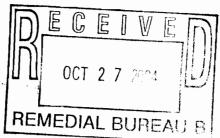
REMEDIAL LETTER REPORT FOR THE

IMMEDIATE RESPONSE WORK ASSIGNMENT

KLIEGMAN 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

URS Corporation 77 Goodell Street Buffalo, NY 14203 Tel: 716.856.5636 Fax: 716.856.2545



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.

URS

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

Jon Sundquist, PhD Project Manager

Cc: file: 11172755 (C-1)

Attachment A **Daily Construction Report Sheets**

URS-Greiner Woodward Clyde

DAILY CONSTRUCTION REPORT

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

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CONSTRUCTION ACTIVITIES: GAC-B STEF 30 PPM BAC-A ETE 450 PPM BLAWGE STEF 550 PPM VAC ELOW T 1" well 13" 3804 ZS' well 14" 10903 G' wal 19" 74.5	EMP 78.2 71.3 68.7				
CONSTRUCTION ACTIVITIES: GRC-B GFF 30 PPM BAC-A EFF 450 PPM BLAWGE GFF 350 PPM VAC GLOW T 1" wdl 13" 3804 ZS' voll 14" 10903 G' wal 19" 74.5 ELOWGE ELOW ZAOCFM DF AIRFILTER 30"-3 CFF TEMP 110°	78.2 71-8 68.7				
CONSTRUCTION ACTIVITIES: GRC-B GFF 30 PPM BAC-A EFF 450 PPM BLAWGE GFF 350 PPM VAC GLOW T 1" wdl 13" 3804 ZS' voll 14" 10903 G' wal 19" 74.5 ELOWGE ELOW ZAOCFM DF AIRFILTER 30"-3 CFF TEMP 110°	78.2 71-8 68.7		SHF	FT	