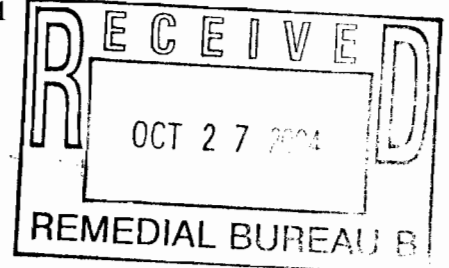


**REMEDIAL LETTER REPORT  
FOR THE  
IMMEDIATE RESPONSE WORK ASSIGNMENT  
KLEGMAN BROS. OPERABLE UNIT #1  
SITE #2-41-031  
QUEENS, NEW YORK**



**Prepared For:**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL REMEDIATION  
WORK ASSIGNMENT D003825-39**

**FINAL**

**Prepared By:**

**URS CORPORATION  
77 GOODELL ST.  
BUFFALO, NEW YORK 14203**

**OCTOBER 2004**



October 13, 2004

Mr. Ralph Keating, Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233

**RE: NYSDEC Standby Contract Immediate Response Work Assignment # D003825-39  
Kliegman Bros. Operable Unit #1 Site #2-41-031  
Summary of Interim Remedial Activities – Final Letter Report**

Dear Mr. Keating:

URS Corporation (URS) has completed the Immediate Response Work Assignment (IRWA) # D003825-39 remedial activities at the Kliegman Bros. Operable Unit #1 site located in Queens, NY. The work was performed in accordance with the November 2002 Project Management Work Plan and the two subsequent amendments (May 2003 and May 2004). The contractor performed all the work in substantial compliance with the contract specifications developed by URS for this project.

The IRWA consisted of constructing a Soil Vapor Extraction (SVE) system to provide interim remediation of soil gas contamination at the site. The IRWA field activities began on April 23, 2003 and were completed, after a delay, on June 11, 2004. The delay was caused by changed conditions related to the electrical supply required to power the SVE blower. In order to reduce capital costs of the project, URS and NYSDEC negotiated with the property owners during the subcontractor bidding process to allow electricity to be drawn from the existing electric service powering the owner's facility. However, following initial system installation, it was determined that the owner's facility did not have enough capacity to power the SVE blower on a permanent basis. Following discussions with the site owner, URS and NYSDEC elected to power the system with a new temporary circuit from the local electric utility.

Contractor Procurement

URS developed a scope of work for subcontractor procurement in November, 2002. Following review by NYSDEC, bids were solicited from nine remedial contractors in January 2003. URS solicited quotes from 14 companies. Nine contractors attended a mandatory pre-bid meeting on January 16, 2003, and only four of the nine provided bids. URS recommended Envirotrac, the low bidder, for this project and the Department concurred.

Initial Construction

Construction of the SVE system began on April 23, 2003. Construction was completed, with electricity supplied from the existing circuit use by the site owner, on May 1, 2003. Daily construction report sheets are included as Attachment A. The system was started for the test run required by the

subcontractor's scope of work on May 8, 2003, running until May 9, 2003. The system achieved vacuums ranging from 13 inches of water column (in. wc) to 19 in. wc with air flow rates of approximately 200 cubic feet per minute (cfm). These vacuums and flow rate were slightly below the goals of the system as designed (minimum total vapor flowrate of 220 cfm and a vacuum of 20 in. wc at the wellhead). However, these minimum requirements were estimated from theoretical calculations, and the contractor constructed the system according to the specifications, including use of recommended equipment.

The test run of the system was allowed to continue overnight, in compliance with the requirements of the subcontractor's scope of work. The following morning, the system was operating as designed, but PCE breakthrough had occurred in both the lead and lag carbon canisters, and the system was shut down.

The system was not restarted because the circuit supplying site owner's facility did not have adequate excess capacity to satisfy code requirements. Therefore the system was left idle while options for an alternative power supply were considered.

### Secondary Construction

Following a change in management of this project at NYSDEC, URS and NYSDEC met with Envirotrac and the site owner at the Kliegman site on November 19, 2003 to discuss options for powering the SVE system. The options included upgrading the entire electrical system at the site, or bringing temporary power to the SVE system. Because the site owner was unwilling to agree to upgrading the electrical system at his facility, NYSDEC elected to bring temporary power to the SVE system. URS contacted ConEd, the local utility for a quotation and a summary of requirements for a temporary power connection. URS prepared a scope for Envirotrac to install this new power supply. The new circuit was installed on June 25, 2004, although it was not energized by ConEd until August 19, 2004. Operation of the system was transferred to the separate Operation and Maintenance Work Assignment (W.A. D003825-49) starting August 23, 2004.

### Cost

While the predetermined budget for an IRWA is \$100,000, this project was initially approved with a budget of \$92,335 including an estimate of \$60,000 for the subcontractor and subcontractor management fee. The IRWA budget was amended with Amendment No. 1 in May 2003 to increase the subcontractor cost by \$7,071 to cover actual low-bid costs of the subcontractor under the original scope and to install the wiring and electrical hardware suitable to provide a separate circuit to the SVE system (this did not include providing the new electrical service). Once the decision was made to provide a new temporary service to power the system, a second amendment was issued in May 2004 increasing the subcontractor cost by \$22,092 to install the new system (this included costs charged by ConEd). During installation of the final power supply, the site owner insisted on the addition of a remote power supply cutoff at the power pole. This added \$700 to the cost of the project, bringing the total subcontractor costs for the system installation to \$89,862.



In accordance to the scope of the work assignment, project records are being copied to microfilm and will be submitted under separate cover. Should you have any questions or comments, please do not hesitate to contact me at 716-856-5636.

Sincerely,

**URS Corporation**

A handwritten signature in black ink, appearing to read 'Jon Sundquist'.

Jon Sundquist, PhD  
Project Manager

Cc: file: 11172755 (C-1)

**Attachment A**

**Daily Construction Report Sheets**

# URS-Greiner Woodward Clyde

282 Delaware Avenue  
 Buffalo, New York 14202  
 Telephone: (716)-856-5636  
 Fax: (716)-856-2545

DATE April 23, 2003

DAY 

S	M	T	<b>W</b>	TH	F	S
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## DAILY CONSTRUCTION REPORT

PROJECT: Kliegman Brothers, IRM - SVE  
 CONTRACTOR: Envirotrack  
 URS JOB No. 11172755-9520.3  
 URS PROJECT MANAGER: Jon Sundquist

WEATHER	Bright Sun	Clear	<b>Overcast</b>	Rain	Snow
TEMP	To 32	<b>32-50</b>	50-70	70-85	85 and up
WIND	Still	Moder	<b>High</b>	Report No	
HUMIDITY	Dry	<b>Moder</b>	Humid		

AVERAGE FIELD FORCE			
Name of Contractor	Non-manual	Manual	Remarks
Envirotrack (Tara Stasnowski)			URS Sub for SVE <sup>system</sup> installation
"LAWES" (Carl Pederson)			Envirotrack sub - Driller

VISITORS			
Time	Representing	Representing	Remarks

EQUIPMENT AT THE SITE: LAWES - Mobil Drill B-61 DRILL RIG  
Envirotrack - Thermo Environmental 5803 OVM - PID

CONSTRUCTION ACTIVITIES:

0800 Crew meets onsite ELL (URS)  
 - Envirotrack - John Szymanski & Tara Stasnowski  
 - Land Air Water Environmental Services "LAWES" - Carl Pederson & "LW"

0900 Begin drilling borehole for SVE wells SVE 65 & SVE 6D w/ 625" Hollow Stem Augers.  
 0930 John Szymanski leaves site.  
 1045 Augers are at 22' bgs. PID reading on cuttings is 9-30 ppm. BZ is 0ppm  
 1115 Augers are at 27' bgs. PID readings are elevated in driller BZ (~20ppm),  
 Shut rig down and step away from area to air out.  
 1130 Resume drilling.  
 1245 Break for lunch. Augers are at 35' bgs.  
 1315 Resume drilling.  
 1500 Total depth of boring reached (65'). Begin setting well SVE-6D.  
 (- 0.020" SLOT SIZE SCREENED 2" SCH. 40 PVC, flushthread (65'-30')  
 6D } - 2" SCH 40 FLUSH TREAD RISER (30'-0.5')  
 L - #2 GRAVEL (FIL-PRO®) Filter pack (65'-25').  
 (- 0.020" SLOT SIZE SCREENED 2" FLUSH TREAD SCH. 40 PVC, (25'-5').  
 6S } - 2" SCH 40 FLUSH TREAD PVC RISER (5'-0.5'). (18)  
 L - #2 GRAVEL (FIL-PRO®) Filter pack (25'-5'). (25'-4')

SHEET 1 OF 2

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BY: Eric Lovenduski (18) Title: Assistant Geologist  
 REVIEWED BY: \_\_\_\_\_ Project Manager: \_\_\_\_\_

DAILY CONSTRUCTION REPORT (cont'd)

REPORT No. 1

PROJECT: Kliegman Brothers, IRM

CONTRACTOR: Envirotree

URS JOB No. 1172755.9520.3

DATE 4/23/03

CONSTRUCTION ACTIVITIES (cont'd):

Well construction - continued

1615 - PVC materials are set, filter pack is in. LAWES is adding bentonite chips to the top of sandpack for a seal.

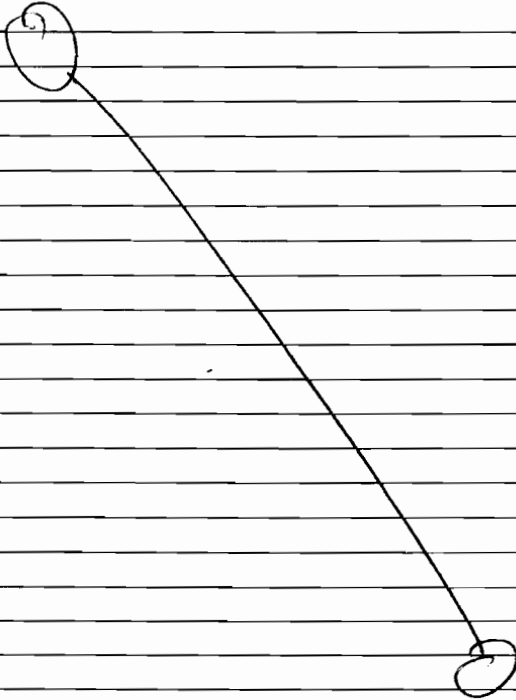
1620 Bentonite chips (3/8") added 4'-2" hgs. Added approx 3 gal fresh water to hydrate chips.

- LAWES is cleaning area while chips hydrate.

1700 - Bentonite seal hydrated. PVC well heads were capped and labeled according to the depths. Remainder of bore hole is backfilled with #2 SAND pack.

1730 - Top of boring was capped w/ approximately 2" of concrete.

Area is cleaned. All cuttings drummed. Used 6 - 55 gal drums. Staged with the drums from the RI.



*[Handwritten signature]*

SHEET 2 OF 2

BY Eric Lovenduski 

REVIEWED BY: \_\_\_\_\_

TITLE Assistant Geologist

PROJECT MANAGER





# URS-Greiner Woodward Clyde

282 Delaware Avenue  
Buffalo, New York 14202  
Telephone: (716)-856-5636  
Fax: (716)-856-2545

DATE 4/28/03  
DAY S M T W TH F S

## DAILY CONSTRUCTION REPORT

PROJECT: KLEIGMAN BROS  
CONTRACTOR: ENVIRO TRAC  
URC JOB No. 11227 55  
URS PROJECT MANAGER: JON SWANQUIST

WEATHER	Drigh Sun	Clear	Overcast	Rain	Snow
TEMP	To 32	32-40	50-70	70-85	85 and up
WIND	Still	Moder	High	Report No.	
HUMIDITY	Dry	Moder	Humid		

AVERAGE FIELD FORCE				
Name of Contractor	Non-Manual	Manual	Remarks	
<u>ENVIRO TRAC</u>		<input checked="checked" type="checkbox"/>	<u>2 SUPPORT TRUCK</u> <u>4 MCM / SOIL COMPACTOR</u> <u>BAGGAT W/ BACKHOE @ 0630</u>	

VISITORS			
Time	Representing	Representing	Remarks

<b>EQUIPMENT AT THE SITE:</b>	
<b>CONSTRUCTION ACTIVITIES:</b> <u>SCAN AREA w/ PID PRIOR TO EXCAVATION.</u> <u>CRANAGE DIGGING. AFTER TAIL GATE SAFETY</u> <u>MEETING.</u> <u>SITE BUSY w/ TRUCKS - LIMITED ACCESS</u> <u>TRENCH DIMENSIONS 2' WIDE x 2' DEEP</u>  <u>PID READING'S @ 0630 - 01000 @</u>	

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backside of page

BY: \_\_\_\_\_ Title: \_\_\_\_\_  
PROJECT MANAGER: \_\_\_\_\_  
REVIEWED BY: \_\_\_\_\_

SHEET \_\_\_\_\_ OF \_\_\_\_\_

# URS-Greiner Woodward Clyde

282 Delaware Avenue  
 Buffalo, New York 14202  
 Telephone: (716)-856-5636  
 Fax: (716)-856-2545

DATE 4/30/03

DAY 

S	M	T	<u>W</u>	TH	F	S
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## DAILY CONSTRUCTION REPORT

PROJECT: Alumina Box  
 CONTRACTOR: ENVICORP/CH  
 URS JOB No. 1117255.9520-3  
 URS PROJECT MANAGER: JOHN SANCHEZ

WEATHER	Bright Sun	<u>Clear</u>	Overcast	Rain	Snow
TEMP	70-82	32-50	<u>50-70</u>	70-85	85 and up
WIND	Still	<u>Moder</u>	High	Report No.	
HUMIDITY	Dry	<u>Moder</u>	Humid		

AVERAGE FIELD FORCE			
Name of Contractor	Non-manual	Manual	Remarks

VISITORS			
Time	Representing	Representing	Remarks

EQUIPMENT AT THE SITE: 2 WORK TRUCKS - Concrete truck (SUB-CONTRACTOR) - PLATE, WET CONCRETE TO SETTLER AND DRY, DVM 52005 PID

CONSTRUCTION ACTIVITIES: Poured concrete in trench work

\* PID READINGS ARE CONSTANT AND RECORDED EVERY 1/2 HOUR. ALL READINGS ARE AT ZERO

SHEET 1 OF 1

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BY: PAY MONTERO Title: GEOLOGIST  
 REVIEWED BY: \_\_\_\_\_ Project Manager: \_\_\_\_\_

# URS-Greiner Woodward Clyde

282 Delaware Avenue  
 Buffalo, New York 14202  
 Telephone: (716) 856-5636  
 Fax: (716) 856-2545

DATE 5/1/03

DAY 

S	M	T	W	<b>TH</b>	F	S
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## DAILY CONSTRUCTION REPORT

PROJECT: Kiwanon Bros.  
 CONTRACTOR: ENVIRONMENTAL  
 URS JOB No. 1119255.9520.3  
 URS PROJECT MANAGER: JOHN SUNQUIST

WEATHER	Bright Sun	<u>Clear</u>	Overcast	Rain	Snow
TEMP	To 32	32-50	<u>50-70</u>	70-85	85 and up
WIND	SW	<u>Moder</u>	High	Report No.	
HUMIDITY	<u>Dry</u>	Moder	Humid		

AVERAGE FIELD FORCE			
Name of Contractor	Non-manual	Manual	Remarks

VISITORS			
Time	Representing	Representing	Remarks

EQUIPMENT AT THE SITE: WORK-TRUCK

CONSTRUCTION ACTIVITIES: SET-UP SHED, ATTACH BLOWER - SEPARATOR - FLOW METERES AND RUN LINES TO WELLS OUTSIDE SHED. DROP 1 (ONE) OF 2 CARBON VESSELS AND FLEX LINES. ATTACH ANCHORS TO WORK FOR FINAL STACK.

PHONE LINE FOUND INSIDE 2ND FLOOR CONFERENCE ROOM - TAPPED INTO BOX IN CONFERENCE ROOM WITH VERIZON PHONE LINE. DROPPED LINE - DROPS TAPED INSIDE BUILDING. WILL RUN LENGTH OF BUILDING TOMORROW AND ATTACH CONDUIT TO RUN OUTDOORS TO SHED. VERIZON LEFT BOX AT SHED ALSO

SHEET 1 OF 1

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REVIEWED BY: BY: Pam Montero Project Manager: Title: Geologist



