited to, increased costs or expenses of any work to be performed under this Order or the financial difficulty of Respondents to perform such work.

64. If any event occurs or has occurred that may delay the performance of any obligation under this Order, whether or not caused by a force majeure event, Respondents shall notify by telephone the OSC, or in his or her absence, the Chief of the Removal Action Branch of the Emergency and Remedial Response Division, EPA Region II, within 48 hours of when the Respondents knew or should have known that the event might cause a delay. Within five business days thereafter, Respondents shall provide in writing: the reasons for the delay; Respondents' rationale for interpreting the circumstances as constituting a force majeure event (should that be Respondents' claim); the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to mitigate the effect of the delay; and a statement as to whether, in the opinion of Respondents, such event may cause or contribute to an endangerment to public health, welfare, or the environment. Such written notice shall be accompanied by all available pertinent documentation including, but not limited to, third-party correspondence.

Respondents shall exercise best efforts to avoid or minimize any delay and any effects of a delay. Failure to comply with the above requirements shall preclude Respondents from asserting any claim of force majeure.

65. If EPA agrees that the delay or anticipated delay is attributable to force majeure, the time for performance of the obligations under this Order that are directly affected by the force majeure event will be extended for a period of time, determined by EPA, not to exceed the actual duration of the delay caused by the force majeure event. Any extension of the time for performance of the obligation directly affected by the force majeure event shall not, of itself, extend the time for performance of any subsequent obligation.

66. This Order may be amended by mutual agreement of EPA and Respondents. Such amendments shall be in writing and shall have as their effective date that date on which such amendments are signed by EPA.

67. Except where expressly stated otherwise herein, all time periods specified in this Order shall be construed as calendar days rather than business days.

#### Reimbursement

68. Respondents agree to reimburse EPA for all oversight costs relating to the work performed pursuant to this Order that are incurred by EPA after the effective date of this Order and are not inconsistent with the NCP. Such costs will include both direct and indirect costs. EPA will periodically transmit to Respondents billings for such costs. Those billings will be accompanied by a printout of cost data in EPA's Financial Management System, supplemented, if necessary, by a letter report(s) documenting additional costs incurred by EPA which are not reflected in that printout. The billings will also be accompanied by a calculation of EPA's indirect costs. Respondents shall, within forty-five (45) days of receipt of each such billing and the aforementioned accompanying information, remit a cashier's or certified check for the amount of those costs, made payable to the "Hazardous Substance Superfund." Such payments shall contain a reference to the index number of this Order and shall be mailed to the following address:

EPA - Region II  
Attn: Superfund Accounting  
P.O. Box 360188M  
Pittsburgh, PA 15251

Such payments shall also be accompanied by a letter of explanation including the name and address of the Respondents,

*Interest  
about  
NEC  
Cost.*

the name of the Site (the PAS Oswego Site), and the EPA Region number (EPA Region II); a copy of the letter and the check shall be sent to the EPA addressees listed in paragraph 32 above. Pursuant to 31 U.S.C. § 3717, interest shall accrue on any amounts overdue under this paragraph at a rate established by the Department of Treasury under 31 U.S.C. § 3717 for any period of such delinquency. Notwithstanding the provisions contained in this paragraph, the parties to this Order agree that the Respondents will not be billed for reimbursement of costs pursuant to this paragraph until such costs exceed the \$499,244.00 amount reflected in paragraph 9 of this Order.

### Enforcement

69. Failure of Respondents to expeditiously and completely carry out the terms of this Order may result in EPA conducting the required actions, pursuant to Section 104(a) of CERCLA, 42 U.S.C. §9604(a).

70. If Respondents fail, without prior EPA approval, to comply with any of the requirements or time limits set forth in or established pursuant to this Order, and such failure is not excused under the terms of paragraphs 63 through 65 above, Respondents shall, upon demand by EPA, pay a stipulated penalty to EPA in the amount indicated below for each day of noncompliance:

a. For all obligations of this Order other than the timely provision of monthly progress reports required by this Order, stipulated penalties shall accrue in the amount of \$1000 per day, per violation, for the first seven days of noncompliance; \$2000 per day, per violation for the 8th through 14th day of noncompliance, and \$4000 per day, per violation, for the 15th through 30th day of noncompliance.

b. For the monthly progress reports, stipulated penalties shall accrue in the amount of \$250 per day, per violation, for the first week of noncompliance; \$500 per day, per violation, for the 8th through 14th day of noncompliance; and \$1000 per day, per violation, for the 15th day through the 30th day of noncompliance.

c. Any such penalty shall accrue as of the first day after the applicable deadline has passed, and shall continue to accrue until the noncompliance is corrected, through the 30th day of such noncompliance. Such penalties shall be due and payable ten (10) days following receipt of a written demand from EPA. Payment of any such penalty to EPA shall be made by cashier's or certified check made payable to the "Hazardous Substance Superfund," with a notation of the index number of this

Order, and shall be mailed to the address set forth in paragraph 66 above. A letter stating the basis for the penalties, the name and address of the Respondents, the name of the Site, and the EPA Region number shall accompany each such payment; a copy of the letter and the check shall be mailed to the EPA addressees listed in paragraph 32, above.

71. Notwithstanding any other provision of this Order, failure of Respondents to comply with any provision of this Order may result in the initiation of an enforcement action against Respondents, including enforcement actions pursuant to Sections 106(b)(1) and/or 107(c)(3) of CERCLA, 42 U.S.C. §§ 9606(b)(1), 9607(c)(3), which may result in the assessment of fines of up to \$25,000 for each day of such noncompliance and/or the assessment of punitive damages.

72. Notwithstanding any other provision of this Order, EPA reserves its right to bring an action against Respondents (or any other responsible party) pursuant to Section 107(a) of CERCLA, 42 U.S.C. §9607(a), for recovery of any costs which have been or may be incurred by the United States Government after April 1, 1987, with respect to the Site.

73. Nothing herein shall preclude EPA from taking any additional enforcement actions and/or other actions as it may deem necessary or appropriate for any purpose, including, the investigation, prevention, or abatement of a threat to the public health, welfare, or the environment arising from conditions at the Site. Respondents reserve all rights they may have to contest or defend against any claim of reimbursement for any response costs incurred by virtue of this paragraph.

#### Termination and Satisfaction

74. When Respondents are satisfied that the work required by this Order has been completed, Respondents shall submit a written report to EPA specifically setting forth how Respondents have complied with this Order and have satisfactorily implemented the requirements set forth herein. This report shall be accompanied by appropriate documentation which substantiates to EPA's satisfaction Respondents' assertion that the work required hereunder has been satisfactorily completed. The report shall further include a sworn statement by a responsible official representing one or more of the Respondents or by the Designated Coordinator who has been delegated this responsibility by the Respondents and whose qualifications have been found by EPA to be acceptable, pursuant to paragraph 26 of this Order. Each representative shall make the following attestation:

"To the best of my knowledge, after thorough investigation, I certify that the information contained in or accompanying this submission is true, accurate, and complete. I am aware

that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I have been delegated the authority by Respondents to make this certification on their behalf."

Upon a determination by EPA, following its receipt of the aforesaid sworn statement and report, that the work required pursuant to this Order has been fully carried out in accordance with this Order, EPA will so notify Respondents in writing. Following satisfaction of the requirements of this Order, Respondents shall have resolved their liability to EPA for the work performed by Respondents pursuant to this Order; provided that, as indicated in paragraph 25 above, EPA shall remain free to take administrative or legal action to require Respondents to perform or pay the costs of additional work of the same type as that called for by this Order, or to perform or pay the costs of other activities. The activities conducted by Respondents, as approved by EPA shall be deemed to be consistent with the NCP.

#### Effective Date and Effect of Consent

75. This Order shall become effective on the date of its receipt by the Chairman of the Steering Committee for the Respondents after having been signed by or on behalf of the Respondents and the Regional Administrator of EPA Region II. All times for performance of actions or activities required herein will be calculated from said effective date.

76. By signing this Order and taking actions under this Order, Respondents do not admit, adopt, accept, concede, or acknowledge EPA's Findings of Fact and Conclusions of Law. Respondents reserve the right to contest such Findings of Fact and Conclusions of Law in any proceeding regarding the Site other than an action brought by the United States, including EPA, to enforce this Order. Furthermore, the participation of Respondents in this Order shall not be considered an admission of liability and is not admissible in evidence against the Respondents in any judicial or administrative proceeding other than a proceeding by the United States, including EPA, to enforce this Order or a judgment relating to it. Except as otherwise provided in this Order, Respondents do not admit liability under CERCLA or any other statute or common law and any responsibility for response costs or damages thereunder, and do not, by signing this Order, waive any rights they may have. Respondents retain their rights to assert claims against other potentially responsible parties at the Site. However, Respondents agree not to contest the validity or terms of this Order in any action brought by the United States, including EPA, to enforce its terms, and also agree not to contest the authority or

jurisdiction of the Regional Administrator of EPA Region II to issue this Order.

U.S. ENVIRONMENTAL PROTECTION AGENCY

CONSTANTINE SIDAMON-ERISTOFF  
Regional Administrator  
U.S. Environmental Protection Agency  
Region II

Date of Issuance

CONSENT

Respondent, \_\_\_\_\_, has had an opportunity to confer with EPA to discuss the terms and the issuance of this Order. The Respondent hereby consents to the issuance of this Order and to its terms. Furthermore, the individual signing this Order on behalf of Respondent certifies that he or she is fully and legally authorized to agree to the terms and conditions of this Order and to bind Respondent.

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
DATE

\_\_\_\_\_  
(printed name of signatory)

\_\_\_\_\_  
(title of signatory)



New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233-7016



SEP 18 1991

Thomas C. Jorling  
Commissioner

Ms. Carol Y. Berns, Esq.  
Assistant Regional Counsel  
Office of Regional Counsel  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

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RE: Pollution Abatement Services Site #7-38-001  
Oswego County

Dear Ms. Berns:

Based on my telephone discussions with you and later on with Richard Ramon on September 13, 1991, the New York State Department of Environmental Conservation was advised of the current status of the negotiations between USEPA and the Responsible Parties (RP's) relative to performing the activities associated with implementing the Record of Decision (ROD) and future monitoring and operation and maintenance activities at the PAS site.

As we understand the current status, the USEPA is now negotiating an interim consent order with the RP's to take over the responsibility of the leachate/groundwater removal and disposal with a limit on the total quantity of leachate/groundwater that the RP's would be required to pump. Also, during our discussions EPA assured us that negotiations on another consent order for the remaining activities would begin immediately upon completion of the first order.

The Department has reviewed the USEPA's approach and we understand your time constraints, however, we believe that establishing a limit on the total quantity of leachate that the RP's would be required to pump may lead to future difficulties as follows:

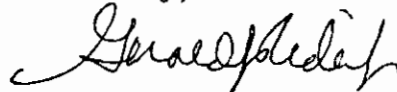
1. A cap on the maximum leachate/groundwater removal (which according to Mr. Ramon may be around one million gallons) may not be sufficient. The recent URS study indicated that in the long-term about 3 million gallons of leachate/groundwater may be required to be removed in order to establish an inward gradient across the slurry wall. Also, thereafter, about 2000 to 7000 gallons a day (60,000 to 210,000 gallons/month) of leachate/groundwater may have to be removed in order to maintain an inward gradient across the slurry wall. As you will notice these estimated quantities are much higher than the quantity proposed in the negotiations at this time. Therefore, the Department believes that the current agreement will not resolve the problem's at this site and could ultimately leave the State in the same situation that exists today.

2. The operation and maintenance of the leachate/groundwater collection system, pump's etc., is an integral part of leachate/groundwater removal activities, therefore, the RP's should also take over these responsibilities at this time in order to avoid confusion/conflict in the field. The elevations recorded by the RP's should be consistent and as per the O&M Manual.

Although we understand that the ultimate acceptance of the PAS site by the RP's will inevitably require more than one order, we feel that rushing this first order and including a limit on leachate removal may not be in the public's best interest. As I informed you the State prefers a leachate removal rate somewhat higher than the current rate per month to assure that the level of leachate remains below the top of the slurry wall while implementation of the ROD occurs. Ultimately, inward gradients would be achieved by implementing the ROD according to a set time schedule. This scenario should be presented to the RP's.

As always, the NYSDEC is ready to continue discussing this issue at your convenience. If you have any questions, please call me at 518/457-0927.

Sincerely,



Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: Richard Ramon  
L. DiGuardia

a:berns.pas:AKG:GR:et

A. K. Gupta



Thomas C. Jorling  
Commissioner

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233-7016

SEP 18 1991

Ms. Carol Y. Berns, Esq.  
Assistant Regional Counsel  
Office of Regional Counsel  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

RE: Pollution Abatement Services Site #7-38-001  
Oswego County

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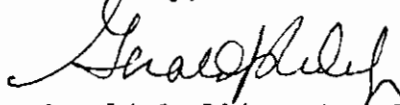
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As always, the NYSDEC is ready to continue discussing this issue at your convenience. If you have any questions, please call me at 518/457-0927.

Sincerely,



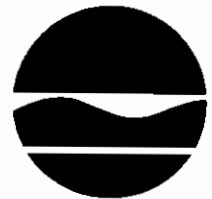
Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: Richard Ramon  
L. DiGuardia

bcc: M. O'Toole  
C. Goddard  
A. Rockmore  
F. Bifera  
C. Branagh  
R. Lupe  
A. Gupta

a:berns.pas:AKG:GR:et

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling  
Commissioner

SEP 18 1991

FEDERAL EXPRESS

Mr. Louis DiGuardia  
U.S. Environmental Protection Agency  
MS-211  
2890 Woodbridge Avenue  
Edison, New Jersey 08837-3679

RE: Pollution Abatement Services Site #7-38-001  
Oswego County  
Leachate/Groundwater Estimates

Dear Mr. DiGuardia:

Per your request on the telephone on September 16, 1991, attached is a copy of the Final Report for the Leachate Collection System and Cap Evaluation, as it relates to the Long-Term Monitoring, Operation and Maintenance of the PAS Site. This report was prepared by URS Consultants, Inc. as part of their O&M task assignment. In this report the leachate flow has been estimated (refer to Section 2.3).

As estimated, about 3 million gallons of leachate will need to be pumped out in order to establish an inward flow condition at all locations across the slurry wall. Also, thereafter, about 2000 to 7000 gallons per day leachate is to be pumped out to maintain an inward flow condition.

As discussed, the current NYSDEC leachate removal contract is in effect until 1993. Through this contract about 12,000 gallons/month of leachate is being removed on an interim basis to prevent any overflow over the slurry wall. This removal rate is not sufficient for the long term. The purpose of this interim pumping rate is to allow time to construct a permanent and economical leachate/groundwater disposal alternative according to the Record of Decision.

The present O&M manual developed for this site is for the interim pumping conditions. This manual is scheduled to be revised once a permanent long-term remedy is constructed. If you need a copy of the O&M Manual, please call me at 518/457-0927.

Sincerely,



A. K. Gupta, P.E.  
Project Manager  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

cc:w/o enc. R. Ramon, USEPA  
C. Berns, USEPA

bcc: G. Rider  
C. Branagh, NYSDEC, Reg. 7  
R. Lupe

a:leachpas.epa:AKG:et

SEP 12 1991

Mr. Richard Ramon, P.E.  
Emergency & Remedial Response Division  
USEPA - Region II  
26 Federal Plaza - Room 29-100  
New York, NY 10278

RE: Pollution Abatement Services, Site 7-38-001  
Oswego County  
Environmental Monitoring Summary Report

Dear Mr. Ramon:

Per your request for the environmental monitoring and sampling results at the PAS site, enclosed is a copy of the recent Draft Environmental Monitoring Summary Reports prepared after the Spring 1991 sampling event at the PAS site. The previous monitoring and sampling results are also included in this report.

If you have any questions, please call me at 518/457-0927.

Sincerely,



A. K. Gupta, P.E.  
Environmental Engineer II  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosures

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TELECON REPORT

FROM : Richard Ramon OF USEPA  
TO : A. K. Gupta OF NYSDEC  
DATE : 9/11/91 SUB PAS site consent order.

BACKGROUND/SUMMARY : USEPA/RP's had a meeting on  
9/11/91 to develop a consent order for RP's  
to take over the responsibility of C&M at  
the PAS site. Mr. Ramon called to  
update the status of the meeting.

TELECON : 1. Apparently it appears that RP's want  
to eliminate some of the boiler plate language  
from the consent order. The EPA may have to  
issue a one sided order, as this is not acceptable  
to the EPA.

2. The RP's do not want to take the responsibility  
of monitoring & sampling at this time. The EPA  
said that there will be another consent order  
for long-term monitoring (Response) at this site  
and therefore may be handled separately.

3. The RP's seem's to agree to take the responsibility  
for leachate removal & monthly G.W. elevations.

4. RP's requested ~~the~~ results of past monitoring at this  
site. which I stated will be mailed to EPA by DEC.

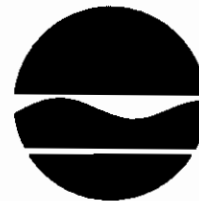
5. RP's wanted to know the cost of leachate removal  
& other monitoring efforts. I explained the cost to Richard  
Ramon, and he said that no further details are required.

*Leachate @ 0.194/gal, + 160 min cost + freight cost, + 100 (unlabeled)*

Copy : GJR ✓ JJW     FILE



New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233-7010



Thomas C. Jorling  
Commissioner

FEDERAL EXPRESS

Mr. Richard Ramon, P. E.  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency  
Region II  
26 Federal Plaza - Room 29-100  
New York, NY 10278

SEP 09 1991

RE: Pollution Abatement Services Site #7-38-001  
Oswego County  
Site Monitoring and Sampling Plan

Dear Mr. Ramon:

Per your request, attached is a abstract copy of the PAS site Monitoring and Sampling plan from the Site Monitoring, Operation and Maintenance Plan. This plan describes the monitoring and sampling efforts until 1993. However, the same plan will continue beyond 1993.

If you have any questions, please call me at 518/457-0927.

Sincerely,

A. K. Gupta, P.E.  
Environmental Engineer II  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachment

cc: G. Rider

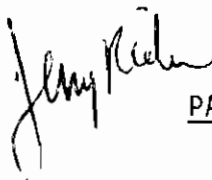
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Carol Burns

DEC Comments 8/21/91

Please let us take a look at the final draft consent order. If you have any questions, please call me.

RE-FAKED - 8/26/91



PAS SITE

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10.

Since 1986 approximately 602,600 gallons of leachate and groundwater have been removed to an off-site treatment facility. However, the leachate and groundwater have accumulated within the containment cell at a rapid rate which necessitates monthly pumping and removal of approximately 20,000 gallons in order to maintain levels of leachate within containment cell below the top of slurry wall at the lower end of the site. Failure to remove and treat this leachate and groundwater on a monthly basis could cause a buildup of liquids which would impair the structural and hydraulic integrity of the containment cell and cause a release of hazardous substances. This leachate and groundwater withdrawal rate may have to be further adjusted to create an inward groundwater flow conditions across the full length of the slurry wall.

19.

- I. Implementation of program to remove, treat and dispose of accumulated leachate and groundwater until such time as a final remedy has been constructed, to include but not be limited to:
  - a) Remove, treat and dispose of accumulated leachate and groundwater as described in paragraph 10 above.
  - b) Implementation of operation and maintenance and monitoring in compliance with the substantial technical requirements of CERCLA Part 300, Subpart F, RCRA Regulations Part 264 and 265 and NYS Regulations 6 NYCRR Part 370-373. The RP will be responsible for basic periodic maintenance, will follow operational standards and will provide emergency response if operating parameters are exceeded.
  - c) Operation and maintenance of the other on site facilities, such as leachate and groundwater collection and pumping system, slurry wall, HDPE liner and cap, leachate and groundwater collection tank, security fence etc.
  - d) Implementation of long-term monitoring plan beginning with the plan developed by the NYSDEC including but not limited to collection and analysis of environmental samples twice a year, recording of groundwater and surface water elevation on a monthly basis.

The monitoring results will be evaluated as they are received. Copies of the results will be provided to the State and Federal governments within 10 days of receipt with notes regarding any violations of environmental standards.

The RP will be responsible for submitting a summary report, to the governments, on a six-monthly basis. This report at a minimum should discuss the activities performed on site since the previous report. The RP will review the environmental and hydrogeological data generated and summarize and evaluate the findings. The report is to discuss any violations to the standards and corrective actions performed to correct the situation.

- II. Development of a pre-design study for selection of a final remedy for removal, treatment and disposal of accumulated leachate and groundwater. Achieve the goals set in the Record of Decision (ROD) dated June 6, ~~1991~~<sup>1984</sup> Specifically
- a. prevent leachate and groundwater within the slurry wall from migrating off-site;
  - b. provide operation and maintenance of the remedy;
  - c. conduct and evaluate monitoring of the site; and
  - d. provide post closure care.

Administrative Order on Consent which was entered into between EPA and the Respondents on September 27, 1990.

9. Many of the wastes and constituents thereof disposed of at the Site and detected in the groundwater and leachate, including those listed above, are "hazardous substances" as defined in section 101(14) of CERCLA, 42 U.S.C. 9601(14).

10. Since 1986 <sup>approx.</sup> accumulated leachate and groundwater have been collected and removed to an off-Site treatment facility. However, the leachate and groundwater have accumulated in the cap at a rapid rate which necessitates monthly pumping and removal of approximately x gallons. Rich - I need you to beef up these facts to justify the emergency nature of this removal. Failure to remove and treat this leachate and groundwater on a monthly basis could cause a buildup of liquids which would impair the structural integrity of the cap and cause a release of hazardous substances.

11. Exposure to the various hazardous substances detected at the Site through failure of the cap or otherwise could result in direct contact, inhalation, or ingestion and may cause a variety of adverse human health effects.

11. Each of the Respondents is a "person" within the meaning of Section 101(21) of CERCLA, 42 U.S.C. §9601(21). Each of the Respondents arranged for the disposal or treatment of hazardous substances which came to be disposed of at the Site, and is accordingly a responsible party under Sections 104, 107, and 122 of CERCLA, 42 U.S.C. §§ 9604, 9607, and 9622.

12. The Site is a "facility" as defined in section 101(9) of CERCLA, 42 U.S.C. §9601(9).

14. The presence of hazardous substances at the Site or the past, present or potential migration of hazardous substances currently located at or emanating from the Site, constitute actual and/or threatened "releases" as defined in section 101(22) of CERCLA, 42 U.S.C. §9601(22).

15. The actions required by this Consent Order are necessary to protect the public health or welfare or the environment, are in the public interest, 42 U.S.C. §9622(a), are consistent with CERCLA and the NCP, 42 U.S.C. §§ 9604(a)(1), 9622(a), and are expected to expedite effective remedial action and minimize litigation, 42 U.S.C. §9622(a).

16. Respondents have been given an opportunity to discuss with EPA the basis for issuance of this Order and its terms.

### III. DETERMINATION

17. Based upon the Findings set forth above and other information available to EPA, EPA has determined that the release and threat of release of hazardous substances into the environment from the Site may present an imminent and substantial endangerment to the public health, welfare, and the environment, within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

#### IV. ORDER

18. Based upon the foregoing Findings of Fact and Conclusions of Law, Determination, and other information available to EPA, it is hereby ordered and agreed that Respondent shall undertake a response action at the Site in accordance with the requirements specified below. All activities specified below shall be initiated and completed as soon as possible even though maximum time periods for their completion are specified herein.

#### Description of Work

19. Within twenty (20) business days of the effective date of this Order, the Respondent shall submit to EPA for review and approval a detailed work plan (hereinafter, the "Work Plan") and ~~implementation schedule for the performance of the following activities:~~

**Rich - you need to flesh out this section**

- a) ~~implementation of program to remove, treat and dispose of accumulated leachate and groundwater until such time as a final remedy has been constructed;~~
- b) development of a pre-design study for selection of a final remedy for removal, treatment and disposal of accumulated leachate and groundwater

20. The Work Plan shall include, but need not be limited to, the following: **Rich to complete section**

- a) ~~A detailed time schedule for the performance of specific tasks and for submitting plans and reports to EPA, as set forth in this Order; and a detailed description of how these tasks will be accomplished.~~

The Commission shall have the right to request and receive from the applicant any information necessary to carry out its functions under this Act.

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### III. DELEGATION

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**ORDER**

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**New York State Department of Environmental Conservation**

**MEMORANDUM**

**TO:** Gerry Rider, Jr., Chief, Operation and Maintenance Section, DHWR  
**FROM:** Raymond Lupe, Chief, Central Projects Section, BCRA, DHWR  
**SUBJECT:** Pollution Abatement Services (7-38-001) POTW Feasibility Study *Refuse*

**DATE:** **AUG 19 1991**

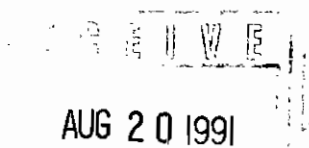
The July 10, 1991 report entitled "POTW Feasibility Study, PAS Oswego Superfund Site, Oswego, New York" prepared by O'Brien & Gere has been reviewed. This report is an evaluation of the feasibility of disposing leachate from the PAS site at a local POTW.

Attached is an August 19, 1991 memorandum of review comments prepared by Mr. Edwards and Mr. McNamee. This memorandum raises several important issues which must be addressed if disposal of leachate at the POTW is given further consideration. Most important are:

1. The organic chemical content of the leachate was not evaluated. Recent data is available which better characterizes the organic chemicals in the leachate and must be included in the evaluation.
2. Special construction problems to transfer the leachate to the sanitary sewers must be addressed, especially as related to protecting the integrity of the cap and slurry wall and crossing White and Wine Creeks.
3. The Oswego POTW was in violation of its SPDES Permit during 1990. Disposal of leachate at the Oswego POTW may not be allowable until plant improvements to correct the SPDES violations are completed. In addition, the Oswego POTW and Region 7 Water Engineer must approve the disposal of leachate at the POTW.
4. The June 6, 1984 Record of Decision chose on-site leachate treatment as part of the selected remedy for this site. Variation from that decision would require a much more in-depth evaluation of all alternatives and possibly a reopening of the ROD. Changing the selected remedy for leachate disposal should not be based on cost alone.

Please contact me if you have any questions on these comments or on my July 30, 1991 memorandum of comments.

cc: L. Flocke  
 C. Branagh  
 R. Edwards/R. McNamee  
 A. K. Gupta

  
 AUG 20 1991





**New York State Department of Environmental Conservation**

**MEMORANDUM**

**TO:** Ray Lupe, Chief, Central Projects Section  
**FROM:** Bob Edwards and Bob McNamee, Senior Engineering Geologists  
**SUBJECT:** Pollution Abatement Services Site (7-38-001): POTW Feasibility Study  
**DATE:** August 19, 1991

We have reviewed the July 10, 1991 report by O'Brien & Gere (O'B&G) entitled "POTW Feasibility Study, PAS Oswego Superfund Site, Oswego, New York" as you requested.

This report is supposed to determine the feasibility of PAS leachate treatment at the Oswego POTW, however, the leachate characterization done in this report does not evaluate any recent organics analytical data of the leachate. The only recent data listed in this report states that organics were not analyzed. This is not the case. The leachate at the PAS site has been analyzed for the entire target compound list on a regular basis for the past two years.

The report states that the sanitary sewer on Mitchell Street is approximately 500 feet from the PAS site. While this statement is true, the report fails to mention that both White and Wine Creeks are between the site and Mitchell Street. In addition, the holding tank, where the leachate is proposed to be stored prior to discharge to the sewer, is 400 feet farther from the collection trench. The plumbing involved with pumping the leachate from the tank to the sewer would have to be above ground in order to avoid destroying the cap and slurry wall and to cross the creeks.

The report states that the Oswego POTW was in violation of its SPDES permit on several occasions in 1990, but that "A recent newsletter article states that an expansion of the (treatment plant) appears imminent. This expansion would potentially allow even higher leachate flows to be accepted..." Should O'B&G be basing their evaluation of leachate disposal on newsletter articles?

O'Brien & Gere also bases most of their evaluations on a "maximum historical leachate flow" which was artificially calculated from the records of leachate removed from the site. There has never been a continual pumping and removal of the leachate collection trench to accurately determine the flow rate of leachate within the system.

The report goes on to state that the expected discharge of leachate from the site will be diluted by the other industrial discharges within the sewer system. However, O'B&G later states that to avoid overloading the POTW's capacity, site discharges can be regulated to occur during low flow and off-peak hours.

The treatment plant's SPDES permit would have to be revised in order to accept leachate from PAS. Current loadings would be reevaluated. New permit conditions would probably result from the expansion even without consideration of the potential for accepting the PAS leachate. Pretreatment may be required if the city accepts the Responsible Parties' bid to send the leachate to the plant.

Attachment B lists properties of the leachate from nine manifests. There have been many more than nine truckloads of leachate removed from the site. Are those presented typical, or are they just the most favorable?

Attachment C is a summary of influent concentrations from a 1982 report. Much has changed since then. This table should not be used in determining current loadings or characteristics.

O'Brien & Gere does not present a cost analysis, but limits their discussion to the feasibility of discharging leachate from the PAS site to Oswego's sewer system. For enough money and effort, anything is feasible. The report does not compare other alternatives or evaluate the feasibility of on-site treatment or off-site disposal via tankers. The report also does not consider the fact that Oswego does not want to accept the PAS leachate.

This report does not adequately address the impacts that the PAS leachate could have on the Oswego POTW because it failed to evaluate all of the data necessary for this study.

NYS DEPT. OF ENV. CONSERVATION  
50 WOLF ROAD  
ALBANY, NY 12233

DIVISION OF HAZARDOUS WASTE REMEDIATION  
BUREAU OF WESTERN REMEDIAL ACTION  
SPECIAL PROJECTS SECTION

GJR  
BCS  
AIC  
Thanks

TELECON REPORT

FROM : TOM KELLEHAN OF D.C.W. 7-6716  
TO : A.K. GUPTA OF C&M Section  
DATE : 7/26/91 SUB PAS, DISCHARGE TO POTW OSWEGO-2

BACKGROUND/SUMMARY :

PRP'S REPORT & REQUEST TO DISCHARGE PAS  
LEACHATE IN OSWEGO EAST POTW SEWERS WITH-  
OUT TREATMENT.

TELECON : TOM CALLED TO INFORM THAT THE CITY OF  
OSWEGO (MOST LIKELY JOHN McGRATH, 315 342-8146) & REGION-7  
DEPT CALLED TOM ON 7/25/91. ACCORDING TO THESE  
CALLS

1. PRP'S APPROACHED CITY ON 7/24/91. CITY APPARENTLY  
CITY TOLD PRP'S THAT THE CITY DO NOT TRUST  
PAS SITE & IS NOT WILLING TO TAKE PAS LEACHATE.
2. THE DOW BELIEVES THAT THE O'BRIEN & GERE  
REPORT IS INCOMPLETE. THE DOW NORMALLY  
DO NOT SPEND TIME ON REVIEWS, UNLESS CITY  
REQUEST FOR PERMIT MODIFICATION. IT IS  
POSSIBLE THAT WE MAY NOT GET DETAILED COMMENTS  
FROM DOW.
3. TOM ALSO ENQUIRED ABOUT OUR POSITION, I INFORMED  
HIM THAT WE ARE INTERESTED IN ~~SOME~~ ON-SITE  
~~DISPOSAL~~ EITHER TREATMENT PLANT OR DISCHARGE TO  
POTW OF PAS LEACHATE FOR EFFECTIVE MAINTENANCE OF SITE.
4. DOW WILL RECONTACT US AGAIN AFTER RECEIVING REGION-7 RESPONSE

Copy : GJR Y JW FILE Y

**FILE COPY**

Mr. Richard Ramon, P.E.  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency  
Region II  
26 Federal Plaza - Room 29-100  
New York, NY 10278

**JUN 21 1991**

RE: Pollution Abatement Services (PAS)  
Oswego County, Site #7-38-001

Dear Mr. Ramon:

Enclosed for your information is a copy of the Final Report for Leachate Collection System and Cap Evaluation, as it relates to the Long-term Operation and Maintenance of the PAS site. This report was prepared by the URS Consultants, Inc. (NYSDEC Consultant) as part of their O&M task assignment.

If you have any questions, please call me at 518/457-0927.

Sincerely,



A. K. Gupta, P.E.  
Environmental Engineer 2  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

bcc: G. Rider  
R. Lupe

a:ramon.pas:AKG:et



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

APR 29 1991

MAY 6 1991

Mr. James W. Moorman, Esq.  
Cadwalader, Wickersham & Taft  
1333 New Hampshire Ave., N.W.  
Washington, D.C. 20036

Re: PAS Site, Oswego, New York

Dear Mr. Moorman:

This letter is in response to your letter of April 3, 1991, offering, on behalf of the PAS Oswego Steering Committee, to examine the feasibility of discharging leachate from the Pollution Abatement Services (PAS) Site to the City of Oswego Sewage Treatment Plant (STP).

As I indicated in our telephone conversation on April 26, 1991, at this time, EPA is willing to forestall the installation of a temporary leachate treatment facility pending completion of your proposed study. However, we are willing to do so only on the assumption that your analysis will be completed by June 7, 1991. If at any time it appears that the date will not be met, please let me know and we may take further appropriate action.

As necessary, EPA expects to discuss the funds that were allocated to groundwater treatment, as well as other cost issues, at the time that negotiations are commenced for a remedial design/remedial action consent decree relating to the leachate treatment/disposal.

If you have any questions or comments, please do not hesitate to contact me at (212) 264-9791. Questions of a technical nature may be addressed to the Remedial Project Manager, Richard Ramon, P.E., at (212) 264-1336.

Sincerely yours,

Carol Y. Berns  
Assistant Regional Counsel  
Office of the Regional Counsel

cc: Jerry Rider, NYSDEC



Mike  
The PRPs have  
Bitten!  
GAK

Copy - C. Branagh - by  
R. Lupe  
F. Biferu

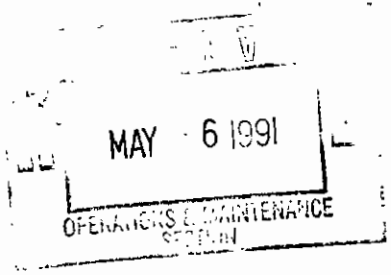
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

APR 29 1991



Mr. James W. Moorman, Esq.  
Cadwalader, Wickersham & Taft  
1333 New Hampshire Ave., N.W.  
Washington, D.C. 20036

Re: PAS Site, Oswego, New York

Dear Mr. Moorman:

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Sincerely yours,

*Carol Y. Berns*

Carol Y. Berns  
Assistant Regional Counsel  
Office of the Regional Counsel

cc: Jerry Rider, NYSDEC

**New York State Department of Environmental Conservation**

**MEMORANDUM**

*AKG  
to file*

**TO:** Gerry Rider, Chief, O&M Section  
**FROM:** Raymond E. Lupe, Chief, Central Projects Section  
**SUBJECT:** Pollution Abatement Services (PAS) (7-38-001), Leachate Removal

*RE Lupe*

**DATE:** APR 16 1991

The April 3, 1991 letter from Mr. James W. Moorman to Ms. Carol Y. Berns (EPA) on behalf of the PAS Oswego Steering Committee concerning leachate disposal at the PAS site has been reviewed.

The following concerns are offered for your consideration:

1. The leachate generated at the PAS site has been considered hazardous waste. Any proposal to dispose of the leachate at the City of Oswego POTW must be evaluated as to whether the discharge or sludge from the POTW may become a hazardous waste under the derivative rule.
2. Disposal of leachate at the Oswego City POTW will require approval by the City of Oswego and Region 7 Water Quality Engineer.
3. The proposed use of biological treatment needs further evaluation. The Central Projects Section has reservations that the leachate is amenable to biological treatment processes.
4. Leachate needs to be removed and disposed on a routine basis to properly maintain the remedy. The Department should not delay a subcontract for leachate removal/disposal while the PAS Steering Committee evaluates options. An alternative is for the Steering Committee to sign a Consent Order or Judgement with EPA to conduct the leachate removal/disposal on the schedule being followed by NYSDEC until an alternative method of treatment or disposal is agreed upon.

Please call me if you have any questions.

REL/dh  
a:riderPAS.doc

APR 16 1991

**New York State Department of Environmental Conservation**

**MEMORANDUM**

**TO:** Gerry Rider, Chief, O&M Section  
**FROM:** Raymond E. Lupe, Chief, Central Projects Section  
**SUBJECT:** Pollution Abatement Services (PAS) (7-38-001), Leachate Removal *RE Lupe*  
**DATE:** APR 16 1991

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Please call me if you have any questions.

REL/dh  
a:riderPAS.doc

REL/dh

bcc: A. K. Gupta  
R. Edwards  
C. Branagh - R-7  
L. Flocke - R-7

APR 17



New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233

**FAX MEMO**  
# PAGES 1 DATE 4/23/91 FAX # 264-1132  
TO JOEL Singerman  
FROM Gerald J. Rider  
CO. NYS DEC  
FH# 518/457-0927 FAX # 518/457-1088

APR 15 1991

Thomas C. Jorling  
Commissioner

Carol Y. Burns, Esq.  
Staff Attorney  
Office of Regional Counsel  
USEPA - Region II  
26 Federal Plaza  
New York, NY 10278

**FAX MEMO**  
# PAGES 1 DATE 4/15/91 FAX # 264-4354  
TO CAROL BURNS - 264-9791  
FROM A. K. Gupta  
CO.  
FH# 518/457-0927 FAX # 518/457-1088

RE: Pollution Abatement Services Site #7-38-001  
Oswego County - PRP's Letter Dated April 3, 1991

Dear Ms. Burns:

New York State Department of Environmental Conservation appreciates the opportunity to comment on the April 3, 1991 letter from Mr. James W. Moorman, Chairman, PAS Oswego Steering Committee.

We believe that Mr. Moorman's response to the General Notice for Removal Action does not go far enough. We believe that:

1. A Consent Order should be signed as part of the Governments agreement on any proposal of the PRP's.
2. A schedule of all milestone's should be established and incorporated into the Consent Order.
3. The PRP's should take over the responsibility of leachate pumping and disposal as soon as the Consent Order is signed.
4. In order to ensure prompt PRP action towards a permanent solution we believe a time frame for completion of the Consent Order should be established.

If you have any questions please call me or A. K. Gupta, of my staff, at 518/457-0927.

Sincerely,



Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: A. K. Gupta

a:burnsprp.pas:AKG:GR:et

PRP's have bitten  
the bullet like to  
agreement on future  
work falling in the  
EPA. Any thoughts or  
other discussion  
to go. Thanks  
Jenny

This man really  
got a hard  
conversation

OK

2 PM

Dear Ms. Burns:

New York State Department of Environmental Conservation appreciates the opportunity to comment on the April 3, 1991 letter from Mr. James W. Moorman, Chairman, PAS Oswego Steering Committee.

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If you have any questions please call me or A. K. Gupta, of my staff, at 518/457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

cc: A. K. Gupta

bcc: R. Lupe  
F. Bifera  
a:burnsprp.pas:AKG:GR:et  
C. Branagh  
A. Rockmore



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION II  
26 FEDERAL PLAZA  
NEW YORK, NY 10278  
FACSIMILE REQUEST AND COVER SHEET

PLEASE PRINT IN BLACK INK ONLY

TO: *A.K. Gupta*  
*NYSTDEC*

DATE/PHONE

*4/10/91*

FAX *518-457-1088*

REGION

FROM:

*Carol Y. Bems*

PHONE

*212-264-9791*

MAIL CODE

*20RC-NYCSOP*

OFFICE

*ORC*

DATE

*4/10/91*

TOTAL NUMBER OF PAGES

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.....  
INFORMATION FOR SENDING  
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Number

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Number

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FTS: 264-4359(Auto)  
COMM: (212) 264-4359

FTS: 264-1018  
COMM: 212-264-1018

*Please call me with any comments  
you have ASAP.*

*Berns*

*Cadwalader, Wickersham & Taft*

*1339 New Hampshire Ave., N.W.*

*Washington, D.C. 20036*

*Telephone: (202) 862-2200*

100 MAIDEN LANE  
NEW YORK, N.Y. 10038  
TEL: (212) 504-6000  
FAX: (212) 504-6868

440 ROYAL PALM WAY  
PALM BEACH, FLA 33480  
TEL: (407) 655-9500  
FAX: (407) 655-9308

860 SOUTH FIGUEROA STREET  
LOS ANGELES, CA 90017  
TEL: (213) 955-4600  
FAX: (213) 955-4668

FAX: (202) 862-2400  
TWX: 710-822-1934

James W. Moorhead  
(202) 862-2300

April 3, 1991

Via Federal Express

Carol Y. Berns, Esq.  
Staff Attorney  
Office of Regional Counsel  
U.S. EPA - Region II  
26 Federal Plaza  
New York, NY 10278

Re: General Notice for Removal Action at the  
Pollution Abatement Services, Inc. Site,  
Oswego, NY Dated March 13, 1991

Dear Ms. Berns:

Thank you for arranging the meeting of the PAS Oswego Steering Committee (the "Committee") with EPA Region II and NYDEC personnel on March 22, 1991 to discuss the above captioned matter.

The Committee has not yet decided its course of action in response to EPA's letter of March 13, 1991. Among other things, the Committee has serious reservations about the biological batch treatment proposal. However, as we discussed with you at the meeting, the Committee is interested in exploring a way to cooperate with EPA regarding groundwater treatment. We continue to believe disposal to the City of Oswego's POTW may be the most environmentally efficacious, as well as the most economical mode of treatment.

That being our view, we are prepared to propose to the PRPs that they fund (through the Steering Committee) a technical consultant to examine the POTW disposal alternative. We propose

Carol Y. Berns, Esq.

-2-

April 3, 1991

that this be done quickly, without the need to enter into a consent order. The consultant would also be made available to make presentations to Oswego. If, after this process, it appears that disposal to the Oswego POTW is feasible and cost effective, the Committee would discuss with EPA the arrangements for its accomplishments.

In order to effectively take this approach, we believe both EPA and DEP must be supportive. Obviously, the approach set forth in your letter of March 13 would have to be held in abeyance.

In addition, as we discussed on the 22nd, the Committee remains interested in an accounting of the moneys provided to EPA by the 1987 settlement for groundwater treatment. The Committee must insist that appropriate credit of those moneys be given to the PRPs during the next phase of groundwater treatment.

Very truly yours,



James W. Moorman  
Chairman, PAS Oswego Steering  
Committee

cc: Members, PAS Oswego Steering Committee

SPEED  
MESSAGE 44-900



SPEED MESSAGE

TO R. Lupe / Bob. McNamee

FROM A. K. Gupta.

Frank Biferia

SUBJECT Leachate Disposal (PAS site)

DATE 4/10/91

Please review attached letter from  
PAS Steering Committee and call me  
your comments ASAP.

Thanks!

A. K. Gupta

cc. Jerry

Frank Biferia's  
comment

I agree  
Jim Wilton

SIGNED

ORIGINAL

Jerry

Wilson Jones - Carbonless - MADE IN USA  
44-900 Duplicate

1. I believe that the EPA should insist on having a consent order.
  2. A. schedule of all activities milestones should be incorporated in the consent order.
  3. OR. PRP's should be advised to take over the leachate pumping & disposal immediately. In this case if they delay the work of on-site disposal they will incur excess cost of off-site disposal. I think we need discussions before we have our comments to [unclear] Burns.
- maybe both

WEINBERG, BERGESON & NEUMAN  
1300 EYE STREET, N. W.  
SUITE 600 EAST  
WASHINGTON, D. C. 20005

A. Recard more  
1. J.M.  
2. J.R.  
AKG & file

REED W. NEUMAN

TELEPHONE: 202-962-8585  
FACSIMILE: 202-962-8599

April 22, 1991

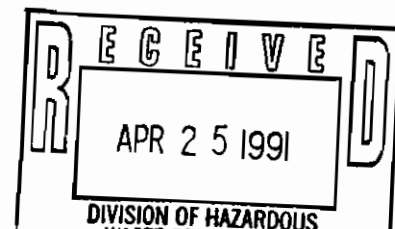
Mr. Richard Ramon, P.E.  
Project Manager  
Emergency and Remedial  
Response Division  
New York/Caribbean Superfund  
Branch I  
U.S. Environmental Protection Agency  
Region II  
26 Federal Plaza - Room 29-100  
New York, New York 10278

Re: General Notice for Removal Action at the Pollution  
Abatement Services, Inc. Site, Oswego, New York

Dear Mr. Ramon:

We have been asked by Bristol Laboratories ("Bristol") to respond to the notice letter recently directed to the Company regarding additional removal work EPA seeks at the above site.

As you know, Bristol has participated in response actions previously sponsored by the PRP Steering Committee, and expects again to participate in reasonable arrangements worked out between the Committee and EPA to conduct the anticipated removal work. Accordingly, Bristol expects to communicate with EPA on these matters through the Committee, and in turn expects EPA to consider Bristol among those PRPs cooperating in the Committee's efforts.



WEINBERG, BERGESON & NEUMAN

Mr. Richard Ramon, P.E.  
April 22, 1991  
Page 2

Please contact me should you have any questions.

Sincerely,

*Reed W. Neuman*

Reed W. Neuman

RWN:mh

cc: Carol Berns, EPA  
Michael O'Toole, Jr., NYSDEC  
David Markell, NYSDEC  
William McGarry  
Gary Simone



GR-D

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233



**Thomas C. Jorling**  
Commissioner

APR 09 1991

Carol Burns, Esq.  
USEPA Region II  
26 Federal Plaza  
New York, NY 10278

RE: Pollution Abatement Services (PAS) Oswego County, NY  
Site #7-38-001

Dear Ms. Burns:

Per your request at our March 22, 1991 meeting, during December 8, 1986 to March 10, 1987, Severson Containment Corporation (NYSDEC Contractor) removed and disposed of 291,582 gallons of Leachate from the PAS site at a cost of \$0.50 per gallon.

Also, enclosed is a tabulation of the leachate disposal from the PAS site.

If you have any questions, please call A. K. Gupta, of my staff, at 518/457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.  
Chief, Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Enclosure

cc:w/enc. - R. Ramon, USEPA  
R. Lupe, NYSDEC  
C. Branagh, Region 7, NYSDEC

a:burnspas:AKG:GR:et

DATE 03/27/91

POLLUTION ABATEMENT SERVICES SITE # 7-38-001  
STATEMENT OF LEACHATE DISPOSAL

MANIFEST DETAIL				DISPOSAL FACILITY		FINAL	COMMULATI	TOTAL	REMARKS
DATE	CONTRACTOR	NUMBER	VOLUME	DATE	LOCATION	VOLUME	TOTAL(YRL)	CONTRACT	
12/08/86	SEVENSON		5,067			5,067	5,067		
12/09/86	SEVENSON		5,140			5,140	10,207		
12/09/86	SEVENSON		5,104			5,104	15,311		
12/09/86	SEVENSON		5,178			5,178	20,489		
12/10/86	SEVENSON		5,159			5,159	25,648		
12/10/86	SEVENSON		4,898			4,898	30,546		
12/10/86	SEVENSON		4,412			4,412	34,958		
12/11/86	SEVENSON		5,140			5,140	40,098		
12/11/86	SEVENSON		5,004			5,004	45,102		
12/11/86	SEVENSON		4,929			4,929	50,031		
12/16/86	SEVENSON		4,584			4,584	54,615		
12/16/86	SEVENSON		4,141			4,141	58,756		
12/17/86	SEVENSON		5,000			5,000	63,756		
12/17/86	SEVENSON		5,166			5,166	68,922		
12/19/86	SEVENSON		6,000			6,000	74,922		
12/19/86	SEVENSON		5,135			5,135	80,057		
12/23/86	SEVENSON		4,635			4,635	84,692		
12/23/86	SEVENSON		4,443			4,443	89,135		
12/23/86	SEVENSON		4,139			4,139	93,274		
12/24/86	SEVENSON		4,786			4,786	98,060		
12/24/86	SEVENSON		5,028			5,028	103,088		
12/24/86	SEVENSON		5,178			5,178	108,266		
01/05/87	SEVENSON		3,976			3,976	3,976		
01/05/87	SEVENSON		4,838			4,838	8,814		
01/05/87	SEVENSON		4,788			4,788	13,602		
01/05/87	SEVENSON		4,697			4,697	18,299		
01/06/87	SEVENSON		4,340			4,340	22,639		
01/06/87	SEVENSON		4,623			4,623	27,262		
01/06/87	SEVENSON		4,798			4,798	32,060		
01/06/87	SEVENSON		3,808			3,808	35,868		
01/07/87	SEVENSON		5,169			5,169	41,037		
01/07/87	SEVENSON		5,188			5,188	46,225		
01/07/87	SEVENSON		4,333			4,333	50,558		

DATE 03/27/91

POLLUTION ABATEMENT SERVICES SITE # 7-38-001  
STATEMENT OF LEACHATE DISPOSAL

MANIFEST DETAIL				DISPOSAL FACILITY		FINAL	COMMULATI	TOTAL	REMARKS
DATE	CONTRACTOR	NUMBER	VOLUME	DATE	LOCATION	VOLUME	TOTAL(YRL)	CONTRACT	
01/07/87	SEVENSON		4,101			4,101	54,659		
01/08/87	SEVENSON		5,000			5,000	59,659		
01/08/87	SEVENSON		5,152			5,152	64,811		
01/08/87	SEVENSON		4,242			4,242	69,053		
01/08/87	SEVENSON		4,771			4,771	73,824		
01/09/87	SEVENSON		3,126			3,126	76,950		
01/09/87	SEVENSON		3,919			3,919	80,869		
02/04/87	SEVENSON		4,886			4,886	85,755		
02/04/87	SEVENSON		5,190			5,190	90,945		
02/04/87	SEVENSON		5,164			5,164	95,109		
02/18/87	SEVENSON		4,771			4,771	100,880		
02/18/87	SEVENSON		5,880			5,880	106,760		
02/18/87	SEVENSON		6,098			6,098	112,858		
02/19/87	SEVENSON		6,117			6,117	118,975		
02/19/87	SEVENSON		6,029			6,029	125,004		
02/19/87	SEVENSON		5,131			5,131	130,135		
02/20/87	SEVENSON		5,236			5,236	135,371		
02/20/87	SEVENSON		5,121			5,121	140,492		
02/20/87	SEVENSON		5,166			5,166	145,658		
03/04/87	SEVENSON		5,859			5,859	151,517		
03/04/87	SEVENSON		5,856			5,856	157,373		
03/04/87	SEVENSON		5,655			5,655	163,028		
03/04/87	SEVENSON		5,028			5,028	168,056		
03/10/87	SEVENSON		4,939			4,939	172,995		
03/10/87	SEVENSON		5,152			5,152	178,147		
03/10/87	SEVENSON		5,169			5,169	183,316		
06/10/87	USEPA ERT	0311002	5,225		NY	5,225	188,541		LEACHATE REMOVAL DURING CONSTRUCTION
06/11/87	USEPA ERT	0040592	5,050		NY	5,050	193,591		
06/11/87	USEPA ERT	0040591	5,243		NY	5,243	198,834		
06/11/87	USEPA ERT	0311003	5,547		NY	5,547	204,381		
06/11/87	USEPA ERT	0040594	5,430		NY	5,430	209,811		
06/11/87	USEPA ERT	0311001	5,044		NY	5,044	214,855		
06/30/87	USEPA ERT	4446610	4,946		PA	4,946	219,801		
06/30/87	USEPA ERT	4446584	4,785		PA	4,785	224,586		
								291,582	

DATE 03/27/91

POLLUTION ABATEMENT SERVICES SITE # 7-38-001  
STATEMENT OF LEACHATE DISPOSAL

MANIFEST DETAIL			DISPOSAL FACILITY		FINAL	COMULATI	TOTAL	REMARKS
DATE	CONTRACTOR	NUMBER	VOLUME	DATE	LOCATION	VOLUME	TOTAL(YRL)	CONTRACT
06/30/87	USEPA	ERT 4446595	5,500		PA	5,500	230,086	
06/30/87	USEPA	ERT 4446551	5,156		PA	5,156	235,242	
06/30/87	USEPA	ERT 4446621	4,756		PA	4,756	239,998	
08/18/87	USEPA	ERT 4452722	5,100		PA	5,100	245,098	
08/18/87	USEPA	ERT 4452685	5,071		PA	5,071	250,169	
08/18/87	USEPA	ERT 4452711	4,700		PA	4,700	254,869	
08/18/87	USEPA	ERT 4452696	5,011		PA	5,011	259,880	
08/18/87	USEPA	ERT 4452733	5,363		PA	5,363	265,243	
08/18/87	USEPA	ERT 4453120	4,838		PA	4,838	270,081	
08/18/87	USEPA	ERT 4452700	4,457		PA	4,457	274,538	
08/18/87	USEPA	ERT 4452980	4,615		PA	4,615	279,153	
10/06/87	USEPA	ERT 5522931	3,074		NY	3,074	282,227	
10/06/87	USEPA	ERT 5522922	5,185		NY	5,185	287,412	
10/06/87	USEPA	ERT 5522979	5,595		NY	5,595	293,007	
10/06/87	USEPA	ERT 5522958	5,485		NY	5,485	298,492	
10/06/87	USEPA	ERT 5522967	4,950		NY	4,950	303,442	
10/06/87	USEPA	ERT 6161076	3,990		NY	3,990	307,432	124,116
11/11/88	FRONTIER		14,912			14,912	14,912	
11/23/88	FRONTIER		16,589			16,589	31,501	
08/28/89	FRONTIER	NYA589579	5,000			5,000	5,000	
08/28/89	FRONTIER	NYA589783	5,000			5,000	10,000	
08/28/89	FRONTIER	NYA589783	5,000			5,000	15,000	
04/16/90	FRONTIER		5,000			5,000	5,000	
05/02/90	ENVR.	PROD. NYB174095	4,000	05/03/90	CECOS	4,202	9,202	
05/03/90	ENVR.	PROD. NYB174097	3,000	05/04/90	CECOS	2,881	12,083	
05/03/90	ENVR.	PROD. NYB174096	4,000	05/04/90	CECOS	3,806	15,889	
05/07/90	ENVR.	PROD. NYB174011	3,000	05/08/90	CECOS	2,923	18,812	
05/07/90	ENVR.	PROD. NYB174009	4,000	05/08/90	CECOS	3,790	22,602	
05/09/90	ENVR.	PROD. NYB174012	4,000	05/10/90	CECOS	3,911	26,513	
05/14/90	ENVR.	PROD. NYB174016	4,000	05/15/90	CECOS	3,865	30,378	
05/23/90	ENVR.	PROD. NYB174013	4,000	05/24/90	CECOS	3,721	34,099	
						51,501	51,501	BASED UPON CORRESPONDANCE

LEACHATE REMOVAL BY USEPA  
EMERGENCY RESPONSE TEAM  
  
BASED UPON INVOICE # 1  
BASED UPON INVOICE # 2

DATE 03/27/91

POLLUTION ABATEMENT SERVICES SITE # 7-38-001  
STATEMENT OF LEACHATE DISPOSAL

DATE	MANIFEST CONTRACTOR	DETAIL NUMBER	DISPOSAL DATE	FACILITY LOCATION	VOLUME	FINAL VOLUME	COMULATI TOTAL(YRL)	TOTAL CONTRACT	REMARKS
05/23/90	ENVR.	PROD.NYB174084	05/24/90	CECOS	3,000	2,995	37,094		
05/29/90	ENVR.	PROD.NYB182438	05/30/90	CECOS	4,000	3,801	40,895		
05/29/90	ENVR.	PROD.NYB176201	05/30/90	CECOS	3,000	2,912	43,807		
05/30/90	ENVR.	PROD.NYB176204	05/31/90	CECOS	3,000	3,026	46,833		
05/30/90	ENVR.	PROD.NYB182448	05/31/90	CECOS	4,000	3,816	50,649		
06/04/90	ENVR.	PROD.NYB176208	06/05/90	CECOS	4,000	3,567	54,216		
06/04/90	ENVR.	PROD.NYB176207	06/05/90	CECOS	3,000	2,928	57,144	52,144	DEC EMERGENCY RESPONSE CONTRACT
TOTAL TO DATE							0	519,343	

FILE COPY

Originator ALG 4/1/91

Reviewer \_\_\_\_\_

Reviewer \_\_\_\_\_

Reviewer \_\_\_\_\_

*January file*  
*RK buph*

~~Frank Bifera, Assistant Counsel, Div. Environmental Enforcement  
Gerald J. Riden, Jr., Chief, Operation & Maintenance Section, BCS  
Pollution Abatement Services, Site #7-38-001  
Meeting with USEPA & PRP's on March 22, 1991~~

~~As we discussed before,~~ <sup>A</sup> meeting was convened among USEPA, PAS Steering Committee and NYSDEC at 26 Federal Plaza, New York on March 22, 1991. List of attendees is attached.

BACKGROUND

On February 11, 1991 the NYSDEC requested USEPA to concur and participate in construction of an on-site leachate treatment facility as described in the ROD. Also, USEPA was requested to provide funding for one-time removal of leachate from the site as agreed in the ROD. The NYSDEC's proposal was to have a high capacity rental leachate treatment Unit for one to two years, which will provide one-time leachate removal, disposal and, ~~sufficient data for~~ <sup>the</sup> design and installation of a permanent leachate treatment unit.

In response to NYSDEC's request, the USEPA issued a General Notice for Removal Action at the PAS site to the PRP's on March 13, 1991. (copy attached) Also, the USEPA scheduled a meeting with the PAS steering committee March 22, 1991.

Issues Discussed in <sup>the</sup> Meeting

The meeting was in progress when the NYSDEC team arrived at 11:00 a.m. After our joining them the following was discussed:

1. The PRP's requested the historical data of leachate removal from the site. The requested data was provided as detailed in attached PAS Chronology of Events. Also, the PRP's were informed that currently the NYSDEC is planning to remove about 50,000 gallon's of leachate during April 1991 and, thereafter, 12,000 gallons every month to maintain the current groundwater elevations.
2. The PRP's were informed that currently the containment cell is almost full and we believe that about 6,000,000 gallons of leachate may be required to be pumped out to provide inward gradient around the site.
3. Also, PRP's requested the copies of studies performed to date to evaluate the feasibility of an on-site treatment facility. To date the following studies has been completed.
  - a. Final reports on Evaluation of Alternatives for Treatment of PAS Groundwater/Leachate at the PAS site by URS Consultants, - October 1985. A copy of this report was sent to Mr. Jim Moorman on April 2, 1991.

- b. Preliminary Economic Analysis for proposed treatment systems at the PAS site, by Weston - May 17, 1988. A copy of this report was provided to the PRP's by the USEPA.
4. Also a copy of the cost estimate's for the various on-site/off-site disposal alternatives February 1991 by URS Consultants was provided (copy attached).

After providing the above mentioned information the discussions were concentrated on the various options like.

- a. Pumping and disposal of leachate into the City of Oswego sewage treatment facility (untreated).
- b. On-site treatment of leachate and then disposed into the sewer system of City of Oswego.
- c. On-site treatment of leachate and then disposed into a stream.
- d. Off-site disposal of leachate.
- e. PRP to do the work (design and construction and operation of the on-site leachate treatment system).
- f. USEPA/State do the work and thereafter recover cost from the PRP's.

After the informal discussions, the meeting ended with the note that the PRP's will discuss this issue among themselves and will inform USEPA of their decision. The Federal/State representatives left the meeting room and the PRP's continued to discuss this issue. In telephone discussions between Carol Burn's and A. K. Gupta on March 27, 1991 Carol indicated that PRP's are willing to pump and dispose leachate into the City of Oswego, sewer treatment facility, but she did not mention on any time line etc. The written response of PRP's was not received by the USEPA.

I believe that in principal the USEPA and PRP's agreed that there is an immediate need of leachate removal from the site. Also, it appears that there is an agreement that an on-site disposal of leachate is the most economical alternative. Now the question is, who will take the lead (PRP's or NYSDEC with USEPA participation).

If you have any questions, please call me or A. K. Gupta at 457-0927.

Attachments

a:pasprp.mtg:AKG:GR:et

3/22/91  
Name

PAS Meeting  
Organization

Phone #

Name	Organization	Phone #
Carol Y. Berns	ORC - EPA Region II	(212) 264-9791
RICHARD RANTON	WNYSS-I - EPA Region II	(212) 264-1336
JOEL SINGERMAN	WNYSS I - EPA	212-264-1132
William J. O'Brien	Paul Weiss, et al. - Nashua Corp.	212-373-3404
Edward J. Singer	Mobil Oil Corp	(609) 951-5033
John L. ...	McSmy, Devo & Howrey - Fiskell-Rand	(201) 993-8100
Stephen W. Leermakers	Ashland Chemical, Inc.	(614) 889-4261
Jerry McGuire	Monsanto Co.	314 694-4660
*Jim Moonman	Inland (Now Safety Kleen Environmental) Caldwell, Wickensham & T&T	202-862-2800
Robert P. Yunick	Schenectady Chemicals, Inc.	518-370-4200
GERARD J. Rider, Jr	NYSDEC	518 457-0927
Ashok K. Gupta	NYSDEC	518-457-6927



POLLUTION ABATEMENT SERVICES  
INACTIVE HAZARDOUS WASTE SITE #7-38-001

A REMEDIAL CHRONOLOGY

BACKGROUND

The Pollution Abatement Services (PAS) site is a 15 acre inactive hazardous waste site located near the eastern border of the City of Oswego, New York. It is within one half mile of Lake Ontario. It is partially surrounded by wetlands.

The PAS site was used by PAS, Inc. to operate a liquid chemical waste incineration facility from 1970 through 1977 and then it was abandoned. The abandoned site contained waste lagoons, drums containing chemical waste, and both above and below ground liquid chemical wastes storage tanks. Emergency measures and remedial actions undertaken by the State included the draining and filling of on-site waste lagoons, removal of 80,000 gallons of liquid chemical waste, removal of 11,000 drums, excavation and removal of buried tanks and drums, installation of a soil bentonite slurry wall, construction of a leachate collection/groundwater recovery system, grading and final site capping with a HDPE liner, installation of a security fence, and installation of groundwater monitoring wells. The majority of remediation work at this site has been completed. The site is in the operation and maintenance phase.

Currently, the Department is planning the construction of an on-site leachate treatment system.

POLLUTION ABATEMENT CHRONOLOGY - MARCH 1991

- January 1984 Remedial Investigation/Feasibility Study (RI/FS) report complete.
- May 1984 Responsive Summary completed by NYSDEC.
- June 6, 1984 Record of Decision (ROD) signed and issued by USEPA.
- January 1985 Revised Remedial Alternative Evaluation report complete. This report was revised in August 1985.
- May 1985 Engineering design report for site remedial measures was completed by URS Company.
- October 1985 Final report for on-site v/s off-site disposal alternatives for PAS groundwater/leachate
- November 1985 Notice to Proceed was issued to the Severson for the Remedial Action at the PAS site.
- May 17, 1988 Report from Weston to EPA on on-site u/s off-site leachate disposal alternatives.
- A. EXCAVATION AND REMOVAL OF BURIED DRUMS, FOUR SUBSURFACE STORAGE TANKS, INCLUDING THE HANDLING AND DISPOSAL OF CHEMICAL WASTES.
- December 5, 1985 Drum excavation begin.
- January 6, 1986 Drum excavation complete.
- January 3, 1986 Drum sampling completed.  
to February 9, 1986
- April 16, 1986 Drum removal begin.
- June 18, 1986 Drum removal complete.
- May 23, 1986 Liquid wastes from Tank 7 was removed.
- June 1986 Sludges from Tank 6, 9A and 9B were solidified and sludge from Tank 10 was placed in drums.
- July 1986 Sludges from Tank 6, 7, 9A and 9B were packaged. Sludges from Tank 6 were shipped for off-site disposal. Remaining sludges were placed in lined box trailers for on-site storage.
- Remaining sludges were shipped for off-site disposal.

B. CONSTRUCTION OF 40,000 SQUARE FEET OF SOIL BENTONITE SLURRY WALL.

March 28, 1986 Site clearing, grading and mobilizing for slurry wall construction begin.

April 16, 1986 Slurry wall construction begin.

May 22, 1986 Slurry wall construction complete.

C. CONSTRUCTION OF LEACHATE COLLECTION AND GROUNDWATER RECOVERY SYSTEM.

December 7, 1985 Construction of Leachate Drain System begin.

December 17, 1985 Leachate drain system substantially complete.

January 9, 1986 Construction of groundwater drain system begins.

January 17, 1986 Groundwater drain system substantially complete.

July 1986 Installation of pumping wells, installation of force mains, installation of pump panel support poles was completed during July 1986.

August 1986 Construction of Electrical panel mounting wall and french drain were complete.

September 1986 Electrical wiring complete.

October 1986 Pumps were installed.

D. CONSTRUCTION OF FINAL CAPPING INCLUDING HDPE LINER

November 26, 1985 Site work beings including construction of clean haul road, repair of exterior fence, etc.

May-June 1986 Begin spreading the trench spoils and placement of regrading fill as trench spoils dried.

June 25, 1986 Begin placement of cushion sand.

August 1986 Begin installation of HDPE liner followed by the placement of cushion sand on top of liner.

September 1986 Placement of HDPE liner complete.

September 1986 Placement of topsoil and seeding begun.

September 1986 Construction of drainage channel completed.

October 1986 Top soil placement and seeding was completed.

October 1986 WSGO property was regraded.

October 1986            Paving of access road was completed.

E.    LEACHATE PUMPING AND DISPOSAL

December 1986 -        291,580 gallons of leachate was pumped and disposed  
March 1987            off-site by Sevensons.

June 1987 -            124,114 gallons of leachate was pumped and disposed  
October 1987          off-site by EPA Emergency Response contractor.

August 4, 1988        NYSDEC contracted Enviroasure Special Services Corp.  
(Frontier Chemicals is subsidiary of Enviroasure) for  
leachate hauling and off-site disposal.

August 1988 -         14,912 (estimate from billing) gallons of leachate was  
November 1988        hauled off-site by Frontier Chemicals.

August 1989           15,000 gallons (estimate from correspondence) was hauled  
off-site by Frontier Chemicals.

April 1990             5,000 gallons (approximate) was hauled off-site by  
Frontier Chemicals.

May - June 1990       52,144 gallons was hauled off-site by NYSDEC emergency  
response contractor, Environmental Products Service.

October 10,1990      NYSDEC contracts URS Consultants Services to provide  
O&M activities at the PAS site.

April 1991             50,000 gallons proposed to be removed and 12,000  
(Proposed)            gallons per month thereafter.

## PAS Chronology of Events

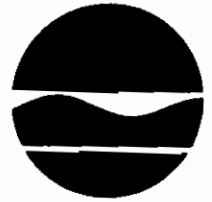
- Pollution Abatement Services ("PAS") Record of Decision was signed on June 6, 1984. The selected remedy was, inter alia,
  - Limited excavation and removal of contaminated soil, tanks and drums;
  - Construction of perimeter slurry wall to lodgement till or bedrock;
  - Site grading followed by installation of RCRA impermeable cap;
  - Collection of leachate;
  - Groundwater recovery (pumping);
  - On-site groundwater and leachate treatment system.
- ROD estimate for off-Site disposal, including transportation and treatment, was \$1.30/gallon.
- ROD estimate for on-Site treatment: \$0.26/gallon (operating cost) plus the capital cost of \$480,200 and O&M cost of \$112,700 (5 years O&M for leachate treatment and 1 year O&M groundwater pump and treat).
- The implementation of the ROD was conducted by NYSDEC pursuant to amendments to a cooperative agreement entered into with EPA.
- November 17, 1986 letter from NYSDEC indicates installation of remedy complete except for on-Site treatment. Reasons: lack of funding due to SARA and PRP willingness to operate collection system and pay for off-Site treatment.
- Cost recovery consent decree entered on October 5, 1987 for \$9,105,380.17, which was 73.91% of EPA, Coast Guard and NYSDEC costs up to April 1, 1987. This included NYSDEC's costs for RD/RA to April, 1987 and some initial groundwater removal expenses.
- Accumulated leachate and groundwater has been removed off-Site on these occasions on temporary basis:
  - December 1986-March 1987 -- 291,580 gal. by NYSDEC construction contractor.
  - EPA ERCS contractor removed approx. <sup>124,114</sup>~~100,000~~ gal. between June 1987 and October 1987
  - August 1988 to November 1988 - 14,912 gal. removed (Frontier)
  - August 1989 - 15,000 gal. removed (Frontier)

9/21/90

Final  
copy

- April 1990 - 5,000 gal. removed (Frontier)
- May-June 1990 - 52,144 gal. removed by State ERCS contractor
- EPA study completed May 1988 studied on-Site treatment and verified it would be cheaper than off-Site disposal.
- By letter dated February 11, 1991, DEC asked for funding to construct the on-site system (estimated at \$100,000 RD and \$500,000 RA) plus additional funding for emergency removal of accumulated leachate.
- Emergency pumpout of 1,500,000 gallons of leachate needed to maintain the inward gradient around the Site. *per foot = 6,000,000 gal*
- General notice letter March 13, 1991 for removal action. Temporary removal is estimated to be needed for 1 to 2 years.

**New York State Department of Environmental Conservation**  
50 Wolf Road, Albany, New York 12233 - 7010



**Thomas C. Jorling**  
Commissioner

APR 02 1991

Mr. Jim Moorman  
Cadwalader, Wickersham & Taft  
1333 New Hampshire Avenue N.W.  
Washington, DC 20036

RE: Pollution Abatement Services, Site #7-38-001

Dear Mr. Moorman:

As per your request on March 22, 1991, attached are copies of the following documents:

1. Evaluation of Alternatives for Treatment of PAS Groundwater/Leachate at the Pollution Abatement Services (PAS) Site - October 1985.
2. November 1989 Leachate Analytical Data
3. May 1990 - Long Term Monitoring Environmental Sampling Data
4. November 1990 - Long Term Monitoring Environmental Sampling Data

If you have any questions, please call me at 518/457-0927.

Sincerely,

Ashok K. Gupta, P.E.  
Environmental Engineer 2  
Operation & Maintenance Section  
Bureau of Construction Services  
Division of Hazardous Waste Remediation

Attachments

cc: w/o Attachments:

J. McGuire, Monsanto  
C. Burns, USEPA  
R. Ramon, USEPA  
D. Sommer, NYSDEC  
C. Branagh, NYSDEC Region 7  
R. Lupe, NYSDEC  
F. Bifera, NYSDEC  
G. Rider, NYSDEC

a:moorman:AKG:et



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

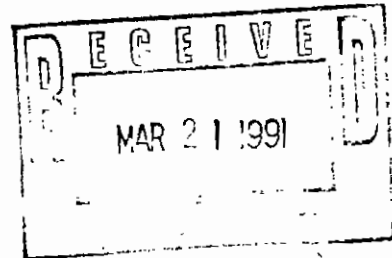
JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

MAR 13 1991

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

A. Beckman  
S. Hammond  
B. Meier



Re: General Notice for Removal Action at the Pollution Abatement Services, Inc. Site, Oswego, New York

Dear Sir/Madam:

As you are aware, the United States Environmental Protection Agency ("EPA") is charged with responding to the release or threatened release of hazardous substances, pollutants, and contaminants into the environment, and with enforcement responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act, as amended ("CERCLA"), 42 U.S.C. §9601 et seq. As you know, EPA has documented the release of hazardous substances into the environment at the Pollution Abatement Services ("PAS") Site in Oswego, New York.

On June 6, 1984, former EPA Assistant Administrator Lee Thomas signed a Record of Decision ("ROD") for the PAS Site, calling for, among other things, the construction of a slurry wall and cap, a leachate collection/groundwater recovery system, and of an on-site groundwater and leachate treatment system. All of these components of the remedy have been constructed to date except the on-site groundwater and leachate treatment system.

To date, the New York State Department of Environmental Conservation ("NYSDEC") and EPA have removed the accumulated leachate and groundwater to an off-site facility on a temporary basis since completion of the collection system. It is necessary now to construct the on-site treatment system in order to complete the remedy set forth in the ROD.

Prior to the construction of the on-site treatment system, however, it will be necessary to rent or otherwise install a



temporary leachate treatment unit for use at the Site. This will accomplish the initial removal and treatment of the accumulated groundwater and leachate from within the cap and slurry wall which must be conducted prior to the construction and operation of the permanent unit. The estimated cost of this temporary treatment unit is \$300,000 to \$400,000 per year.

Your company and all others on the enclosed list have previously been notified of your status as Potentially Responsible Parties ("PRPs") at this Site. We wish to determine whether you are willing to perform or fund this removal action, i.e., the installation and operation of the temporary treatment unit, in EPA's stead. You will be invited to perform the construction and operation of the permanent treatment unit by separate notice letter. Any agreement by you to perform the removal action must be memorialized in an administrative consent order issued by EPA under Section 106(a) of CERCLA. Should you not volunteer to perform or fund the work, EPA will proceed with the work itself, the costs of which you may be liable for under Section 107(a) of CERCLA. In the alternative, EPA may require you to perform the work pursuant to Section 106(a) of CERCLA.

A meeting has been scheduled to discuss this matter with the PAS steering committee in the EPA Region II offices on March 22, 1991 at 10:00 a.m.

Please notify EPA within twenty calendar days of your receipt of this letter as to whether you are prepared to perform or fund the above-referenced removal action. If you are so prepared, please provide the name, address and telephone number of the individual(s) who will coordinate the commencement and completion of this work on your behalf. Your reply to this letter should be sent to Mr. Richard Ramon, P.E., Project Manager, Emergency and Remedial Response Division, New York/Caribbean Superfund Branch I, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, Room 29-100, New York, New York 10278, with a copy to Ms. Carol Y. Berns, Office of Regional Counsel, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, Room 437, New York, New York 10278. If you do not respond in the manner and within the time period specified above, we will assume that you decline to perform or participate in this response action. We urge you and the other PRPs to coordinate with each other in formulating a response(s) to this letter.

This notice is not being provided pursuant to the special notice procedures outlined in Section 122(e) of CERCLA, 42 U.S.C. §9622(e). Use of those procedures here and the moratorium that those procedures entail would be inappropriate in light of the imminent and substantial endangerment posed by the conditions at the site and the need for prompt commencement of the planned removal action.

If you have any questions regarding this matter, please contact Mr. Ramon at (212) 264-1336 or Ms. Berns at (212) 264-9791.

Thank you for your prompt attention to this matter.

Sincerely yours,



f<sup>o</sup> Kathleen C. Callahan, Director  
Emergency and Remedial Response Division

Enclosure

cc: Michael O'Toole, Jr., P.E., NYSDEC  
David Markell, Esq., NYSDEC

List of PRPs for Pollution Abatement Services

1

A R GUNDRY, INC.  
88 STANTON STREET  
ROCHESTER  
NY 14611

AETNA COMMERCIAL INSURANCE DIV  
ONE LINCOLN CTR, PO BOX 4913  
SYRACUSE  
NY 13221

AGWAY, INC.  
P.O. BOX 4933  
SYRACUSE  
NY 13221-4933

ALCAN ALUMINUM CORP, P. S. SEGRETO  
P.O. BOX 28  
OSWEGO  
NY 13126

ALCAN ALUMINUM CORPORATION  
1188 SHERBROOKE  
MONTREAL, CANADA  
CN 99999

ALCAN ALUMINUM CORPORATION  
100 ERIEVIEW PLAZA, BOX 6977  
CLEVELAND  
OH 44114

ALLIED SIGNAL INC.  
P.O. BOX 2245R  
MORRISTOWN  
NJ 07960

AMERADA HESS CORPORATION  
1185 AVENUE OF THE AMERICAS  
NEW YORK  
NY 10036

AMERADA HESS CORPORATION  
1 HESS PLAZA  
WOODBIDGE  
NJ 07095

AMERICAN CAN CO, C/O CADWALDER ET AL  
100 MAIDEN LANE  
NEW YORK  
NY 10038

List of PRPs for Pollution Abatement Services

2

AMERICAN OIL CO.  
200 E. RANDOLF DR., MC 4901  
CHICAGO  
IL 60601

AMERICAN STANDARD  
40 WEST 40TH ST  
NEW YORK  
NY 10088

AMERICAN-ASPHALT COMPANY  
ROBINSON ROAD  
CLINTON  
NY 13323

AMF, INC.  
777 WESTCHESTER AVENUE  
WHITE PLAINS  
NY 10604

AMF, INC.  
TRINITY AVENUE  
LOWVILLE  
NY 13387

AMF, INC. ANGUS MACBETH  
11 DUPONT CIRCLE, N.W.  
WASHINGTON  
DC 20036

AMOCO/STANDARD OIL COMPANY  
200 EAST RANDOLPH DRIVE  
CHICAGO  
IL 60601

ASHLAND CHEM CO., WILLIAM S. HOOD, ESQ.  
P.O. BOX 2219  
COLUMBUS  
OH 43216

ASHLAND CHEM COMPANY  
5200 PAUL BLAZER MEMORIAL PKWY  
COLUMBUS  
OH 43216

ATLANTIC RICHFIELD  
515 S. FLOWER ST RM 4557  
LOS ANGELES  
CA 90071

List of PRPs for Pollution Abatement Services

3

ATLANTIC RICHFIELD  
1500 MARKET STREET  
PHILADELPHIA  
PA 19118

ATLANTIC RICHFIELD  
1990 WEST CRESENT  
ANNEHEIM  
CA 92801

AUGSBURY CORPORATION  
502 RIVERSIDE AVENUE  
OGDENSBURG  
NY 13669

AZON  
P.O. BOX 290/AZON ROAD  
JOHNSON CITY  
NY 13790

B F MOORE COMPANY  
BLOUNT RD RD#1  
HASTINGS  
NY 13076

B F MOORE COMPANY  
5088 AUDRY DRIVE  
N. SYRACUSE  
NY 13212

BADGER COMPANY  
P.O. BOX 4047  
OSWEGO  
NY 13126

BADGER NORTHLAND, INC.  
1215 HYLAND AVENUE, BOX 1215  
KAUKAUNA  
WI 54130

BAUSCH & LOMB  
ONE LINCOLN SQUARE, P.O. BOX 5  
ROCHESTER  
NY 14601

BAUSCH & LOMB, JAMES GOFF  
42 EAST AVENUE, P.O. BOX 743  
ROCHESTER  
NY 14623

List of PRPs for Pollution Abatement Services

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BENDIX CORP & ALLIED CORPORATION  
P.O. BOX 2245R  
MORRISTOWN  
NJ 07960

BENDIX CORPORATION  
BENDIX CENTER  
SOUTHFIELD  
MI 48037

BERO CONSTRUCTION  
W. RIVER ROAD, P.O. BOX70  
WATERLOO  
NY 13165

BLACK AND DECKER CORP. (FARREL CO.)  
701 EAST JOPPA RD  
TOWSON  
MD 21204

BODWDITCH & DEWEY (LINBERG HEAT TREAT)  
311 MAIN ST  
WORCESTER  
MA 01608

BOISE CASCADE CORPORATION  
ONE JEFFERSON SQUARE-PO BX 50  
BOISE  
ID 83778

BRENEMAN, INC.  
RIVER AND YARNALL RDS.  
POTTSTOWN  
PA 19464

BRENEMAN, INC.  
517 READING AVENUE  
WEST READING  
PA 19611

BRENEMAN, INC.  
8 EAST UTICA STREET  
OSWEGO  
NY 13126

BRISTOL LAB/BRISTOL-MYERS  
1714 MASSACHUSETS AVE. N.W.  
WASHINGTON  
DC 20036

List of PRPs for Pollution Abatement Services

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BRISTOL LABORATORIES

P.O. BOX 4755  
SYRACUSE  
NY 13221

BRISTOL LABORATORIES & BRISTOL-MYERS

THOMPSON ROAD  
EAST SYRACUSE  
NY 13057

BURNS BROS CONT INC

400 LEAVENWORTH AVENUE  
SYRACUSE  
NY 13204

BYRD AND SON - WARNER & STOCKPOLE

28 STATE STREET  
BOSTON  
MA 02109

CADWALADER, WICKERSHAM & TAFT (INLAND)

1333 NEW HAMPSHIRE AVE., N.W.  
WASHINGTON  
DC 20036

CAMDEN WIRE

12 MASONIC AVENUE  
CAMDEN  
NY 13316

CARRIER CORPORATION

6304 CARRIER PKWY, PO BX 4800  
SYRACUSE  
NY 13202

CASE HOYT CO C/O HARTER, SECREST & EMERY

700 MIDTOWN TOWER  
ROCHESTER  
NY 14604

CHAMPION INTNL CORP (ST. REGIS PAPER CO)

1 CHAMPION PLAZA  
STAMFORD  
CT 06921

CHARLES BRENEMAN CO. (ALBANY INTN'L CORP)

P.O. BOX 1907  
ALBANY  
NY 12201

List of PRPs for Pollution Abatement Services

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CHEMCOAT, INC.  
OLD MONTOURSVILLE ROAD  
MONTOURSVILLE  
PA 17754

CHEMCOAT, INC. GEORGE V COHEN  
RD 3, BOX 41  
MONTOURSVILLE  
PA 17754

CHEMCON INTERNATIONAL, INC.  
51 MAIN STREET SOUTH  
ATTLEBORO  
MA 07203

CHEMICAL CONSULTANT  
303 CLINTON STREET  
FAYETTEVILLE  
NY 13066

CHEVROLET MOTOR DIV  
P.O. BOX 460 ST. REGIS BLVD  
MASSENA  
NY 13662

CHEVRON CORP. (GULF OIL CO.)  
575 MARKET STREET  
SAN FRANCISCO  
CA 94120-7924

CITGO  
6130 S. YALE BLVD.  
TULSA  
OK 00000

CITIES SERVICE & OCCIDENTAL PETROLEUM  
LEGAL DIVISION BOX 300  
TULSA  
OK 74102

CITIES SERVICE OIL & GAS CORP.  
10889 WILSHIRE BLVD SUITE 1500  
LOS ANGELES  
CA 90024

COLT INDUSTRIES  
25 GREEN BROOK  
FAIRFIELD  
NJ 07006



List of PRPs for Pollution Abatement Services

7

COLT INDUSTRIES & CRUCIBLE STEEL  
430 PARK AVENUE  
NEW YORK  
NY 10022

COLUMBIA MILLS, INC.  
311 WALDORF PKWY  
SYRACUSE  
NY 13224

COOPER VISION OPHTHALMIC PRODUCTS  
3000 WINTON ROAD SOUTH  
ROCHESTER  
NY 14623

COOPERVISION (U.C.O OPTICS, INC./AQUAFLEX)  
3495 WINTON PL.  
ROCHESTER  
NY 14623

CORNELL UNIV OFFICE OF UNIV COUNSEL  
500 DAY HALL  
ITHACA  
NY 14853

CORNING GLASS WORKS  
HOUGHTON PK.  
CORNING  
NY 14830

COVINGTON & BURLING (FACET)  
P.O. BOX 7566  
WASHINGTON  
DC 30044

CROSMAN ARMS CO., INC. JOHN DEBRAL  
980 TUCK HILL ROAD  
FAIRPORT  
NY 14450

CROSMAN PRODUCTS, INC. THE COLEMAN CO.  
250 N. FRANCIS ST.  
WICHITA  
KS 67201

CROSSMAN AIR GUNS  
ROUTE 5 & 20  
EAST BLOOMFIELD  
NY 14443

List of PRPs for Pollution Abatement Services

8

CROUSE HINDS CO. & COOPER INDUSTRIES  
P.O. BOX 4446  
HOUSTON  
TX 77210

CRUCIBLE, INC.  
P.O. BOX 88, PKWY WEST RTE 60  
PITTSBURG  
PA 15320

CRUCIBLE, INC.  
P.O. BOX 977  
SYRACUSE  
NY 13201

CYCLOTHERM DIVISION  
157 EAST FIRST STREET  
OSWEGO  
NY 13126

D & H WELDING  
142 W. MAIN STREET  
MACUNGIE  
PA 18062

DELMET CORP  
44 WEST STREET  
WALTON  
NY 13856

DIAMOND SHAMROCK CORP.  
P.O. BOX 2386R  
MORRISTOWN  
NJ 07960

DODGE IND.-ALANTIC LAMINATES DIV  
LIBERTY STREET  
HOOSICK FALLS  
NY 12090

DODGE MACHINE CO., INC.  
90 CHURCH STREET  
HOOSICK FALLS  
NY 12090

DOW CHEMICAL  
2030 WILLARD H DOW CENTER  
MIDLAND  
MI 48674

List of PRPs for Pollution Abatement Services

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DRINKER BIDDLE & REATH (SMITH CORONA MA)  
BROAD & CHESTNUT STREETS  
PHILADELPHIA  
PA 19107

DRINKER, BIDDLE & REATH (SCM)  
PHILADELPHIA NATNL BNK BLDG  
PHILADELPHIA  
PA 19107

DUSO CHEM CO., INC.  
173 SMITH STREET, P.O. BOX 665  
POUGHKEEPSIE  
NY 12602

E.H. GUSTAFSON  
415 HASSON AVE.  
017 CITY  
PA 17061

E.I. DUPONT & COMPANY  
LEGAL DEPARTMENT, ROOM 7078  
WILMINGTON  
DE 19898

E.I. DUPONT CO., PHOTO PRODUCTS DEPT  
21 BARLEY MILL PLAZA  
WILMINGTON  
DE 19898

EASTBURN AND GRAY  
60 EAST COURT STREET  
DOYLESTOWN  
PA 18901

EICHLEAY CORP.  
NORTH ROAD- P.O. BOX 2004  
OSWEGO  
NY 13136

ELMWOOD TANK CLEANING  
62 WEST MARKET STREET  
BUFFALO  
NY 14204

EVANS & LUPAK (BURROUGHS)  
2500 BUHL BUILDING  
DETROIT  
MI 48226

List of PRPs for Pollution Abatement Services

10

EVANS CHEMETICS, INC.  
228 E. MAIN ST.  
WATERTOWN  
NY 06101

EVANS CHEMETICS, INC. & W.R. GRACE  
62 WHITMORE AVENUE  
CAMBRIDGE  
MA 02140

FACET  
7030 SO. YALE AVE - SUITE 800  
TULSA  
OK 74136

FACET ENTERPRISES  
ROUTE 14  
ELMIRA  
NY 14903

FLOQUIL-POLLY S COLOR CORP. & RPM, INC.  
ROUTE 30 N.  
AMSTERDAM  
NY 12010

FLOQUIL-POLLY S COLOR CORPORATION  
ROUTE 30 NORTH  
AMSTERDAM  
NY 12010

G A F CORPORATION  
140 W. 51ST STREET  
NEW YORK  
NY 10020

G A F CORPORATION  
1361 ALPS ROAD  
WAYNE  
NJ 07470

G B INTERNATIONAL  
174 SOUTH BLVD, P.O. BOX 109  
W SPRINGFIELD  
MA 01089

G B INTERNATIONAL  
MAIN LINE DRIVE P.O. BOX 109  
WESTFIELD  
MA 01085

List of PRPs for Pollution Abatement Services

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GENERAL ELECTRIC COMPANY  
3135 EASTON TURNPIKE  
FAIRFIELD  
CT 06431

GENERAL MOTORS COMPANY  
3044 WEST GRAND BOULEVARD  
DETROIT  
MI 48202

GENERAL MOTORS COMPANY  
1400 MAIN PLACE TOWER  
BUFFALO  
NY 14203

GETTY REFINING & MARKETING  
1437 SOUTH BOULDER- PO BX 1  
TULSA  
OK 74102

GETTY REFINING & MARKETING COMPANY  
P.O. BOX 52332  
HOUSTON  
TX 77052

GRIFFIS AFB  
416 CSG-JA HLQTR COMBAT SUP GR  
GRIFFIS AFB  
NY 13441

GRIFFISS AFB 416 CSG/JA  
HEADQUARTERS 416TH COMBAT SUPP  
GRIFFISS AFB  
NY 13441

GULF OIL COMPANY  
433 HACKENSACK AVENUE  
HACKENSACK  
NJ 07601

GULF OIL CORP.  
1001 N. CLINTON STREET  
SYRACUSE  
NY 13211

H. WILLARD PIERCE

555 WEST 2ND STREET  
OSWEGO  
NY 13126

List of PRPs for Pollution Abatement Services

12

HANCOCK & ESTABROOK (CRUCIBLE STEEL)  
1 MONY PLACE  
SYRACUSE  
NY 13221

HANCOCK & ESTABROOK (SEALRIGHT)  
P.O. BOX 4976  
SYRACUSE  
NY 13221-4976

HARTER, SECRES (CASE HOYT, NEW CUT & LABELON)  
700 MIDTOWN TOWER  
ROCHESTER  
NY 14604-2070

HESS OIL + CHEMICAL CORP.  
1185 AVENUE OF THE AMERICAS  
NEW YORK  
NY 10036

HUDSON OIL STATION  
752 SOUTH BAY RD  
N. SYRACUSE  
NY 13212

HUDSON OIL STATION  
SUITE 301, 290 ELWOOD DAVIS RD  
LIVERPOOL  
NY 13088

HUSCH, EPPENBERGER, ET... (MONSANTO)  
100 N. BROADWAY, SUITE 1300  
ST. LOUIS  
MO 63102

INDUSTRIAL OIL TANK & LINE CLEANING SERV  
507 E FAYETTE ST  
SYRACUSE  
NY 13202

INDUSTRIAL OIL TANK & LINE CLEANING SERV  
307 E GARDEN ST.  
ROME  
NY 13440

INGERSOLL-RAND CO, ARDEN G. HOWARD  
100 CHEMUNG ST  
PAINTED POST  
NY 14870

List of PRPs for Pollution Abatement Services

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INGERSOLL-RAND CO, KEITH E. SNIDTKER  
200 CHESTNUT RIDGE RD  
WOODCLIFF LAKE  
NJ 07675

INLAND CHEM CORP & MCKESSON CORP  
ONE POST STREET  
SAN FRANCISCO  
CA 94104

INLAND CHEMICAL & FOREMOST-MCKESSON  
155 E 44 STREET  
NEW YORK  
NY 10017

INLAND CHEMICAL CORP.  
180 BALDWIN AVE.  
JERSY CITY  
NJ 07306

INLAND CHEMICAL CORPORATION  
1010 MAGNAVOX WAY  
FORTWAYNE  
IN 46804

INTERNATIONAL PAPER  
6400 POPLAR AVE  
MEMPHIS  
TN 38119

INTERSTATE WRECKING  
SPRINGFIELD  
NJ 07081

ITHACA GUN CO  
123 LAKE STREET  
ITHACA  
NY 14850

JONES CHEMICALS, INC  
80 MUNSEN STREET  
LEROY  
NY 14482

KEELOX MANUFACTURING CO  
1231 RIDGEWAY AVE  
ROCHESTER  
NY 14608

List of PRPs for Pollution Abatement Services

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KEELOX MANUFACTURING CO  
P.O. BOX 137  
ROCHESTER  
NY 14601

LABELON CORP  
10 CHAPIN STREET  
CANANDAIGUA  
NY 14424

LIFE SAVERS INC./NABISCO BRANDS  
625 MADISON AVE.  
NEW YORK  
NY 10022

LINDBERG HEAT CCO  
850 W. HIGGINS ROAD  
CHICAGO  
IL 60631

LINDBERG HEAT TREATING  
620 BUFFALO ROAD  
ROCHESTER  
NY 14611

M + T CHEMICALS  
P.O. BOX 1104  
RAHWAY  
NJ 07065

M & T CHEMICAL INC  
1 WOODBRIDGE CENTER  
WOODBIDGE  
NJ 07095

M. WILDE COMPANY  
0 NORTH WACKER DRIVE  
CHICAGO  
IL 60606

M. WILE  
2020 ELMWOOD AVE  
BUFFALO  
NY 14240

MANES, RIFKEN, FRANKEL, (IND OIL TNK LNS)  
742 JAMES ST.  
SYRACUSE  
NY 13202-2097



List of PRPs for Pollution Abatement Services

15

MASONITE CORP  
29 NORTH WACKER DRIVE  
CHICAGO  
IL 60606

MASONITE CORP.  
P.O. BOX 1048  
LAUREL  
MS 39440

MASONITE CORP.  
60 EAST COURT STREET  
DOYELSTOWN  
PA 18901

MASONITE CORPORATION  
60 EAST COURT STREET  
DOUGLESTOWN  
PA 18901

MATLACK INC  
440 WEST KIRKPATRICK STREET  
SYRACUSE  
NY 13208

MATLACK INC  
10 WEST BALTIMORE AVENUE  
LANSDOWNE  
PA 19050

MATLACK INC.  
ONE ROLLING PLAZA  
WILMINGTON  
DE 19899

MAYFLOWER VAPOR SEAL CORP  
16 INDUSTRIAL AVENUE  
LITTLE FERRY  
NJ 07643

MC FARLANE CORP.  
MORRILL RD-CN 188  
FULTON  
NY 13069

MCELROY, DEUTSCH & MULVANEY (INGERSOL)  
P.O. BOX 2075  
MORRISTOWN  
NJ 07962-2075

List of PRPs for Pollution Abatement Services

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MCKESSON ECOSYSTEM, C/O A.B. PODGORSKY  
1333 NEW HAMPSHIRE AVE N.W  
WASHINGTON  
DC 20036

METROPOLITAN OIL CO.  
RIVER ROAD  
MASSENA  
NY 13662

MILLER BREWING CO.  
3939 - T W HIGHLAND BLVD  
MILWAUKEE  
WI 54914

MILLER, JACK  
26 EAST ANEIDA STREET  
OSWEGO  
NY 13126

MILTON BRADLEY DIVISION OF HASBRO  
443 SHAKER RD  
EASR LONG MEADOW  
MA 01028

MINNESOTA MINING & MANUFACTURING CO (3M)  
P.O. BOX 33321  
ST PAUL  
MN 55133

MINUTE MAN SERVICES  
3039 W. HENRIETTA ROAD  
ROCHESTER  
NY 14603

MINUTE MAN SERVICES- UNITED REFINING  
15 BRADELY ST  
WARREN  
PA 16365

MOBAY CORP (HARMON COLORS)  
MOBAY RD  
PITTSBURGH  
PA 15202

MOBIL CHEMICAL CO.  
P.O. BOX 1039  
PRINCETON  
NJ 08543-1039

List of PRPs for Pollution Abatement Services

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MOBIL OIL CO  
1159 PITTSFORD VICTOR RD  
PITTSFORD  
NY 14534

MOHAWK DATA SCIENCE  
PALISADES STREET  
HERKIMER  
NY 13350

MOHAWK DATA SCIENCE (MDS)  
7 CENTURY DRIVE  
PARSIPPANY  
NJ 07871

MONROE FORGINGS  
MCKEE ROAD, BOX 1111  
ROCHESTER  
NY 14603

MONSANTO CO  
800 NORTH LINDBERGH BOULEVARD  
ST. LOUIS  
MO 63167

MORRILL PRESS  
MORRILL PLACE  
FULTON  
NY 13069

MORSE CHAIN & BORG-WARNER  
200 S. MICHIGAN AVE  
CHICAGO  
IL 60604

MORSE CHAIN CO-C/O AETNA LIFE & CASUALTY  
715 DANFORTH ST.  
SYRACUSE  
NY 13208

MR. CARL PETTISON  
1 MONEY PLAZA  
SYRACUSE  
NY 13202

NASHUA CORP  
2600 7TH AVENUE & 27TH STREET  
WATERVIET  
NY 12189

List of PRPs for Pollution Abatement Services

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NASHUA CORP  
44 FRANKLIN ST  
NASHUA  
NH 03060

NATIVE TEXTILES  
1185 AVE OF THE AMERICA  
NEW YORK  
NY 10036

NATIVE TEXTILES  
211 WARREN STREET  
GLEN FALLS  
NY 12801

NATIVE TEXTILES  
P.O. BOX D  
PORT MONMOUTH  
NJ 07758

NEPCO - C/O SMITH & HALSEY  
1800 FLORIDA NAT'L BANK TOWER  
JACKSONVILLE  
FL 32202

NEPCO ENERGY CORP  
COUNTY RTE 20, PO BOX 2001  
OSWEGO  
NY 13212

NEW CUT INC  
434 E. UNION ST., PO BOX 66  
NEWARK  
NY 14513

NEW ENGLAND PETROLEUM & CLEARY GOTTLIEB  
1 STATE STREET PLAZA  
NEW YORK  
NY 10004

NEW ENGLAND PETROLEUM CO  
1800 FLORIDA NATIONAL BK TOWER  
JACKSONVILLE  
FL 32202

NEW ENGLAND PETROLEUM CO.  
P.O. BOX 4047  
OSWEGO  
NY 13126

List of PRPs for Pollution Abatement Services

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NEWCO & CECOS  
2321 KENMORE AVENUE  
BUFFALO  
NY 14207

NEWCO CHEMICAL WASTE SYSTEM, INC.  
4626 ROYAL AVE.  
NIAGARA FALLS  
NY 14303

NIAGARA MOHAWK POWER  
300 ERIE BLVD. WEST  
SYRACUSE  
NY 13202

NORTHERN READY MIX  
RD #4  
FULTON  
NY 13069

O'MALLEY, HARRIS & SCHN (UNITED GILSONITE)  
345 WYOMING AVE.  
SCRANTON  
PA 18503

ONEIDA LIMITED (CAMDEN WIRE)  
SHERRILL ROAD  
ONEIDA  
NY 13421

OSHEX ASSOCIATES INC  
4 COMMANE RD  
BALDWINSVILLE  
NY 13027

OXY USA, INC. (CITIES SERVICE)  
P.O. BOX 300  
TULSA  
OK 74102

PARISH OIL CO.  
PARISH  
NY 13131

PARROWS SHELL & SHERIDAN OIL CO  
45 W. MAIN STREET  
WATERLOO  
NY 13165

List of PRPs for Pollution Abatement Services

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PARROWS SHELL/SHERIDAN OIL  
45 W. MAIN ST  
WATERLOO  
NY 13165

PAS POLLUTION CONTROL  
TRUCK STOP 7 107 SEVEN NRTH ST  
SYRACUSE  
NY 13201

PATTON, BOGGS, & BLOW (CARRIER)  
2550 M. STREET, N.W.  
WASHINGTON  
DC 20037-1350

PAUL, WEISS, RIFKIND (NASHUA CORP)  
1285 AVE OF THE AMERICAS  
NEW YORK  
NY 10019

PAYNE JONES  
BOSTWICK STREET  
LOWVILLE  
NY 13367

PAYNE JONES & BOISE CASCADE CORPORATION  
ONE JEFFERSON SQUARE/P.O. BOX  
BOISE  
ID 83728

PFIZER COMP., INC.  
235 E. 42ND STREET  
NEW YORK  
NY 10017

PFIZER INC  
EASTERN POINT ROAD  
GROTON  
CT 06340

PHILLIP GORDON & S  
89 E 12TH STREET  
OSWEGO  
NY 13126

PHILLIPS FUEL CO.  
432 SOUTH RIVER STREET  
HACKENSACK  
NJ 07601

List of PRPs for Pollution Abatement Services

21

PHILLIPS PETROLEUM CO.  
1285 ADAMS BLDG.  
BARTLEVILLE  
OK 74004

PLANTERS LIFE SAVERS INC.  
1100 REYNOLDS BOULEVARD  
WINSTON SALEM  
NC 27102

PLANTERS LIFESAVERS COMPANY  
1100 REYNOLDS BLVD.  
WINSTON SALEM  
NC 27102

POLLUTION ABATEMENT SERVICES, INC.  
155 EAST 3RD STREET  
OSWEGO  
NY 13126

POWELL, GOLDSTEIN, FRAZER & MURPHY  
1100 C&S NATIONAL BK BLDG/ 35  
ATLANTA  
GA 30335

POWELL, GOLDSTEIN, FRAZER (MORILL PRESS)  
400 PERIMETER CNTR TERR, S.1050  
ATLANTA  
GA 30346

R.B. NEWMAN FUEL CO.  
700 GRAND ISLAND BLVD.  
TONAWANDA  
NY 14150

R.L. KISTLER CO  
217-A ALEXANDER ST  
ROCHESTER  
NY 14607

RAICHLE, BANNING, WEISS, HALPE (GM)  
410 MAIN STREET  
BUFFALO  
NY 14202

RECYCLING LABS INC  
112 HARRISON PLACE  
SYRACUSE  
NY 13201

List of PRPs for Pollution Abatement Services

22

REMINGTON ARMS CO  
P.O. BOX 179  
ILION  
NY 13357

REVERE COPPER & BRASS  
SENECA STREET  
ROME  
NY 13440

REVERE COPPER & BRASS  
605 THIRD AVENUE  
NEW YORK  
NY 10016

RIVKEN, RADLER, DUNNE & BAYHN (SUN OIL)  
EAB PLAZA  
NEW YORK  
NY 11556-0111

ROCHESTER GAS & ELECTRIC CORP.  
89 EAST AVE  
ROCHESTER  
NY 14649

ROEHLEN ENGRAVING  
P.O. BOX 9770  
ROCHESTER  
NY 14623

ROTRON INC & E G & G INC  
45 WILLIAM STREET  
WELLESLEY  
MA 02181

ROTRON, INC.  
45 WILLIAM ST.  
WELLESLEY  
MA 02052

SCHENECTADY CHEMICAL  
502 STATE ST., NE SAVINGS BLDG  
SCHENECTADY  
NY 12305

SCHENECTADY CHEMICAL, INC.  
2750 BALLTOWN RD  
SCHENECTADY  
NY 12309



List of PRPs for Pollution Abatement Services

23

SEALAND RESTORATION  
300 JAMES STREET  
CLAYTON  
NY 13624

SEALRIGHT CO INC  
605 W. 47TH STREET  
KANSAS  
MO 64114

SEALRIGHT CO. INC.  
8330 WARD PKWY-STE 500 BX 8430  
KANSAS CITY  
MO 64114

SHELL OIL CO  
ONE SHELL PLAZA, BOX 3105  
HOUSTON  
TX 77001

SIDNEY AUSTIN (AMF)  
1722 EYE STREET, N.W.  
WASHINGTON  
DC 20006

SMITH CORONA MARCHANT  
65 LOCUST AVENUE  
NEW CANAAN  
CT 06840

SMITH CORONA MARCHANT  
299 PARK AVENUE  
NEW YORK  
NY 10171

SOHIO  
200 PUBLIC SQUARE  
CLEVELAND  
OH 44414

SOUTHERN OIL CO & ASHLAND PETROLEUM CO  
P.O. BOX 391  
ASHLAND  
KY 41114

SOUTHERN OIL CO.  
P.O. BOX 1411  
SYRACUSE  
NY 13201

List of PRPs for Pollution Abatement Services

24

ST JOE MINERAL CORP  
7733 FORSYTH BLVD  
CLAYTON  
MO 63103

ST. JOE MINERALS CORP.  
250 PARK AVE.  
NEW YORK  
NY 10177

STAGE CONSTRUCTION  
105 COMMERCIAL AVENUE  
VESTAL  
NY 13850

STAGE CONSTRUCTION CO, BRUCE O. BECKER  
141 WASHINGTON AVENUE, P.O. BO  
ENDICOTT  
NY 13760

STANDEX INTNL CORP (ROEHLEM ENGRAVING)  
MANOR PKWY  
SALEM  
NH 03079

STATE UNIV. OF NEW YORK, UPSTATE MEDICAL  
750 E. ADAMS STREET  
SYRACUSE  
NY 13210

STATE UNVRSTY OF NY (UPSTATE MEDICAL CTR)  
STATE UNIVERSITY PLAZA  
ALBANY  
NY 12246

STECHEER - TRAUNG - SCHMIDIT CORP  
1 GROVE STREET  
PITTSFOLD  
NY 14605

STONE & WEBSTER ENGINEER  
90 BROAD STREET  
NEW YORK  
NY 10004

STONE & WEBSTER ENGINEERING CORP.  
ONE PENN PLAZA  
NEW YORK  
NY 10119

List of PRPs for Pollution Abatement Services

25

SUN CHEMICAL CORP.  
795 BEAHAN ROAD  
ROCHESTER  
NY 14624

SUN OIL CO. OF PENNSYLVANIA  
10 PENN CENTER  
PHILADELPHIA  
PA 19103

SUN OIL COMPANY- LAW DEPT 27 TH FLOOR  
1801 MARKET ST.  
PHILADELPHIA  
PA 19103

SUNY-ENV. SCI & FORESTRY, UPSTATE MED.  
STATE UNIVERSITY PLAZA  
ALBANY  
NY 12246

SYRACUSE UNIVERSITY  
RISK MGMT DEPT SKYTOP OFF BLDG  
SYRACUSE  
NY 13244-5300

TENNECO OIL  
1010 MILAM ST.  
HOUSTON  
TX 77002

TEXACO INC  
1111 RUSK STREET  
HOUSTON  
TX 77052

U.S. AIR FORCE  
HDQRTS 416 COMBAT SUPPORT GRP  
GRIFFISS  
NY 13441

ULTRAMAR PETROLEUM  
101 PARK AVE., SUITE 2506  
NEW YORK  
NY 10178

UNION CARBIDE CORP.  
39 OLD RIDGEBURY ROAD, RM. E3244  
DANBURY  
CT 06817

List of PRPs for Pollution Abatement Services

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UNION CARBIDE CORP.  
270 PARK AVE.  
NEW YORK  
NY 10017

UNISYS (BURROUGHS)  
ONE UNIYSIS PACE  
DETROIT  
MI 48232

UNISYS CORPORATION (BURROUGHS)  
P.O. BOX 418 ONE UNISYS PLACE  
DETROIT  
MI 48232

UNITED GILSONITE LABS  
345 WYOMING AVENUE  
SCRANTON  
PA 18509

UNITED REFINING  
15 BRADLEY STREET  
WARREN  
PA 16365

UNIVERSITY OF ROCHESTER  
ADMINISTRATION BUILDING  
ROCHESTER  
NY 14627

VETERANS ADMIN MEDICAL CENTER  
301 FORT HILL AVENUE  
CANANDAIGUA  
NY 14424

W. R. GRACE & CO. -CONN  
62 WHITTEMORE AVE  
CAMBRIDGE  
MA 02140-1692

WILSON SPORTING GOODS  
KELLOG ROAD  
CORTLAND  
NY 13045

WILSON SPORTING GOODS LE  
2233 WEST STREET  
RIVER GROVE  
IL 60171

List of PRPs for Pollution Abatement Services

27

WINTHROP LABS  
33 RIVERSIDE AVE.  
RENSSELAER  
NY 12144

WINTHROP LABS/STERLING DRUG, INC.  
1001 PENNSYLVANIA AVE., N.W.  
WASHINGTON D.C.  
MD 20008

WINTHROP LABS, DIV STERLING DRUG INC  
90 PARK AVENUE  
NEW YORK  
NY 10016

XEROX CORP.  
JOSEPH C. WILSON CTR. FOR TECH  
ROCHESTER  
NY 14644

XEROX CORPORATION  
XEROX SQUARE 020A  
ROCHESTER  
NY 14644

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233 - 7010



Thomas C. Jorling  
Commissioner

TO: Richard Ramon - EPA Region 2.

FROM: A. K. Gupta NYSDEC

DATE: 2/21/91

NUMBER OF PAGES: 1 Plus Cover

FOR VERIFICATION OR PROBLEMS CALL: LIZ AT (518) 457-0927

THIS MESSAGE IS SENT FROM PITNEY BOWES 8000

OUR RECEIVING TELECOPIER - RAPICOM 230 - (518) 457-1088

Dick.

A preliminary cost comparison for various on-site v/s off-site disposal of leachate at PAS site.

Thanks!  
AK.

POLLUTION ABATEMENT SERVICES  
*(Preliminary)* OPTION COST ESTIMATES

SYSTEM	FLOW RATE	CAPITAL COST	O&M COST	AMMORTIZED ANNUAL COST
GRANULAR ACTIVATED CARBON	5 GPM	200,000 - 700,000	50,000 - 150,000	83,000 - 264,000
AIR STRIPPER & GRANULAR ACTIVATED CARBON	50 GPM	500,000 - 1,200,000	100,000 - 200,000	181,000 - 395,000
SEQUENCED BATCH REACTOR	50 GPM	500,000 - 800,000	75,000 - 150,000	156,000 - 280,000
SEQUENCED BATCH REACTOR - RENTAL	15 GPM	-	180,000 - 400,000	180,000 - 400,000
SEQUENCED BATCH REACTOR - SKID-MOUNTED	15 GPM	250,000 - 600,000	75,000 - 150,000	116,000 - 248,000
OFF-SITE DISPOSAL (\$0.81/gal)	2,000 GPD	-	520,000	520,000
OFF-SITE DISPOSAL (\$0.81/gal)	20,000 GPD	-	5,200,000	5,200,000

NOTES: COST IS AMMORTIZED OVER TEN (10) YEARS AT 10%

- NOTE:
1. THE ABOVE ESTIMATES DOES NOT INCLUDE DESIGN & OVERSIGHT COSTS.
  2. FOR ON-SITE UNIT: LOCAL PERMITS, PUBLIC PARTICIPATION ETC ARE REQUIRED.
  3. ~~THE~~ A PILOT TEST/STUDY MAY BE REQUIRED

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling  
Commissioner

1 199

Mr. Richard Caspe  
Director  
Emergency & Remedial Response Division  
USEPA, Region II  
26 Federal Plaza  
New York, NY 10278

RE: Federal Assistance Agreement No. V-002435-82  
Pollution Abatement Services, Oswego County  
Site No. 7-38-001

Dear Mr. Caspe:

I am contacting you concerning the remedial activities at the Pollution Abatement Services (PAS) site. The PAS site is a 15 acre inactive hazardous waste site located near the eastern border of the City of Oswego, New York. It is within one-half mile of Lake Ontario and is partially surrounded by wetlands. This is an NPL site where negotiation activities have been performed by USEPA, and remedial activities have been state lead activities.

The purpose of this letter is to initiate the Remedial Design (RD) and Remedial Action (RA) activities for an on-site leachate treatment facility as described in the 1984 Record of Decision (ROD). We are requesting USEPA's establishment of RD and RA funding in the Superfund Comprehensive Accomplishment Plan (SCAP).

In 1982, the NYSDEC entered into a cooperative agreement with the USEPA to remediate this site. The remedial investigations and the feasibility study at this site were conducted and, thereafter, on June 6, 1984 the ROD was issued by USEPA and selected the following remedy:

1. Limited excavation and removal of contaminated soil, subsurface tanks and drums to a RCRA approved landfill.
2. Construction of a perimeter slurry wall to lodge till or bedrock, if necessary.



3. Site grading followed by installation of an impermeable cap in accordance with RCRA Part 264.
4. Groundwater recovery.
5. Leachate collection.
6. On-site groundwater and leachate treatment.
7. Groundwater monitoring in accordance with RCRA Part 264.

To date, the emergency measures and remedial actions undertaken included removal of liquid wastes, removal of drums, excavation and removal of buried tanks and drums, installation of a soil bentonite slurry wall, construction of a leachate collection/groundwater recovery system, grading and final site capping with a HDPE liner, installation of a security fence, and installation of groundwater monitoring wells.

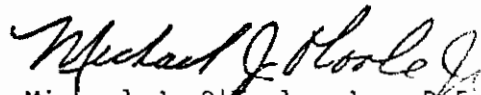
The on-site groundwater and leachate treatment system has not as yet been built at this site because the PRP's stated in their response to the ROD that off-site disposal was a more economical alternative. The NYSDEC is currently providing the Operation and Maintenance (O&M) activities for the current collection system at this site. To date, during construction and thereafter, approximately 475,000 gallons of leachate has been removed and disposed off-site. Currently, leachate is being removed to maintain the existing leachate level. The primary removal of leachate to establish inward gradients has not been undertaken. The average future cost for off-site disposal of the leachate thus far has increased to about \$0.70 per gallon. The groundwater monitoring of the site indicates that the containment cell is almost full. According to the past studies and the current evaluation of the containment cell, we believe that about 6,000,000 gallons of leachate may be required to be pumped out to provide inward gradient around the site. Also, thereafter, to maintain this gradient about 1,000 to 7,000 gallon/day is estimated to be required to be pumped out on a regular basis.

In the short-term in order to lower the leachate elevation within the containment cell, as well as in the long-term for continued treatment and disposal of leachate, an on-site leachate treatment alternative is now more economical. It is suggested that a rental on-site high capacity leachate treatment unit be installed and operated for about one to two years under RA activities. This will accomplish the initial removal of leachate from within the slurry wall. Also, the data generated during this period will be used for sizing of a long-term on-site permanent leachate treatment facility. The initial removal of leachate is considered as part of RA activities in the ROD (refer to page 17 of the ROD). The on-site permanent leachate treatment facility should be designed and built, thereafter, as soon as possible.

Therefore, we request that the USEPA concur on the above approach and provide the funding for design, construction, and operation of a rental unit and design and construction of a permanent unit at this site along with one year funding for shakedown of the final unit. Funding in the amount of \$100,000 RD and \$500,000 RA is requested.

If you have any questions, please call Mr. Gerald J. Rider, Jr., of my staff, at 518/457-0927 or me at 518/457-5861.

Sincerely,



Michael J. O'Toole, Jr., P.E.  
Director  
Division of Hazardous Waste Remediation

bcc: M. O'Toole (2)  
S. Hammond  
R. Lupe  
J. McKeon  
A. Rockmore  
G. Rider  
C. Branagh  
A. Gupta

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