

STS

10900 73rd Avenue North, Suite 150, Maple Grove, MN 55369
T 763.315.6300 F 763.315.1836 www.sts.aecom.com

November 5, 2007

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LST08028

Ms. Arlene Furuseth
Project Leader
Minnesota Pollution Control Agency
714 Lake Avenue South, Suite 220
Detroit Lakes, MN 56501

Re: Proposed Work Plan for FY08 Responses to Leak 15,656 at the Former Alex Exhaust
in Alexandria, Minnesota; STS Proposal 200702725

Dear Ms. Furuseth:

STS Consultants, Ltd. (STS) proposes to conduct responses to the above referenced release site in Alexandria in fiscal year 2008 (FY08) under the fund-financed program. We propose to conduct additional investigation to further define the extent of groundwater contamination associated with Leak 15,656. The FY08 work scope includes completion of up to four (4) temporary monitoring well soil borings. STS will also request a copy of the Minnesota Department of Transportation (Mn/DOT) Documentation Report for Trunk Highway 29/27 (S.P. 2102-50) prepared by STS, dated December 30, 2005 from Mn/DOT. A copy will be provided to the Minnesota Pollution Control Agency (MPCA) if released by Mn/DOT. The remainder of this proposal provides a scope of work and some logistic detail concerning the proposed work.

Task 01 – Investigation

Additional investigation is required to define the horizontal extent of groundwater impacts from Leak 15,656. We propose to utilize the services of a state contract firm (when available) to complete up to four temporary well/soil borings to define the groundwater contaminant plume south and east of the release area. The temporary well/soil boring location for boring B-7 is approximately 100 feet east of boring B-3 on the former mobile home park property. An access agreement was obtained previously with the property owner for this location. The temporary well/soil boring location for B-8 is approximately 125 feet south to southeast of boring B-3 on the south side of 3rd Avenue (TH-27) on Mn/DOT road right-of-way. The temporary well/soil boring location for B-9 is approximately 100 feet south to southwest of boring B-1 on the south side of 3rd Avenue (TH-27) in Mn/DOT road right-of-way. STS will obtain an access agreement and necessary permits to complete soil borings in the Mn/DOT road right-of-way. The fourth temporary well/soil boring (B-10) will be advanced to delineate extent of impacts in the event that impacts are observed in one of the initial three borings (B-7, B-8 or B-9). Access agreements need to be in place for property on which the fourth boring will be advanced.

The proposed temporary well/soil borings will be advanced to a maximum depth of approximately 35 feet below ground surface. The temporary well/soil boring locations are illustrated on Figure 2.

If additional borings are required to define the extent of impacts beyond the locations proposed herein, additional access agreements will likely be required. The costs for acquiring additional access agreements or additional temporary well/soil borings (above four) are not included in this proposal. A change order will be required to address any additional access agreements and/or temporary well/soil borings.

STS will provide an environmental technician during the investigation work, to screen soil samples utilizing a photoionization detector (PID) in the field and document soil conditions in the temporary well soil borings. Selected samples of soil (we estimate eight of these) from the temporary well/soil borings will be collected and submitted to a state contract laboratory for analysis of benzene, toluene, ethylbenzene, xylenes (BTEX), gasoline range organics (GRO) and diesel range organics (DRO). We will submit a methanol trip blank for analysis of BTEX/GRO to the laboratory as a quality assurance measure. Groundwater samples will be collected from each of the temporary well/soil borings and submitted to a state contract laboratory for analysis of volatile organic compounds (VOCs), GRO and DRO. We will submit a field blank and blind duplicate sample for analysis of VOCs, GRO and DRO and a trip blank for VOCs and GRO for quality control/quality assurance (QA/QC).

STS will collect up to three soil samples from the saturated zone (below the static water level) from selected soil borings for grain size analysis for use in determining a K value (hydraulic conductivity).

STS will conduct a walking well receptor survey within 500 feet of the release source by contacting property owners to determine if water wells are present. The results of the well receptor survey will be documented in the Investigation Report discussed below.

Task 02 – Documentation

STS will document all activities conducted in response to this release using an Investigation Report format (MPCA Guidance Document 4-06). Cumulative tables of groundwater and soil analysis data will be included, along with two geologic cross-sections and appended documentation. Copies of MDH well logs and available well sealing records will be attached.

Other documentation effort included in the FY08 responses include periodic progress updates to the MPCA and status reports with each approximately monthly invoice submitted for payment. We have assumed a normal level of correspondence related to such potential occurrences, and "typical" project documentation and correspondence needs.

Project Schedule

STS anticipates that MPCA can issue a work order for the site responses by the end of November, 2007. It is anticipated that the drilling work would be completed in December, 2007 or January, 2008 depending on availability of access agreements. Our Investigation Report will be completed by the June 30, 2008 end of the current fiscal year. In the event conditions emerge with the potential to impact this schedule, you will be notified so that the appropriate responses can be taken to move the project forward. In the event risk-elevating conditions are identified in the course of work, you will be notified of this so that appropriate additional responses (additional work) can be conducted following established procedures.

Project Team

The attached STS project team worksheet provides the identities of key STS staff (and their service classification) proposed to serve this project. Additional staff found on the MPCA-approved staff listing for STS may support the project team. These staff will serve in the pre-approved staff classification, based on the work type. The specific identities of persons working on Alex Exhaust responses will be identified on each STS invoice submitted for payment.

Cost Estimate

The attached work plan cost proposal worksheet provides a calculation of the costs associated with completion of the proposed work scope. This includes an estimation of the costs associated with state contract laboratory services, and also a state contract drilling firm.

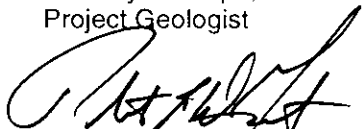
Closing

STS appreciates your consideration of this proposed Work Plan for responses to Leak 15,656. If you have questions concerning this proposal or wish to discuss other project considerations, you may contact Tim Grape of STS by calling 763-315-6318 at your earliest convenience. We look forward to hearing from you.

Sincerely,



Timothy J. Grape, PG
Project Geologist



Robert L. DeGroot, PG PE
Principal Engineer

TJG/dn
Encs.

Alex Exhaust
 Leak # 15,656
 STS Project Number 200702725

STS PROJECT TEAM

TASK # and DESCRIPTION	STAFF CLASSIFICATION				
	PROJ. MANAGER	ENGINEER	SCIENTIST	TECHNICIAN	DRAFTER
1 - Investigation	Tim Grape	Bob DeGroot	Steve Carlson, Ryan Doherty, Jason Rowe	Ryan Doherty, Jason Rowe,	Teri Kranz
2 - Documentation	Tim Grape	Bob DeGroot	Steve Carlson, Ryan Doherty, Jason Rowe	Ryan Doherty, Jason Rowe,	Teri Kranz

NOTES: n/a indicates this staff classification is not anticipated to apply to the specified task.

An asterisk (*) indicates the STS team member shown may contribute peer review to the task, but is not anticipated to charge for time spent on this function

Additional team support may be provided by staff on the MPCA-approved listing of STS employees. These staff may provide service in the pre-approved staff classification(s) for them, based on the work type.

Cost estimate for Task 1 - SOIL
LEAK #15,656
STS Proposal 200702725

**Laboratory Work Plan Cost Estimate For:
ALEX EXHAUST SOIL SAMPLES**

ANALYTE	NUMBER of SAMPLES	Northeast Technical Services
BTEX	9	\$32.00
DRO	8	\$32.00
GRO		\$32.00
VOC		\$88.00
Lead		\$10.60
RCRA's		\$104.00
<i>Estimated Lab Costs:</i>		\$544.00
Contingencies, 10%		\$54.40
Total LAB Costs		\$598.40

Cost estimate for Task 1 - WATER
LEAK #15,656
STS Proposal 200702725

**Laboratory Work Plan Cost Estimate For:
ALEX EXHAUST WATER SAMPLES**

ANALYTE	NUMBER of SAMPLES	Northeast Technical Services
BTEX		\$32.00
DRO	6	\$32.00
GRO	7	\$32.00
VOC	7	\$88.00
Lead		\$10.60
RCRA's		\$96.00
<i>Estimated lab costs:</i>		\$1,032.00
Contingencies, 10%		\$103.20
Total LAB Costs		\$1,135.20

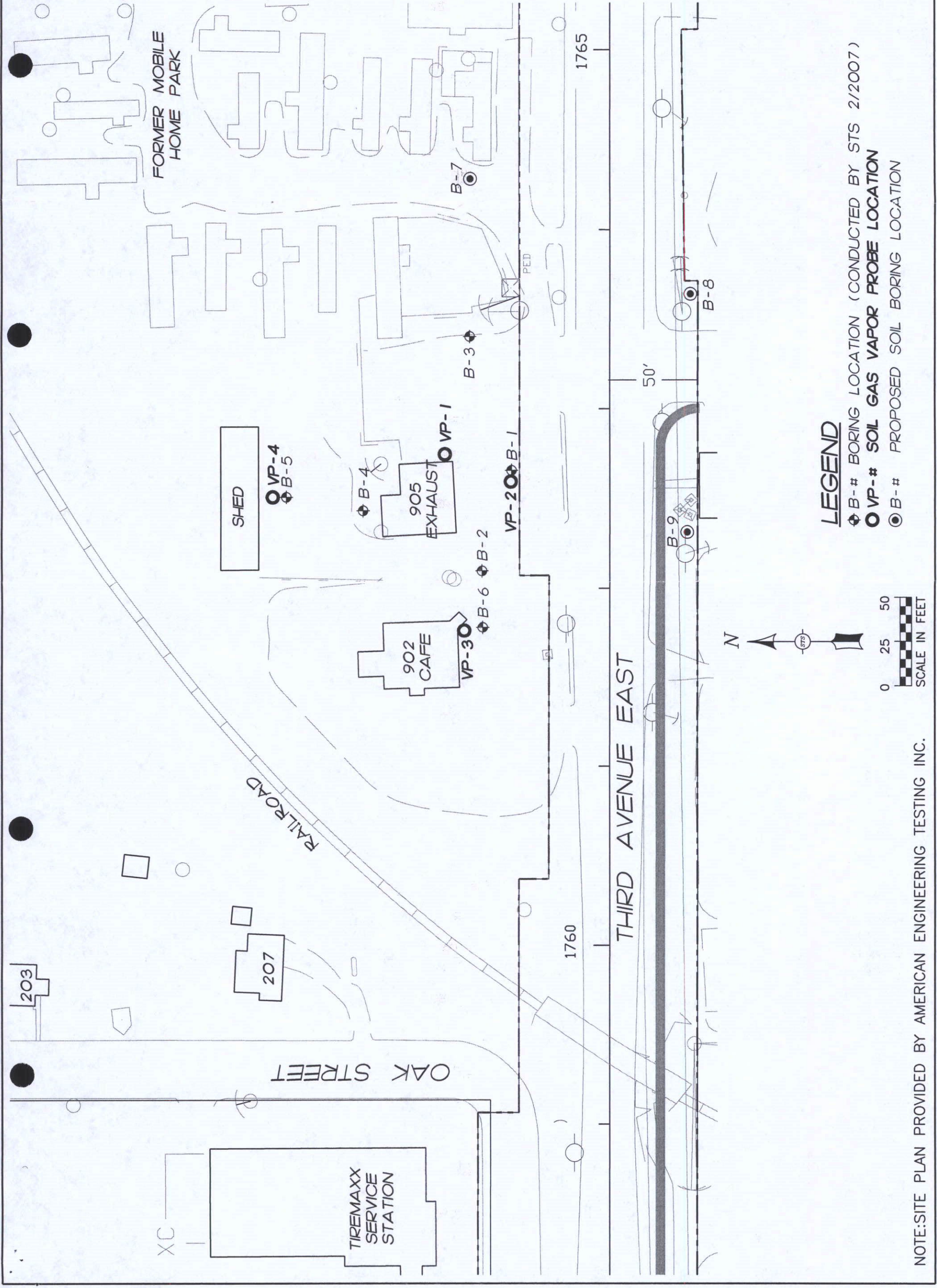
FY 08 Work Plan Cost Proposal Spreadsheet

LK 15,656
STS Proposal 200702725-

Site Name: Alex Exhaust
Site Location: Alexandria, MN

TASK	Unit Rate	Frequency or Units	Hours					Other Contractors			Expenses			Time Total (hours)	Total Value (\$)	Comments	
			Project Manager	Engineer	Scientist	Field Technician	Drafting Technician	Subcontractors	State Contractors	Vehicle use per mile	"Per Diem" Lodging/Meals	Materials/Rental Equipment					
Investigation																	
1																	
STS labor as needed			12.00	2.00	5.00	32.00	2.00										
STS Mobilization/Travel		One Mobiliz.															
STS Equipment and Expendable Supplies		Once															
State Contract Drilling		Once															
State Contract Analytical Laboratory		Once															
Total Task 1			\$ 1,310.16	\$ 184.80	\$ 440.00	\$ 1,901.76	\$ 131.00	\$ -	\$ 5,733.60	\$ 175.00	\$ 250.00	\$ 500.00	\$ -	\$ -	\$ 53.00	\$ 10,626.32	Access Agreements, Drilling Oversight, Investigation, walking well survey
Documentation																	
2																	
STS Labor as needed			14.00	2.00	14.00	8.00	4.00										
Photographs (ff/as used in Report)																	
Total Task 2			\$ 1,528.52	\$ 184.80	\$ 1,232.00	\$ 475.44	\$ 262.00	\$ -	\$ -	\$ -	\$ -	\$ 8.00	\$ 8.00	\$ -	\$ 42.00	\$ 3,682.76	Updated LSI Report and correspondence as described in Work Plan Photos @ \$1.00 each
Total Cost Proposal			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,733.60	\$ 933.00	\$ -	\$ -	\$ -	\$ 95.00	\$ 14,317.08		

TOTALS	
LABOR	\$ 7,650.48
EXPENSES	\$ 933.00
State & Sub contracts	\$ 5,733.60
TOTAL	\$ 14,317.08



LEGEND
 ◆ B-# BORING LOCATION (CONDUCTED BY STS 2/2007)
 ○ VP-# SOIL GAS VAPOR PROBE LOCATION
 ● B-# PROPOSED SOIL BORING LOCATION

PROPOSED SOIL BORING LOCATION DIAGRAM
 ALEX EXHAUST
 905 3rd AVENUE EAST
 ALEXANDRIA, MINNESOTA
 FOR: MPCA

Drawn:	TAK	10/31/2007
Checked:	TJG	10/31/2007
Approved:	RLD	10/31/2007
PROJECT NUMBER	200702725	
FIGURE NUMBER	1	

NOTE: SITE PLAN PROVIDED BY AMERICAN ENGINEERING TESTING INC.

