Remediation Report of Home Heating Fuel Release

Ted Koppel, CR

December 1996

1.0 RESTORER'S STATEMENT

The site of the home heating fuel release is a private residence located at 666 Main Street in South Shenango

Township, Mercer County, Pennsylvania. The owners were forced to immediately evacuate the dwelling

after the incident:

The purpose of this report is to document the remediation of the spilled oil and the restoration of the property

back to its preloss condition. Proper steps were taken to clean-up the oil and the saturated oil material,

properly dispose of same and to conduct sub-surface testing to discover the extent of the oil spread.

Prevention of further permeation to the well area was critical as was ventilation to prevent migration of oil

fumes. All remediation conformed to DER (Department of Environmental Resources) guidelines. EGC

(Environmental and Geological Consultants, Inc.) was employed as a sub-contractor to perform the necessary

testing of environmental resources. Due to the cooperative efforts of EGC and DER, the findings of the

report were verified by the test results performed by EGC and reviewed by DER.

This author's interest in the project was that of General Contractor for the insured.

Ted Koppel

Date

Date

2.0 INTRODUCTION

The homeowner's insurance carrier, Hometown Insurance Company, dispatched FIRST GENERAL SERVICES OF WESTERN PA to the site at 3:15 P.M. on October 7, 1995. The incident occurred at 10:30 A.M. on October 7, 1995. John Jones, Senior Claims Adjuster for Ace Insurance Company (insurance carrier for Black's Home Heating Fuel Co.) of 222 State Street, Our Town, PA 22222, requested that FIRST GENERAL SERVICES OF WESTERN PA perform emergency services for the purpose of preventing further oil spread into the sub-strata and to protect the homeowner's property at 111 Main Street. Anytown, PA 11111, from further damage caused by the oil spill.

This author is Owner of FIRST GENERAL SERVICES OF WESTERN PA. a general contracting firm specializing in insurance restoration with main offices at 415 Dock Street, Sharon, PA 16146.

3.0 BACKGROUND

The John Smith family was displaced from their home on October 7, 1995, as a result of 200 gallons of No. 2 home heating fuel being spilled in the basement area of their residence with possible contamination of their drinking well water and oil vapors permeating their home. The homeowner contacted their insurance carrier as well as the responsible agent of the spill notifying their insurance carrier. The Smith family's insurance, Hometown Insurance Company, requested immediate emergency attention by FIRST GENERAL SERVICES OF WESTERN PA.

The subject site is a private residence located along Main Street in South Shenango Township, Mercer County, Pennsylvania. The site is located approximately 1.5 miles north of Jimtown, Pennsylvania. The occupants/owners are Mr. and Mrs. John Smith. On October 7, 1995, a delivery of home heating fuel was made to the site by Black's Home Fuel Company (Jimtown, Pennsylvania). The fuel was off loaded into a former external fill pipe which was previously disconnected from the inside tank. The pipe discharged directly into the basement of the residence and the fuel spread across the floor. The residents were not home at the time of the spill.

4.0 INVESTIGATION

The Department of Environmental Resources (DER) was contacted immediately upon assignment of the project to set protocol. EGC was contracted to perform the soil tests. Results of the tests are listed in Section 9.0, Figures 2, 3, and 4.

5.0 INSPECTION

This author and 5 cleaning technicians responded to the emergency at the John Smith residence at 4:45 P.M. on October 7, 1995. We met the homeowner, their agent from Hometown Insurance Company and Black's Home Heating Fuel Company's adjuster from Ace Insurance. Black's Home Heating Fuel Company's owner and the driver of the fuel truck which created the spill. The day was clear with no precipitation and the temperature was approximately 65 degrees Fahrenheit. The home is a one story ranch with a finished basement/garage area. The well maintained residence of average quality was built on a sloping landscape. The home's exterior is painted wood siding and stone.

Because there was still enough daylight and the home's electrical power was unaffected, there was no difficulty scoping the damaged areas. Immediate cleanup efforts were implemented. Floor coverings, furnishings, partitions, etc. were impacted by the fuel. Saturated carpeting, tile and building materials were removed and staged outside the home. An expansion board material had been installed around the perimeter of the concrete floor (next to concrete block walls) during floor construction. Petroleum fuel had saturated into the expansion board, providing a conduit to the floor sub-base. FIRST GENERAL SERVICES OF WESTERN PA began removing the concrete floor directly below the former tank fill pipe. Petroleum contamination was observed below the concrete floor.

The private drinking water well is located within the finished basement. Water Sample analysis was immediately scheduled. An on-lot septic system is present on the site. No floor drains were located in the basement to promote off site migration.

Environmental and Geological Consultants, Inc. (EGC) was contacted by the author to assist in the remediation project testing. The purpose of the services provided by EGC was to develop a remedial procedure and to develop a sampling/remediation plan to safely return the residents to their home.

The second of th

6.0 SCOPE OF REPAIRS

Work was commenced to remove portions of the concrete floor immediately surrounding the spill site.

Additional exploratory holes were cut into the concrete in the basement area and garage to facilitate subsurface soil sampling. Several sampling events were completed to define the extent of petroleum contamination.

FIRST GENERAL SERVICES OF WESTERN PA installed a heat shrink wrap (Global Wrap) inside the basement to prevent additional fuel vapors from permeating the structure. A large exhaust fan, in conjunction with the shrink wrap, was also placed outside of a basement window with the Global Wrap tunnel creating a negative pressure in the basement area.

Additional concrete was removed to facilitate excavation and removal of petroleum impacted soils. Contaminated building material, concrete and soil were transported for landfill disposal. Confirmatory soil sampling and analyses were completed. A commercially available granular activated carbon (GAC) filtration unit was installed on the private drinking water well as a precaution. Routine water samples shall be collected to document water quality.

Using a jackhammer at strategic locations, accessing the sub-base of the floor was part of the general remediation plan to sample the sub-base soils and submit samples for laboratory analysis. Continued excavation was based upon contaminate concentrations. Photoducumentaion of events is attached as Appendix I.

Arrangements were made by FIRST GENERAL SERVICES OF WESTERN PA to transport all petroleum contaminated material and construction debris to Lake View Landfill (Erie, PA) for disposal. Refer to Appendix II for disposal documentation.

As the concrete floor sub-base was exposed, soil samples were again collected. Shallow borings were installed using hand augers and spoons. Maximum depth of borings inside the basement was 4.5 feet below grade. Soil samples were collected in .05 feet intervals. Each interval was split into two (2) soil samples for headspace screening and laboratory analysis, if necessary.

Split soil samples were allowed to reach ambient temperature. Headspace screening of all soil samples to detect organic vapors was conducted utilizing a portable photoionization detector (PID). PID readings were collected by puncturing the foil seal of each sample and recording the respective value. Results of headspace screening are attached as Table I. Headspace readings ranged from less than the instrument detection level (<0.1 parts per million (ppm)) to 122 ppm (same HA2; 1.0'-1.6').

Baseline soil samples were collected on October 12-13, 1995. Baseline samples were collected in small sample ports cut into the concrete floor by FIRST GENERAL SERVICES. The majority of the concrete floor was intact at this time.

Soil samples were submitted to GeoAnalytical Laboratories, Twinsburg. Ohio, for laboratory analysis of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020 and total petroleum hydrocarbons (TPH) by modified EPA Method 8015 to include diesel range organics (DRO). Results indicated residual petroleum contamination in the subsurface. Refer to Figure 2 for soil boring locations and results of laboratory analysis for this event. Additional excavation was conducted.

EGC personnel were called in when the majority of the concrete had been removed from the recreation area floor along with a significant volume of contaminated soil in the northern half of the basement. Samples were collected from horizontal borings installed under and along the footer at the spill area. Results of the soil samples from the date indicated concentrations lower than PADER Cleanup Standards for Contaminated Soils under the footer. However, readings indicated additional soil contamination along the footer. Soil

removal was continued. Refer to Figure 3 for soil boring locations and results of laboratory analysis from this event.

The final sampling event was conducted on October 31, 1995. Confirmatory samples were collected under the stairwell, under the fireplace and along the garage wall at the entrance. Results displayed only a trace level of TPH below the rear (south) side of the fireplace. Additional excavation and soil removal were conducted in this area. Refer to Figure 4 for soil boring locations and results of laboratory analysis from this event. Copies of laboratory certificates of analysis for soil samples are attached as Appendix III.

The drinking water supply well is located in a small room in the basement. The drilled well extends to a depth greater than 60 feet. Exact construction details are unknown (depth, date of installation, etc.). Depth to water was greater than 50 feet on October 13, 1995. Copies of laboratory data are attached as Appendix IV.

A commercially available flow-through granular activated carbon (GAC) filter was installed in November 1995. Baseline samples displayed no petroleum contamination. Follow-up samples were collected by EGC. Results of influent and effluent sample remain below laboratory detection.

After confirming, via soil sampling and testing, that all contaminated sub-surface soil had been removed FIRST GENERAL SERVICES OF WESTERN PA continued the restoration process by back filling and compacting where the soil had been removed. After completion of the back fill, the reinforced concrete floor was replaced to allow the structural cleaning process to continue. Because ample oil fumes had penetrated the structure, before the wrapping and venting process was completed, it was necessary to clean the entire house at this time. After the basement area was cleaned and sealed, cleaning of the first floor area and contents continued while the partitions and finishes were being installed in the basement area. The entire project duration was eight weeks.

7.0 ESTIMATE

FIRST GENERAL SERVICES OF WESTERN PA. 415 DOCK STREET SHARON, PA. 16146 (412) 981-1441 OR (800) 553-8426 FAX (412) 981-3132 FEDERAL E.I.N. 25-1411356

11/09/95

CLIENT: JOHN SMITH

RES. PH: (555)555-1212

ADDRESS: 111 MAIN STREET

ANYTOWN,, PA 11111

PROPERTY ADDR: 111

MAIN STREET, PA 11111

CONTACT: JOHN SMITH

ESTIMATOR: K TED KOPPEL

BUS. PH: (412)981-1441

FAX: (412)981-3132

FAX: (555)555-6667

REFERENCE: JOHN JONES

BUS. PH: (555)555-6666 EXT: 2555

SENIOR CLAIM REPRESENTATIVE

COMPANY: ACE INSURANCE COMPANY

ADDRESS: 222 STATE STREET

OUR TOWN,, PA 22222

ESTIMATE: TK-111

FILE NUMBER: TK-111

JOHN SMITH

11/09/95 PAGE:2

ROOM: EMERGENCY SERVICES

DESCRIPTION UNITS REMOVE REPLACE TOTAL

MOBILIZATION FEE

1 EA @

EMERGENCY SERVICE CLEANING LABOR 39.5 HR @

**** NOTE: TO ABSORB AND EXTRACT OIL.

GROSS LOT MATERIALS USED TO

1 LS @

REMOVE OIL (LISTED BELOW)

TRASH BAGS 78EA, DEGREASER 55GL, ABSORBITAL 300LB, THERMO 55 30GL, 9D9 ODOR COUNTERACTANT 12GL.

DUMPSTER LOAD - SMALL -

2 EA @

HAZARDOUS MATERIAL

HAZARDOUS MATERIAL DUMPSTER

2 EA @

LINER

**** NOTE: THE NAMED WASTE GENERATER IS TO BE EGC THE DUMPSTER CHARGES ARE FOR DEMMURAGE ONLY. ALL HAZARDOUS WASTE SITE CHARGES ARE TO BE DIRECTED TO EGC

GENERAL DEMOLITION LABOR LOAD

24 HR @

DUMPSTER

**** NOTE: TO REMOVE CONTENTS, CARPETING, AND AFFECTED BUILDING MATERIALS FOR DISPOSAL OR STORAGE.

GLOBAL WRAP CEILING & STAIR 1,094.5 SF @

WELL (SHRINK WRAP)

CONSTRUCT AIR EVACUATION CHUTE 2.25 HR @

(SKRINK WRAP)

36" LOW SPEED AIR MOVER -

3 WK @

RENTAL - PER WEEK

**** NOTE: TO CREATE A NEGATIVE AIR PRESSURE IN THE BASEMENT AREA TO PREVENT MIGRATION OF THE OIL FUMES TO THE FIRST FLOOR LIVING AREA.

ROOM TOTAL: EMERGENCY SERVICES

JOHN SMITH

11/09/95 PAGE:3

ROOM: TESTING

DESCRIPTION	UNITS		REMOVE	REPLACE	TOTAL
CONCRETE SAW RENTAL - PER DAY	2 DA	@			
ELECTRIC JACK HAMMER RENTAL - PER DAY	2 DA	@			
EXCAVATION LABOR	16 HR	@			
EXCAVATION SUPERVISION	16 HR	@			

**** NOTE: ALL TESTING BY EGC IS TO BE PAID FOR DIRECT BY ACE INSURANCE COMPANY. ALL TEST RESULTS ARE TO BE SUBMITTED TO FIRST GENERAL SERVICES OF WESTERN PA AND DER.

ROOM TOTAL: TESTING

ROOM: BASEMENT FURNACE RM SUBROOM 1: OFFSET MISSING WALL: 1 - 6'8" X 7' 427 SF WALLS 134 SF FLOOR 187 SF LONG WALL	134 SF CEILING 17 SY FLOORING 76 SF SHORT WALL	561 SF WALLS & CEILING 59 LF FLOOR PERIMETER 59 LF CEIL. PERIMETER	7'3" CEILING
DESCRIPTION	UNITS	REMOVE REPLACE	TOTAL
CONCRETE FLOOR	134 SF @		
ELECTRIC JACK HAMMER RENTAL - PER DAY	2 DA @		
BOBCAT RENTAL - PER DAY	2 DA @		
EXCAVATE BY HAND - HARD DIRT	19.66 CY @		
BACK FILL BORROWED BANK SAND COMPACTED - BY HAND	19.66 CY @		
CONCRETE SLAB ON GRADE - 4" - REINFORCED	134 SF @		

INSURANCE COPY

FILTERS AND SERVICE

FURNACE - CLEAN, CHECK, REPLACE 1 EA @

JOHN SMITH

11/09/95 PAGE:4

DESCRIPTION	CONTINUED UNITS		BASEMENT	FURNACE RM REMOVE	REPLACE	TOTAL
FURNACE - FORCED AIR - DETACH & RESET	1	EA	@			
CLEAN & DEODORIZE FURNACE DUCTING- COMPLETE SYSTEM	1	EA	@		•	
WATER HEATER - DETACH & RESET	1	EA	@			
R&R STUD WALL - 2" X 4" X 8' - 16" OC	19	LF	@			
R&R 1/2" DRYWALL - HUNG, TAPED, FLOATED, READY FOR PAINT	187	SF	@			
SEAL/PRIME THE LONG WALL - ONE COATS	187	SF	@			*
PAINT WALLS - TWO COATS	187	SF	' @			
SEAL MASONRY (1.5 TIMES TO COMPLETELY SEAL)	339	SF	' @		*	
R&R INTERIOR DOOR UNIT - STANDARD GRADE	1	EA	. @			
PAINT DOOR (PER SIDE) 2 COATS	2	E F	A @			
PAINT DOOR TRIM & JAMB/ 2 COATS	5 1	. E <i>P</i>	. @			
		-				

ROOM TOTAL: BASEMENT FURNACE RM

ROOM: BASEMENT FAMILY ROOM

SUBROOM 1: OFFSET

MISSING WALL: 1 - 11'6" X 7'0"

743 SF WALLS

574 SF FLOOR 242 SF LONG WALL

DESCRIPTION

574 SF CEILING 73 SY FLOORING

212 SF SHORT WALL

UNITS

LXWXH: 23'0" X 19'9" X 7'0"

LXWXH: 11'6" X 10'4" X 7'0" OPENS INTO 0 GOES TO FLOOR/CEILING

1,317 SF WALLS & CEILING

106 LF FLOOR PERIMETER

106 LF CEIL. PERIMETER

REMOVE

REPLACE

TOTAL

CONCRETE FLOOR

ELECTRIC JACK HAMMER RENTAL -

PER DAY

574 SF @

4 DA @

JOHN SMITH

CONTINUED - BASEMENT FAMILY ROOM REMOVE UNITS DESCRIPTION

REPLACE

11/09/95 PAGE:5

TOTAL

DESCRIPTION	UNITS			REMOVE	REFLIACI	•	
BOBCAT RENTAL - PER DAY	4	DA	@				
EXCAVATE BY HAND - HARD DIRT	85.04	CY	@				
BACK FILL BORROWED BANK SAND COMPACTED - BY HAND	85.04	CY	@				
CONCRETE SLAB ON GRADE - 4" - REINFORCED	574	SF	@				
DRYWALL REPAIR - MINIMUM CHARGE - CEILING	1	EA	@				
DETACH & RESET LIGHT FIXTURE	3	EA	@				855
DETACH & RESET HEAT/AC REGISTER	3	EA	@				
SEAL/PRIME THE CEILING - TWO COATS	574	SF	@	-		9	
PAINT CEILING -TWO COATS	574	SF	@				
2" COVE MOLD - PINE	106	LF	@				
STAIN & FINISH CROWN MOLDING	106	LF	@				
R&R CASING - STAIN GRADE	51	LF	@				
STAIN AND VARNISH CASING	51	LF	@				
R&R PANELING - STANDARD GRADE	743	SF	@				
R&R FURRING STRIP - 1" X 2"	743	SF	@				
OUTLET OR SWITCH - DETACH & RESET	5	EA	@				
R&R BASEBOARD - 3 1/4" STAIN GRADE	106	LF	@				
STAIN & FINISH BASEBOARD	106	LF	@				
CLEAN MASONRY WALL	666	SF	@				
SEAL MASONRY (1.5 TIMES TO COMPLETELY SEAL)	666	SF	@				

JOHN SMITH

CONTINUED - BASEMENT FAMILY ROOM

11/09/95 PAGE:6

DESCRIPTION REMOVE REPLACE TOTAL GLUE DOWN CARPET - STANDARD 73 SY @ GRADE ROOM TOTAL: BASEMENT FAMILY ROOM ROOM: BASEMENT BATH LXWXH: 7'6" X 6'0" X 7'0" 189 SF WALLS 45 SF CEILING 234 SF WALLS & CEILING 45 SF FLOOR 6 SY FLOORING 27 LF FLOOR PERIMETER 53 SF LONG WALL 42 SF SHORT WALL 27 LF CEIL. PERIMETER DESCRIPTION UNITS REMOVE REPLACE TOTAL CONCRETE FLOOR 45 SF @ ELECTRIC JACK HAMMER RENTAL -0.5 DA @ PER DAY BOBCAT RENTAL - PER DAY 0.5 DA @ EXCAVATE BY HAND - HARD DIRT 6.67 CY @ BACK FILL BORROWED BANK SAND 6.67 CY @ COMPACTED - BY HAND CONCRETE SLAB ON GRADE - 4" -45 SF @ REINFORCED CLEAN MASONRY WALL 22 SF @ SEAL MASONRY (1.5 TIMES TO 22 SF @ COMPLETELY SEAL) R&R STUD WALL - 2" X 4" X 8' -19 LF @ 16" OC OUTLET OR SWITCH - DETACH & 3 EA @ RESET R&R 1/2" DRYWALL - HUNG, TAPED, 234 SF @ FLOATED, READY FOR PAINT SEAL/PRIME THE WALLS & CEILING 234 SF @ - ONE COATS PAINT CEILING -TWO COATS 45 SF @

JOHN SMITH

11/09/95 PAGE:7

JOHN SMITH					11/03/33 F	AGE./
DESCRIPTION	CONTINUED		BASEMENT	BATH REMOVE	REPLACE	TOTAL
DETACH & RESET LIGHT FIXTURE	2	EA	. @			
CLEAN LIGHT FIXTURE	1	ΕA	. @			
PAINT WALLS - TWO COATS	62.37	SF	r @			
R&R CERAMIC TILE WALLS	90.37	SE	? @			
R&R INTERIOR DOOR UNIT - STANDARD GRADE	1	E	<i>f</i> @			
INTERIOR DOOR LOCK SET	1	E <i>I</i>	A @			
R&R CASING	34	LI	· @			٠
PAINT DOOR (PER SIDE) 2 COATS	2	E#	A. @			
PAINT DOOR TRIM & JAMB/ 2 COATS	5 1	ΕA	. @			
R&R CERAMIC TILE FLOOR	45	SI	F @		¥	
TOILET - DETACH & RESET	1	. E <i>l</i>	A @	81		
SINK - DOUBLE - DETACH & RESET	1	. E	A @			
VANITY - DETACH & RESET	3	L.	F @			
TUB/SHOWER FAUCET - DETACH & RESET	1	E	A @			
ROOM TOTAL: BASEMENT BATH		8 18				
ROOM: WELL ROOM 184 SF WALLS 43 SF FLOOR 49 SF LONG WALL	5 8	Y	CEILING FLOORING SHORT WAL	227 27	7'0" X 6'1" X SF WALLS & CEILING LF FLOOR PERIMETER LF CEIL. PERIMETER	
DESCRIPTION	UNITS				REPLACE	TOTA
CLEAN CEILING JOIST AND DECK SYSTEM (2"X10" @ 16" O/C)	96.75	5 S	F @			
CLEAN LIGHT FIXTURE	1	LΕ	@ A		,	
CLEAN MASONRY WALL	184	1 S	F @			

JOHN SMITH

11/09/95 PAGE:8

DESCRIPTION	CONTINUED UNITS			REMOVE	REPLACE	TOTAL
SEAL MASONRY (1.5 TIMES TO COMPLETELY SEAL)	184	SF	@			
CLEAN MASONRY FLOOR	43	SF	@			
CLEAN MISCELLANEOUS CONTENTS	2	HR	@			
REMOVE THEN RESET WATER SOFTE	NER 1	EA	. @			
REMOVE THEN RESET WATER PRESSURE VESSEL	1	EA	. @			
R&R INTERIOR DOOR UNIT	1	EA	. @			•
INTERIOR DOOR LOCK SET	1	EA	. @			
R&R CASING	34	LF	@			
PAINT DOOR (PER SIDE) 2 COATS	2	EA	. @		¥	
PAINT DOOR TRIM & JAMB/ 2 COA	TS 1	EA	. @			
CARBON WATER FILTER / WITH 1 YEAR FILTER SUPPLY	1	EA	. @		£	

ROOM TOTAL: WELL ROOM

ROOM:	BASI	EMENT	ENTE	Υ				
MIS	SING	WALL:	1	-	9'10"	X	7'0"	

LXWXH: 22'6" X 9'10" X 7'0"

OPENS INTO E GOES TO FLOOR/CEILING

REMOVE

384 SF WALLS 222 SF CEILING 222 SF FLOOR 28 SY FLOORING 158 SF LONG WALL 69 SF SHORT WALL

UNITS

606 SF WALLS & CEILING 55 LF FLOOR PERIMETER 55 LF CEIL. PERIMETER

REPLACE

TOTAL

CONCRETE FLOOR	222	SF	@
ELECTRIC JACK HAMMER RENTAL - PER DAY	4	DA	@
BOBCAT RENTAL - PER DAY	4	DA	@
EXCAVATE BY HAND - HARD DIRT	32.89	CY	@

INSURANCE COPY

DESCRIPTION

JOHN SMITH

11/09/95 PAGE:9 CONTINUED - BASEMENT ENTRY

DESCRIPTION	UNITS		SASEMENT	REMOVE	REPLACE	TOTAL
BACK FILL BORROWED BANK SAND COMPACTED - BY HAND	32.89	CY	@			
CONCRETE SLAB ON GRADE - 4" - REINFORCED	222	SF	@			
DETACH & RESET LIGHT FIXTURE	2	EA	@			
DETACH & RESET HEAT/AC REGISTER	2 2	EA	@			
SEAL/PRIME THE CEILING - TWO COATS	222	SF	@			
PAINT CEILING -TWO COATS	222	SF	@			3.00
2" COVE MOLD - PINE	45.17	LF	@			
STAIN & FINISH CROWN MOLDING	45.17	LF	@			
R&R CASING - STAIN GRADE	68	LF	@			*
STAIN AND VARNISH CASING	68	LF	@			
R&R PANELING - STANDARD GRADE	160	SF	@			
R&R FURRING STRIP - 1" X 2"	160	SF	@			
OUTLET OR SWITCH - DETACH & RESET	4	EA	@			
R&R BASEBOARD - 3 1/4" STAIN GRADE	45.17	' LF	@			
STAIN & FINISH BASEBOARD	45.17	LF	@			
CLEAN MASONRY WALL	157.5	SF	@			
SEAL MASONRY (1.5 TIMES TO COMPLETELY SEAL)	157.5	SF	' @			
R&R RESILIENT (V/A TYPE) TILE FLOORING - HIGH GRADE	222	2 SF	' @			
EXTERIOR DOOR - DETACH & RESET	3	L EA	. @			

JOHN SMITH

11/09/95 PAGE:10

JOHN SMITH				WW	
DESCRIPTION	CONTINUED - UNITS	BASEMENT E	NTRY REMOVE	REPLACE	TOTAL
DETACH & RESET WOOD WINDOW - PICTURE (FIXED), 45 - 55 SF, STANDARD GRADE		@			
R&R STUD WALL - 2" X 4" X 8' - 16" OC	9.83 L	F @	0.97+		
R&R 1/2" DRYWALL - HUNG, TAPED, FLOATED, READY FOR PAINT	68.83 S	F @	0.29+		
SEAL/PRIME THE SURFACE AREA - ONE COATS	40 S	F @			
PAINT WALLS - TWO COATS	40 S	F @			350
ROOM TOTAL: BASEMENT ENTRY	1. D. V. 10919000 W. 100100			- Constitution of the Cons	-
ROOM: STAIRWELL 264 SF WALLS 41 SF FLOOR 108 SF LONG WALL DESCRIPTION	5 SY	CEILING FLOORING SHORT WALL	305 S 33 L 33 L	'6" X 3'0" X F WALLS & CEILING F FLOOR PERIMETER F CEIL. PERIMETER REPLACE	
CLEAN THE WALLS & CEILING	305 S	F @			
DETACH & RESET LIGHT FIXTURE	1 E	A @			
CLEAN LIGHT FIXTURE	1 E	A @			
R&R GLUE DOWN CARPET - STANDARI GRADE	D 11.56 S	Y @	3.49+		
CLEAN DOOR (PER SIDE)	1 E	:A @			

ROOM TOTAL: STAIRWELL

JOHN SMITH

11/09/95 PAGE:11

ROOM: KITCHEN		LXWXH: 15'6" X 11'6" X	
432 SF WALLS	179 SF CEILING	611 SF WALLS & CEILING 54 LF FLOOR PERIMETER	
179 SF FLOOR	23 SI FLOORING	54 LF FLOOR PERIMETER 54 LF CEIL. PERIMETER	
DESCRIPTION	UNITS	REMOVE REPLACE	TOTAL
CLEAN THE CEILING	179 SF @		
CLEAN THE SURFACE AREA	345.6 SF @		
CLEAN WALLPAPER	65 SF @		
CLEAN FLOOR	179 SF @		
CLEAN MISCELLANEOUS CONTENTS	12 HR @		1058
CLEAN DOOR (PER SIDE)	1 EA @		
CLEAN WINDOW, 3 - 9 SF	2 EA @		
CLEAN CABINETRY - UPPER - INSIDE AND OUT	20 LF @	·	
CLEAN CABINETRY - LOWER - INSIDE AND OUT	20 LF @		
CLEAN COUNTER TOP - FORMICA	17.75 SF @		
REFRIGERATOR - DETACH & RESET	1 EA @		
CLEAN REFRIGERATOR	1 EA @		
RANGE - GAS - DETACH & RESET	1 EA @		,
CLEAN RANGE	1 EA @		

ROOM TOTAL: KITCHEN

OHN SMITH

11/09/95 PAGE:12

123 SF FLOOR 91 SF LONG WALL	16 SY FLOORING	LXWXH: 11'4" X 10'10" X 478 SF WALLS & CEILING 45 LF FLOOR PERIMETER 45 LF CEIL. PERIMETER REMOVE REPLACE	B'0" TOTAL
CLEAN THE WALLS & CEILING	478 SF @		
CLEAN AND DEODORIZE CARPET	123 SF @		
CLEAN MISCELLANEOUS CONTENTS	6 HR @		
CLEAN DOOR (PER SIDE)	1 EA @		
CLEAN WINDOW, 21 - 40 SF	2 EA @		10.
ROOM TOTAL: DINING ROOM			
ROOM: LIVING ROOM 592 SF WALLS 336 SF FLOOR 168 SF LONG WALL DESCRIPTION	336 SF CEILING 43 SY FLOORING		TOTAL
CLEAN THE WALLS & CEILING	928 SF @		
CLEAN AND DEODORIZE CARPET	336 SF @		
CLEAN MISCELLANEOUS CONTENTS	4 HR @		
CLEAN DOOR (PER SIDE)	1 EA @		
CLEAN WINDOW, 21 - 40 SF	1 EA @		
CLEAN & DEODORIZE CHAIR - LIGHT CLEAN	2 EA @		
CLEAN & DEODORIZE SOFA - LIGHT CLEAN	7 LF @		
CLEAN & DEODORIZE LOVE SEAT - PLAIN FABRIC - LIGHT CLEAN	5 LF @		

ROOM TOTAL: LIVING ROOM

HN SMITH

11/09/95 PAGE:13

73 SF CEILING 9 SY FLOORING 46 SF SHORT WALL	367 SF WALLS & CEILING 37 LF FLOOR PERIMETER 37 LF CEIL. PERIMETER	B'0" TOTAL
367 SF @		
2 EA @		
73 SF @		
0.75 HR @		
1 EA @		
96 SF CEILING 12 SY FLOORING 24 SF SHORT WALL	656 SF WALLS & CEILING 70 LF FLOOR PERIMETER 70 LF CEIL. PERIMETER	
656 SF @	A	
2 EA @		
96 SF @		
0.75 HR @		
6 EA @		
	73 SF CEILING 9 SY FLOORING 46 SF SHORT WALL UNITS 367 SF @ 2 EA @ 73 SF @ 0.75 HR @ 1 EA @ 96 SF CEILING 12 SY FLOORING 24 SF SHORT WALL UNITS 656 SF @ 2 EA @ 96 SF @ 0.75 HR @	9 SY FLOORING 46 SF SHORT WALL UNITS REMOVE 37 LF CEIL. PERIMETER REMOVE REPLACE 367 SF @ 2 EA @ 73 SF @ 0.75 HR @ 1 EA @ LXWXH: 32'0" X 3'0" X 656 SF WALLS & CEILING 12 SY FLOORING 24 SF SHORT WALL UNITS 656 SF @ 2 EA @ 96 SF @ 2 EA @ 96 SF @ 0.75 HR @

ROOM TOTAL: HALL

11/09/95 PAGE:14

LXWXH: 12'8" X 11'4" X 8'0" ROOM: FRONT MIDDLE BEDROOM 3'0" X 2'3" X 8 1 0 11 LXWXH: SUBROOM 1: OFFSET OPENS INTO 0 GOES TO FLOOR/CEILING 3'0" X 8'0" MISSING WALL: 1 -2'3" X LXWXH: 4'11" X SUBROOM 2: CLOSET 698 SF WALLS & CEILING 163 SF CEILING 535 SF WALLS 21 SY FLOORING 68 LF FLOOR PERIMETER 163 SF FLOOR 68 LF CEIL. PERIMETER 127 SF SHORT WALL 166 SF LONG WALL REPLACE TOTAL REMOVE UNITS DESCRIPTION CLEAN THE WALLS & CEILING 698 SF @ 2 EA @ CLEAN LIGHT FIXTURE CLEAN AND DEODORIZE CARPET 163 SF @

1 HR @

2 EA @

1 EA @

OOM TOTAL: FRONT MIDDLE BEDROOM

CLEAN DOOR (PER SIDE)

CLEAN WINDOW, 21 - 40 SF

CLEAN MISCELLANEOUS CONTENTS

HN SMITH

LXWXH: 16'0" X 11'6" X 8'0" ROOM: FRONT LEFT BEDROOM LXWXH: 5'5" X 4'8" X SUBROOM 1: CLOSET 602 SF WALLS 210 SF CEILING 812 SF WALLS & CEILING 27 SY FLOORING 76 LF FLOOR PERIMETER 210 SF FLOOR 76 LF CEIL. PERIMETER 172 SF LONG WALL 130 SF SHORT WALL TOTAL REPLACE DESCRIPTION UNITS REMOVE 812 SF @ CLEAN THE WALLS & CEILING CLEAN LIGHT FIXTURE 1 EA @ CLEAN AND DEODORIZE CARPET 210 SF @ 1.25 HR @ CLEAN MISCELLANEOUS CONTENTS CLEAN DOOR (PER SIDE) 2 EA @ CLEAN WINDOW, 21 - 40 SF 2 EA @

ROOM TOTAL: FRONT LEFT BEDROOM

11/09/95 PAGE:15

SMITH

DOM: MASTER BATHROOM 183 SF WALLS 32 SF FLOOR 54 SF LONG WALL ESCRIPTION	32 SF CEILING 4 SY FLOORING 38 SF SHORT WALL	XWXH: 6'9" X 4'8" X 6'0 215 SF WALLS & CEILING 23 LF FLOOR PERIMETER 23 LF CEIL. PERIMETER REMOVE REPLACE T	COTAL
LEAN THE WALLS & CEILING	215 SF @		
LEAN LIGHT FIXTURE	2 EA @		
LEAN FLOOR, STRIP & WAX	32 SF @		
CLEAN MISCELLANEOUS CONTENTS	0.75 HR @		
CLEAN DOOR (PER SIDE)	6 EA @		÷
CLEAN WINDOW, 10 - 20 SF	1 EA @		
CLEAN VANITY - INSIDE AND OUT	4 LF @		
CLEAN SINK	1 EA @	8	
EAN TUB	1 EA @		
CLEAN TOILET	1 EA @		
ROOM TOTAL: MASTER BATHROOM			
ROOM: BATH ROOM 224 SF WALLS 45 SF FLOOR 72 SF LONG WALL DESCRIPTION	45 SF CEILING 6 SY FLOORING 40 SF SHORT WALL UNITS	269 SF WALLS & CEILING 28 LF FLOOR PERIMETER	TOTA
CLEAN THE WALLS & CEILING	269 SF @		
CLEAN LIGHT FIXTURE	2 EA @		
CLEAN FLOOR, STRIP & WAX	45 SF @		
CLEAN MISCELLANEOUS CONTENTS	0.75 HR @		
CLEAN DOOR (PER SIDE)	6 EA @		
CLEAN WINDOW, 10 - 20 SF	1 EA @		
INSURANCE COPY			

FI	RST GENERAL	SERV	ICES OF	WESTERN P	A.	11/09/95 PA	AGE:16
IN SMITH DESCRIPTION	CONTINUED UNITS		ATH ROOM	REMOVE	RE	PLACE	TOTAL
CLEAN VANITY - INSIDE AND OUT	r 6	LF	@				
CLEAN SINK	2	EA	@				
CLEAN TUB	1	EA	@				
CLEAN TOILET	1	EA	@				
ROOM TOTAL: BATH ROOM							
ROOM: BACK LEFT BEDROOM SUBROOM 1: CLOSET 506 SF WALLS 161 SF FLOOR 143 SF LONG WALL DESCRIPTION	21 9	SY FL SF SH	OORING	6	4'10" X 67 SF WALI 64 LF FLOO	11'5" X 2'4" X S & CEILING OR PERIMETER L. PERIMETER EPLACE	8'0" 8'0" TOTAL
CLEAN THE WALLS & CEILING	66	7 SF	@				
LEAN LIGHT FIXTURE		1 EA	@				
CLEAN AND DEODORIZE CARPET	16	1 SF	@				
CLEAN MISCELLANEOUS CONTENTS	3 1.2	5 HR	@				
CLEAN DOOR (PER SIDE)		2 EA	@				
CLEAN WINDOW, 21 - 40 SF		2 EA	@				
ROOM TOTAL: BACK LEFT BEDRO	OM						
ROOM: BACK MIDDLE BEDROOM SUBROOM 1: CLOSET 515 SF WALLS 154 SF FLOOR 147 SF LONG WAL DESCRIPTION	20	SY F	EILING LOORING HORT WA	LXWXH:	6'4" 3 669 SF WAI 65 LF FLC 65 LF CE	11'7" X 2'4" X LS & CEILING OOR PERIMETER (L. PERIMETER REPLACE	8'0" G R
CLEAN THE WALLS & CEILING	6	69 SF	r @			×	
CLEAN LIGHT FIXTURE		2 E	. @				

FIRS	T GENERAL	SE	RVI	CES OF WI	ESTERN PA.		11/09/95 PA	AGE:17
OHN SMITH	CONTINUED UNITS	- 1	BAC!	K MIDDLE	BEDROOM REMOVE	RE	PLACE	TOTAL
LEAN AND DEODORIZE CARPET	154	SF	@					
LEAN MISCELLANEOUS CONTENTS	1	HR	. @					
CLEAN DOOR (PER SIDE)	2	EA	4 @)				
CLEAN WINDOW, 21 - 40 SF	2	E	4 @)				
ROOM TOTAL: BACK MIDDLE BEDROO	M							
ROOM: BACK PORCH 406 SF WALLS 174 SF FLOOR 129 SF LONG WALL	22 75	SY SF	FLO	LING ORING RT WALL	580 55	SF WAL LF FLO LF CEI	10'0" X LS & CEILING OR PERIMETER L. PERIMETER REPLACE	
DESCRIPTION	UNIT	s 			- KEHOVE			
ROOM TOTAL: BACK PORCH ROOM: BASEMENT GARAGE SUBROOM 1: OFFSET MISSING WALL: 1 - 17'8" 724 SF WALLS 553 SF FLOOR	71	SY	FL	ILING OORING	LXWXH: OPENS IN 1,27 9	17'8" TO 0 7 SF WA 7 LF FL	X 18'6" X X 8'3" X GOES TO FLOO LLS & CEILING OOR PERIMETE	G R
296 SF LONG WALL DESCRIPTION	200 UNI		SH	ORT WALL	REMOVE		REPLACE	TOTA
CONCRETE FLOOR	1	45	SF	@				
ELECTRIC JACK HAMMER RENTAL PER DAY	_ 0	.5	DA	@				
BOBCAT RENTAL - PER DAY	C	. 5	DA	@				
EXCAVATE BY HAND - HARD DIRT		5	CY	@				
BACK FILL BORROWED BANK SAND COMPACTED - BY HAND	1	5	CY	@				

JOHN SMITH

CONTINUED - BASEMENT GARAGE

11/09/95 PAGE:18

DESCRIPTION

UNITS

REMOVE

REPLACE

TOTAL

CONCRETE SLAB ON GRADE - 4" - 145 SF @

REINFORCED

ROOM TOTAL: BASEMENT GARAGE

ROOM: MISCELLANEOUS

DESCRIPTION	UNITS				F	REMOVE	REPLACE		TOTAL
DUMPSTER LOAD - LARGE	6	EA	@						
HAZARDOUS MATERIAL DUMPSTER LINER	6	EA	@					*	
MOVING VAN AND EQUIPMENT - PER DAY	2	EA	@						
LABOR FOR MOVE-OUT AND MOVE BACK	28	HR	@					4)	
**** NOTE: CONTENTS WERE STORED I	N HOME	OWN	ERS	ON	SITE	STORAGE	BUILDING.		
DRY CLEANING - BY INVOICE	1	LS	@						
LAUNDRY - BY INVOICE	1	LS	@						
DOOM TOTAL MISCELLANDOUS						.,			

ROOM TOTAL: MISCELLANEOUS

LINE ITEM SUBTOTAL:

ADJUSTMENTS FOR MIN CHARGES

MINIMUM

IN ESTIMATE

ADJUSTMENT

HEAT, VENT, & AIR COND REPAI

WOOD WINDOW REPAIR

TOTAL ADJUSTMENTS FOR MINIMUMS:

LINE ITEM TOTAL:

JOHN SMITH

11/09/95 PAGE:19

SUMMARY

TOTAL LINE ITEMS OVERHEAD @ 10% X PROFIT @ 10% X MATERIAL TAX @ 6% X GRAND TOTAL

GRAND TOTAL AREAS:

8,119 SF WALLS 3,358 SF FLOOR 2,716 SF LONG WALL 1,676 SF SHORT WALL

3,358 SF CEILING 11,477 SF WALLS & CEILING 429 SY FLOORING 1,063 LF FLOOR PERIMETER

1,063 LF CEIL. PERIMETER

OWNER

HTIMS NE

RECAP BY ROOM

11/09/95 PAGE:20

ROOM: EMERGENCY SERVICES

ROOM: TESTING

ROOM:BASEMENT FURNACE RM ROOM:BASEMENT FAMILY ROOM

ROOM: BASEMENT BATH

ROOM: WELL ROOM

ROOM: BASEMENT ENTRY

ROOM: STAIRWELL

ROOM: KITCHEN

ROOM: DINING ROOM

ROOM: LIVING ROOM

ROOM: FOYER

ROOM: HALL

ROOM: FRONT MIDDLE BEDROOM

ROOM: FRONT LEFT BEDROOM

ROOM: MASTER BATHROOM

ROOM: BATH ROOM

ROOM: BACK LEFT BEDROOM

ROOM: BACK MIDDLE BEDROOM

ROOM: BACK PORCH

ROOM: BASEMENT GARAGE

ROOM: MISCELLANEOUS

MINIMUMS

SUMMARY

TOTAL LINE ITEMS

OVERHEAD @ 10% X
PROFIT @ 10% X
MATERIAL TAX @ 6% X

GRAND TOTAL

11/09/95 PAGE:21

JOHN SMITH

RECAP BY CATEGORY

DESCRIPTION: O&P ITEMS

TOTAL DOLLARS

%

APPLIANCES

CABINETRY

CONT: DRY CLEANING

CLEANING

CONCRETE

CONT: PACKING, HANDLING, STORAGE CONT: CLEAN, UPHOLSTRY & SOFT

LAUNDRY

GENERAL DEMOLITION

DOORS

DRYWALL

ELECTRICAL

EMERGENCY SERVICE

EXCAVATION

FLOOR COVERING - CARPET

FLOOR COVERING - VINYL

FINISH CARPENTRY / TRIMWORK

FRAMING & ROUGH CARPENTRY

HEAT, VENT & AIR CONDITIONING

LIGHT FIXTURES

PLUMBING

PANELING & WOOD WALL FINISHES

PAINTING

TILE

WINDOWS - WOOD

O&P ITEMS SUBTOTAL

MINIMUMS

OVERHEAD

10%

PROFIT

10%

MATERIAL TAX

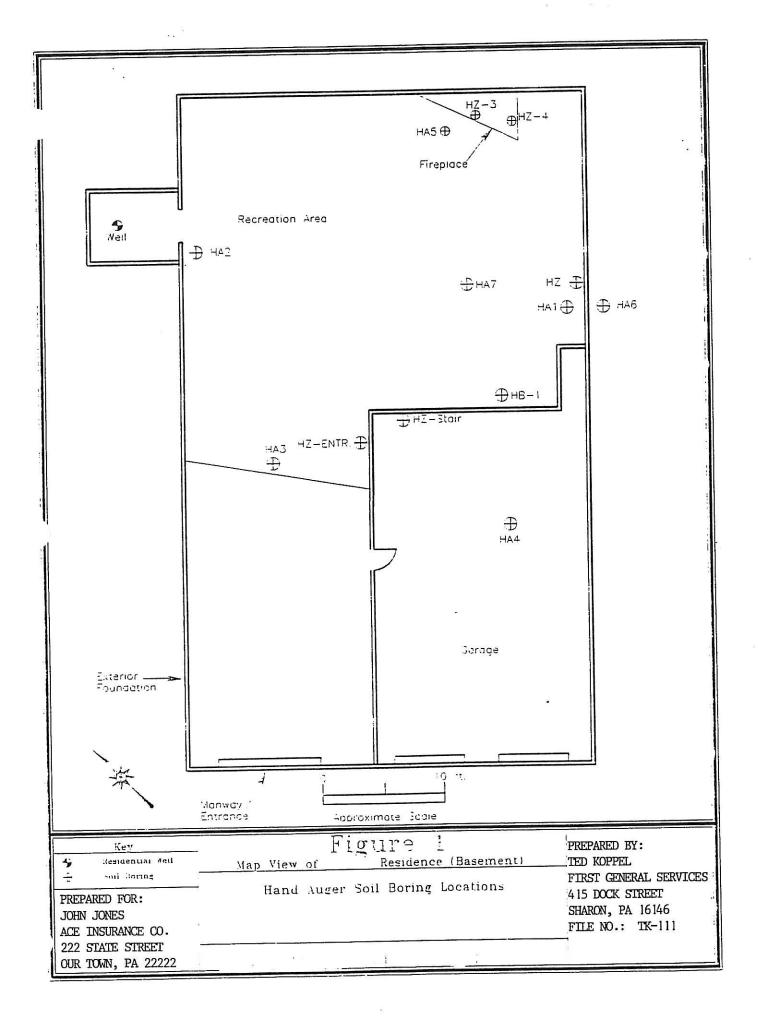
68

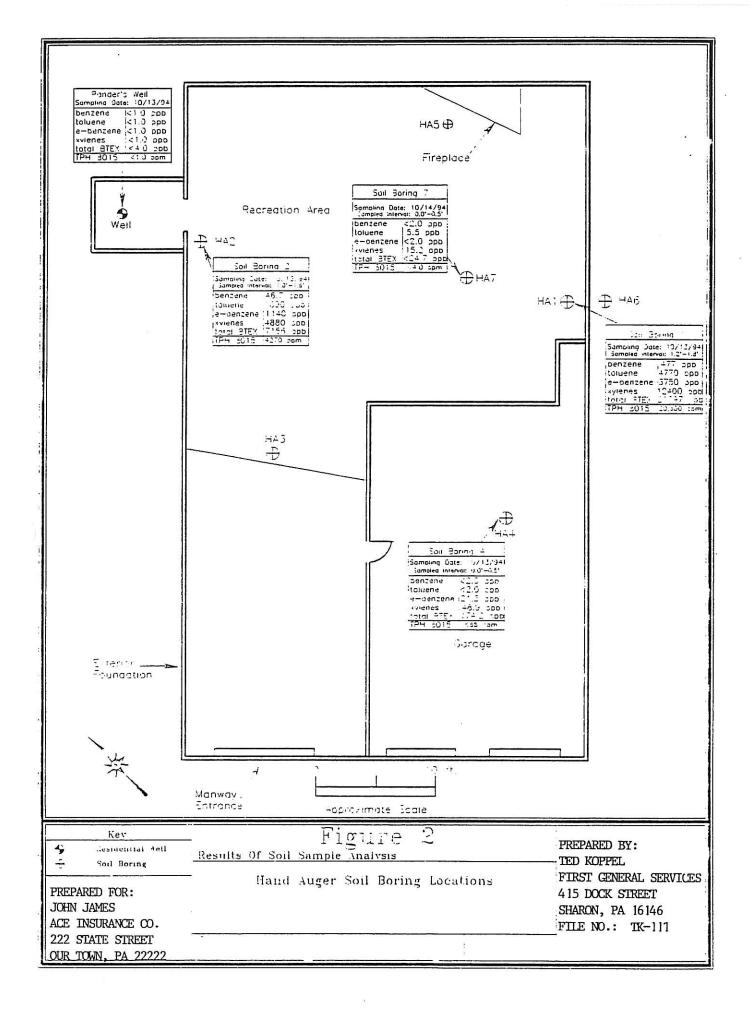
GRAND TOTAL

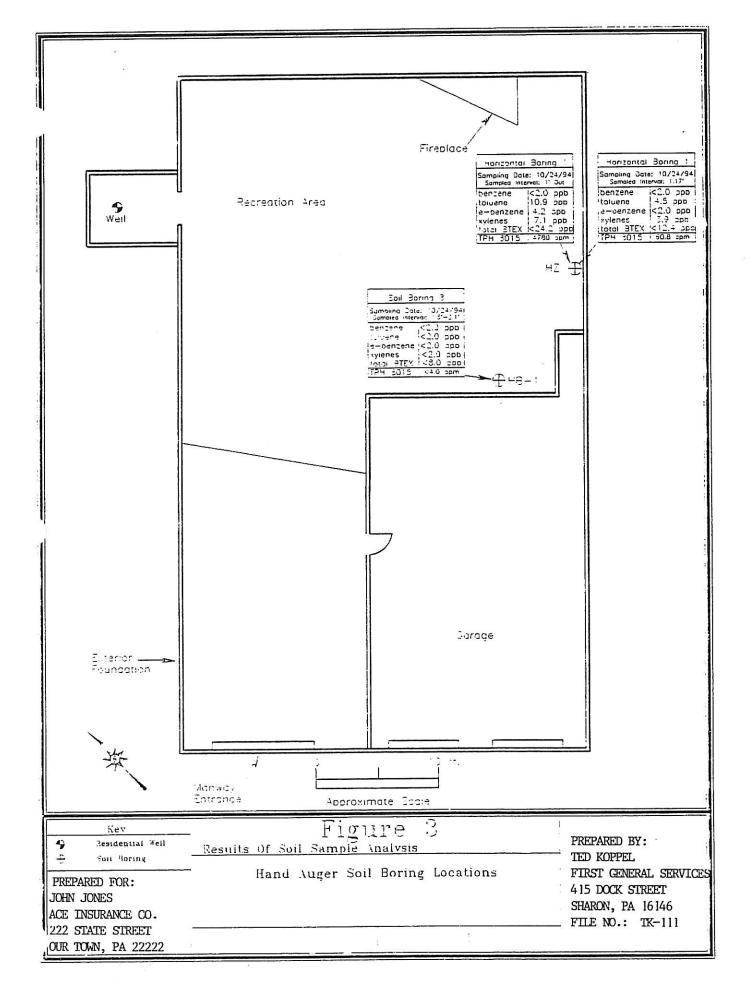
8. PRICE BASIS

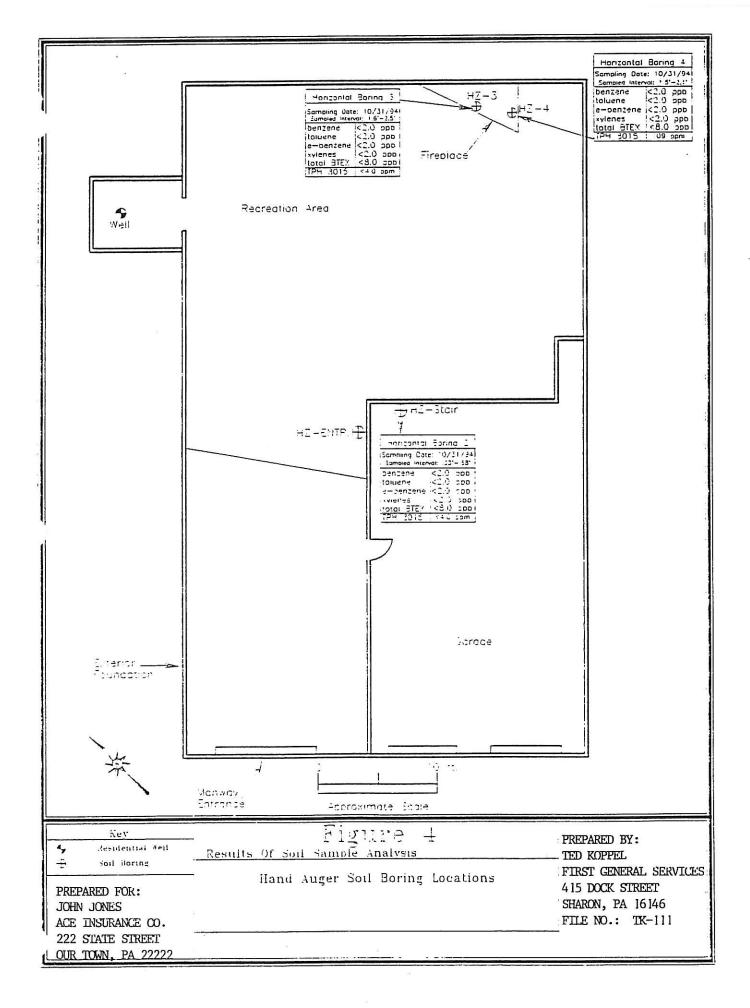
The pricing used in the scope of repairs is based on locally accepted unit of measure prices where available. Special pricing such as equipment rental is at actual cost plus 10% mark-up plus 10% overhead and 10% profit.

9.0 DIAGRAMS AND DOCUMENTS









EGC Project # TRA884.09

Soil Boring	Sample Identification	Sampled Interval	Sample Date	Screening Date	PID Reading ppm
	HA1 - Floorie	vel along the south wall w	here the fuel oil enter	ed the basement	
HA1	HA1	1.25'-1.83'	10/13/94	10/13/94	84*
HA1	HA1	2.0'-3.0'	10/13/94	10/13/94	42
HA1	. HA1	3.0'-4.0'	10/13/94	10/13/94	22
Misso Makes	HA2 - F	loor level next to the south	west entrance to the	vater well	
HA2	HA2	0.0'-0.5'	10/13/94	10/13/94	58
HA2	HA2	0.5'-1.0'	10/13/94	10/13/94	66
HA2	HA2	1.0'-1.5'	10/13/94	10/13/94	122*
HA2	HA2	1.6'-2.3'	10/13/94	10/13/94	36
HA2	HA2	2.3'-2.8'	10/13/94	10/13/94	75
		HA3 - Floor level at th	ne tile/concrete joint		
HA3	НАЗ	0.0'-0.5'	10/13/94	10/13/94	8
НАЗ	НАЗ	0.5'-1.0'	10/13/94	10/13/94	2
EAH	НАЗ	1.0'-1.25'	10/13/94	10/13/94	4
		HA4 - Floor leve	I in the garage		
HA4	HA4	0.0'-0.5'	10/13/94	10/13/94	62*
HA4	HA4	0.5'-1.5'	10/13/94	:0/13/94	3
HA4	HA4	1.5'-2.5'	10/13/94	10/13/94	1
		HA5 - Floor level on the n	orth side of the firepla	ce .	
HA5	HA5	0.0'-0.5'	10/13/94	10/13/94	2
HA5	HA5	0.5'-1.0'	10/13/94	10/13/94	1
HA5	HA5	1.0'-2.0'	10/13/94	10/13/94	•
HA5	HA5	2.0'-2.5'	10/13/94	10/13/94	•
	HA6-	Outside the house adjace	ent to the out of service	e fill pipe:	iaka wa it
HA6	HA6	4.0'-5.0'	10/14/94	10/14/94	ND
HA6	HA6	5.0'-6.0'	10/14/94	10/14/94	6

EGC Project # TRA884.09

Soil Boring	Sample Identification	Sampled interval	Sample Date	Screening Date	PID Reading ppm
	I	IA7 - Floor level ten feet n	orth of the spill locatri	ол	
НА7	HA7	0.0'-0.5'	10/14/94	10/14/94	0.4*
НА7	HA7	0.5'-1.0'	10/14/94	10/14/94	ND
НА7	HA7	1.0'-2.0'	10/14/94	10/14/94	0.2
НА7	на7	2.0'-3.0'	10/24/94	10/14/94	0.2
НА7	HA7	3.0'-4.0'	10/14/94	10/14/94	0.2
	HZ -	Horizontal boring under t	he footer at the spill k	ocation	
HZ	HZ-1	1.0° out	10/24/94	10/24/94	6.2*
HZ	HZ-2	1.17 under	10/24/94	10/24/94	ND*
	HA8 - 1.5° bel	ow floor level at the wall b	etween the garage an	d the basement	
HA8	HB-1	1.5'-2.1'	10/24/94	10/24/94	1.8*
	Н	Z2 - Under stairwell (horiz	ontally) under large r	ock	
HZ2	HZ-Stairs	0.0'-0.17'	10/31/94	10/31/94	40
HZ2	HZ-Stairs	0.17'-0.33'	10/31/94	10/31/94	8.6
HZ2	HZ-Stairs	0.33'-0.58'	10/31/94	10/31/94	3*
		HA9 - Floor level on the	north side of stair case		
HA9	HZ-Entrance	0.0'-0.67'	10/31/94	10/31/94	ND
	HZ3	- Horizontal boring under t	the north side of the fi	replace	
HZ3	HZ-Front Frpi	1,6'-2,5'	10/31/94	10/31/94	∂.3*
		HZ4 - Horizontal bonng	under rear of fireplace	Barrier and the second	1000
HZ4	HZ-Rear Froi	0.7'-1.5'	10/31/94	10/31/94	100
HZ4	HZ-Rear Froi	1.5'-2.1'	10/31/94	10/31/94	9.2*

Notes:

- 1. Bold Italic* denotes sample submitted for laboratory analyses
- 2. Screening conducted with a HNU Systems Model HW-101 portable photoionization detector (PID).
- 3. PID is calibrated to a benzene standard.
- 4. ND indicates no detection by the PID.

Table 2. Summary of Laboratory Analyses of Soil and Drinking Well Samples

EGC Project # TRA884.09

Parameters	Soil Boring HA1	Soil Boring HA2	Soil Boring HA4
BTEX 8020	Interval 1.25'-1.83'	Interval 1.0'-1.6'	Interval 0.0'-0.5'
TPH 8015/DRO	(Sample HA1)	(Sample HA2)	(Sample HA4)
Benzene	0.477 mg/kg	0.0467 mg/kg	<0.002 mg/kg
Toluene	4.770 mg/kg	1.090 mg/kg	<0.002 mg/kg
Ethylbenzene	3.750 mg/kg	1.140 mg/kg	0.0213 mg/kg
Xylenes	12.400 mg/kg	4.880 mg/kg	0.0489 mg/kg
TPH Diesel Range Organics	20600 mg/kg	4720 mg/kg	685 mg/kg
	or summer to a district	Soil Boring HZ1	Soil Boring HZ1
Parameters	Soil Boring HA7	Interval 0.0'-1.0'	Interval 1.0'-1.17'
BTEX:8020	Interval 0.0'-0.5'	(Sample HZ-1)	(Sample HZ-2)
TPH 8015/DRO	(Sample HA7)	<0.002 mg/kg	<0.002 mg/kg
Benzene	<0.002 mg/kg	0.0109 mg/kg	0.0045 mg/kg
Toluene	0.0055 mg/kg	0.0042 mg/kg	<0.002 mg/kg
Ethylbenzene	<0.002 mg/kg	0.0042 mg/kg	0.0039 mg/kg
Xylenes	0.0152 mg/kg	0.007 Filigridg	
TPH Diesel Range Organics	<4.0 mg/kg	4780 mg/kg	60.8 mg/kg
	Soil Boring HA8	Soil Boring HZ2	Soil Boring HZ3
Parameters	Interval 1.5'-2.1'	Interval 0.3'-0.6'	Interval 1.6'-2.5'
BTEX 8020	(Sample HB-1)	(Sample HZ-Stairs)	(Sample HZ- Fr. Frpl
TPH 8015/DRO	<0.002 mg/kg	<0.002 mg/kg	<0.002 mg/kg
Benzene	<0.002 mg/kg	<0.002 mg/kg	<0.002 mg/kg
Toluene	<0.002 mg/kg	<0.002 mg/kg	<0.002 mg/kg
Ethylbenzene	<0.002 mg/kg	<0.002 mg/kg	<0.002 mg/kg
Xylenes TPH Diesel Range organics	<4.0 mg/kg	<4.0 mg/kg	<4.0 mg/kg
Organico			- I
Parameters	Soil Boring HZ4	Caracter Seat of Mark	Water Well
BTEX 8020	Interval 1.5!-2.1!		Grab Sample
TPH 8015/DRO	(Sample HZ-Rear Frpl)		-0.004
Benzene	<0.002 mg/kg	The section	<0.001 mg/L
Toluene	<0.002 mg/kg		
Ethylbenzene	<0.002 mg/kg		<0.001 mg/L
Xvienes	<0.002 mg/kg		<0.001 mg/L
TPH Diesel Range Organics	109.0 mg/kg		< 1.0 mg/L

Notes:

- *. Laboratory Analyses conducted by GeoAnalytical Laboratories, Twinsburg, Ohio.
- 2. Soil borings 1-5 and the water well were sampled on 10/13/94; soil borings 6 and 7 were sampled on 10/14/94.
- 3. Soil borings \pm Z1, \pm HZ2, and \pm HA8 were sampled on 10/24/94.
- 4. Soil borings HZ3, HZ4, and HA9 were sampled on 10/31/94.

acer@xidata/trasbt