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# DEPARTMENT OF ENGINEERING

THOMAS R. FREY COUNTY EXECUTIVE

September 25, 1990

Mr. George Harris
Chief, Remedial Action Section C
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
Room 222
50 Wolf Road
Albany, New York 12233-7010

RE: STATE - MT. HOPE TUNNEL
C-36-745-10
ROCHESTER PURE WATERS DISTRICT

Data from the analysis of liquid, soil and muck samples for the period from July 2, 1990 to July 31, 1990 are enclosed for your information and use. Sincerely,

Philip W. Steinfeldt Associate Engineer

/td Enclosures

cc: Mr. Mike Khalil, DEC, Avon, w/encl.
Mr. Jim Smith, H & A of New York

PROJECT: STATE ST. - MT. HOPE TUNNEL **DATE: 2 July 1990** 

Rochester, New York

1 of 2 PAGE:

7433-82

STV/Seelye Stevenson Value & CLIENT:

FILE:

Knecht

GCF Constructors CONTRACTOR:

Partly sunny 750 WEATHER:

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Performed headspace screening on sample SM27/1720, collected on 28 June 1990, and sample SM27/1650 collected on 29 June 1990, using a Hewlett Packard 5890 Series II gas chromatograph.

No samples were obtained from Sites 15, 27, or 28 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

Results of headspace screening conducted on sample SM27/1650 indicate unknown compounds at an apparent concentration of 33.59 ppm (calculated as toluene equivalents). Based on comparison of the sample chromatogram with previous muck headspace chromatograms and associated muck analyses by General Testing Corporation, it appears that the detected unknowns consist of a group of compounds routinely observed in previous tunnel muck analyses. Further, the majority of the unknown peak area falls into the elution range of hydrogen sulfide and methane.

STATE ST. - MT. HOPE TUNNEL DATE: 2 July 1990 Rochester, New York PAGE: 2 of 2 PROJECT:

Rochester, New York

PAGE:

CLIENT:

STV/Seelye Stevenson Value &

FILE:

2 of 2 7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1010-1025 (0.25 hrs.) 0800-1010 1025-1215

(4.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

1&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: --

END: -

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 2 July 1990

SHIFT: Day DFR NO.: 93

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_	_	_	-	_	_	'	_	-	_	_	-
	_	_	_			_	_	-	_	_	_	-
	_					_	_	_		_		=:
	_	_		_	_	_	_	_	_	_	_	_
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	_	_	_	_	_	_	_	_	_	_	_	_

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1650**	_			0.21	0.50	_		0.04	0.28	0.24	33.59	34.86
SM27/1720**		_			0.08			_	0.09	0.20	16.34	16.71
								A				

No samples were obtained from Sites 19	5 27 or 28 as no drop	shaft excavation was performed	
140 Samples were obtained from Oiles 1.	5, 27, 67 20 as 110 drop	Shart excavation was performed.	
	<u> </u>		
		P.	
		1 24-7	

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (\*\*) INDICATES SAMPLES WERE COLLECTED ON PREVIOUS DATES AS FOLLOWS:

SM27/1650 - 29 JUNE 1990

SM27/1720 -28 JUNE 1990

PROJECT: STATE ST. - MT. HOPE TUNNEL

**DATE:** 3 July 1990

Rochester, New York

**PAGE:** 1 of 2

CLIENT: STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER: Sunny 750

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27 and performed headspace screening using the Photovac 10s50 gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

## TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

PROJECT: STATE ST. - MT. HOPE TUNNEL

Rochester, New York

**DATE:** 3 July 1990 PAGE: 2 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE 0800-0930

PROCESSING TIME

0930-1145

(1.5 hrs.)

(2.25 hrs.)

## DISTRIBUTION

S. Parker

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: --

END: --ADVANCE: ---

FILE: 7433-82

PAGE: 1 OF 2

DATE: 3 July 1990

SHIFT: Day DFR NO.: 94

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS.					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
	_	_	_	_	_		_	-				_
	_	_		_			_		_		1	
	_	_	_			-	_	_	_	-		_
	_	_	_	_					_		_	_
	_	_		_			_	-	_	_	_	
	-	_			_	-	_	-	_	_	_	
	1		_			_	_	_		_	_	<u> </u>
	-		_						_			_
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	_		_	_	_	_	_	_	_	_	_	_
			_	_	_	_	_	_	_	_	_	

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

BAMPLETYPE			TARGET COM	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/0810		-		-	0.05			0.01	0.24	3.09	5.07	8.46
									14			
		1										
		7. (										

Collected sample of muck excav	vated from the 12-ft. diameter drop s	structure at Site 27 at 0810	hrs.
0			
Sample obtained from stockpile	adjacent to the structure. Excavatio	n advanced to approximate	ly 76 ft.
below ground surface at the time	a of samoling		
policial ground contact at the time	o o o o o o o o o o o o o o o o o o o		
No samples were obtained from	Sites 15 and 28 as no drop shaft ex	cavation was performed.	
		1	
		, v	

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK
TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

**DATE:** 5 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value & PAGE: 1 of 2

7433-82

FILE:

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Sunny 750

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Obtained samples of muck excavated from the 12-ft. diameter drop structure at Site 27 and from the 14-ft. diameter structure at Site 28, and performed headspace screening using the Photovac 10s70 gas chromatograph.

No samples were obtained from Site 15 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

STATE ST. - MT. HOPE TUNNEL DATE: 5 July 1990
Rochester, New York PAGE: 2 of 2 PROJECT:

Rochester, New York

2 of 2 PAGE: FILE: 7433-82

CLIENT: STV/Seelye Stevenson Value &

Knecht

FIELD REPRESENTATIVE S. Parker

TIME ON SITE 0830-0945 (1.25 hrs.)

PROCESSING TIME 945-1215

1245-1330 (3.25 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

Mr. Phil Steinfeldt

H&A/of New York

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: -

END: --

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 5 July 1990

SHIFT: Day

DFR NO.: 95

### **TUNNEL AIR SAMPLES**

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
			_				_	_		_	_	-
				_	_	_	_		_	_		_
			_	_	_	_	_	_	_	_		_
			-	_		_	_	_		_ 3	_	_
	_		_	_				-			_	-
		_			_	_		_		_	_	_
		_				_	<u> </u>	-		_	_	
			_	_	_	_	_	_	_	_	_	_
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	_	_	_	_	_	_	_	_	_	1	_	

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

## APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/0845				_					_	_	0.65	0.65
SM28/0940	_	_			_	_	_				0.01	0.01
								* 11				
						-17						

MAI	RKS/ VISITORS:
	Collected sample of muck excavated from the 12-ft. diameter drop structure at Site 27 at 0845 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 75 ft.
	below ground surface at the time of sampling.
	Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 0940 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately 104 ft.
	below ground surface at the time of sampling.
	No samples were obtained from Site 15 as no drop shaft excavation was performed.

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT: STATE ST. - MT. HOPE TUNNEL

**DATE:** 6 July 1990

Rochester, New York

PAGE: 1 of 2

CLIENT: STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER: Partly Cloudy 75°

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27, and performed headspace screening using the Photovac 10s70 gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

STATE ST. - MT. HOPE TUNNEL PROJECT:

Rochester, New York

**DATE:** 6 July 1990 PAGE: 2 of 2

STV/Seelye Stevenson Value & CLIENT:

FILE:

7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1245-1330 (0.75 hrs.)

0800-0845 1330-1545

1630-1645

(3.25 hrs.)

### DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: S. Parker

HECKED BY: S. Parker

START: -

FILE: 7433-82

TUNNEL HEADINGS AT

PAGE: 1 OF 2

END: -

DATE: 6 July 1990 SHIFT: Day

ADVANCE: --

DFR NO .: 96

#### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS		·	
	CHLORIDE	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	DETECTED
		_		_		_			_		_	-
		-		_			_		_	_	_	-
					_	_	_	_				_
	_					_	_	_		_	_	_
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	_	_	-			_	_	_		_		

## TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLETYPE			TARGET COM	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1305	_	,	_		0.02			_	0.02	0.01	0.37	0.42

REMARKS/ VISITOR:	S:			
Collected s	sample of muck excavated from the	12-ft. diameter drop structu	re at Site 27 at 1305 hrs.	
Sample ob	stained from stockpile adjacent to th	e structure. Excavation adva	nced to approximately 77 ft.	
below grou	and surface at the time of sampling.			
No sample	s were obtained from Sites 15 and 2	28 as no drop shaft excavation	on was performed.	
			No.	

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

**DATE:** 9 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value &

PAGE: 1 of 1 FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Cloudy 700

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

## FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27 and 28 as no drop shaft excavation was performed.

No headspace screening was performed, and no Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1515-1545 (0.5 hrs.)

1400-1515 1545-1645

(1.75 hrs.)

### DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

STATE ST. - MT. HOPE TUNNEL PROJECT:

**DATE:** 10 July 190

Rochester, New York

1 of 1 PAGE: FILE: 7433-82

STV/Seelye Stevenson Value & Knecht

GCF Constructors CONTRACTOR:

WEATHER:

CLIENT:

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

## FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27, and 28 as no excavation was performed.

No headspace screening was performed, and no Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1600-1630 (0.5 hrs.)

1515-1600 1630-1645

(1.0 hrs.)

### DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

Mr. Phil Steinfeldt

H&A of New York

PROJECT: STATE ST. - MT. HOPE TUNNEL **DATE:** 11 July 190

Rochester, New York

1 of 2

CLIENT:

STV/Seelye Stevenson Value &

PAGE: FILE: 7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER:

800 Sunny

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

## FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of soil excavated from the overflow/weir structure at Site 15, and performed headspace screening using the Hewlett Packard 5890 Series II gas chromatograph.

No samples were obtained from Sites 27 or 28 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

STATE ST. - MT. HOPE TUNNEL DATE: 11 July 1990 Rochester, New York PAGE: 2 of 2 PROJECT:

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1415-1500 (0.75 hrs.)

1345-1415 1500-1630

(2.0 hrs.)

## DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

& REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: --

END: --

ADVANCE: -

DATE

DATE: 11 July 1990 SHIFT: Day

FILE: 7433-82

PAGE: 1 OF 2

DFR NO.: 99

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_			_	_	_		_	_	_	_	_
	_					_		_	_	_	_	_
	_	_	_		_		_	1	-	_	_	-
	-	_	_	_			_	-	_			
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		_	_		_	_		:	_	_		-
			_		_	_		_	_	_		_

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

## APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS"	TOTAL DETECTED
SM15/1435	_		_	_	_	_				_		_
										,		

imple of muck excavated from the overflow/weir structure	at Site 15 at 1435 hrs.	
Collected sample of muck excavated from the overflow/weir structure at Site 15 at 1435 hrs.  Sample obtained from stockpile after materials were hauled to Site 41. The excavation was  advanced to approximately 16 ft. below ground surface at the time of sampling. Sample consisted  of fill visually classified as brown silty coarse to fine SAND, trace brick.  No samples were obtained from Sites 27 and 28 as no drop shaft excavation was performed.		
approximately 16 ft. below ground surface at the time of	sampling. Sample consisted	
y classified as brown silty coarse to fine SAND, trace brick	k.	
were obtained from Sites 27 and 28 as no drop shaft exca	avation was performed.	
	ained from stockpile after materials were hauled to Site 4 approximately 16 ft. below ground surface at the time of y classified as brown silty coarse to fine SAND, trace brice	ample of muck excavated from the overflow/weir structure at Site 15 at 1435 hrs.  ained from stockpile after materials were hauled to Site 41. The excavation was  approximately 16 ft. below ground surface at the time of sampling. Sample consisted  y classified as brown silty coarse to fine SAND, trace brick.

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

STATE ST. - MT. HOPE TUNNEL DATE: 12 July 1990 PROJECT:

Rochester, New York

PAGE: 1 of 1

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER:

Partly cloudy 750

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27, and 28 as no drop shaft excavation was performed.

No headspace screening was performed, and no Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

S. Parker

1515-1600 (0.75 hrs.)

### DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT: STATE ST. - MT. HOPE TUNNEL

DATE: 13 July 1990

Rochester, New York

**PAGE:** 1 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

\_\_

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the overflow/weir structure at Site 28 and sample of soil excavated from the overflow/weir structure at Site 15, and performed headspace screening using the Hewlett Packard 5890 Series II gas chromatograph.

No samples were obtained from Site 27 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

PROJECT:

STATE ST. - MT. HOPE TUNNEL DATE: 13 July 1990 Rochester, New York PAGE: 2 of 2 Rochester, New York

STV/Seelye Stevenson Value & FILE: CLIENT:

7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE PROCESSING TIME

S. Parker

0815-0845 1045-1100 1400-1650 (2.5 hrs.)

1330-1400 (1.25 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

'ROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

1&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

**TUNNEL HEADINGS AT** 

START: -

END: -ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 13 July 1990

SHIFT: Day DFR NO.: 101

### **TUNNEL AIR SAMPLES**

## APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_			_	_	_	_	-		_		_
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	_	_			_	_	_	-		_	_	_
		_ 1	_			_	_		_	_	_	
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	_	_	_	_	_	_	_	_	_	_	_	

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

## APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

BAMPLE TYPE			TARGET COM	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM15/1050	_	_		-	_	_	_	_			0.14	0.14
SM28/1330	_	_	_	_	_		_	1	_		0.71	0.71
												rajvi ya. masharta
					t te							

(S/ VISITORS:	
Collected sample of soil excavated from	rom the overflow/weir structure at Site 15 at 1050 hrs.
Sample obtained from stockpile after	r materials were hauled to Site 41. Excavation advanced
to approximately 21 ft. below ground	surface at the time of sampling. Sample consisted of fill
visually classified as brown silty coars	rse to fine SAND, trace brick particles.
Collected sample of muck excavated	d from the overflow/weir structure at Site 28 at 1330 hrs.
Sample obtained from stockpile adjace	acent to the structure. Excavation advanced to approximately
51 ft. below ground surface at the tim	ne of sampling.
No sample was obtained from Site 27	7 as no drop shaft excavation was performed.

### ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT: STATE ST. - MT. HOPE TUNNEL

DATE: 16 July 1990

Rochester, New York

PAGE: 1 of 2

CLIENT: STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER: --

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27 and from the 14-ft. diameter drop structure at Site 28, and performed headspace screening using the Hewlett Packard 5890 Series II gas chromatograph.

No sample was obtained from Site 15 as no drop shaft excavation was performed.

## TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

PROJECT: STATE ST. - MT. HOPE TUNNEL

Rochester, New York

CLIENT:

STV/Seelye Stevenson Value & FILE:

Knecht

DATE: 16 July 1990

PAGE: 2 of 2

7433-82

FIELD REPRESENTATIVE

TIME ON SITE 0800-0815

PROCESSING TIME

0900-0930

1115-1200 1400-1745

(0.75 hrs.)

(4.5 hrs.)

**DISTRIBUTION** 

S. Parker

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

**TUNNEL HEADINGS AT** 

START: -

END: -ADVANCE: --

PAGE: 1 OF 2

DATE: 16 July 1990

SHIFT: Day

DFR NO.: 102

FILE: 7433-82

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE . (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
						_		_	_			_
				_	_		_		_	_	_	_
		_	_	_	_	_		_	-	_	_	_
		_	_		_	_	_			_	_	_
	_	_	_	_		_		_		_		
	_	_	_	_	_	_	_	_	_	_	_	_
					_			_	-	_	_	
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		_	_	_	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_

## TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPN

BAMPLE TYPE			TARGET COM	POUNDS								
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE				M-XYLENE	STYRENE	UNKNOWNS*	
SM28/0800		_			_			-	-		0.62	0.62
SM27/0900			_		_		_	_	_		0.43	
				~								

KS/ VISITORS:	
Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 28 at 0800 hrs.	
Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately	
106 ft. below ground surface at the time of sampling.	
Collected sample of muck excavated from the 12-ft. diameter drop structure at Site 27 at 0900 hrs.	
Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately	1
85 ft. below ground surface at the time of sampling.	

ABBREVIATIONS:

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

NOTES:

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT: STATE ST. - MT. HOPE TUNNEL DATE: 17 July 1990

Rochester, New York

1 of 2 PAGE: STV/Seelye Stevenson Value & FILE: 7433-82

Knecht

GCF Constructors CONTRACTOR:

Partly cloudy 800 WEATHER:

### CONTRACTOR ACTIVITIES:

CLIENT:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

## FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27 and sample of soil excavated from the overflow/weir structure at Site 15, and performed headspace screening using the Hewlett Packard 5890 Series II gas chromatograph.

No samples were obtained from Site 28 as no drop shaft excavation was performed.

## TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

PROJECT: STATE ST. - MT. HOPE TUNNEL DATE: 17 July 1990 Rochester, New York PAGE: 2 of 2

CLIENT:

STV/Seelye Stevenson Value & FILE:

7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE 0800-0900

PROCESSING TIME 0900-1015

S. Parker

(1.0 hrs.)

1230-1500 (3.75 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

'ROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

1&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: -

END: --

ADVANCE: -

FILE: 7433-82

PAGE: 1 OF 2 DATE: 17 July 1990

SHIFT: Day

DFR NO.: 103

### TUNNEL AIR SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
			-	_	P			_	_		_	
						_	_			_	_	_
		_	_		_		-	_	- 0	_	_	-
	_	_	_		_	_	_				_	_
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## TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

BAMPLETYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS"	TOTAL DETECTED
SM27/0825		_			_	-	_			_	0.84	0.84
SM15/0855	-				_	_				_	0.26	0.26
									134			
						10.						
									H = = \$			

	ARKS/ VISITORS:
	Collected sample of muck excavated from the 12-ft. diameter drop structure at Site 27 at 0825 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately
	87 ft. below ground surface at the time of sampling.
	Collected sample of muck excavated from the overflow/weir structure at Site 15 at 0855 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately
	22 ft. below ground surface at the time of sampling. Sample consisted of fill visually classified as
	brown silty coarse to fine SAND, trace brick.
_	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

**DATE:** 18 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value & **PAGE:** 1 of 2

LIENI. SIV

Knecht

FILE: 7433-82

CONTRACTOR:

GCF Constructors

WEATHER:

Sunny 750

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27, and performed headspace screening using the Hewlett Packard 5890 Series II gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

REPORT NO. 104

PROJECT: ST

STATE ST. - MT. HOPE TUNNEL

**DATE:** 18 July 1990

Rochester, New York

PAGE: 2 of 2

CLIENT: STV/Seelye Stevenson Value &

Knecht

**FILE:** 7433-82

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1300-1345 (0.75 hrs.)

1345-1400 1530-1730

(2.25 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

1&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: --

END: --

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 18 July 1990

SHIFT: Day

DFR NO.: 104

### **TUNNEL AIR SAMPLES**

# APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_		_	_				_				_
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	_	_		_	_	_	_	_	_	_	_	
			_		_		_	_		_	_	

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPA

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	O-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1300		_	_	0.03	0.03	_			0.04		1.54	1.64

REMARK	(S/ VISITORS:						
	Collected sar	mple of muck excavated fro	m the 12-ft. di	ameter drop	structure at Site	27 at 1300 hrs.	
	Sample obtai	ned from stockpile adjacen	t to the structu	re. Excavat	ion advanced to a	approximately	
	90 ft. below g	round surface at the time o	f sampling.				
	Y						
	No samples v	were obtained from Sites 15	and 28 as no	drop shaft e	excavation was pe	erformed.	
		. 11					
18.							
							N <sub>2</sub>
			h .	,			
ABBREVIAT	TIONS: SA	MPLE TYPE:					
		TM TUNNEL MUCK					

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

**DATE:** 19 July 1990

CLIENT:

Rochester, New York

1 of 1 PAGE:

STV/Seelye Stevenson Value &

FILE:

7433-82

CONTRACTOR:

Knecht GCF Constructors

WEATHER:

Sunny 80°

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27 at 1815 hrs. The sample was obtained from the stockpile adjacent to the structure. The excavation was advanced to approximately 90 ft. below ground surface at the time of sampling.

Headspace screening of this sample will be performed on 20 July 1990.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

No Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

S. Parker

1730-1830 (1.0 hrs.)

#### DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 20 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value &

PAGE: 1 of 1 FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Rain 750

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

#### FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27, and 28 as no drop shaft excavation was performed.

Performed headspace screening on sample SM27/1815, collected on 19 July 1990, using the Hewlett Packard 5890 Series II gas chromatograph.

### TEST DATA SUMMARY

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

0630-0700 1530-1630

0700-0730 (0.5 hrs.)

(1.5 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

Mr. Phil Steinfeldt

H & A OF NEW YORK ROCHESTER, NEW YORK

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: -

END: —
ADVANCE: —

FILE: 7433-82

PAGE: 1 OF 2

DATE: 20 July 1990

SHIFT: Day DFR NO.: 106

### **TUNNEL AIR SAMPLES**

# APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE .	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_	_	_			_		_	_	_	_	_ =
		_	_				_			_	_	_
		_		_		_	_	_	_	_	_	
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	_		-	_	_	_	_	_	_	_	_	
	_	_	_	_	_	_		_	_	_	_	

### TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET CON	IPOUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1815**	_	_	_	0.02	0.11	_		_	_		1.60	1.73
										-		
	Is.										h.,	
												t of Too Tee Year of Too Tee Year of Too Tee Year

ARKS/ VISITORS:	****			
No samples were obtained from Sites 15, 27, and	d 28 as no drop shaft excavation	on was performed.		
			****	
		-		
				***************************************

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (\*\*) INDICATES SAMPLE WAS COLLECTED ON 19 JULY 1990.

PROJECT: STATE ST. - MT. HOPE TUNNEL DATE: 23 July 1990

Rochester, New York

PAGE: 1 of 1

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Partly cloudy 800

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27 at 1800 hrs. The sample was obtained from the stockpile adjacent to the structure. The excavation was advanced to approximately 92 ft. below ground surface at the time of sampling.

Headspace screening will be performed on 24 July 1990.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

No Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

S. Parker

1815-1900 (0.75 hrs.)

# DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT: STATE ST. - MT. HOPE TUNNEL

DATE: 24 July 1990

Rochester, New York

PAGE: 1 of 1

CLIENT:

STV/Seelye Stevenson Value &

FILE:

7433-82

CONTRACTOR:

GCF Constructors

Knecht

WEATHER:

Sunny 850

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Performed headspace screening on sample SM27/1800, collected on 23 July 1990, using the Photovac 10s50 gas chromatograph.

No samples were obtained from Sites 15, 27 or 28 as no drop shaft excavation was performed.

# TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

FIELD REPRESENTATIVE TIME ON SITE PROCESSING TIME

S. Parker 1645-1730 1230-1330 (0.75 hrs.) (1.0 hrs.)

DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

H&A of New York

H & A OF NEW YORK ROCHESTER, NEW YORK

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

**TUNNEL HEADINGS AT** 

START: -

END: --

ADVANCE: -

FILE: 7433-82

PAGE: 1 OF 2

DATE: 24 July 1990

SHIFT: Day

DFR NO.: 108

# TUNNEL AIR SAMPLES

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS.	TOTAL
	_	_	_		_	_		_	_	_	_	1
			_	_		_ 1	_	_	-	_	_	-
	_			_	-	_	_			_	-	ı
	-			_		_				_	_	1
	_	_	_			_	_	_	-	_	_	_
			_	_	_	_		_	_	_	_	_
	_		_	-	_	, <b>-</b> h			_	_	_	_
	_	_	_		_				_	_	_	
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	-	_	_	_	_	_	_			_	_	
	_		_	_		_	_	_	_	_	_	_
			_	_			_		_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_
	_	_		_	_	_		_	_	_		_
	_	_	_	_	_	_	_	-	_		_	
	-	_	_	_	_	_	_	_				

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

# APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	, ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1800**	_	_	_	_	-	-			_	_	2.08	2.08
						- 1 <sup>30</sup>						

REMAR	RKS/ VISITORS:							
		,				×		
		7 12						
			0.1					
	·			/ N =				
							·	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- 2. COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (\*\*) INDICATES SAMPLE WAS COLLECTED ON 23 JULY 1990.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 25 July 1990

Rochester, New York

PAGE: 1 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Sunny 800

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27, and performed headspace screening using the Photovac 10s50 gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

# TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

# REPORT NO. 109

PROJECT:

STATE ST. - MT. HOPE TUNNEL

**DATE:** 25 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value & FILE:

2 of 2 PAGE: 7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1845-1900 (0.25 hrs.)

1800-1845 1900-1945

(1.5 hrs.)

# DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

**TUNNEL HEADINGS AT** 

START: -

END: -

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 25 July 1990

SHIFT: Day

DFR NO.: 109

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET CON	IPOUNDS					OTHERS			•
	VINYL	METHYLENE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_	_	_	_	_	_		_	_	_	_	_
		_						_	_	_	_	_
		_	_		_		_	_		_	_	_
		_		_		_	_	_	_		_	_
		_	_			_	_		_	_	_	_
			_		_	_		_	_		_	_
										_	_	
			_	_	_		_		_	_	_	_
	-		_	_	_	_		_	_	_		-
		_		_	_	_	_		_	_		_
		_	_	_		_	_	_	_	_	-	-
	_		_			_	_		_	·-	_	_
	_				_	_		_	_		_	-
	-	_	_	-		_	_	_	_	_	_	-
		_	_	_	_	_	_	_	<u>_</u>	_	_	_
	_	_	_	_	_	_			-	_	_	_

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPI

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
SM27/1550	_	_		_					_		0.04	0.04
					1							
										4		
										-1		

REMAR	KS/ VISITORS:
	Collected sample of muck excavated from the 14-ft. diameter drop structure at Site 27 at 1550 hrs.
	Sample obtained from stockpile adjacent to the structure. Excavation advanced to approximately
	95 ft. below ground surface at the time of sampling.
-	
ABBREVIA	TIONS: SAMPLE TYPE:
ADDITEVIA	TM TUNNEL MUCK
	TS TUNNEL SEEP
	SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT: STATE ST. - MT. HOPE TUNNEL

**DATE:** 26 July 1990

Rochester, New York

PAGE: 1 of 2

STV/Seelye Stevenson Value &

**FILE:** 7433-82

Knecht

CONTRACTOR: GCF Constructors

WEATHER: Sunny 80°

CLIENT:

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 27 and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27, and 28 as no drop shaft excavation was performed.

Collected tunnel seep samples from Station 69+74 for laboratory testing and performed headspace analysis on one sample using the Photovac 10s50 gas chromatograph. Delivered remaining samples to General Testing Company for analysis for volatile and semi-volatile target compounds referenced in the 1 March 1990 workplan and for evaluation of corrosion potential.

# TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

# REPORT NO. 110

STATE ST. - MT. HOPE TUNNEL PROJECT: **DATE:** 26 July 1990

Rochester, New York 2 of 2 PAGE:

CLIENT: STV/Seelye Stevenson Value & FILE: 7433-82

Knecht

FIELD REPRESENTATIVE	TIME ON SITE	PROCESSING TIME
S. Parker	1300-1415	1030-1200
	1445-1645	1645-1745
	(3.25 hrs.)	(2.5 hrs.)
F. Amos	1445-1615	1630-1700
	(1.5 hrs.)	(0.5 hrs.)

# **DISTRIBUTION**

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE: Mr. Phil Steinfeldt

PROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: -

END: --

ADVANCE: --

FILE: 7433-82

PAGE: 1 OF 2

DATE: 26 July 1990

SHIFT: Day DFR NO.: 110

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	IPOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
		_		_	_	_		_	_	_		-
			-	_	_	_	_		_	_		-
			~								_	-
		_		_		_	_	_	_	_	_	_
	_		_			_		_	_	_	_	_
	_			_		_		_		_	_	_
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	_	_		_	_	_	_		_	_	_	
		_			_	_	_	_	_	_	_	_
	_	_		_	_	_	_		_	_	_	
	_	_			_	_	_	1/2	_	_	_	_
	_	_		_	_		_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_
		_	_	_	_	_	_	_	_	_	_	

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

SAMPLE TYPE			TARGET COM	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
TS/1535	_	_		_		_			_	_	0.025	0.025
										- %		
											7.17	
											1	

Collected tunnel seep samples at Station 69	+ 74 R at 1535 hrs. Sample colle	cted from	
lower quarterpoint fracture on tunnel wall, ar	nd consisted of clear, colorless gr	oundwater.	
	<u> </u>		
Performed headspace screening on one same	nple, and submitted remaining sa	mples to General	
Testing Company for analysis of volatile and	semi-volatile target compounds,	and for	
evaluation of corrosion potential.			

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.
- 3. (\*\*) HYDROGEN SULFIDE BELIEVED TO BE PRESENT BASED ON RETENTION TIME OF CHROMATOGRAM PEAK.
  RESULT NOT QUANTIFIED DUE TO LACK OF AQUEOUS STANDARD AT TIME OF SAMPLE SCREENING.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 27 July 1990

CLIENT:

Rochester, New York STV/Seelye Stevenson Value & PAGE: 1 of 1 FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Sunny 850

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

### FIELD REPRESENTATIVE ACTIVITIES:

No samples were obtained from Sites 15, 27, and 28 as no drop shaft excavation was performed, and no headspace screening was performed.

No Shift Data Tables were prepared.

FIELD REPRESENTATIVE

TIME ON SITE

S. Parker

1415-1500 (0.75 hrs.)

# DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

**PROJECT:** STATE ST. - MT. HOPE TUNNEL

DATE: 30 July 1990

Rochester, New York

PAGE: 1 of 2

CLIENT:

STV/Seelye Stevenson Value &

FILE: 7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Cloudy 750

# CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27, and performed headspace screening using the Photovac 10s50 gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

# TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

# REPORT NO. 112

PROJECT: STATE ST. - MT. HOPE TUNNEL DATE: 30 July 1990 Rochester, New York PAGE: 2 of 2 CLIENT: STV/Seelye Stevenson Value & FILE: 7433-82

Knecht

FIELD REPRESENTATIVE

TIME ON SITE

PROCESSING TIME

S. Parker

1400-1445

0800-1145 1215-1400

(0.75 hrs.)

1445-1630

(7.25 hrs.)

# DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:

ROJECT: STATE ST. MT. HOPE AVE TUNNEL

LIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

i&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

TUNNEL HEADINGS AT

START: -

END: --ADVANCE: ---

FILE: 7433-82

PAGE: 1 OF 2

DATE: 30 July 1990

SHIFT: Day

DFR NO.: 112

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	APOUNDS					OTHERS			
	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL
						_	_	_		_	-	-
					_	_	_	1	_	1		_
	_				_	_	_	-	_	-		_
		_	_		_	_	-	-				_
			_	_	_	_	_	_		-		_
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			_				_	_	_	_	_	_
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	_	1 _	_	_	-	_	_	_	_	_	_	
	_	- I	_	_	_	_	_		_	_	_	_
	_	_		_	_	_	_		_	_	_	_
	_	_	_		_	_	_	_	_			

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

# APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

BAMPLETYPE			TARGET COM	IPOUNDS		OTHERS						
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	O-XYLENE	UNKNOWNS*	TOTAL DETECTED
SM27/1445		_		_	_			_	0.03	0.02	0.53	0.58
							-1					
						2.76						

REMAR	RKS/ VISITORS:			4.		
*****	Collected samp	ole of muck excavated from	the 12-ft. diameter	drop structure at Sit	e 27 at 1445 hrs.	
	Sample obtaine	ed from stockpile adjacent	to the structure. Exc	avation advanced to	approximately	
	96 ft. below gro	ound surface at the time of	sampling.			
				. 1		
					4-1-1	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.

PROJECT:

STATE ST. - MT. HOPE TUNNEL

DATE: 31 July 1990

CLIENT:

Rochester, New York

PAGE: 1 of 2

STV/Seelye Stevenson Value &

FILE:

7433-82

Knecht

CONTRACTOR:

GCF Constructors

WEATHER:

Sunny 750

### CONTRACTOR ACTIVITIES:

Continued work on surface structures and/or drop structures at Sites 15, 27, and 28.

# FIELD REPRESENTATIVE ACTIVITIES:

Obtained sample of muck excavated from the 12-ft. diameter drop structure at Site 27, and performed headspace screening using the Photovac 10s50 gas chromatograph.

No samples were obtained from Sites 15 and 28 as no drop shaft excavation was performed.

### TEST DATA SUMMARY:

None of the action threshold levels for the targeted compounds referenced in the 1 March 1990 workplan (benzene, toluene, 1,2-DCE, methylene chloride, and vinyl chloride) were exceeded during the monitoring period.

Headspace screening data are summarized on the attached Shift Data Table.

# REPORT NO. 113

PROJECT:

STATE ST. - MT. HOPE TUNNEL DATE: 31 July 1990

Rochester, New York

CLIENT:

STV/Seelye Stevenson Value & FILE:

Knecht

2 of 2 PAGE:

7433-82

FIELD REPRESENTATIVE

S. Parker

TIME ON SITE

1230-1330 (0.5 hrs.)

PROCESSING TIME

1300-1530 (2.5 hrs.)

# DISTRIBUTION

STV/Seelye Stevenson: Mr. Richard Richter

Mr. Suki Suresh

MCDOE:



'ROJECT: STATE ST. MT. HOPE AVE TUNNEL

CLIENT: STV/ SEELYE STEVENSON VALUE & KNECHT

H&A REPRESENTATIVE: S. Parker

CHECKED BY: S. Parker

**TUNNEL HEADINGS AT** 

START: --

END: -

ADVANCE: -

FILE: 7433-82

PAGE: 1 OF 2

DATE: 31 July 1990

SHIFT: Day DFR NO.: 113

### **TUNNEL AIR SAMPLES**

### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

TIME			TARGET COM	POUNDS					OTHERS			
	CHLORIDE	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
	_	_	_		_	_		-	_	_	_	_
	_	-	_	_		_		_	_		_	-
	_			_		_	_	-	_		_	_
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	_	_		_	_	_		_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	
			_			_		_	_	_	_	_
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			_	_	_	_	_	_	_	_		_
	_	_	_	_	_	_	_	_	_	_	_	_
	_	_		_	_	_	_	_	_	_	_	_
	_	_	_	_	_		_	_	_	_	_	_
	_	_	-	_		_	_	_	_	_	_	_

# TUNNEL MUCK/ SHAFT/ GROUNDWATER SAMPLES

#### APPARENT VOLATILE ORGANIC COMPOUNDS DETECTED IN PPM

SAMPLE TYPE			TARGET CON	POUNDS					OTHERS			
TIME	VINYL	METHYLENE CHLORIDE	1,2-DCE	BENZENE	TOLUENE	METHANE (PERCENT)	HYDROGEN SULFIDE	ETHYL BENZENE	M-XYLENE	STYRENE	UNKNOWNS*	TOTAL DETECTED
SM27/1235		_			_		_		_	_	0.15	0.15
		17. 4										

 Collected sample of muck excavated from the over	er now/bypass	Conduit Si	indicture at Sit	5 27 at 1255 ms.	
Sample obtained from stockpile adjacent to Cont	rol Structure 4	1. Excava	ation advance	to approximately 33	ft. below
ground surface at the time of sampling. Sample of	consisted of fil	l visually o	classified as b	rown	
silty coarse to fine SAND, little clay.					
				3	

SAMPLE TYPE:

TM TUNNEL MUCK

TS TUNNEL SEEP

SM# SHAFT SOIL OR MUCK FROM SITE 15, 27, OR 28

- 1. (\*) UNIDENTIFIED CHROMATOGRAM PEAKS EXPRESSED IN TOLUENE EQUIVALENTS.
- COMPOUNDS LESS THAN 10 PPB NOT REPORTED.