City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

July 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 1

Dear Mr. Cafe:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing a report documenting the progress of the Court Street Parking Garage Site IRM. Hereafter, progress reports will be forwarded on a monthly basis through the end of the project.

I can be reached at 428-5978 if you have any questions. Thank you for you cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
July 8, 1994

Progress Report No. 1
Work Completed Through June 30, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

In accordance with the approved work plan, Phase I soil removal activities (east of the Speedy's building) began in March 1994. LeChase Construction began excavation on March 21, after analytical results from in-situ soil samples were received. These samples were collected to profile the soil/waste streams and results were forwarded to Todd Caffoe, (Region 8/NYS-DEC) at that time. MARCOR representatives monitored the site for health and safety plan compliance and performed screening of the soils according to the work plan.

Excavation was completed to the target depth of the dense glacial till, 516 fmsl, and PVC vent pipe was installed as required in areas of contaminated soil that could not be excavated due to risk of structural damage to adjacent footers. Confirmational soil samples were collected and analyzed prior to backfilling and compacting for the road bed. Copies of these sample results were sent to Todd Caffoe. A total of 1588 tons of nonhazardous special waste soil and 277 tons of hazardous waste (F002) soil were sent for off-site disposal. Phase I is completed.

Phase II remedial activities began once the Speedy Cleaners building demolition was completed. Both the excavation contractor and the health and safety/environmental monitor changed to Bianchi Trison Corporation and Upstate Environmental respectively. After samples were collected to identify locations where perchloroethylene (PCE) was present, Bianchi Trison began Phase II excavation activities on May 4, 1994 and continued until May 13. During this time two underground storage tanks, one containing fuel oil and the other stoddard solvent, were also removed from the northwest section of the former building footprint. Bianchi Trison and Upstate were replaced on May 16 with LeChase and Marcor.

LeChase completed the excavation to 516 fmsl or uncontaminated soil conditions within the foundations of the former Speedy Cleaners building on May 24, 1994. Verification

sampling as required by the work plan was performed on the eastern half of the footprint of the former Speedy's building. An additional separate section of vent pipe was installed in the north east section of the Phase II area and a connection made to the earlier Phase I vent pipe installation. A total of 2802 tons of soil characterized as special waste has been removed to date from the Phase II area as well as 1174 tons of soil identified as hazardous (F002) wastes.

Percent Completion: The overall IRM project is approximately 80% complete

Modifications to the Work Plan

Several changes in contractors occurred during the work to date reflecting the different contracts awarded by the City. The changes are described in the progress section above.

It became necessary to split the Phase II excavation work into separate stages because of the concern over the structural stability of Stone Street and the prohibitive added costs for temporary shoring. This change was conveyed in writing to Todd Caffoe in an April 18 letter (Attachment 1) from Mark Gregor.

Because PCE was encountered outside the footprint of the Speedy building prior to Phase I excavations, it became necessary to gather more waste profile samples for Method 8010 analyses than was originally required in the work plan. The additional sampling and analytical requirements were described in an April 28 letter (Attachment 2) from Mark Gregor to Todd Caffoe.

Problems Encountered

During excavation of the north central area of the former Speedy's site a gravel/ash-filled, stone-lined sump pit was encountered about 11 feet below grade. The pit had to be gradually excavated and drained because it contained a dark brown liquid with a

strong solvent odor that upon analysis was determined to contain stoddard solvent and PCE. Approximately 750 gallons of the waste solvent were collected and drummed for disposal. Soil excavation was delayed briefly during this work.

Outside the project limits, but within the Court Street Garage footprint west of Stone Street, 4060 tons of gasoline contaminated soil was also removed. Excavation and disposal of this soil did not affect completion of the IRM activities.

Deliverables

Analytical data from soil samples were either provided via fax or reviewed directly with DEC staff. A complete set of all soil sample results is attached with this progress report (Attachment 3).

The final draft of the Site Investigation Report and Interim Remedial Measure Work Plan prepared by Seeler Associates was hand delivered to the Region 8 Office of the NYS-DEC on March 16, 1994 in conjunction with the execution of the order on consent for this project.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

The contractor awarded the garage construction project, Christa Construction, will be responsible for the remaining excavation of potentially contaminated soils that are in the footprint of the garage and tunnel. This will include the western half of the Phase II area below 516 fmsl and the tunnel area in what was previously Climax Alley. According to MEC Corporation, the excavation subcontractor to Christa, these Phase II excavation activities should resume the week of July 25, 1994. Soil removal beneath and west of Stone Street is currently underway.

Attachment 1

DEQ93018 (2)

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

April 18, 1994

Todd Caffoe
Environmental Engineer
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM schedule

Dear Mr. Caffoe:

As we discussed last week, the Phase II excavation activities described in the IRM work plan are being split between the demolition and excavation contractor and the contractor awarded the garage construction contract. Bianchi Trison, the demolition and excavation contractor, will excavate the foot print of the Speedys building to an elevation of 516 feet begining the week of April 24. The 516 foot elevation corresponds to the dense till layer identified in Figure 5 of the work plan and was the final depth of the Phase I excavation between Speedys and the Wintergarden. In order to avoid costly shoring, the deeper excavation to rock beneath the western third of Speedys will be performed by the garage contractor beginning in late May or early June.

The IRM scope of work for the project has not changed, only the timing of the excavation and completion of the soil gas vent system. This change will not affect our ability to comply with the terms of the consent order.

Let me know if you have any questions about this change.

Sincerely,

Mark D. Gregor
Environmental Specialist

xc. R.Elliott
D.Napier
E.Dohery
J.Brennan
N.Burton
S.Feurerstein
D.Zariczny
A.Klumpp✓
T.Seeler

Attachment 2

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

April 28, 1994

Todd Caffoe
Environmental Engineer
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 11414

Re: Court Street Parking Garage IRM Work Plan modification

Dear Mr. Caffoe:

During the Phase 1 excavation activities along the east side of Speedys, we identified a limited area of perchloroethylene (PCE). Previously PCE had been detected only in one location beneath the first floor slab in the northern part of the building. As a result of finding PCE in an additional location, we believe that in order for us to adequately characterize the soil waste stream we need to perform additional sampling prior to excavation.

Our proposed revision is to add two additional sampling efforts. Once the first floor slab and the area already defined as PCE contaminated is removed, we propose to add a test pit sampling program on a 25 x 25 foot grid pattern over the entire exposed area. Samples will be collected in the same manner as identified in the verification sampling section of the work plan and analyzed for method 8010 compounds. Based on the results, we will proceed to excavate contaminated soil areas as special waste or F002 waste, if PCE is present. Excavation will continue until we reach the basement elevation. The basement floor slab will then be removed and the grid sampling procedure repeated. Based on the analytical results, excavation will continue to the dense till (515 ft. elevation). Verification sample procedures will be performed as in the work plan.

The excavation contractor expects to remove the first floor slab on Monday May 2. If you have any questions or concerns about the additional sampling efforts please let me know. If I am not in my office I have a cellular phone (746-5244). Thank you for your cooperation.

Sincerely,

Mark D. Gregor
Environmental Specialist

xc. R.Elliott
D.Napier
T.Caffoe
A.Klumpp
J.Brennan

Attachment 3

Todd

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

August 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 2

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the second progress report documenting work during the month of July 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark Gregor

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
August 8, 1994

Progress Report No. 2
Work Completed Through July 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of July by the garage contractor, Christa Construction and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil under the former Stone Street and Climax Alley right-of-way was excavated to the intermediate target elevation of 515-516 fmsl. In order to complete excavations at the west end of the garage and install shoring, some areas of contaminated soil were removed and temporarily staged on site. The base of the excavation completed by LeChase in June was covered with sheets of 8-mil polyethylene. The plastic served to prevent cross contamination in areas already excavated to 515-516 fmsl where staged soils were to be placed. In addition, the plastic was used as marker to define the depths of existing test pit data on soil waste characteristics. Soils below the plastic required additional test pitting and sampling to determine if perchloroethylene (PCE) was present.

During July, 9,218 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. An additional 880 tons of gasoline contaminated soil from the former service station location west of Stone Street were also removed from the site and disposed of at the Mill Seat Landfill.

MEC Corporation has continued to excavate to the target elevation of 515-516 fmsl in the vicinity of the former Speedy Cleaners building at the east end of the garage footprint.

On July 22 while augering to bedrock for a piling on the east end of the garage, MEC encountered contaminated water and soil. Auger cuttings were staged on plastic and a sample collected. The soil sample and a sample of the water were submitted for Method 8010 analyses. PCE was not detected in either sample. The stoddard contaminated water was pumped into 15 drums which were transported to a disposal facility. The laboratory results are provided in Attachment 1.

Test pit excavations, sampling and analysis of the soil that must still be removed to construct the garage were performed on two occasions. The first test pit was excavated and sampled on July 13 beneath the Rochester Telephone Corporation (RTC) transmission line suspension bridge located below the former Stone Street R-O-W. Stoddard contamination appeared to extended to approximately the western limits of the Stone Street R-O-W. Three additional test pits were performed on July 27 between the site entry ramp, located in the eastern third of the footprint of the Speedy's building, and the RTC bridge.

PCE was not detected in any of the soil samples collected (Attachment 2). Based on these results the City will characterize the remaining contaminated soil as special waste.

Various drums of waste generated during different phases of the project were shipped from the site in July: 3 labpack drums, 5 drums of stoddard/water/sludge, 25 drums of PCE/stoddard/water, and 15 drums of stoddard/water.

Percent Completion: The overall IRM project is approximately 85% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

The change in contractors to Christa and MEC was noted in the previous section.

Additional waste profile samples for Method 8010 analyses were again collected. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

Problems Encountered

Construction related delays slowed the contaminated soil removal process in early July. No additional problems were encountered.

Deliverables

Analytical results from soil and water samples were discussed directly with DEC staff. A complete set of all July sample results is attached with this progress report.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC, will be responsible for excavating approximately 6,000 tons of nonhazardous contaminated soils that remain in the footprint of the garage and tunnel. Over most of this area excavation will be to bedrock. Upon completion of the garage excavation, verification sampling of any remaining soils will be performed in accordance with the work plan. Sampling is tentatively planned for early September.

The preliminary designs for the final ventilation system layout are being prepared. A proposed layout and system will be submitted for DEC review in late August or early September.

Attachment 1

test pit under telephone bridge

Seeler Associates
Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: Ann Klumpp

Company: C.D.R.

Phone:

Fax: 428-6010

FROM: Pete Von Schondorf

Date: 7-15-94

Pages Including this cover page: 2

Comments:

SAMPLE RESULT B & L

____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

S-1

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: SCOTT BABEL
Date: 07/15/94
Time: 07:49
Client: SEELER
Job #: R94/02630
Sample #: -001

LABORATORY REPORT-TRACOR 540 (T4)
Column: 1ZSP1000 CARBOPACK
Analysis: Priority Pollutants
Purgeable Organics (8020) BTEX

% - SOLID 92.5%

07/14/94 CRV

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/kg)
Chloroethane			0.0	1	5.4 U
Bromomethane			0.0	1	5.4 U
Vinyl Chloride			0.0	1	2.2 U
Chloroethane			0.0	1	2.2 U
Methylene Chloride			0.00	1	1.1 U
Trichlorofluoromethane			0.0	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
1,1-Dichloroethane			0.0	1	1.1 U
1,2-Dichloroethene(TOTAL)			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
Dibromochloromethane			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Chlorobenzene			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
Total Volatiles					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	% RECOVERY	Accep. Limits
Bromochloromethane (1)	10.48	158	22.6	30	75	66-128
1,2,3-Trichloropropane (2)				30		50-141
Chlorofluorobenzene HALL	27.16	92.4	25.7	30	86	60-108
Chlorofluorobenzene PID			0.0	30	0	60-140

Attachment 2

Seeler Associates

Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: Mark Gregor

Company: C.O.R.

Phone:

Fax: 428-6010

FROM: Pete VS

Date:

Pages Including this cover page: 5

Comments: SPEEDY SOIL RESULTS

____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 15:40
Client: SEELER
Job #: R94/02774
Sample #: -001

TP-1

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 93.0%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)	
Chloromethane			0.0	1	5.4	U
Vinyl Chloride			0.00	1	2.2	U
Bromomethane			0.0	1	5.4	U
Chloroethane			0.0	1	2.2	U
Trichlorofluoromethane			0.00	1	1.1	U
1,1-Dichloroethene			0.0	1	1.1	U
Methylene Chloride			0.0	1	1.1	U
1,2-Dichloroethene (TOT)			0.0	1	1.1	U
1,1-Dichloroethane			0.0	1	1.1	U
Chloroform			0.0	1	1.1	U
1,1,1-Trichloroethane			0.0	1	1.1	U
Carbon Tetrachloride			0.0	1	1.1	U
1,2-Dichloroethane			0.0	1	1.1	U
Trichloroethene			0.0	1	1.1	U
1,2-Dichloropropane			0.0	1	1.1	U
Bromodichloromethane			0.0	1	1.1	U
2-Chloroethylvinyl Ether			0.0	1	2.2	UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1	U
1,3-Dichloropropene (Trans)			0.0	1	2.2	U
1,1,2-Trichloroethane			0.0	1	2.2	U
Tetrachloroethene			0.0	1	1.1	U
Dibromochloromethane			0.0	1	2.2	U
Chlorobenzene			0.0	1	2.2	U
Bromoform			0.0	1	2.2	U
1,1,2,2-Tetrachloroethane			0.0	1	2.2	U
1,3-Dichlorobenzene (m)			0.0	1	2.2	U
1,4-Dichlorobenzene (p)			0.0	1	2.2	U
1,2-Dichlorobenzene (o)			0.0	1	2.2	U
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
TOTAL VOLATILES					0.00	

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloroethane	17.55	263	21.3	30	71	66-128
Chlorofluorobenzene	30.09	153	25.3	30	84	60-108

DL
7/28/94

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-8760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 16:46
Client: SEELER
Job #: R94/02774
Sample #: -002

TP-2

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.4%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloromethane			0.0	1	5.4 U
Vinyl Chloride			0.00	1	2.2 U
Bromomethane			0.0	1	5.4 U
Chloroethane			0.0	1	2.2 U
Trichlorofluoromethane			0.00	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
Methylene Chloride			0.0	1	1.1 U
1,2-Dichloroethene (TOT)			0.0	1	1.1 U
1,1-Dichloroethane			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Dibromochloromethane			0.0	1	2.2 U
Chlorobenzene			0.0	1	2.2 U
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
TOTAL VOLATILES					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	17.54	276	22.3	30	74	66-128
Chlorofluorobenzene	30.09	163	27.0	30	90	60-108

DL
7/28/94

TP-3

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 17:44
Client: SEELER
Job #: R94/02774
Sample #: -003

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.3%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloroethane			0.0	5	27 U
Vinyl Chloride			0.00	5	11 U
Bromoethane			0.0	5	27 U
Chloroethane			0.0	5	11 U
Trichlorofluoromethane			0.00	5	5.4 U
1,1-Dichloroethene			0.0	5	5.4 U
Methylene Chloride			0.0	5	5.4 U
1,2-Dichloroethene (TOT)	16.42	109	6.0	5	32
1,1-Dichloroethane			0.0	5	5.4 U
Chloroform			0.0	5	5.4 U
1,1,1-Trichloroethane			0.0	5	5.4 U
Carbon Tetrachloride			0.0	5	5.4 U
1,2-Dichloroethane			0.0	5	5.4 U
Trichloroethene			0.0	5	5.4 U
1,2-Dichloropropane			0.0	5	5.4 U
Bromodichloromethane			0.0	5	5.4 U
2-Chloroethylvinyl Ether			0.0	5	11 UJ
1,3-Dichloropropene (Cis)			0.0	5	5.4 U
1,3-Dichloropropene (Trans)			0.0	5	11 U
1,1,2-Trichloroethane			0.0	5	11 U
Tetrachloroethene			0.0	5	5.4 U
Dibromochloromethane			0.0	5	11 U
Chlorobenzene			0.0	5	11 U
Bromoform			0.0	5	11 U
1,1,2,2-Tetrachloroethane			0.0	5	11 U
1,3-Dichlorobenzene (m)			0.0	5	11 U
1,4-Dichlorobenzene (p)			0.0	5	11 U
1,2-Dichlorobenzene (o)			0.0	5	11 U
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
TOTAL VOLATILES					32.00

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	17.54	376	30.4	30	101	66-128
Chlorofluorobenzene	30.11	189	31.3	30	104	60-108

7/28/94

RE-ANALYSIS OF TP-3

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 23:36
Client: SEELER
Job #: R94/02774
Sample #: -003

TP-3

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.3%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloroethane			0.0	1	5.4 U
Vinyl Chloride			0.00	1	2.2 U
Bromoethane			0.0	1	5.4 U
Chloroethane			0.0	1	2.2 U
Trichlorofluoromethane			0.00	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
Methylene Chloride			0.0	1	1.1 U
1,2-Dichloroethene (TOT)	16.44	167	9.2	1	9.9
1,1-Dichloroethane			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Dibromochloromethane			0.0	1	2.2 U
Chlorobenzene			0.0	1	2.2 U
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
TOTAL VOLATILES					9.90

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits	
Bromochloromethane	17.56	213	17.2	30	* 57	66-128	* out of limit
Chlorofluorobenzene	30.15	121	20.0	30	67	60-108	

DL 7/28/94

Seeler Associates
Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: MARK GREGOR

Company: C.O.R.

Phone:

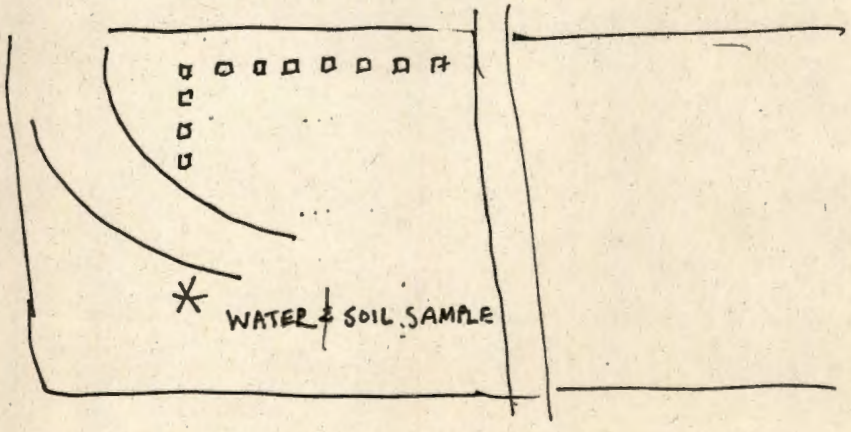
Fax: 426-6010

FROM: PETE VON SCHONDORF

Date: 7-27-94

Pages Including this cover page: 4

Comments: MARK - RESULTS FOR Soil & GROUNDWORK at SPEEDY'S. Will Fax groundwater to MARCOR



____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

General Testing Corporation

A Full Service Environmental Laboratory

Date: 7/27

Job Number:

TO: Seeler

ATTENTION: Pete von Schondorf

FAX NUMBER: 262-6065 PAGES TO FOLLOW: 1

FROM: David Yaeger

INSTRUCTION/MESSAGE:

Ignitability >100°C
(Court St. Garage)

710 Exchange Street • Rochester, New York 14608 • (716) 454-3760 • Fax (716) 454-1245
65 Trinity Place • Hackensack, NJ 07601 • (201) 488-5242 • Fax (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • (716) 634-0454 • Fax (716) 634-9019

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DIANE LUCEY
Date: 07/26/94
Time: 23:06
Client: SEELER
Job #: R94/02749
Sample #: -001

Court St. garage

LABORATORY REPORT-T5
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/13/94 Curve

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/l)
Chloromethane			0.00	1	5.0 U
Vinyl Chloride			0.00	1	2.0 U
Bromomethane			0.00	1	5.0 U
Chloroethane			0.00	1	2.0 U
Trichlorofluoromethane			0.00	1	1.0 U
1,1-Dichloroethene			0.00	1	1.0 U
Methylene Chloride			0.00	1	1.0 U
1,2-Dichloroethene (TOT)			0.0	1	1.0 U
1,1-Dichloroethane			0.00	1	1.0 U
Chloroform			0.00	1	1.0 U
1,1,1-Trichloroethane			0.00	1	1.0 U
Carbon Tetrachloride			0.00	1	1.0 U
1,2-Dichloroethane			0.0	1	1.0 U
Trichloroethene			0.0	1	1.0 U
1,2-Dichloropropane			0.00	1	1.0 U
Bromodichloromethane			0.00	1	1.0 U
2-Chloroethylvinyl Ether			0.00	1	2.0 UJ
1,3-Dichloropropene (Cis)			0.00	1	1.0 U
1,3-Dichloropropene (Trans)			0.00	1	2.0 U
1,1,2-Trichloroethane			0.0	1	2.0 U
Tetrachloroethene			0.00	1	1.0 U
Dibromochloromethane			0.00	1	2.0 U
Chlorobenzene			0.00	1	2.0 U
Bromoform			0.00	1	2.0 U
1,1,2,2-Tetrachloroethane			0.00	1	2.0 U
1,3-Dichlorobenzene (m)			0.00	1	2.0 U
1,4-Dichlorobenzene (p)			0.00	1	2.0 U
1,2-Dichlorobenzene (o)			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
TOTAL VOLATILES					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	18.57	150	26.7	30	89	60-138
Chlorofluorobenzene	29.94	74.6	28.3	30	94	60-121
1,2,3-Trichloropropane	35.11	141	25.1	30	84	60-140
Chlorofluorobenzene (Pid)			0.0	30	0	60-140

AL TESTING CORPORATION
xchange St., Rochester, N.Y
454-3760

ATORY REPORT-TRACOR 540 (T4)
n: 1%SP1000 CARBOPACK
sis: Priority Pollutants
able Organics (8010)

/94 CRV

Analyst: JEFF BRYANT
Date: 07/25/94
Time: 18:25
Client: SEELER
Job #: R94/02748
Sample #: -001

% - SOLID 90.3%

#1

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/kg)
omethane			0.0	1	5.5 U
methane			0.0	1	5.5 U
Chloride			0.0	1	2.2 U
oethane			0.0	1	2.2 U
lene Chloride			0.00	1	1.1 U
lorofluoromethane			0.0	1	1.1 U
ichloroethene			0.0	1	1.1 U
ichloroethane			0.0	1	1.1 U
ichloroethene(TOTAL)			0.0	1	1.1 U
oform			0.0	1	1.1 U
ichloroethane			0.0	1	1.1 U
-Trichloroethane			0.0	1	1.1 U
n Tetrachloride			0.0	1	1.1 U
dichloromethane			0.0	1	1.1 U
ichloropropane			0.0	1	1.1 U
ichloropropene (Cis)			0.0	1	1.1 U
loroethene			0.0	1	1.1 U
ichloropropene (Trans)			0.0	1	2.2 U
omochloromethane			0.0	1	2.2 U
-Trichloroethane			0.0	1	2.2 U
oroethylvinyl Ether			0.0	1	2.2 UJ
oform			0.0	1	2.2 U
,2-Tetrachloroethane			0.0	1	2.2 U
ichloroethene			0.0	1	1.1 U
obenzene			0.0	1	2.2 U
ichlorobenzene (m)			0.0	1	2.2 U
ichlorobenzene (o)			0.0	1	2.2 U
ichlorobenzene (p)			0.0	1	2.2 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
Volatiles					0.00

ogate Standards		Reten. Time	Area Units	Total Rec'vry	Amt. Add.	% RECOVERY	Accep. Limits
ochloromethane	(1)	10.39	153	21.9	30	73	66-128
3-Trichloropropene	(2)				30		50-141
rofluorobenzene	HALL	31.56	74.4	20.7	30	69	60-108
rofluorobenzene	PID			0.0	30	0	60-140

City of Rochester

Todd

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

September 10, 1994

RECEIVED
SEP 14 1994
NYS DEPT. OF ENVIRONMENTAL CONSERVATION-REGION 8 (SUBSTS./REM.)

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 3

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the third progress report documenting work during the month of August 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
September 10, 1994

Progress Report No. 3
Work Completed Through August 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of August by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated to the final target elevations, generally to bedrock or 504-505 fmsl.

During August, 10889 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during August.

MEC Corporation has completed the excavation to the target elevation of 504-505 fmsl in the vicinity of the former Speedy Cleaners building at the east end of the garage footprint with the exception of a ramp currently in place used to gain access to the excavation.

Sampling and analysis of soil remaining in the area of gasoline contamination west of Stone St. was performed by Seeler Associates on August 25. Two samples were collected and analyzed by EPA Method 8021. The laboratory results are provided in Attachment 1. The analysis showed that very minimal gasoline contamination, below the STARS memorandum clean-up standard, remains in the soil.

Percent Completion: The overall IRM project is approximately 95% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

Samples for Method 8021 analyses were collected. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

Problems Encountered

The volume of contaminated soil removed exceeded the original estimates as it was not expected that the contamination would continuously extend to bedrock. No additional problems were encountered.

Deliverables

Analytical results from soil samples were discussed directly with DEC staff. A complete set of all August sample results is attached with this progress report.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC will be excavating footings located in the northeast corner of the garage footprint. Contaminated soil generated from the footing excavations will be shipped to Mill Seat Landfill. Any remaining contamination will be remediated through the ventilation system currently being designed by the City of Rochester and Seeler Associates.

The preliminary designs for the final ventilation system layout are being prepared. A proposed layout and system will be submitted for DEC review by September 23.

Removal of the access ramp is tentatively scheduled for October. Any contaminated soil generated during the ramp removal will be shipped to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Gasoline Contamination

During initial excavation of the garage by Bianchi-Trison, an underground storage tank was discovered in the area west of Stone St. Three soil samples were taken by Upstate Environmental on April 11 and analyzed by EPA Method 8010 and 8020. The analysis showed minimal petroleum contamination, however OVA readings taken at the site and soil staining indicated the need for removal of contaminated soil. The initial removal of gasoline contaminated soil, 4060 tons, was performed as part of Bianchi-Trison's contract through June. The remaining 880 tons of gasoline contaminated soil located along Court St. was removed by MEC in July as part of the Christa Construction contract. Verification sampling of remaining soil was performed by Seeler Associates on August 25. Two soil samples (G-1 and G-2) were taken approximately 18 feet north of the shoring along Court St. and analyzed by EPA Method 8020. The analysis showed that the contaminated soil had been removed to below clean-up standards and that no further removal was necessary. Verification sampling results are provided in Attachment 1. The initial drawing of the gasoline contaminated area by CME Associates, the correspondence of July 13, 1994 to Bill Shutts of the DEC regarding the gasoline contamination, and the drawing by Seeler Associates indicating the locations of the verification samples are provided in Attachment 2.

Attachment 1

Seeler Associates

Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: MARK GREGOR

Company: C.O.R.

Phone: 428-5978

Fax: 428-6010

FROM: PETE VON SCHONDORF

Date: 9/1/94

Pages Including this cover page: 3

Comments:

SAMPLE RESULTS FROM Court St. GARAGE "Gasoline Area"

_____ Originals Will Be Mailed _____ Originals Will Not Be Mailed

>ral Testing Corporation
Exchange St., Rochester, N.Y
5)454-3760

)RATORY REPORT-T3

lysis:
L-TANK LIST

Analyst: JEFF BRYANT
Date: 08/29/94
Time: 15:47
Client: SEELER
Job #: R94/03165
Sample#: -001

G1

% SOLID 91.1%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)	
hyl t-butyl ether			0.0	1	1.1	U
zene			0.0	1	1.1	U
uene			0.0	1	1.1	U
ylbenzene	28.43	28.30	3.2	1	3.6	
ylene	28.73	55.10	5.4	1	6.0	
ylene			0.0	1	2.2	U
ylene	30.27	29.00	3.2	1	3.5	
opropylbenzene	31.55	18.8	2.45	1	2.7	
ropylbenzene	32.88	12.80	1.5	1	1.6	
,5-Trimethylbenzene			0.00	1	1.1	U
t-Butylbenzene			0.0	1	1.1	U
,4-Trimethylbenzene	34.55	13.2	1.13	1	1.2	
-Butylbenzene			0.00	1	1.1	U
sopropyltoluene			0.0	1	1.1	U
utylbenzene			0.00	1	1.1	U
hthalene	40.98	71.6	6.0	1	6.6	

al Volatiles 25.16

rogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
,A-TRIFLUOROTOLUENE	18.58	111	33.3	30	111	55-131

eral Testing Corporation
) Exchange St., Rochester, N.Y
.6)454-3760

ORATORY REPORT-T3

lysis:
I-TANK LIST

Analyst: JEFF BRYANT
Date: 08/29/94
Time: 17:02
Client: SEELER
Job #: R94/03165
Sample#: -002

G2

% SOLID 89.0%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
hyl t-butyl ether			0.0	1	1.1 U
zene			0.0	1	1.1 U
uene	22.70	10.90	1.1	1	1.3
ylbenzene	28.34	10.60	1.2	1	1.4
ylene	28.64	28.90	2.8	1	3.2
ylene			0.0	1	2.3 U
ylene	30.20	15.40	1.7	1	1.9
propylbenzene			0.00	1	1.1 U
ropylbenzene			0.0	1	1.1 U
,5-Trimethylbenzene			0.00	1	1.1 U
t-Butylbenzene			0.0	1	1.1 U
,4-Trimethylbenzene			0.00	1	1.1 U
-Butylbenzene			0.00	1	1.1 U
sopropyltoluene			0.0	1	1.1 U
utylbenzene			0.00	1	1.1 U
hthalene			0.0	1	1.1 U

al Volatiles

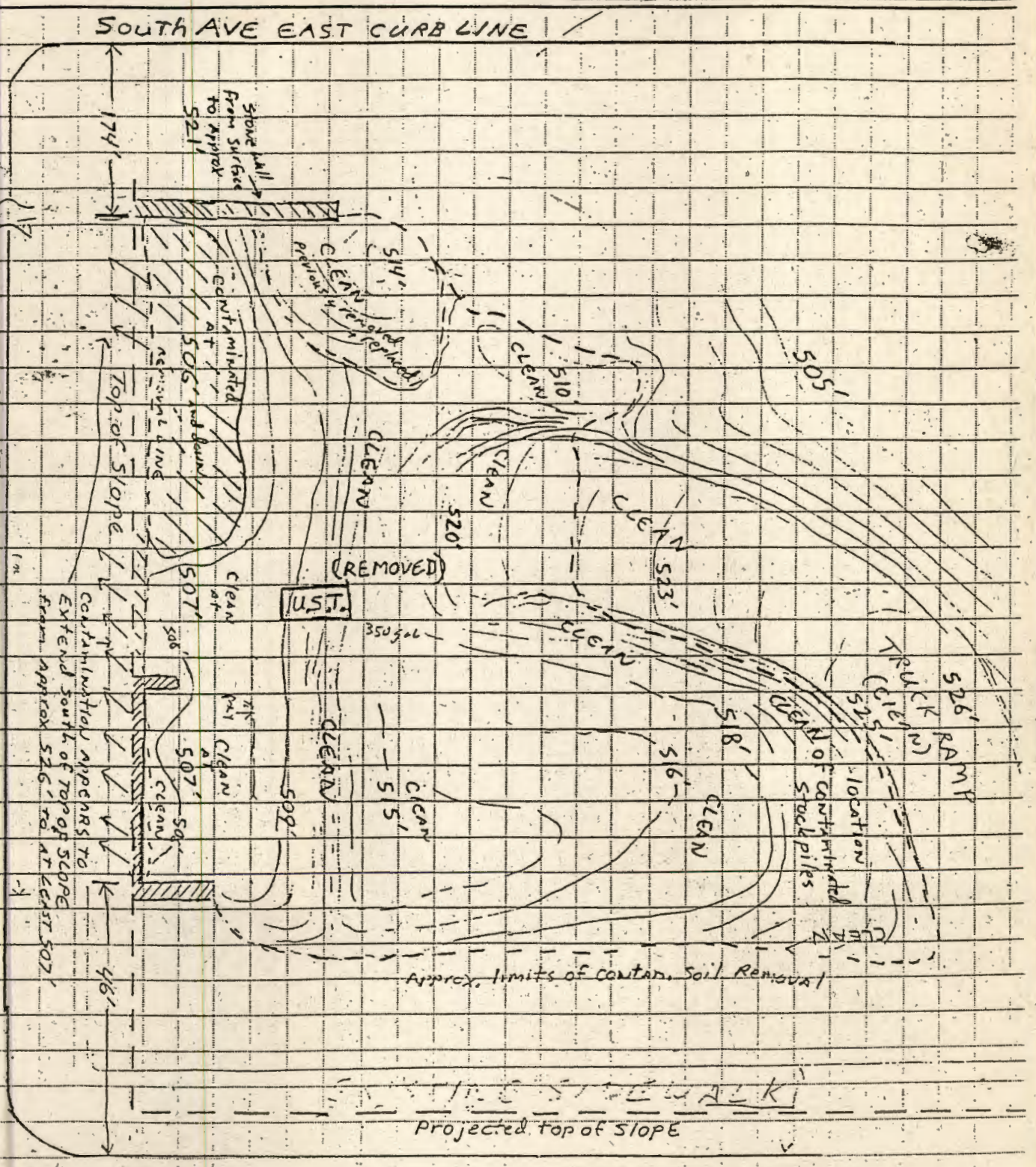
7.71

rogate Standards	Reten. Time	Area Units	Total Recovry	Amt. Add.	Percent Recovery	Accep. Limits
,A-TRIFLUOROTOLUENE	18.59	81	24.2	30	81	55-131

Attachment 2

CME Associates, Inc.
MATERIALS TESTING DIVISION

JOB 21 Court St. Demo
SHEET NO. 1 OF 1
CALCULATED BY ____ DATE ____
CHECKED BY ____ DATE 4-29-94
SCALE see legend



4-28-94
SKETCH OF AREA OF CONTAMINATED SOIL REMOVAL

City of Rochester

AX (716) 428-6010
DD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

uly 13, 1994

ill Shutts
ew York State Department of Environmental Conservation
274 East Avon-Lima Road
von, New York 14414

e: Court Street Parking Garage
Area of Gasoline Contamination

ear Mr. Shutts:

ttached is the information that you requested regarding the area of petroleum fuel contamination ncountered during the excavation for the new Court Street Parking Garage. The best address at we have for this location is 160 Court Street. A tank and contaminated soil were first iscovered at this location on April 8, 1994. The tank contained mostly water and was removed by e City's excavation contractor, Bianchi Trison Corporation. Because the garage will have two to ree parking levels below grade, all of the soil in the footprint of the garage is being removed, cluding the petroleum contaminated soil. Through the end of June 4,060 tons of petroleum ontaminated soil were removed. Additional soil removal is currently underway.

he following information is attached:

1. 1935 Plat Map showing the location of a gas station at 160 Court Street

2. Sketch prepared by CME Associates of the area of contamination and soil removal dated April 29, 1994

3. An 11" x 17" sketch of excavation activities for the South Avenue to Stone Street block showing the tank location and sample locations

4. Analytical data from soil samples

5. Court Street Parking Garage Project Interim Remedial Measure Progress Report Number 1 dated July 8, 1994

I can be reached at 428-5978 if you have any further questions.

Sincerely,

Mark D. Gregor
Environmental Specialist

Attachments

xc. Edward J. Doherty, Commissioner
Anne Klumpp, Environmental Quality
Johanna Brennan, Law Department
Steve Feuerstein, Municipal Facilities
Mary Jane Peachey, NYS-DEC
Todd Caffoe, NYS-DEC

Seeler Associates — ENVIRONMENTAL CONSULTANTS

FAX Transmission | Pages Including Transmittal: 2 | FAX 716-262-6065

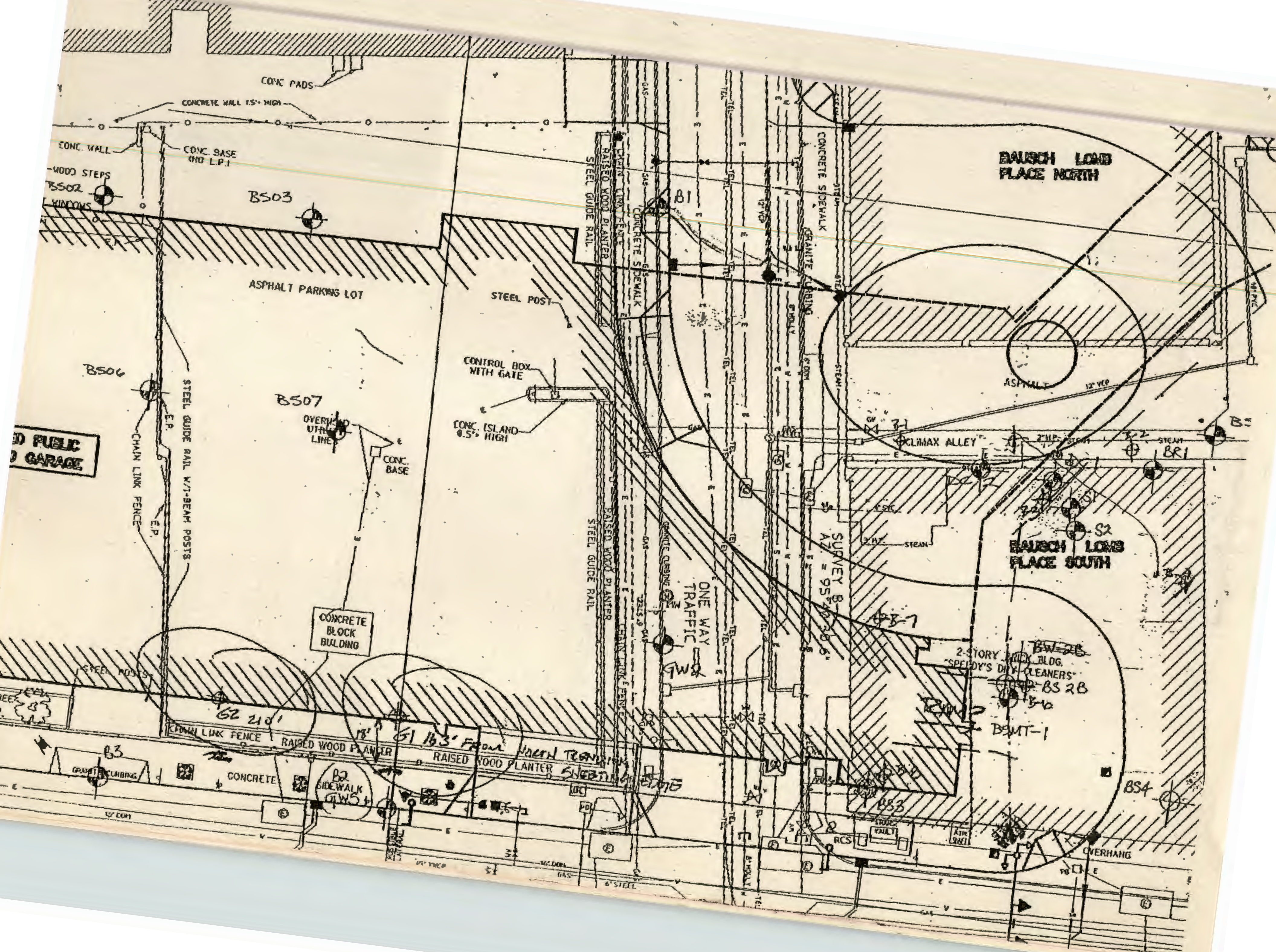
From: PETE VON SCHONDORF
To: MARK GREGOR
Company: CITY OF ROCHESTER

Date: 9-2-94
Time: 2:20
FAX #: 428-6010

MARK here is the figure you requested, if you cannot make out the locations G1 is 168'W From SE corner of the STEEL SHEETING, G2 is 210'W From the SAME CORNER LOCATION. Both samples were collected approximately 18' NORTH OF THE SHEETING.

16 East Main Street, 660 Reynolds Arcade Building, Rochester, New York 14614

716-262-6070


CONC PADS
CONCRETE WALL 1.5' HIGH
CONC. WALL
CONC. BASE (NO L.P.)
WOOD STEPS
BS02
BS03
ASPHALT PARKING LOT
STEEL POST
CONTROL BOX WITH GATE
CONC. ISLAND 0.5' HIGH
BS06
BS07
OVERHEAD UTILITY LINES
CONC. BASE
CHAIN LINK FENCE
STEEL GUIDE RAIL W/I-BEAM POSTS
CONCRETE BLOCK BUILDING
STEEL POSTS
ED PUBLIC
D GARAGE
STEEL GUIDE RAIL
RAISED WOOD PLANTER
CHAIN LINK FENCE
CONCRETE SIDEWALK
GRANITE CURBING
ONE WAY TRAFFIC
SURVEY B
B1
GW2
BAUSCH LOMB PLACE NORTH
ASPHALT
CLIMAX ALLEY
BR1
S1
S2
BAUSCH LOMB PLACE SOUTH
2-STORY BRICK BLDG. "SPEEDY'S DRY CLEANERS"
BS 2B
BSMT-1
BS4
BS3
G2
G1
B3
B2
GW5
GRANITE CURBING
CONCRETE
SIDEWALK
VAULT
OVERHANG
STEAM

City of Rochester

Todd
File

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

October 7, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 4

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the fourth progress report documenting work during the month of September 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attachment

c: R. Elliott, MCDOH
D. Napier, NYSDOH
James Hazel, NYSDEC
E. Doherty
J. Brennan
N. Burton
S. Feuerstein
A. Klumpp
T. Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
October 10, 1994

Progress Report No. 4
Work Completed Through September 30, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of September by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated from the temporary access ramp being removed by MEC.

During September, 2226 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during September.

Christa Construction and MEC have been excavating for footings in the northeast corner of the garage footprint. Contaminated soil from the footing excavations has been staged on-site and will be sent to Mill Seat Landfill. Two test pits (TP-1 and TP-2) were excavated by MEC and sampled by Seeler Associates prior to beginning the footer excavations. Analysis showed that soils from TP-1 were below STARS criteria, consequently, soils to the west of TP-1 will not be excavated or included in the soil ventilation system. Results of the test pit analysis are provided in Attachment 1.

Percent Completion: The overall IRM project is approximately 97% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

Samples for Method 8021 analyses were collected from TP-1 and TP-2. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

The ventilation system design has been modified to include remediation of the four to

five feet of contaminated soil which will remain in the northeast area of the garage below the floor slab.

Problems Encountered

A three to four day delay in the construction schedule was incurred due to MEC modifying their work plans in response to the decision not to excavate the four to five feet of contaminated soil in the northeast area of the garage. No additional problems were encountered.

Deliverables

The preliminary design for the final ventilation system, which included the analysis from TP-1 and TP-2 was submitted to the DEC on September 22.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC will be completing the excavation of the access ramp. Contaminated soils from the ramp excavation will continue to be sent to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Gasoline Contamination

A meeting with Bill Shutts of the DEC was held at the site on September 8 to discuss the area of petroleum contamination, the removal efforts, and any possible remaining petroleum contamination. A copy of the August Progress Report, which detailed the

testing and removal of the gasoline contaminated soil, was sent to Bill Shutts. Additional analytical results from samples taken from the south face to the excavation at the area of gasoline contamination by Seeler Associates will be plotted on a site drawing and submitted to Mr. Shutts also.

Attachment 1

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT-T3

Analysis:
8021-TANK LIST

Analyst: ROD HERRING
Date: 09/08/94
Time: 19:37
Client: SEELER
Job #: R94/03358
Sample#: -001

TP1 (P 5)

% SOLID 92.9%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
Methyl t-butyl ether			0.0	1	1.1 U
Benzene			0.00	1	1.1 U
Toluene			0.0	1	1.1 U
Ethylbenzene	28.38	71.4	8.2	1	8.8
p-Xylene			0.0	1	2.2 U
m-Xylene			0.0	1	2.2 U
o-Xylene	30.25	184	20.2	1	22
Isopropylbenzene	31.53	113.0	14.75	1	16
n-Propylbenzene			0.0	1	1.1 U
1,3,5-Trimethylbenzene	33.47	232.0	17.96	1	19
tert-Butylbenzene			0.0	1	1.1 U
1,2,4-Trimethylbenzene	34.63	113	9.70	1	10
sec-Butylbenzene			0.00	1	1.1 U
p-Isopropyltoluene	35.51	55.90	7.2	1	7.8
n-Butylbenzene	36.54	371.0	43.59	1	47
Naphthalene			0.0	1	1.1 U

Total Volatiles 130.76

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
A,A,A-TRIFLUOROTOLUENE	18.65	99	29.8	30	99	55-131

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT-T3

Analyst: ROD HERRING
Date: 09/08/94
Time: 20:41
Client: SEELER
Job #: R94/03358
Sample#: -002

TP2 (P-17)

Analysis:
8021-TANK LIST

% SOLID 91.2%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
Methyl t-butyl ether			0.0	500	550 U
Benzene			0.00	500	550 U
Toluene			0.0	500	550 U
Ethylbenzene	28.41	89.0	10.2	500	5600
p-Xylene	28.75	53	5.2	500	2800
m-Xylene			0.0	500	1100 U
o-Xylene	30.27	250	27.4	500	15000
Isopropylbenzene	31.55	172.0	22.46	500	12000
n-Propylbenzene	32.93	237	26.9	500	15000
1,3,5-Trimethylbenzene	33.48	339.0	26.25	500	14000
tert-Butylbenzene			0.0	500	550 U
1,2,4-Trimethylbenzene	34.63	699	60.01	500	33000
sec-Butylbenzene			0.00	500	550 U
p-Isopropyltoluene	35.52	60.50	7.8	500	4300
n-Butylbenzene	36.55	367.0	43.12	500	24000
Naphthalene			0.0	500	550 U

Total Volatiles 125700.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
A,A,A-TRIFLUOROTOLUENE	18.66	102	30.6	30	102	55-131

Todd

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

November 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 5

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the fifth progress report documenting work during the month of October, 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attachment

c: R. Elliott, MCDOH
D. Napier, NYSDOH
James Hazel, NYSDEC
E. Doherty
J. Brennan
N. Burton
S. Feuerstein
A. Klumpp
T. Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
November 10, 1994

Progress Report No. 5
Work Completed Through October 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of October by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated from the temporary access ramp being removed by MEC.

During October, 521 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during October.

As described in the soil ventilation system proposal submitted to the DEC on September 22, existing site soil has been used as backfill on-site in the areas where slotted ventilation pipe will be installed. Any additional soil not usable on-site as backfill was shipped to Mill Seat Landfill for disposal.

Percent Completion: The overall IRM project is approximately 98% complete based on revised estimates of the remaining volume of contaminated soil to be removed. This estimate is based on the assumption that only contaminated soils in the area of the access ramp remains for removal.

Modifications to the Work Plan

There were no modifications to the work plan during the month of October.

Problems Encountered

MARCOR was not called to the site by MEC Construction during their work in areas of soil contamination on October 5, 6, and 7. Fifteen loads of contaminated soil were

shipped to Mill Seat on October 6 without monitoring by MARCOR. The contractors have been advised that it is unacceptable to work in areas of contaminated soil without having MARCOR on site and must ensure in the future that all work performed will be in accordance with the Health and Safety Plan for the site.

Deliverables

A letter describing the plans to include the four to five feet of contaminated soils remaining under the floor slab in the northeast corner of the garage was submitted to Mary Jane Peachey on October 20. The letter is included as Attachment 1.

Actions for the Coming Month

Christa Construction and MEC will be completing the excavation of the access ramp. Contaminated soils from the ramp excavation will continue to be sent to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Discussions will be held with Seeler Associates, the building architect and the HVAC mechanical contractor regarding the location of the blower and the ventilation system details.

Gasoline Contamination

As was stated in the October 10 Progress Report, additional analytical results from samples taken from the south face of the excavation at the area of gasoline contamination by Seeler Associates will be plotted on a site drawing and sent to Bill Shutts.

Attachment 1

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

October 20, 1994

Mary Jane Peachey, P.E.
New York Department of Environmental Conservation
6274 E. Avon Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM Vent System - Work Plan modifications

Dear Ms. Peachey:

On September 22 we sent you proposed additions to the vent system layout for the Court Street Parking Garage Project. As described in our transmittal letter, one proposed section of vent pipe will be installed in an area where contaminated soil will remain below the lower floor slab. When discussing the proposed vent system with Todd Caffoe of your office he pointed out that the proposal to vent soils in this area could be construed as a deviation from our original work plan. This letter is to present our rationale and the need for the section of the system below the floor slab.

The Court Street Parking Garage extends from three levels below grade at South Avenue to two levels below grade at the eastern end where Speedy Cleaners was previously located. Lower level slab elevations increase from west to east. In the western portion of the garage, bedrock was required to be removed while at the east end of the site finish elevations are approximately five feet above rock. The approved work plan indicates that during Phase 2 "the excavation depth will equal what is required for building purposes plus an additional 2 feet of soil. If contaminated soil remains, excavation will continue until bedrock is encountered. In areas not planned for deep excavation, the soil will be removed following the procedures used during Phase I." Phase I procedures called for the removal of soils to the point where contaminant concentrations are below the guidance criteria or to the point where excavations could cause structural instability or are physically limited. Where such project related limitations apply, the work plan requires the use of a soil gas vent system.

Soil gas venting was substituted for excavation to rock on one other occasion during Phase 2 of the IRM. In May, during excavations in the area east of the garage shoring line, soil contaminated above the STAR's criteria was encountered at about the till elevation (515-516 fmsl). Because site access from Stone Street was soon to be eliminated, it was necessary to quickly construct a ramp from Court Street over the area where the contaminated soils remained. At Todd Caffoe's request, an additional one to two feet of contaminated soil was removed. Vent pipe was then installed and the ramp completed. The change in approach allowed the garage construction project to continue with out any effect on the schedule.

We believe our September plan to use soil venting instead of excavation to rock is also appropriate. When preparing the work plan, the excavation depth for the entire garage footprint was assumed to be bedrock or a foot or two above rock. The bottom elevation of the northeast end of the garage is actually several feet above rock. Recently footers were constructed through remaining till in this area. The installation of the footers now complicates soil removal from this area. Also because of the phasing of the garage construction, access to soils close to and beneath the current entrance ramp for verification sampling purposes is not possible until the ramp is removed later in the project. At that time, excavation of the remaining few feet of soil would be made difficult by cumbersome loading operations and reduced access for transport vehicles. The plan to install additional vent pipe instead of removing soils was prepared to address the limited areas of soil contamination where removal operations have become more complicated and costly. The remaining areas of contaminated soil are easily defined and limited both vertically and horizontally. The planned vent system should, therefore, be effective in preventing vapor infiltration into the garage and in reducing soil contaminant levels.

If you would like to discuss the proposed additions to the vent system or the remaining field activities necessary to complete the IRM, please let me know. We will submit the IRM report later this fall after final verification sample data are received.

Sincerely,

Mark D. Gregor
Environmental Specialist
428-5978

xc.
T.Caffoe,NYS-DEC
R.Elliott,MC-DOH
D.Napier,NYS-DOC
James Hazel, NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

City of Rochester

Todd file

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

December 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 6

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the sixth progress report documenting work during the month of November,1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

irmprtr6.let

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
December 10, 1994

Progress Report No. 6
Work Completed Through December 2, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

Additional unanticipated excavation and disposal of stoddard contaminated soil was required during late November. The previous excavation subcontractor, MEC Corporation, was removed from the job and had significantly under reported the amount of contaminated soil that needed to be excavated for garage construction purposes. The prime garage contractor, Christa Construction, retained A.V. Towner to complete the excavation work. A.V. Towner has been advised that it must complete work in areas of potentially contaminated soil with a health and safety monitor on site and that all excavation activities must be in accordance with the Work Plan and Health and Safety Plan for the site.

During the week of November 28, 1,639 tons of stoddard contaminated soil were removed and transported to Mill Seat Landfill increasing the total for the reporting period to 2,578 tons. Soil removal was monitored in accordance with the approved work plan and total organic vapor levels continued to be detected in range of 10 to 150 parts per million. The excavation of several hundred cubic yards of soil to bedrock for the garage elevator shaft was required as well as the removal of the remaining portions of the access ramp and soils that MEC had cast onto the access ramp slope above the shoring on the east side of the garage.

No drums of waste were generated at the site or disposed of during November.

On November 7, final verification sampling was performed by Seeler Associates in accordance with the approved Work Plan. Nine locations were sampled, V8 to V16, and analyzed for Method 8021 compounds ("tank list") using NYSASP protocols. Todd Caffoe of NYSDEC Region 8 split samples at locations V8 to V12. Results were received in early December and are provided in Attachment 1 along with a sample location drawing.

Percent Completion: The overall IRM project is approximately 99% complete based on revised estimates of the remaining volume of potentially contaminated soil to be removed. This estimate is based on the assumption that the only additional potentially contaminated soils left to be removed are where the tunnel connection must be made to the below grade levels of the parking garage.

Modifications to the Work Plan

There were no modifications to the work plan during the month of November.

Problems Encountered

During the collection of the verification samples on November 7, the garage contractor was observed applying an oil coating to the forms used when pouring foundations, footers, columns, etc. The form oil had a strong fuel oil odor and was applied by spraying from a pressure cylinder. During the process of coating the forms, a significant amount of over spray occurred. This procedure has apparently been used throughout the course of the garage construction.

While the level of contamination from the over spraying is probably not significant, the potential for the form oil on soils to create uncertainty about the verification sample results was noted. Many of the same petroleum compounds could be expected from both stoddard solvent and fuel oil. An attempt was made to sample soils at a depth of six inches to avoid potential interferences that might be caused by surficial contamination from the form oil.

Deliverables

The attached verification sample analytical results and location drawing were provided to Todd Caffoe, NYSDEC, via fax on December 6.

Actions for the Coming Month

Christa Construction and A.V. Towner may be completing the tunnel connection during December.

The City will meet with the NYSDEC on site to review the verification sample results and make final determinations regarding the locations of vent pipe.

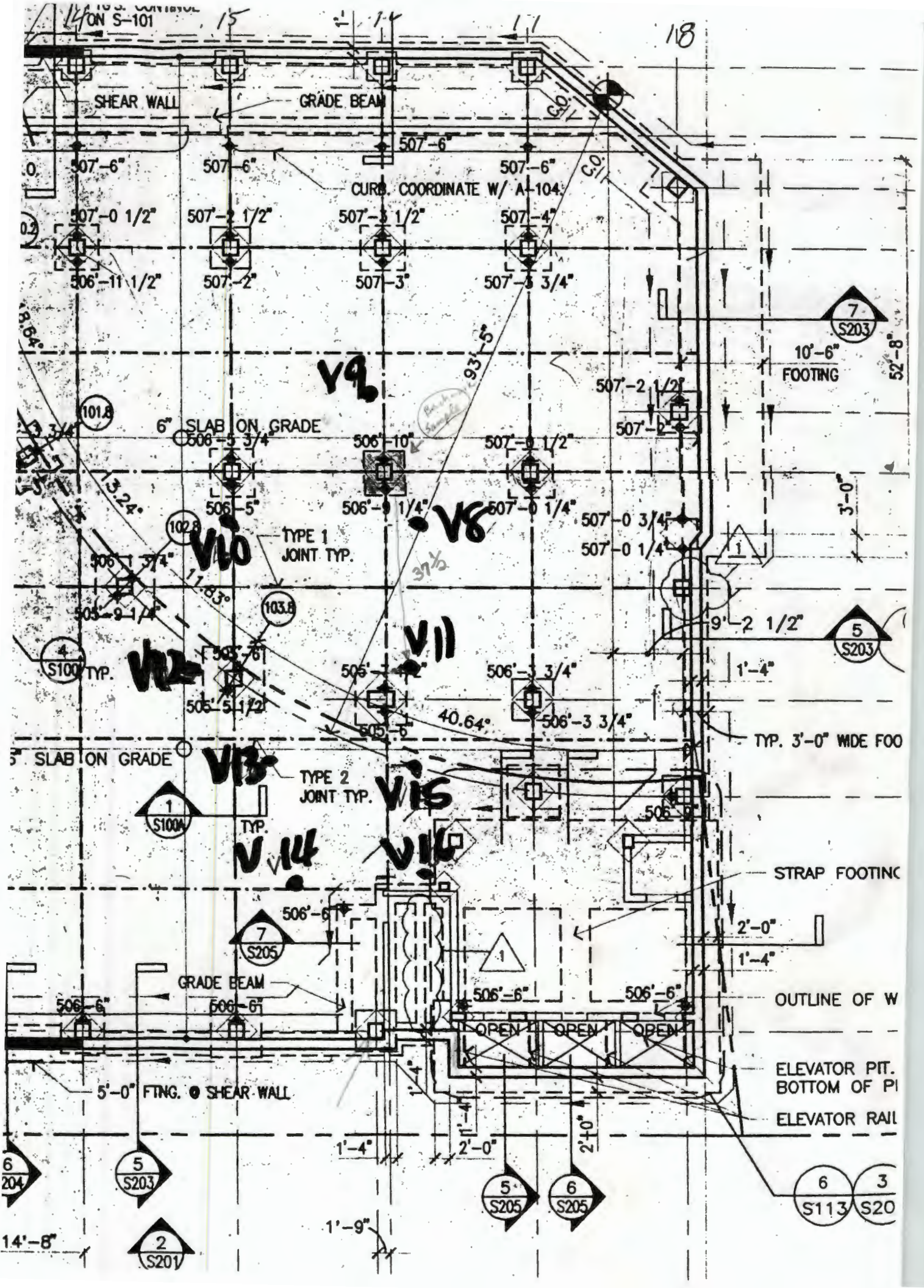
Seeler Associates will continue to refine the ventilation system specifications and location with the garage architect and the HVAC mechanical contractor.

Gasoline Contamination

As was stated in the October 10 Progress Report, additional analytical results from samples taken from the south face of the excavation at the area of gasoline contamination by Seeler Associates. These data are now being plotted on a site drawing and will be sent to Bill Shutts of NYSDEC Region 8 when completed..

g:\envqual\progrep6

Attachment 1


ON S-101
SHEAR WALL
GRADE BEAM
CURB. COORDINATE W/ A-104.
507'-6"
507'-0 1/2"
507'-2 1/2"
507'-3 1/2"
507'-4"
506'-11 1/2"
507'-2"
507'-3"
507'-3 3/4"
10'-6"
FOOTING
6" SLAB ON GRADE
506'-5 3/4"
506'-10"
507'-0 1/2"
506'-5"
506'-9 1/4"
507'-0 1/4"
507'-0 3/4"
TYPE 1
JOINT TYP.
506'-1 3/4"
505'-9 1/4"
505'-6"
505'-5 1/2"
506'-3 3/4"
505'-5"
40.64°
TYP. 3'-0" WIDE FOO
SLAB ON GRADE
TYPE 2
JOINT TYP.
TYP.
506'-6"
STRAP FOOTINC
2'-0"
1'-4"
GRADE BEAM
OUTLINE OF W
OPEN
OPEN
OPEN
ELEVATOR PIT.
BOTTOM OF PI
ELEVATOR RAIL
5'-0" FTG. @ SHEAR WALL
1'-4"
2'-0"
1'-9"
14'-8"
93'-5"
52'-8"
3'-0"
9'-2 1/2"
13.24°
11.83°
37½
V9
V10
V11
V12
V13
V14
V15
V16
V8
101.8
102.8
103.8
S100
S203
S205
S201
S113
S20

226-2909

ORGANICS QUALIFIERS - 1991

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result isless than the sample quantitation limit but greater than zero.

N - Indicates presumptive evidence of a compound. This flag is only used for tenatively identified compound, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC.MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V9

ame: GENERAL TESTING Contract: SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-2

e wt/vol: 5 (g/mL) G Lab File ID: >J1459

: (low/med) LOW Date Received: 11/07/94

sture: not dec.8 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V8DUP

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-1

wt/vol: 1 (g/mL) G Lab File ID: >J1462

(low/med) LOW Date Received: 11/07/94

ture: not dec.8 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	27.	U
71-43-2	Benzene	27.	U
108-88-3	Toluene	27.	U
100-41-4	Ethylbenzene	27.	U
1330-20-7	(m+p)Xylene	27.	U
1330-20-7	o-Xylene	27.	U
98-82-8	Isopropyl_Benzene	27.	U
103-65-1	n-Propylbenzene	27.	U
108-67-8	1,3,5-Trimethylbenzene	27.	U
98-06-6	tert-Butylbenzene	27.	U
95-63-6	1,2,4-Trimethylbenzene	27.	U
135-98-8	sec-Butylbenzene	27.	U
99-87-6	p-Isopropyltoluene	27.	U
104-51-8	n-Butylbenzene	27.	U
91-20-3	Naphthalene	27.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V10

ume:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

t: (soil/water) SOIL Lab Sample ID: 4374-3

wt/vol: 5 (g/mL) G Lab File ID: >J1446

(low/med) LOW Date Received: 11/07/94

ture: not dec.3 Date Analyzed: 11/18/94

1: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

>t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V11

ame:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-4

e wt/vol: 1 (g/mL) G Lab File ID: J1465

: (low/med) LOW Date Received: 11/07/94

sture: not dec.9 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	27.	U
71-43-2	Benzene	27.	U
108-88-3	Toluene	27.	U
100-41-4	Ethylbenzene	13.	J
1330-20-7	(m+p)Xylene	76.	
1330-20-7	o-Xylene	100.	
98-82-8	Isopropyl_Benzene	72.	
103-65-1	n-Propylbenzene	160.	
108-67-8	1,3,5-Trimethylbenzene	3600.	E
98-06-6	tert-Butylbenzene	27.	U
95-63-6	1,2,4-Trimethylbenzene	7700.	E
135-98-8	sec-Butylbenzene	550.	
99-87-6	p-Isopropyltoluene	1900.	E
104-51-8	n-Butylbenzene	27.	U
91-20-3	Naphthalene	26.	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V11DL

ame: GENERAL TESTING Contract: SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

t: (soil/water) SOIL Lab Sample ID: 4374-4DL

e wt/vol: 4 (g/mL) G Lab File ID: >Q2543

: (low/med) MED Date Received: --/--/--

sture: not dec.9 Date Analyzed: 11/21/94

a: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: 10000 (uL)

ot Volume: 50 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	1400.	U
71-43-2	Benzene	1400.	U
108-88-3	Toluene	1400.	U
100-41-4	Ethylbenzene	1400.	U
1330-20-7	(m+p)Xylene	1400.	U
1330-20-7	o-Xylene	1400.	U
98-82-8	Isopropyl_Benzene	1400.	U
103-65-1	n-Propylbenzene	1400.	U
108-67-8	1,3,5-Trimethylbenzene	3600.	D
98-06-6	tert-Butylbenzene	1400.	U
95-63-6	1,2,4-Trimethylbenzene	8100.	D
135-98-8	sec-Butylbenzene	560.	JD
99-87-6	p-Isopropyltoluene	1500.	D
104-51-8	n-Butylbenzene	1400.	U
91-20-3	Naphthalene	1400.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V12

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-5

wt/vol: 5 (g/mL) G Lab File ID: >J1449

(low/med) LOW Date Received: 11/07/94

ture: not dec.9 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V13

ume:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-6

wt/vol: 5 (g/mL) G Lab File ID: >J1464

: (low/med) LOW Date Received: 11/07/94

sture: not dec.9 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V14

ie:GENERAL TESTING Contract:SEELER

le: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-7

wt/vol: 5 (g/mL) G Lab File ID: >J1468

(low/med) LOW Date Received: 11/07/94

ture: not dec.7 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
1634-04-4	Methyl-t-Butyl_Ether		5.	U
71-43-2	Benzene		5.	U
108-88-3	Toluene		5.	U
100-41-4	Ethylbenzene		5.	U
1330-20-7	(m+p)Xylene		5.	U
1330-20-7	o-Xylene		5.	U
98-82-8	Isopropyl_Benzene		5.	U
103-65-1	n-Propylbenzene		5.	U
108-67-8	1,3,5-Trimethylbenzene		5.	U
98-06-6	tert-Butylbenzene		5.	U
95-63-6	1,2,4-Trimethylbenzene		5.	U
135-98-8	sec-Butylbenzene		5.	U
99-87-6	p-Isopropyltoluene		5.	U
104-51-8	n-Butylbenzene		5.	U
91-20-3	Naphthalene		5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V15

lame:GENERAL TESTING Contract:SEELER

:ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

ix: (soil/water) SOIL Lab Sample ID: 4374-8

le wt/vol: 5 (g/mL) G Lab File ID: >J1451

l: (low/med) LOW Date Received: 11/07/94

isture: not dec.9 Date Analyzed: 11/19/94

m: (pack/cap) CAP Dilution Factor: 1.0

l extract Volume: -- (uL)

iot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V16

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-9

wt/vol: 5 (g/mL) G Lab File ID: >J1461

(low/med) LOW Date Received: 11/07/94

ture: not dec.9 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VTB

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) WATER Lab Sample ID: 4374-10

e wt/vol: 5 (g/mL) ML Lab File ID:)Q2505

: (low/med) LOW Date Received: 11/07/94

sture: not dec.100 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VTBRE

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) WATER Lab Sample ID: 4374-10RE

e wt/vol: 5 (g/mL) ML Lab File ID: >Q2542

: (low/med) LOW Date Received: 11/07/94

sture: not dec.100 Date Analyzed: 11/21/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
1634-04-4	Methyl-t-Butyl_Ether		5.	U
71-43-2	Benzene		5.	U
108-88-3	Toluene		5.	U
100-41-4	Ethylbenzene		5.	U
1330-20-7	(m+p)Xylene		5.	U
1330-20-7	o-Xylene		5.	U
98-82-8	Isopropyl_Benzene		5.	U
103-65-1	n-Propylbenzene		5.	U
108-67-8	1,3,5-Trimethylbenzene		5.	U
98-06-6	tert-Butylbenzene		5.	U
95-63-6	1,2,4-Trimethylbenzene		5.	U
135-98-8	sec-Butylbenzene		5.	U
99-87-6	p-Isopropyltoluene		5.	U
104-51-8	n-Butylbenzene		5.	U
91-20-3	Naphthalene		5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V8

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-11

e wt/vol: 5 (g/mL) G Lab File ID: >J1467

: (low/med) LOW Date Received: 11/07/94

sture: not dec.8 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

City of Rochester

Todd

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

January 17, 1995

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 7

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the seventh progress report documenting work during the month of December, 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

irmprtr6.let

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
January 10, 1995

Progress Report No. 7
Work Completed Through December 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

No contaminated soil was excavated from the site during this reporting period. The only remaining soil excavation that could result in the removal of contaminated soil, the tunnel connection, was not performed during December.

No drums of waste were generated at the site or disposed of during December.

On December 7, Mark Gregor (City Division of Environmental Quality) met with Todd Caffoe of Region 8 on site to review the results of the soil verification data and discuss the final vent system layout. On December 16, the City submitted a proposed final vent system layout to the NYSDEC, Monroe County Health Department and New York State Department of Health for comment and approval (See Attachment 1).

The City's ventilation system designer, Seeler Associates, continued to develop detailed system specifications and work with the garage architect to identify satisfactory locations within the garage for the system components. Seeler Associates also began preparing the final IRM report required by the Order on Consent.

Percent Completion: The IRM soil removal project is approximately 99.5 % complete based on the estimate of the remaining volume of potentially contaminated soil to be removed. This estimate is for the below grade tunnel connection to the garage .

We anticipate submitting the final vent system plans and specifications for NYSDEC approval in early February. The comprehensive IRM report should be ready for submission in early March.

Modifications to the Work Plan

The proposed final vent system layout incorporated modifications to the procedures in the approved Work Plan with respect to contaminated soil that will be left in place. Details of the City's proposed vent system layout are discussed in Attachment 1.

The City proposal is to leave approximately three to four feet of soil at the base of the northeast section of the garage. The verification sample results and field observations indicate that limited portions of the remaining soil are contaminated with compounds at levels in excess of the STARS guidance criteria. The analytical results from verification sampling indicated that the upper six inches of the remaining soil is, for the most part, uncontaminated. The Work Plan requires ventilation of areas where contamination exceeds STAR's guidance criteria.

The City plan involves the reallocation of remaining project resources to control vapor migration into the garage from areas outside the garage footprint. Seeps of the brown, solvent smelling liquid characteristic of the heavily contaminated areas encountered beneath the former dry cleaner have been observed on the shoring along the north side of the garage. It is the City's position that the soil on the north side of shoring represents a greater potential source of contamination and nuisance odors to the garage than the soil below the base floor slab. The City therefore proposes to install vent pipe in the select drain material that will be backfilled between the north foundation and the shoring.

Problems Encountered

No problems were encountered during the reporting period.

Deliverables

The verification sample analytical results and location drawing were provided to Todd Caffoe, NYSDEC, via fax on December 6. The City's proposal for the final vent system layout including drawings and summary data were submitted on December 16 to Mary Jane Peachey, NYSDEC Region 8 (Attachment 1).

Actions for the Coming Month

Seeler Associates will finalize the detailed drawings and specifications needed for the ventilation system based on the NYSDEC response to the City's proposed vent system modification. Installation of the vent system will be completed over the next few months as the garage construction is completed. The system should be operational by October, 1995.

The tunnel connection is tentatively scheduled for excavation at the end of February or early March.

Seeler Associates will continue to work on the final IRM report and provide the City with a draft for review and comment during February.

Gasoline Contamination

The completion of the site drawing identifying sample locations along the south face of the excavation has been delayed due to work load considerations and will be completed in February.

g:\envqual\progrep7

Attachment 1

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

December 16, 1994

Mary Jane Peachey, P.E.
New York Department of Environmental Conservation
6274 E. Avon Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM Vent System - Work Plan final layout

Dear Ms. Peachey:

On September 22 we sent you proposed additions to the vent system layout for the Court Street Parking Garage Project and in a follow-up October 20 letter provided the rationale for the vent system expansion. Your November 23 response indicated that the final plans for the vent system would be dependent on the results of verification soil samples collected on November 7. We provided our sample results for locations V8 to V16 to Todd Caffoe on December 6 and received the NYSDEC split sample results (V8 to V12) the following day from Todd. Copies of the analytical data are provided in Attachment 1.

Table 1 is a summary of the soil analytical data indicating results for those locations where contaminants were detected by either the NYSDEC or City analyses. I have included the previous test pit data from soils just to the north of the November 7 verification sampling area as well. No characteristic site contaminants, petroleum or chlorinated solvents related to dry cleaning, were detected at V8, V9, V10, V12, V13, V14, V15, or V16. Figure 1. is a sample location drawing

The results indicate that, in all but one location, the upper six inches of the remaining three feet of soil are not contaminated. Of the recent verification sampling, the only location where volatile organic compounds exceed STAR's guidance values was at V-11. The test pit data and our experience with excavating soils at this elevation (502-506 fmsl) suggests that some low-level contamination may be present at depths greater than six inches. However, the remaining 2 - 2.5 feet of soil do not exhibit the heavy staining or the sustained strong odors encountered at the apparent source area (the stone lined sump pit discovered at elevation 517-519 fmsl) or just above the dense glacial till (elevation 514-516 fmsl). At this point, we would propose that the soil conditions indicated by the verification data do not warrant the active ventilation system proposed in September or require removal. The garage excavation process has resulted in the removal of the source area and all heavily contaminated soil within the footprint of the garage. We believe the intent of the removal action described in the approved work plan has been met.

Based on observations of the shoring on the north side of the garage excavation, we do, however, now propose to install a 62 foot section of 4-inch diameter slotted schedule 40 PVC vent pipe between the foundation and the shoring along the eastern end of the north side of the garage. A

revised proposed vent system layout is presented in Figure 2. In this area we have observed staining of the lagging and occasional small seeps of the same dark brown liquid possessing a petroleum solvent odor that was detected at various times during the soil removal process. The new section of vent pipe would be located above the garage perimeter drain system. The vent pipe would help prevent the accumulation of vapors in the drain system. The perimeter drain system is piped to a central drain location beneath the lower level of the garage where it runs through sand separators before being pumped to the storm sewer in Court Street. In addition to installing the vent pipe, we believe that it will be appropriate to periodically inspect the drain system and the sand separators for the possible presence of contamination from material entering the perimeter drain system.

We would like to determine the final system layout as soon as possible so that materials can be ordered, and we will provide the detailed drawings and specifications as soon as they are ready. Please let me know if you or Todd have any questions or would like to discuss the proposed revisions to the vent system. Thank you.

Sincerely,

Mark D. Gregor
Environmental Specialist
428-5978

attach.
xc.
T.Caffoe,NYS-DEC
R.Elliott,MC-DOH
D.Napier,NYS-DOC
James Hazel, NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

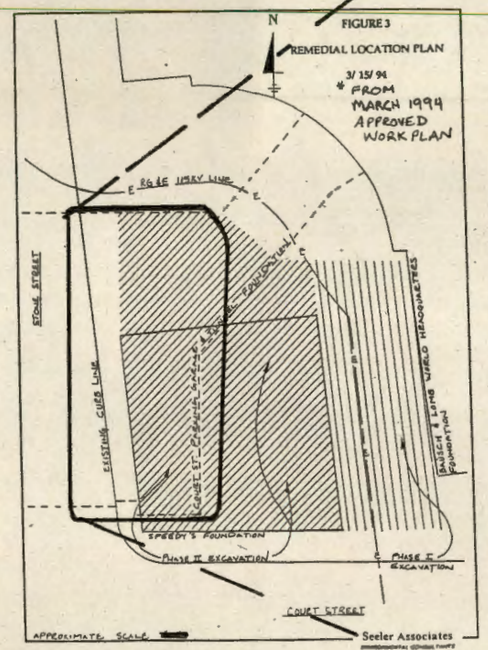
g:\envqual\irmchan2

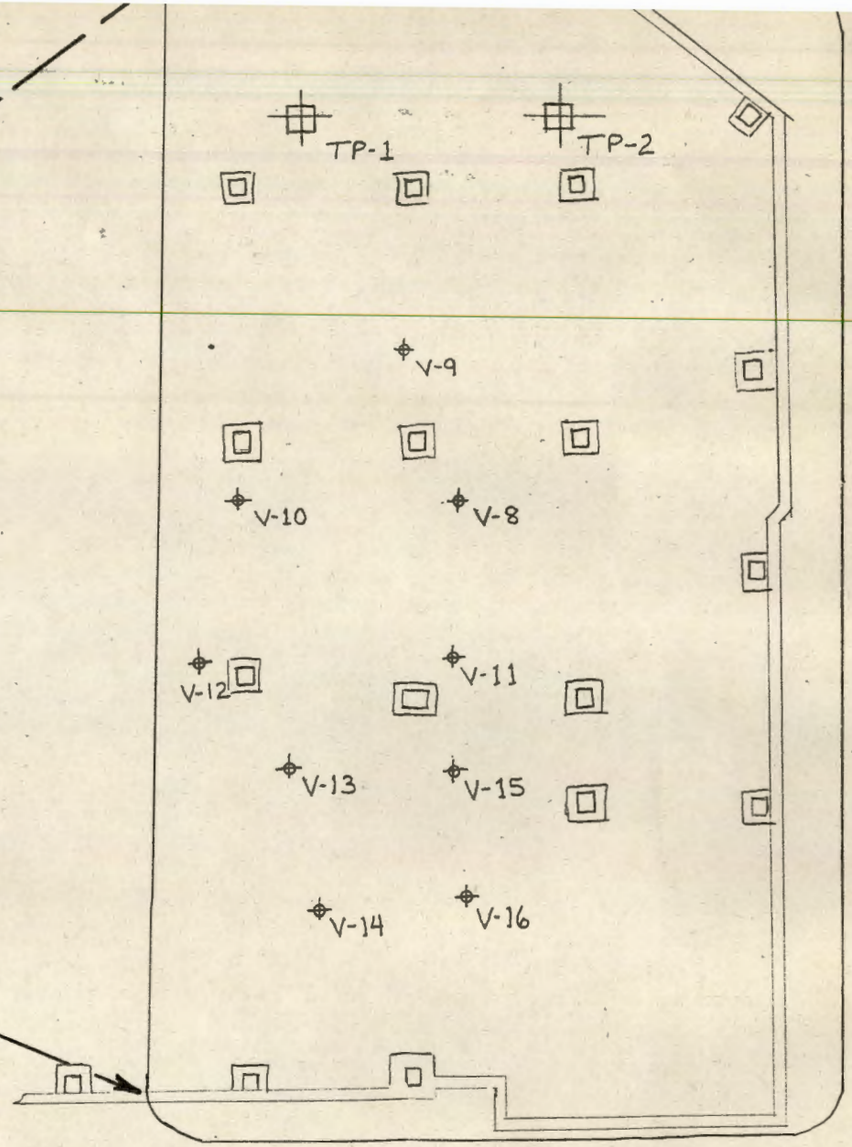
Table 1. Court Street Parking Garage IRM
Soil sample results for locations where contaminants were detected

	Sample Results (ug/kg)						
Compound	**TP-1**	**TP-2**	**V-8^S**	**V-9^S**	**V-10^S**	**V-11**	**V-11^S**
ethylbenzene	8.8	5600	nd	nd	nd	13j	2.7
(m+p) xylene	nd	2800	na	na	na	76	na
o-xylene	22	15000	na	na	na	100	na
total xylene	na	na	nd	nd	nd	na	94
isopropylbenzene	16	12000	na	na	na	72	na
n-propylbenzene	nd	15000	na	na	na	160	na
1,3,5-trimethylbenzene	19	14000	na	na	na	3600e	na
1,2,4-trimethylbenzene	10	33000	na	na	na	7700e	na
sec-butylbenzene	nd	nd	na	na	na	550	na
p-isopropyltoluene	7.8	4300	na	na	na	1900e	na
napthalene	nd	nd	na	na	na	26j	na
n-butylbenzene	47	24000	na	na	na	nd	na
methylene chloride	na	na	1.5	1.3	1.5	na	1.4
acetone	na	na	nd	nd	nd	na	7.6
tetrachloroethylene	na	na	nd	nd	nd	na	5.4
TIC's:	na	na	na	na	na	na	
unknown hydrocarbon							220j
unknown hydrocarbon							280j
propyl benzene isomer							370j
propyl benzene isomer							560j
unknown hydrocarbon							950j
propyl benzene isomer							520j
unknown							210j
propyl benzene isomer							620j
butyl benzene isomer							370j
butyl benzene isomer							470j

Notes: S - indicates a NYSDEC split sample result
nd - not detected during analysis
na - analysis not performed for this compound
j - estimated concentration

FIGURE 1





TEST PIT LOCATION

SOIL SAMPLE LOCATION

SUPPORT COLUMN/FOOTER

SCALE 1/16" = 1'0"

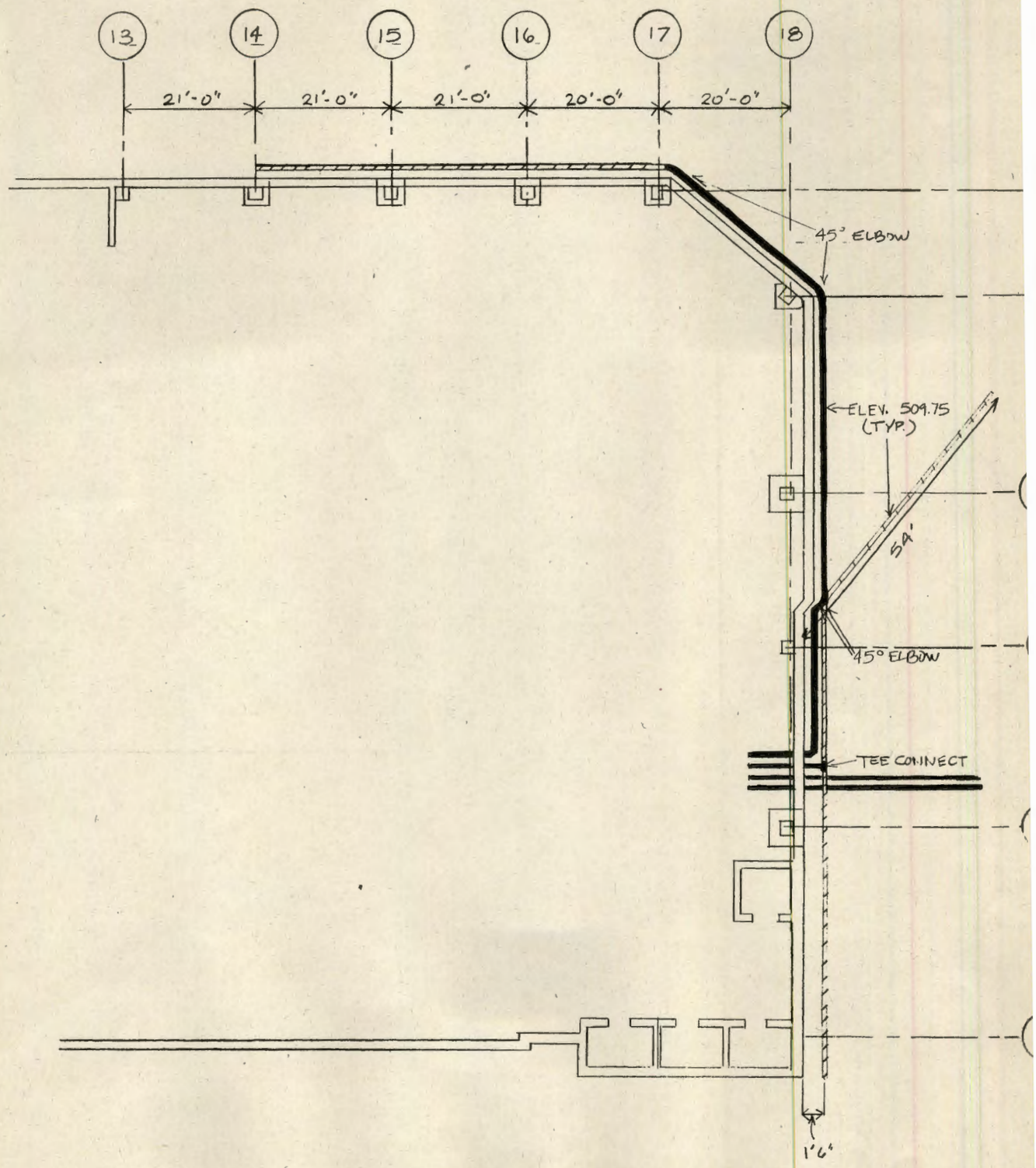
VERIFICATION SAMPLE LOCATION PLAN

COURT STREET

PARKING GARAGE 12-16-94

FIGURE 2

DRAFT



SLOTTED PIPE 4"ϕ

SOLID PIPE 4"ϕ

SCALE $\frac{1}{16}$" = 1'0"

PLAN VIEW

PIPING LAYOUT

LEVEL "B"

COURT ST. PARKING

GARAGE

REVISED 12-13-94

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

July 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 1

Dear Mr. Cafe:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing a report documenting the progress of the Court Street Parking Garage Site IRM. Hereafter, progress reports will be forwarded on a monthly basis through the end of the project.

I can be reached at 428-5978 if you have any questions. Thank you for you cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
July 8, 1994

Progress Report No. 1
Work Completed Through June 30, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

In accordance with the approved work plan, Phase I soil removal activities (east of the Speedy's building) began in March 1994. LeChase Construction began excavation on March 21, after analytical results from in-situ soil samples were received. These samples were collected to profile the soil/waste streams and results were forwarded to Todd Caffoe, (Region 8/NYS-DEC) at that time. MARCOR representatives monitored the site for health and safety plan compliance and performed screening of the soils according to the work plan.

Excavation was completed to the target depth of the dense glacial till, 516 fmsl, and PVC vent pipe was installed as required in areas of contaminated soil that could not be excavated due to risk of structural damage to adjacent footers. Confirmational soil samples were collected and analyzed prior to backfilling and compacting for the road bed. Copies of these sample results were sent to Todd Caffoe. A total of 1588 tons of nonhazardous special waste soil and 277 tons of hazardous waste (F002) soil were sent for off-site disposal. Phase I is completed.

Phase II remedial activities began once the Speedy Cleaners building demolition was completed. Both the excavation contractor and the health and safety/environmental monitor changed to Bianchi Trison Corporation and Upstate Environmental respectively. After samples were collected to identify locations where perchloroethylene (PCE) was present, Bianchi Trison began Phase II excavation activities on May 4, 1994 and continued until May 13. During this time two underground storage tanks, one containing fuel oil and the other stoddard solvent, were also removed from the northwest section of the former building footprint. Bianchi Trison and Upstate were replaced on May 16 with LeChase and Marcor.

LeChase completed the excavation to 516 fmsl or uncontaminated soil conditions within the foundations of the former Speedy Cleaners building on May 24, 1994. Verification

sampling as required by the work plan was performed on the eastern half of the footprint of the former Speedy's building. An additional separate section of vent pipe was installed in the north east section of the Phase II area and a connection made to the earlier Phase I vent pipe installation. A total of 2802 tons of soil characterized as special waste has been removed to date from the Phase II area as well as 1174 tons of soil identified as hazardous (F002) wastes.

Percent Completion: The overall IRM project is approximately 80% complete

Modifications to the Work Plan

Several changes in contractors occurred during the work to date reflecting the different contracts awarded by the City. The changes are described in the progress section above.

It became necessary to split the Phase II excavation work into separate stages because of the concern over the structural stability of Stone Street and the prohibitive added costs for temporary shoring. This change was conveyed in writing to Todd Caffoe in an April 18 letter (Attachment 1) from Mark Gregor.

Because PCE was encountered outside the footprint of the Speedy building prior to Phase I excavations, it became necessary to gather more waste profile samples for Method 8010 analyses than was originally required in the work plan. The additional sampling and analytical requirements were described in an April 28 letter (Attachment 2) from Mark Gregor to Todd Caffoe.

Problems Encountered

During excavation of the north central area of the former Speedy's site a gravel/ash-filled, stone-lined sump pit was encountered about 11 feet below grade. The pit had to be gradually excavated and drained because it contained a dark brown liquid with a

strong solvent odor that upon analysis was determined to contain stoddard solvent and PCE. Approximately 750 gallons of the waste solvent were collected and drummed for disposal. Soil excavation was delayed briefly during this work.

Outside the project limits, but within the Court Street Garage footprint west of Stone Street, 4060 tons of gasoline contaminated soil was also removed. Excavation and disposal of this soil did not affect completion of the IRM activities.

Deliverables

Analytical data from soil samples were either provided via fax or reviewed directly with DEC staff. A complete set of all soil sample results is attached with this progress report (Attachment 3).

The final draft of the Site Investigation Report and Interim Remedial Measure Work Plan prepared by Seeler Associates was hand delivered to the Region 8 Office of the NYS-DEC on March 16, 1994 in conjunction with the execution of the order on consent for this project.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

The contractor awarded the garage construction project, Christa Construction, will be responsible for the remaining excavation of potentially contaminated soils that are in the footprint of the garage and tunnel. This will include the western half of the Phase II area below 516 fmsl and the tunnel area in what was previously Climax Alley. According to MEC Corporation, the excavation subcontractor to Christa, these Phase II excavation activities should resume the week of July 25, 1994. Soil removal beneath and west of Stone Street is currently underway.

Attachment 1

DEQ93018 (2)

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

April 18, 1994

Todd Caffoe
Environmental Engineer
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM schedule

Dear Mr. Caffoe:

As we discussed last week, the Phase II excavation activities described in the IRM work plan are being split between the demolition and excavation contractor and the contractor awarded the garage construction contract. Bianchi Trison, the demolition and excavation contractor, will excavate the foot print of the Speedys building to an elevation of 516 feet begining the week of April 24. The 516 foot elevation corresponds to the dense till layer identified in Figure 5 of the work plan and was the final depth of the Phase I excavation between Speedys and the Wintergarden. In order to avoid costly shoring, the deeper excavation to rock beneath the western third of Speedys will be performed by the garage contractor beginning in late May or early June.

The IRM scope of work for the project has not changed, only the timing of the excavation and completion of the soil gas vent system. This change will not affect our ability to comply with the terms of the consent order.

Let me know if you have any questions about this change.

Sincerely,

Mark D. Gregor
Environmental Specialist

xc. R.Elliott
D.Napier
E.Dohery
J.Brennan
N.Burton
S.Feurerstein
D.Zariczny
A.Klumpp✓
T.Seeler

Attachment 2

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

April 28, 1994

Todd Caffoe
Environmental Engineer
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 11414

Re: Court Street Parking Garage IRM Work Plan modification

Dear Mr. Caffoe:

During the Phase 1 excavation activities along the east side of Speedys, we identified a limited area of perchloroethylene (PCE). Previously PCE had been detected only in one location beneath the first floor slab in the northern part of the building. As a result of finding PCE in an additional location, we believe that in order for us to adequately characterize the soil waste stream we need to perform additional sampling prior to excavation.

Our proposed revision is to add two additional sampling efforts. Once the first floor slab and the area already defined as PCE contaminated is removed, we propose to add a test pit sampling program on a 25 x 25 foot grid pattern over the entire exposed area. Samples will be collected in the same manner as identified in the verification sampling section of the work plan and analyzed for method 8010 compounds. Based on the results, we will proceed to excavate contaminated soil areas as special waste or F002 waste, if PCE is present. Excavation will continue until we reach the basement elevation. The basement floor slab will then be removed and the grid sampling procedure repeated. Based on the analytical results, excavation will continue to the dense till (515 ft. elevation). Verification sample procedures will be performed as in the work plan.

The excavation contractor expects to remove the first floor slab on Monday May 2. If you have any questions or concerns about the additional sampling efforts please let me know. If I am not in my office I have a cellular phone (746-5244). Thank you for your cooperation.

Sincerely,

Mark D. Gregor
Environmental Specialist

xc. R.Elliott
D.Napier
T.Caffoe
A.Klumpp
J.Brennan

Attachment 3

Todd

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

August 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 2

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the second progress report documenting work during the month of July 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark Gregor

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
August 8, 1994

Progress Report No. 2
Work Completed Through July 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of July by the garage contractor, Christa Construction and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil under the former Stone Street and Climax Alley right-of-way was excavated to the intermediate target elevation of 515-516 fmsl. In order to complete excavations at the west end of the garage and install shoring, some areas of contaminated soil were removed and temporarily staged on site. The base of the excavation completed by LeChase in June was covered with sheets of 8-mil polyethylene. The plastic served to prevent cross contamination in areas already excavated to 515-516 fmsl where staged soils were to be placed. In addition, the plastic was used as marker to define the depths of existing test pit data on soil waste characteristics. Soils below the plastic required additional test pitting and sampling to determine if perchloroethylene (PCE) was present.

During July, 9,218 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. An additional 880 tons of gasoline contaminated soil from the former service station location west of Stone Street were also removed from the site and disposed of at the Mill Seat Landfill.

MEC Corporation has continued to excavate to the target elevation of 515-516 fmsl in the vicinity of the former Speedy Cleaners building at the east end of the garage footprint.

On July 22 while augering to bedrock for a piling on the east end of the garage, MEC encountered contaminated water and soil. Auger cuttings were staged on plastic and a sample collected. The soil sample and a sample of the water were submitted for Method 8010 analyses. PCE was not detected in either sample. The stoddard contaminated water was pumped into 15 drums which were transported to a disposal facility. The laboratory results are provided in Attachment 1.

Test pit excavations, sampling and analysis of the soil that must still be removed to construct the garage were performed on two occasions. The first test pit was excavated and sampled on July 13 beneath the Rochester Telephone Corporation (RTC) transmission line suspension bridge located below the former Stone Street R-O-W. Stoddard contamination appeared to extended to approximately the western limits of the Stone Street R-O-W. Three additional test pits were performed on July 27 between the site entry ramp, located in the eastern third of the footprint of the Speedy's building, and the RTC bridge.

PCE was not detected in any of the soil samples collected (Attachment 2). Based on these results the City will characterize the remaining contaminated soil as special waste.

Various drums of waste generated during different phases of the project were shipped from the site in July: 3 labpack drums, 5 drums of stoddard/water/sludge, 25 drums of PCE/stoddard/water, and 15 drums of stoddard/water.

Percent Completion: The overall IRM project is approximately 85% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

The change in contractors to Christa and MEC was noted in the previous section.

Additional waste profile samples for Method 8010 analyses were again collected. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

Problems Encountered

Construction related delays slowed the contaminated soil removal process in early July. No additional problems were encountered.

Deliverables

Analytical results from soil and water samples were discussed directly with DEC staff. A complete set of all July sample results is attached with this progress report.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC, will be responsible for excavating approximately 6,000 tons of nonhazardous contaminated soils that remain in the footprint of the garage and tunnel. Over most of this area excavation will be to bedrock. Upon completion of the garage excavation, verification sampling of any remaining soils will be performed in accordance with the work plan. Sampling is tentatively planned for early September.

The preliminary designs for the final ventilation system layout are being prepared. A proposed layout and system will be submitted for DEC review in late August or early September.

Attachment 1

test pit under telephone bridge

Seeler Associates
Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: Ann Klumpp

Company: C.D.R.

Phone:

Fax: 428-6010

FROM: Pete Von Schondorf

Date: 7-15-94

Pages Including this cover page: 2

Comments:

SAMPLE RESULT B & L

____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

S-1

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: SCOTT BABEL
Date: 07/15/94
Time: 07:49
Client: SEELER
Job #: R94/02630
Sample #: -001

LABORATORY REPORT-TRACOR 540 (T4)
Column: 1ZSP1000 CARBOPACK
Analysis: Priority Pollutants
Purgeable Organics (8020) BTEX

% - SOLID 92.5%

07/14/94 CRV

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/kg)
Chloroethane			0.0	1	5.4 U
Bromomethane			0.0	1	5.4 U
Vinyl Chloride			0.0	1	2.2 U
Chloroethane			0.0	1	2.2 U
Methylene Chloride			0.00	1	1.1 U
Trichlorofluoromethane			0.0	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
1,1-Dichloroethane			0.0	1	1.1 U
1,2-Dichloroethene(TOTAL)			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
Dibromochloromethane			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Chlorobenzene			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
8010 ONLY			0.0	1	2.2 U
Total Volatiles					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	% RECOVERY	Accep. Limits
Bromochloromethane (1)	10.48	158	22.6	30	75	66-128
1,2,3-Trichloropropane (2)				30		50-141
Chlorofluorobenzene HALL	27.16	92.4	25.7	30	86	60-108
Chlorofluorobenzene PID			0.0	30	0	60-140

Attachment 2

Seeler Associates

Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: Mark Gregor

Company: C.O.R.

Phone:

Fax: 428-6010

FROM: Pete VS

Date:

Pages Including this cover page: 5

Comments: SPEEDY SOIL RESULTS

____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 15:40
Client: SEELER
Job #: R94/02774
Sample #: -001

TP-1

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 93.0%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)	
Chloromethane			0.0	1	5.4	U
Vinyl Chloride			0.00	1	2.2	U
Bromomethane			0.0	1	5.4	U
Chloroethane			0.0	1	2.2	U
Trichlorofluoromethane			0.00	1	1.1	U
1,1-Dichloroethene			0.0	1	1.1	U
Methylene Chloride			0.0	1	1.1	U
1,2-Dichloroethene (TOT)			0.0	1	1.1	U
1,1-Dichloroethane			0.0	1	1.1	U
Chloroform			0.0	1	1.1	U
1,1,1-Trichloroethane			0.0	1	1.1	U
Carbon Tetrachloride			0.0	1	1.1	U
1,2-Dichloroethane			0.0	1	1.1	U
Trichloroethene			0.0	1	1.1	U
1,2-Dichloropropane			0.0	1	1.1	U
Bromodichloromethane			0.0	1	1.1	U
2-Chloroethylvinyl Ether			0.0	1	2.2	UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1	U
1,3-Dichloropropene (Trans)			0.0	1	2.2	U
1,1,2-Trichloroethane			0.0	1	2.2	U
Tetrachloroethene			0.0	1	1.1	U
Dibromochloromethane			0.0	1	2.2	U
Chlorobenzene			0.0	1	2.2	U
Bromoform			0.0	1	2.2	U
1,1,2,2-Tetrachloroethane			0.0	1	2.2	U
1,3-Dichlorobenzene (m)			0.0	1	2.2	U
1,4-Dichlorobenzene (p)			0.0	1	2.2	U
1,2-Dichlorobenzene (o)			0.0	1	2.2	U
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
8010 ONLY			0.0	1	0.00	
TOTAL VOLATILES					0.00	

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloroethane	17.55	263	21.3	30	71	66-128
Chlorofluorobenzene	30.09	153	25.3	30	84	60-108

DL
7/28/94

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-8760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 16:46
Client: SEELER
Job #: R94/02774
Sample #: -002

TP-2

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.4%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloromethane			0.0	1	5.4 U
Vinyl Chloride			0.00	1	2.2 U
Bromomethane			0.0	1	5.4 U
Chloroethane			0.0	1	2.2 U
Trichlorofluoromethane			0.00	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
Methylene Chloride			0.0	1	1.1 U
1,2-Dichloroethene (TOT)			0.0	1	1.1 U
1,1-Dichloroethane			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Dibromochloromethane			0.0	1	2.2 U
Chlorobenzene			0.0	1	2.2 U
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
TOTAL VOLATILES					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	17.54	276	22.3	30	74	66-128
Chlorofluorobenzene	30.09	163	27.0	30	90	60-108

DL
7/28/94

TP-3

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 17:44
Client: SEELER
Job #: R94/02774
Sample #: -003

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.3%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloroethane			0.0	5	27 U
Vinyl Chloride			0.00	5	11 U
Bromoethane			0.0	5	27 U
Chloroethane			0.0	5	11 U
Trichlorofluoromethane			0.00	5	5.4 U
1,1-Dichloroethene			0.0	5	5.4 U
Methylene Chloride			0.0	5	5.4 U
1,2-Dichloroethene (TOT)	16.42	109	6.0	5	32
1,1-Dichloroethane			0.0	5	5.4 U
Chloroform			0.0	5	5.4 U
1,1,1-Trichloroethane			0.0	5	5.4 U
Carbon Tetrachloride			0.0	5	5.4 U
1,2-Dichloroethane			0.0	5	5.4 U
Trichloroethene			0.0	5	5.4 U
1,2-Dichloropropane			0.0	5	5.4 U
Bromodichloromethane			0.0	5	5.4 U
2-Chloroethylvinyl Ether			0.0	5	11 UJ
1,3-Dichloropropene (Cis)			0.0	5	5.4 U
1,3-Dichloropropene (Trans)			0.0	5	11 U
1,1,2-Trichloroethane			0.0	5	11 U
Tetrachloroethene			0.0	5	5.4 U
Dibromochloromethane			0.0	5	11 U
Chlorobenzene			0.0	5	11 U
Bromoform			0.0	5	11 U
1,1,2,2-Tetrachloroethane			0.0	5	11 U
1,3-Dichlorobenzene (m)			0.0	5	11 U
1,4-Dichlorobenzene (p)			0.0	5	11 U
1,2-Dichlorobenzene (o)			0.0	5	11 U
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
8010 ONLY			0.0	5	0.00
TOTAL VOLATILES					32.00

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	17.54	376	30.4	30	101	66-128
Chlorofluorobenzene	30.11	189	31.3	30	104	60-108

7/28/94

RE-ANALYSIS OF TP-3

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE LIPANI
Date: 07/27/94
Time: 23:36
Client: SEELER
Job #: R94/02774
Sample #: -003

TP-3

LABORATORY REPORT-T3
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/23/94 Curve

% SOLID 92.3%

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/Kg)
Chloroethane			0.0	1	5.4 U
Vinyl Chloride			0.00	1	2.2 U
Bromoethane			0.0	1	5.4 U
Chloroethane			0.0	1	2.2 U
Trichlorofluoromethane			0.00	1	1.1 U
1,1-Dichloroethene			0.0	1	1.1 U
Methylene Chloride			0.0	1	1.1 U
1,2-Dichloroethene (TOT)	16.44	167	9.2	1	9.9
1,1-Dichloroethane			0.0	1	1.1 U
Chloroform			0.0	1	1.1 U
1,1,1-Trichloroethane			0.0	1	1.1 U
Carbon Tetrachloride			0.0	1	1.1 U
1,2-Dichloroethane			0.0	1	1.1 U
Trichloroethene			0.0	1	1.1 U
1,2-Dichloropropane			0.0	1	1.1 U
Bromodichloromethane			0.0	1	1.1 U
2-Chloroethylvinyl Ether			0.0	1	2.2 UJ
1,3-Dichloropropene (Cis)			0.0	1	1.1 U
1,3-Dichloropropene (Trans)			0.0	1	2.2 U
1,1,2-Trichloroethane			0.0	1	2.2 U
Tetrachloroethene			0.0	1	1.1 U
Dibromochloromethane			0.0	1	2.2 U
Chlorobenzene			0.0	1	2.2 U
Bromoform			0.0	1	2.2 U
1,1,2,2-Tetrachloroethane			0.0	1	2.2 U
1,3-Dichlorobenzene (m)			0.0	1	2.2 U
1,4-Dichlorobenzene (p)			0.0	1	2.2 U
1,2-Dichlorobenzene (o)			0.0	1	2.2 U
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
8010 ONLY			0.0	1	0.00
TOTAL VOLATILES					9.90

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits	
Bromochloromethane	17.56	213	17.2	30	* 57	66-128	* out of limit
Chlorofluorobenzene	30.15	121	20.0	30	67	60-108	

DL 7/28/94

Seeler Associates
Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: MARK GREGOR

Company: C.O.R.

Phone:

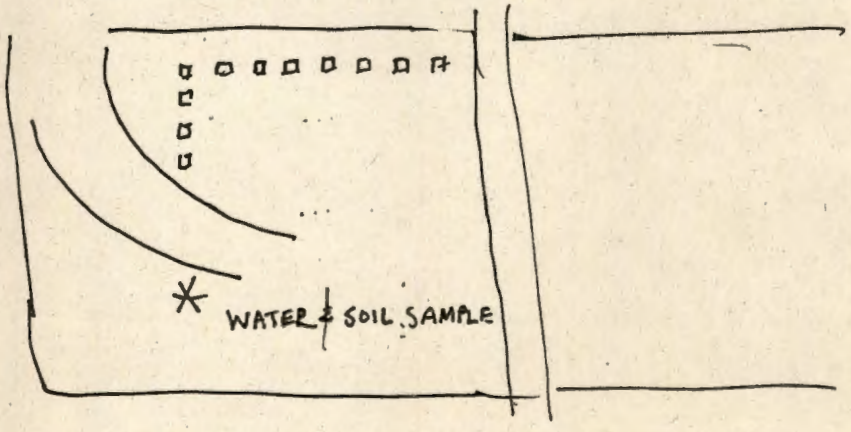
Fax: 426-6010

FROM: PETE VON SCHONDORF

Date: 7-27-94

Pages Including this cover page: 4

Comments: MARK - RESULTS FOR Soil & GROUNDWORK at SPEEDY'S. Will Fax groundwater to MARCOR



____ Originals Will Be Mailed ____ Originals Will Not Be Mailed

General Testing Corporation

A Full Service Environmental Laboratory

Date: 7/27

Job Number:

TO: Seeler

ATTENTION: Pete von Schondorf

FAX NUMBER: 262-6065 PAGES TO FOLLOW: 1

FROM: David Yaeger

INSTRUCTION/MESSAGE:

Ignitability >100°C
(Court St. Garage)

710 Exchange Street • Rochester, New York 14608 • (716) 454-3760 • Fax (716) 454-1245
65 Trinity Place • Hackensack, NJ 07601 • (201) 488-5242 • Fax (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • (716) 634-0454 • Fax (716) 634-9019

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DIANE LUCEY
Date: 07/26/94
Time: 23:06
Client: SEELER
Job #: R94/02749
Sample #: -001

Court St. garage

LABORATORY REPORT-T5
Analysis: Priority Pollutants
8010
Column: Restek Capillary
07/13/94 Curve

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/l)
Chloromethane			0.00	1	5.0 U
Vinyl Chloride			0.00	1	2.0 U
Bromomethane			0.00	1	5.0 U
Chloroethane			0.00	1	2.0 U
Trichlorofluoromethane			0.00	1	1.0 U
1,1-Dichloroethene			0.00	1	1.0 U
Methylene Chloride			0.00	1	1.0 U
1,2-Dichloroethene (TOT)			0.0	1	1.0 U
1,1-Dichloroethane			0.00	1	1.0 U
Chloroform			0.00	1	1.0 U
1,1,1-Trichloroethane			0.00	1	1.0 U
Carbon Tetrachloride			0.00	1	1.0 U
1,2-Dichloroethane			0.0	1	1.0 U
Trichloroethene			0.0	1	1.0 U
1,2-Dichloropropane			0.00	1	1.0 U
Bromodichloromethane			0.00	1	1.0 U
2-Chloroethylvinyl Ether			0.00	1	2.0 UJ
1,3-Dichloropropene (Cis)			0.00	1	1.0 U
1,3-Dichloropropene (Trans)			0.00	1	2.0 U
1,1,2-Trichloroethane			0.0	1	2.0 U
Tetrachloroethene			0.00	1	1.0 U
Dibromochloromethane			0.00	1	2.0 U
Chlorobenzene			0.00	1	2.0 U
Bromoform			0.00	1	2.0 U
1,1,2,2-Tetrachloroethane			0.00	1	2.0 U
1,3-Dichlorobenzene (m)			0.00	1	2.0 U
1,4-Dichlorobenzene (p)			0.00	1	2.0 U
1,2-Dichlorobenzene (o)			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
8010 ONLY			0.00	1	2.0 U
TOTAL VOLATILES					0.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
Bromochloromethane	18.57	150	26.7	30	89	60-138
Chlorofluorobenzene	29.94	74.6	28.3	30	94	60-121
1,2,3-Trichloropropane	35.11	141	25.1	30	84	60-140
Chlorofluorobenzene (Pid)			0.0	30	0	60-140

AL TESTING CORPORATION
xchange St., Rochester, N.Y
454-3760

ATORY REPORT-TRACOR 540 (T4)
n: 1%SP1000 CARBOPACK
sis: Priority Pollutants
able Organics (8010)

/94 CRV

Analyst: JEFF BRYANT
Date: 07/25/94
Time: 18:25
Client: SEELER
Job #: R94/02748
Sample #: -001

% - SOLID 90.3%

#1

Compound	Reten. Time	Area Units	Conc.	Dil.	Final Conc. (ug/kg)
omethane			0.0	1	5.5 U
methane			0.0	1	5.5 U
Chloride			0.0	1	2.2 U
oethane			0.0	1	2.2 U
lene Chloride			0.00	1	1.1 U
lorofluoromethane			0.0	1	1.1 U
ichloroethene			0.0	1	1.1 U
ichloroethane			0.0	1	1.1 U
ichloroethene(TOTAL)			0.0	1	1.1 U
oform			0.0	1	1.1 U
ichloroethane			0.0	1	1.1 U
-Trichloroethane			0.0	1	1.1 U
n Tetrachloride			0.0	1	1.1 U
dichloromethane			0.0	1	1.1 U
ichloropropane			0.0	1	1.1 U
ichloropropene (Cis)			0.0	1	1.1 U
loroethene			0.0	1	1.1 U
ichloropropene (Trans)			0.0	1	2.2 U
omochloromethane			0.0	1	2.2 U
-Trichloroethane			0.0	1	2.2 U
oroethylvinyl Ether			0.0	1	2.2 UJ
oform			0.0	1	2.2 U
,2-Tetrachloroethane			0.0	1	2.2 U
ichloroethene			0.0	1	1.1 U
obenzene			0.0	1	2.2 U
ichlorobenzene (m)			0.0	1	2.2 U
ichlorobenzene (o)			0.0	1	2.2 U
ichlorobenzene (p)			0.0	1	2.2 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
ONLY			0.0	1	0.0 U
Volatiles					0.00

ogate Standards		Reten. Time	Area Units	Total Rec'vry	Amt. Add.	% RECOVERY	Accep. Limits
ochloromethane	(1)	10.39	153	21.9	30	73	66-128
3-Trichloropropene	(2)				30		50-141
rofluorobenzene	HALL	31.56	74.4	20.7	30	69	60-108
rofluorobenzene	PID			0.0	30	0	60-140

City of Rochester

Todd

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
City Hall, Room 300-B
30 Church Street
Rochester, New York 14614-1290

September 10, 1994

RECEIVED
SEP 14 1994
NYS DEPT. OF ENVIRONMENTAL CONSERVATION-REGION 8 (SUBSTS./REM.)

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 3

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the third progress report documenting work during the month of August 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
D.Zariczny
A.Klumpp
T.Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
September 10, 1994

Progress Report No. 3
Work Completed Through August 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of August by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated to the final target elevations, generally to bedrock or 504-505 fmsl.

During August, 10889 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during August.

MEC Corporation has completed the excavation to the target elevation of 504-505 fmsl in the vicinity of the former Speedy Cleaners building at the east end of the garage footprint with the exception of a ramp currently in place used to gain access to the excavation.

Sampling and analysis of soil remaining in the area of gasoline contamination west of Stone St. was performed by Seeler Associates on August 25. Two samples were collected and analyzed by EPA Method 8021. The laboratory results are provided in Attachment 1. The analysis showed that very minimal gasoline contamination, below the STARS memorandum clean-up standard, remains in the soil.

Percent Completion: The overall IRM project is approximately 95% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

Samples for Method 8021 analyses were collected. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

Problems Encountered

The volume of contaminated soil removed exceeded the original estimates as it was not expected that the contamination would continuously extend to bedrock. No additional problems were encountered.

Deliverables

Analytical results from soil samples were discussed directly with DEC staff. A complete set of all August sample results is attached with this progress report.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC will be excavating footings located in the northeast corner of the garage footprint. Contaminated soil generated from the footing excavations will be shipped to Mill Seat Landfill. Any remaining contamination will be remediated through the ventilation system currently being designed by the City of Rochester and Seeler Associates.

The preliminary designs for the final ventilation system layout are being prepared. A proposed layout and system will be submitted for DEC review by September 23.

Removal of the access ramp is tentatively scheduled for October. Any contaminated soil generated during the ramp removal will be shipped to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Gasoline Contamination

During initial excavation of the garage by Bianchi-Trison, an underground storage tank was discovered in the area west of Stone St. Three soil samples were taken by Upstate Environmental on April 11 and analyzed by EPA Method 8010 and 8020. The analysis showed minimal petroleum contamination, however OVA readings taken at the site and soil staining indicated the need for removal of contaminated soil. The initial removal of gasoline contaminated soil, 4060 tons, was performed as part of Bianchi-Trison's contract through June. The remaining 880 tons of gasoline contaminated soil located along Court St. was removed by MEC in July as part of the Christa Construction contract. Verification sampling of remaining soil was performed by Seeler Associates on August 25. Two soil samples (G-1 and G-2) were taken approximately 18 feet north of the shoring along Court St. and analyzed by EPA Method 8020. The analysis showed that the contaminated soil had been removed to below clean-up standards and that no further removal was necessary. Verification sampling results are provided in Attachment 1. The initial drawing of the gasoline contaminated area by CME Associates, the correspondence of July 13, 1994 to Bill Shutts of the DEC regarding the gasoline contamination, and the drawing by Seeler Associates indicating the locations of the verification samples are provided in Attachment 2.

Attachment 1

Seeler Associates

Environmental Consultants
660 Reynolds Arcade Building - 16 East Main Street
Rochester, New York 14614
Phone (716) 262-6070 - Fax (716) 262-6065

FAX TRANSMISSION

TO: MARK GREGOR

Company: C.O.R.

Phone: 428-5978

Fax: 428-6010

FROM: PETE VON SCHONDORF

Date: 9/1/94

Pages Including this cover page: 3

Comments:

SAMPLE RESULTS FROM Court St. GARAGE "Gasoline Area"

_____ Originals Will Be Mailed _____ Originals Will Not Be Mailed

>ral Testing Corporation
Exchange St., Rochester, N.Y
5)454-3760

)RATORY REPORT-T3

lysis:
L-TANK LIST

Analyst: JEFF BRYANT
Date: 08/29/94
Time: 15:47
Client: SEELER
Job #: R94/03165
Sample#: -001

G1

% SOLID 91.1%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)	
hyl t-butyl ether			0.0	1	1.1	U
zene			0.0	1	1.1	U
uene			0.0	1	1.1	U
ylbenzene	28.43	28.30	3.2	1	3.6	
ylene	28.73	55.10	5.4	1	6.0	
ylene			0.0	1	2.2	U
ylene	30.27	29.00	3.2	1	3.5	
opropylbenzene	31.55	18.8	2.45	1	2.7	
ropylbenzene	32.88	12.80	1.5	1	1.6	
,5-Trimethylbenzene			0.00	1	1.1	U
t-Butylbenzene			0.0	1	1.1	U
,4-Trimethylbenzene	34.55	13.2	1.13	1	1.2	
-Butylbenzene			0.00	1	1.1	U
sopropyltoluene			0.0	1	1.1	U
utylbenzene			0.00	1	1.1	U
hthalene	40.98	71.6	6.0	1	6.6	

al Volatiles 25.16

rogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
,A-TRIFLUOROTOLUENE	18.58	111	33.3	30	111	55-131

eral Testing Corporation
) Exchange St., Rochester, N.Y
.6)454-3760

ORATORY REPORT-T3

lysis:
I-TANK LIST

Analyst: JEFF BRYANT
Date: 08/29/94
Time: 17:02
Client: SEELER
Job #: R94/03165
Sample#: -002

G2

% SOLID 89.0%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
hyl t-butyl ether			0.0	1	1.1 U
zene			0.0	1	1.1 U
uene	22.70	10.90	1.1	1	1.3
ylbenzene	28.34	10.60	1.2	1	1.4
ylene	28.64	28.90	2.8	1	3.2
ylene			0.0	1	2.3 U
ylene	30.20	15.40	1.7	1	1.9
propylbenzene			0.00	1	1.1 U
ropylbenzene			0.0	1	1.1 U
,5-Trimethylbenzene			0.00	1	1.1 U
t-Butylbenzene			0.0	1	1.1 U
,4-Trimethylbenzene			0.00	1	1.1 U
-Butylbenzene			0.00	1	1.1 U
sopropyltoluene			0.0	1	1.1 U
utylbenzene			0.00	1	1.1 U
hthalene			0.0	1	1.1 U

al Volatiles

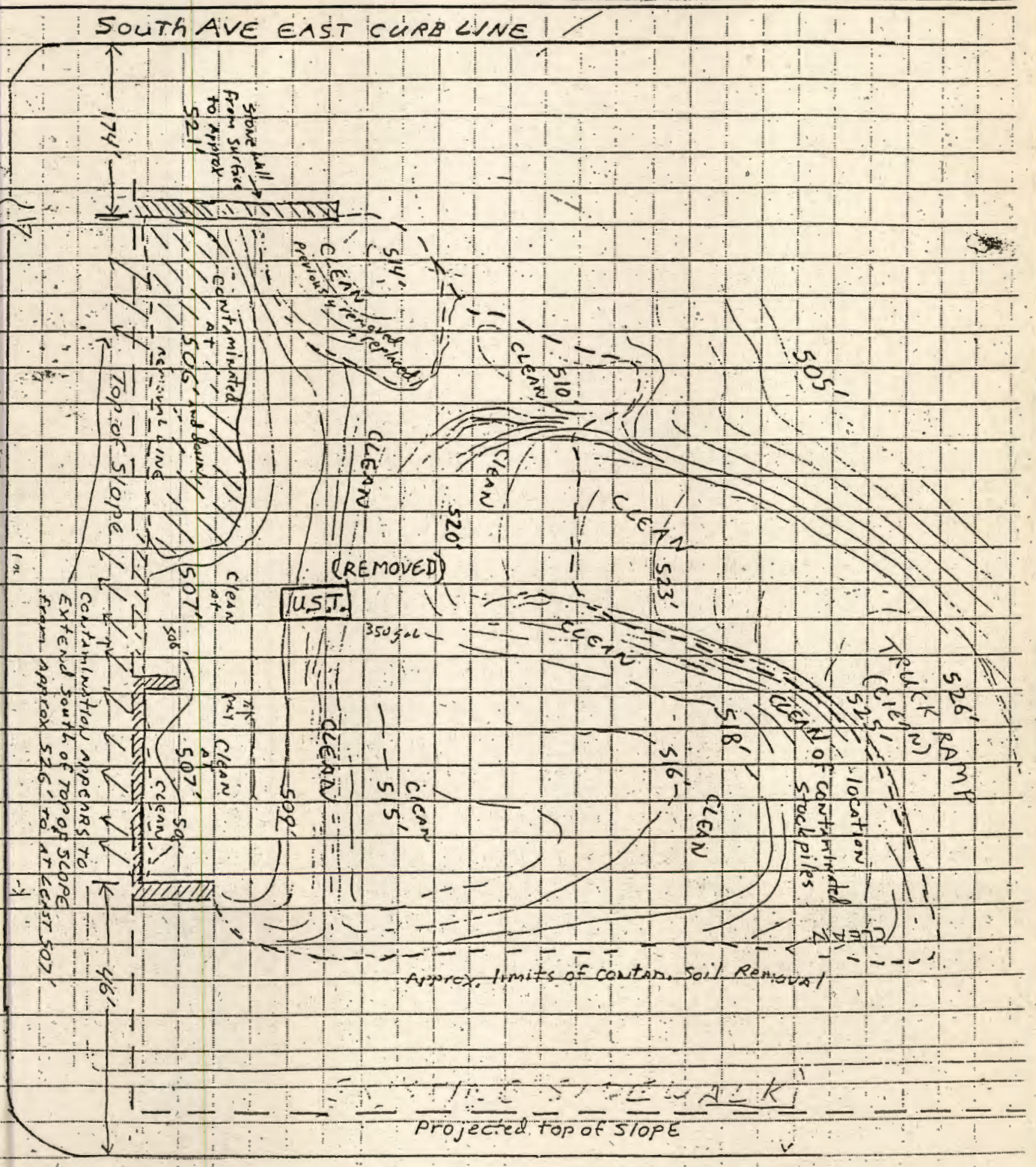
7.71

rogate Standards	Reten. Time	Area Units	Total Recovry	Amt. Add.	Percent Recovery	Accep. Limits
,A-TRIFLUOROTOLUENE	18.59	81	24.2	30	81	55-131

Attachment 2

CME Associates, Inc.
MATERIALS TESTING DIVISION

JOB 21 Court St. Demo
SHEET NO. 1 OF 1
CALCULATED BY ____ DATE ____
CHECKED BY ____ DATE 4-29-94
SCALE see legend



4-28-94
SKETCH OF AREA OF CONTAMINATED SOIL REMOVAL

City of Rochester

AX (716) 428-6010
DD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

uly 13, 1994

ill Shutts
ew York State Department of Environmental Conservation
274 East Avon-Lima Road
von, New York 14414

e: Court Street Parking Garage
Area of Gasoline Contamination

ear Mr. Shutts:

ttached is the information that you requested regarding the area of petroleum fuel contamination ncountered during the excavation for the new Court Street Parking Garage. The best address at we have for this location is 160 Court Street. A tank and contaminated soil were first iscovered at this location on April 8, 1994. The tank contained mostly water and was removed by e City's excavation contractor, Bianchi Trison Corporation. Because the garage will have two to ree parking levels below grade, all of the soil in the footprint of the garage is being removed, cluding the petroleum contaminated soil. Through the end of June 4,060 tons of petroleum ontaminated soil were removed. Additional soil removal is currently underway.

he following information is attached:

1. 1935 Plat Map showing the location of a gas station at 160 Court Street

2. Sketch prepared by CME Associates of the area of contamination and soil removal dated April 29, 1994

3. An 11" x 17" sketch of excavation activities for the South Avenue to Stone Street block showing the tank location and sample locations

4. Analytical data from soil samples

5. Court Street Parking Garage Project Interim Remedial Measure Progress Report Number 1 dated July 8, 1994

I can be reached at 428-5978 if you have any further questions.

Sincerely,

Mark D. Gregor
Environmental Specialist

Attachments

xc. Edward J. Doherty, Commissioner
Anne Klumpp, Environmental Quality
Johanna Brennan, Law Department
Steve Feuerstein, Municipal Facilities
Mary Jane Peachey, NYS-DEC
Todd Caffoe, NYS-DEC

Seeler Associates — ENVIRONMENTAL CONSULTANTS

FAX Transmission | Pages Including Transmittal: 2 | FAX 716-262-6065

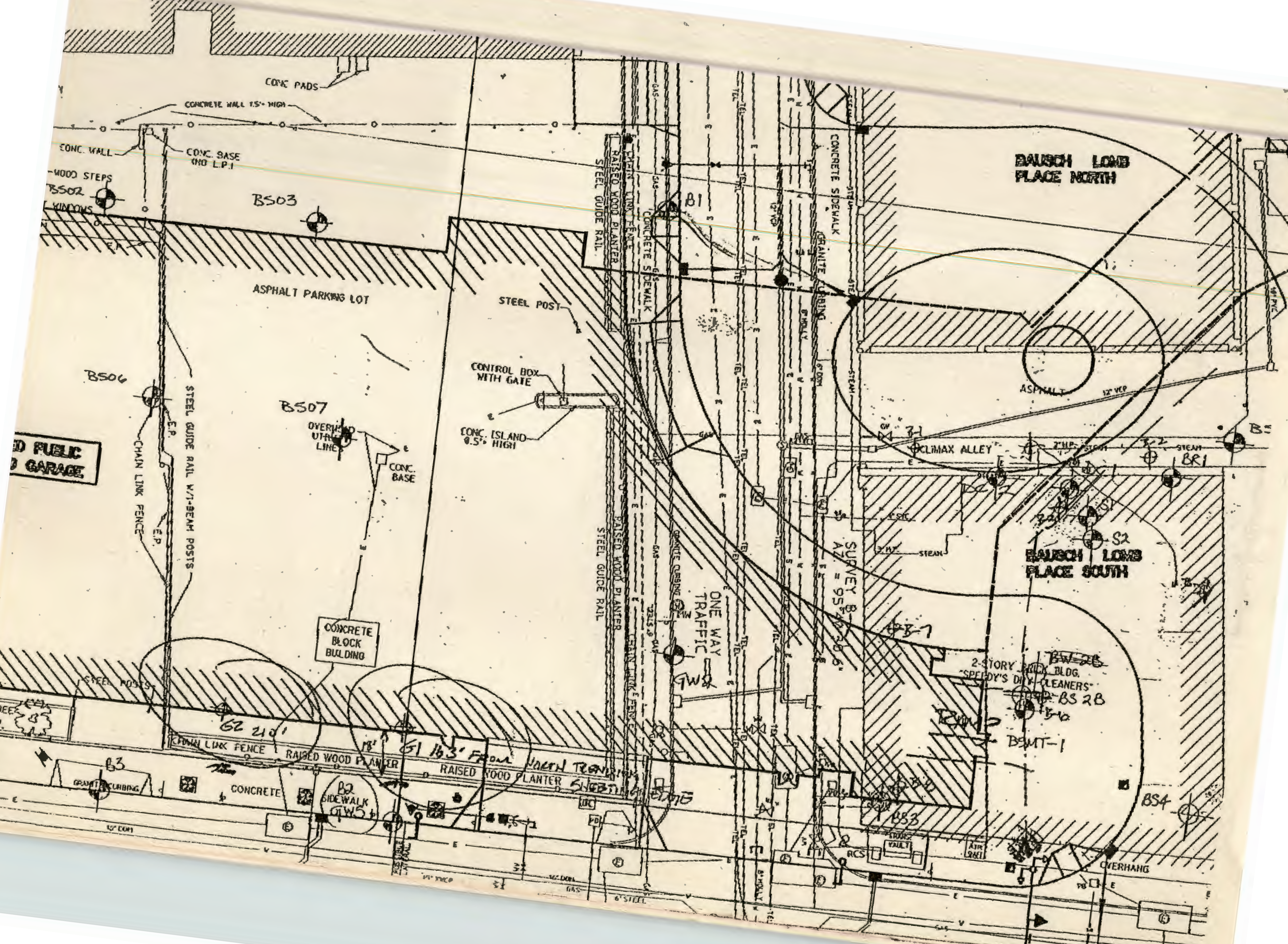
From: PETE VON SCHONDORF
To: MARK GREGOR
Company: CITY OF ROCHESTER

Date: 9-2-94
Time: 2:20
FAX #: 428-6010

MARK here is the figure you requested, if you cannot make out the locations G1 is 168'W From SE corner of the STEEL SHEETING, G2 is 210'W From the SAME CORNER LOCATION. Both samples were collected approximately 18' NORTH OF THE SHEETING.

16 East Main Street, 660 Reynolds Arcade Building, Rochester, New York 14614

716-262-6070


CONC PADS
CONCRETE WALL 1.5' HIGH
CONC. WALL
CONC. BASE (NO L.P.)
WOOD STEPS
BS02
BS03
ASPHALT PARKING LOT
STEEL POST
CONTROL BOX WITH GATE
CONC. ISLAND 0.5' HIGH
BS06
BS07
OVERHEAD UTIL. LINES
CONC. BASE
STEEL GUIDE RAIL W/I-BEAM POSTS
CHAIN LINK FENCE
E.P.
D PUBLIC
D GARAGE
CONCRETE BLOCK BUILDING
STEEL POSTS
G2
G1
CHAIN LINK FENCE
RAISED WOOD PLANTER
B3
GRANITE CURBING
CONCRETE
B2
SIDEWALK
GW5
STEEL GUIDE RAIL
RAISED WOOD PLANTER
CONCRETE SIDEWALK
GRANITE CURBING
CHAIN LINK FENCE
B1
ONE WAY TRAFFIC
GW2
SURVEY B
BAUSCH LOMB PLACE NORTH
ASPHALT
CLIMAX ALLEY
BR1
S1
S2
BAUSCH LOMB PLACE SOUTH
2-STORY BRICK BLDG.
"SPEEDY'S DRY CLEANERS"
BS 2B
BSMT-1
BS3
BS4
VAULT
RCS
OVERHANG

City of Rochester

Todd
File

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

October 7, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 4

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the fourth progress report documenting work during the month of September 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attachment

c: R. Elliott, MCDOH
D. Napier, NYSDOH
James Hazel, NYSDEC
E. Doherty
J. Brennan
N. Burton
S. Feuerstein
A. Klumpp
T. Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
October 10, 1994

Progress Report No. 4
Work Completed Through September 30, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of September by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated from the temporary access ramp being removed by MEC.

During September, 2226 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during September.

Christa Construction and MEC have been excavating for footings in the northeast corner of the garage footprint. Contaminated soil from the footing excavations has been staged on-site and will be sent to Mill Seat Landfill. Two test pits (TP-1 and TP-2) were excavated by MEC and sampled by Seeler Associates prior to beginning the footer excavations. Analysis showed that soils from TP-1 were below STARS criteria, consequently, soils to the west of TP-1 will not be excavated or included in the soil ventilation system. Results of the test pit analysis are provided in Attachment 1.

Percent Completion: The overall IRM project is approximately 97% complete based on revised estimates of the remaining volume of contaminated soil to be removed.

Modifications to the Work Plan

Samples for Method 8021 analyses were collected from TP-1 and TP-2. These samples were not required or identified in the original work plan as discussed in Progress Report Number 1.

The ventilation system design has been modified to include remediation of the four to

five feet of contaminated soil which will remain in the northeast area of the garage below the floor slab.

Problems Encountered

A three to four day delay in the construction schedule was incurred due to MEC modifying their work plans in response to the decision not to excavate the four to five feet of contaminated soil in the northeast area of the garage. No additional problems were encountered.

Deliverables

The preliminary design for the final ventilation system, which included the analysis from TP-1 and TP-2 was submitted to the DEC on September 22.

No other deliverables were required by the consent order during the reporting time period.

Actions for the Coming Month

Christa Construction and MEC will be completing the excavation of the access ramp. Contaminated soils from the ramp excavation will continue to be sent to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Gasoline Contamination

A meeting with Bill Shutts of the DEC was held at the site on September 8 to discuss the area of petroleum contamination, the removal efforts, and any possible remaining petroleum contamination. A copy of the August Progress Report, which detailed the

testing and removal of the gasoline contaminated soil, was sent to Bill Shutts. Additional analytical results from samples taken from the south face to the excavation at the area of gasoline contamination by Seeler Associates will be plotted on a site drawing and submitted to Mr. Shutts also.

Attachment 1

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT-T3

Analysis:
8021-TANK LIST

Analyst: ROD HERRING
Date: 09/08/94
Time: 19:37
Client: SEELER
Job #: R94/03358
Sample#: -001

TP1 (P 5)

% SOLID 92.9%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
Methyl t-butyl ether			0.0	1	1.1 U
Benzene			0.00	1	1.1 U
Toluene			0.0	1	1.1 U
Ethylbenzene	28.38	71.4	8.2	1	8.8
p-Xylene			0.0	1	2.2 U
m-Xylene			0.0	1	2.2 U
o-Xylene	30.25	184	20.2	1	22
Isopropylbenzene	31.53	113.0	14.75	1	16
n-Propylbenzene			0.0	1	1.1 U
1,3,5-Trimethylbenzene	33.47	232.0	17.96	1	19
tert-Butylbenzene			0.0	1	1.1 U
1,2,4-Trimethylbenzene	34.63	113	9.70	1	10
sec-Butylbenzene			0.00	1	1.1 U
p-Isopropyltoluene	35.51	55.90	7.2	1	7.8
n-Butylbenzene	36.54	371.0	43.59	1	47
Naphthalene			0.0	1	1.1 U

Total Volatiles 130.76

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
A,A,A-TRIFLUOROTOLUENE	18.65	99	29.8	30	99	55-131

General Testing Corporation
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT-T3

Analyst: ROD HERRING
Date: 09/08/94
Time: 20:41
Client: SEELER
Job #: R94/03358
Sample#: -002

TP2 (P-17)

Analysis:
8021-TANK LIST

% SOLID 91.2%

Compound	R.T. Time	Area Units	Conc.	Dil.	Final Conc. (ug/KG)
Methyl t-butyl ether			0.0	500	550 U
Benzene			0.00	500	550 U
Toluene			0.0	500	550 U
Ethylbenzene	28.41	89.0	10.2	500	5600
p-Xylene	28.75	53	5.2	500	2800
m-Xylene			0.0	500	1100 U
o-Xylene	30.27	250	27.4	500	15000
Isopropylbenzene	31.55	172.0	22.46	500	12000
n-Propylbenzene	32.93	237	26.9	500	15000
1,3,5-Trimethylbenzene	33.48	339.0	26.25	500	14000
tert-Butylbenzene			0.0	500	550 U
1,2,4-Trimethylbenzene	34.63	699	60.01	500	33000
sec-Butylbenzene			0.00	500	550 U
p-Isopropyltoluene	35.52	60.50	7.8	500	4300
n-Butylbenzene	36.55	367.0	43.12	500	24000
Naphthalene			0.0	500	550 U

Total Volatiles 125700.00

Surrogate Standards	Reten. Time	Area Units	Total Rec'vry	Amt. Add.	Percent Recovery	Accep. Limits
A,A,A-TRIFLUOROTOLUENE	18.66	102	30.6	30	102	55-131

Todd

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

November 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 5

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the fifth progress report documenting work during the month of October, 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attachment

c: R. Elliott, MCDOH
D. Napier, NYSDOH
James Hazel, NYSDEC
E. Doherty
J. Brennan
N. Burton
S. Feuerstein
A. Klumpp
T. Seeler

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
November 10, 1994

Progress Report No. 5
Work Completed Through October 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

As previously reported, Phase II remedial activities were performed during the month of October by the garage contractor, Christa Construction, and its excavation subcontractor, MEC Corporation. Additional nonhazardous contaminated soil from within the footprint of the Court Street Garage was excavated from the temporary access ramp being removed by MEC.

During October, 521 tons of stoddard contaminated soil were transported to Mill Seat Landfill for disposal. No drums of waste were generated at the site or disposed of during October.

As described in the soil ventilation system proposal submitted to the DEC on September 22, existing site soil has been used as backfill on-site in the areas where slotted ventilation pipe will be installed. Any additional soil not usable on-site as backfill was shipped to Mill Seat Landfill for disposal.

Percent Completion: The overall IRM project is approximately 98% complete based on revised estimates of the remaining volume of contaminated soil to be removed. This estimate is based on the assumption that only contaminated soils in the area of the access ramp remains for removal.

Modifications to the Work Plan

There were no modifications to the work plan during the month of October.

Problems Encountered

MARCOR was not called to the site by MEC Construction during their work in areas of soil contamination on October 5, 6, and 7. Fifteen loads of contaminated soil were

shipped to Mill Seat on October 6 without monitoring by MARCOR. The contractors have been advised that it is unacceptable to work in areas of contaminated soil without having MARCOR on site and must ensure in the future that all work performed will be in accordance with the Health and Safety Plan for the site.

Deliverables

A letter describing the plans to include the four to five feet of contaminated soils remaining under the floor slab in the northeast corner of the garage was submitted to Mary Jane Peachey on October 20. The letter is included as Attachment 1.

Actions for the Coming Month

Christa Construction and MEC will be completing the excavation of the access ramp. Contaminated soils from the ramp excavation will continue to be sent to Mill Seat Landfill. Verification sampling of any remaining soils will be performed in accordance with the work plan once the ramp is removed.

Discussions will be held with Seeler Associates, the building architect and the HVAC mechanical contractor regarding the location of the blower and the ventilation system details.

Gasoline Contamination

As was stated in the October 10 Progress Report, additional analytical results from samples taken from the south face of the excavation at the area of gasoline contamination by Seeler Associates will be plotted on a site drawing and sent to Bill Shutts.

Attachment 1

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

October 20, 1994

Mary Jane Peachey, P.E.
New York Department of Environmental Conservation
6274 E. Avon Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM Vent System - Work Plan modifications

Dear Ms. Peachey:

On September 22 we sent you proposed additions to the vent system layout for the Court Street Parking Garage Project. As described in our transmittal letter, one proposed section of vent pipe will be installed in an area where contaminated soil will remain below the lower floor slab. When discussing the proposed vent system with Todd Caffoe of your office he pointed out that the proposal to vent soils in this area could be construed as a deviation from our original work plan. This letter is to present our rationale and the need for the section of the system below the floor slab.

The Court Street Parking Garage extends from three levels below grade at South Avenue to two levels below grade at the eastern end where Speedy Cleaners was previously located. Lower level slab elevations increase from west to east. In the western portion of the garage, bedrock was required to be removed while at the east end of the site finish elevations are approximately five feet above rock. The approved work plan indicates that during Phase 2 "the excavation depth will equal what is required for building purposes plus an additional 2 feet of soil. If contaminated soil remains, excavation will continue until bedrock is encountered. In areas not planned for deep excavation, the soil will be removed following the procedures used during Phase I." Phase I procedures called for the removal of soils to the point where contaminant concentrations are below the guidance criteria or to the point where excavations could cause structural instability or are physically limited. Where such project related limitations apply, the work plan requires the use of a soil gas vent system.

Soil gas venting was substituted for excavation to rock on one other occasion during Phase 2 of the IRM. In May, during excavations in the area east of the garage shoring line, soil contaminated above the STAR's criteria was encountered at about the till elevation (515-516 fmsl). Because site access from Stone Street was soon to be eliminated, it was necessary to quickly construct a ramp from Court Street over the area where the contaminated soils remained. At Todd Caffoe's request, an additional one to two feet of contaminated soil was removed. Vent pipe was then installed and the ramp completed. The change in approach allowed the garage construction project to continue with out any effect on the schedule.

We believe our September plan to use soil venting instead of excavation to rock is also appropriate. When preparing the work plan, the excavation depth for the entire garage footprint was assumed to be bedrock or a foot or two above rock. The bottom elevation of the northeast end of the garage is actually several feet above rock. Recently footers were constructed through remaining till in this area. The installation of the footers now complicates soil removal from this area. Also because of the phasing of the garage construction, access to soils close to and beneath the current entrance ramp for verification sampling purposes is not possible until the ramp is removed later in the project. At that time, excavation of the remaining few feet of soil would be made difficult by cumbersome loading operations and reduced access for transport vehicles. The plan to install additional vent pipe instead of removing soils was prepared to address the limited areas of soil contamination where removal operations have become more complicated and costly. The remaining areas of contaminated soil are easily defined and limited both vertically and horizontally. The planned vent system should, therefore, be effective in preventing vapor infiltration into the garage and in reducing soil contaminant levels.

If you would like to discuss the proposed additions to the vent system or the remaining field activities necessary to complete the IRM, please let me know. We will submit the IRM report later this fall after final verification sample data are received.

Sincerely,

Mark D. Gregor
Environmental Specialist
428-5978

xc.
T.Caffoe,NYS-DEC
R.Elliott,MC-DOH
D.Napier,NYS-DOC
James Hazel, NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

City of Rochester

Todd file

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

December 8, 1994

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 6

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the sixth progress report documenting work during the month of November,1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist
Division of Environmental Quality

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

irmprtr6.let

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
December 10, 1994

Progress Report No. 6
Work Completed Through December 2, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

Additional unanticipated excavation and disposal of stoddard contaminated soil was required during late November. The previous excavation subcontractor, MEC Corporation, was removed from the job and had significantly under reported the amount of contaminated soil that needed to be excavated for garage construction purposes. The prime garage contractor, Christa Construction, retained A.V. Towner to complete the excavation work. A.V. Towner has been advised that it must complete work in areas of potentially contaminated soil with a health and safety monitor on site and that all excavation activities must be in accordance with the Work Plan and Health and Safety Plan for the site.

During the week of November 28, 1,639 tons of stoddard contaminated soil were removed and transported to Mill Seat Landfill increasing the total for the reporting period to 2,578 tons. Soil removal was monitored in accordance with the approved work plan and total organic vapor levels continued to be detected in range of 10 to 150 parts per million. The excavation of several hundred cubic yards of soil to bedrock for the garage elevator shaft was required as well as the removal of the remaining portions of the access ramp and soils that MEC had cast onto the access ramp slope above the shoring on the east side of the garage.

No drums of waste were generated at the site or disposed of during November.

On November 7, final verification sampling was performed by Seeler Associates in accordance with the approved Work Plan. Nine locations were sampled, V8 to V16, and analyzed for Method 8021 compounds ("tank list") using NYSASP protocols. Todd Caffoe of NYSDEC Region 8 split samples at locations V8 to V12. Results were received in early December and are provided in Attachment 1 along with a sample location drawing.

Percent Completion: The overall IRM project is approximately 99% complete based on revised estimates of the remaining volume of potentially contaminated soil to be removed. This estimate is based on the assumption that the only additional potentially contaminated soils left to be removed are where the tunnel connection must be made to the below grade levels of the parking garage.

Modifications to the Work Plan

There were no modifications to the work plan during the month of November.

Problems Encountered

During the collection of the verification samples on November 7, the garage contractor was observed applying an oil coating to the forms used when pouring foundations, footers, columns, etc. The form oil had a strong fuel oil odor and was applied by spraying from a pressure cylinder. During the process of coating the forms, a significant amount of over spray occurred. This procedure has apparently been used throughout the course of the garage construction.

While the level of contamination from the over spraying is probably not significant, the potential for the form oil on soils to create uncertainty about the verification sample results was noted. Many of the same petroleum compounds could be expected from both stoddard solvent and fuel oil. An attempt was made to sample soils at a depth of six inches to avoid potential interferences that might be caused by surficial contamination from the form oil.

Deliverables

The attached verification sample analytical results and location drawing were provided to Todd Caffoe, NYSDEC, via fax on December 6.

Actions for the Coming Month

Christa Construction and A.V. Towner may be completing the tunnel connection during December.

The City will meet with the NYSDEC on site to review the verification sample results and make final determinations regarding the locations of vent pipe.

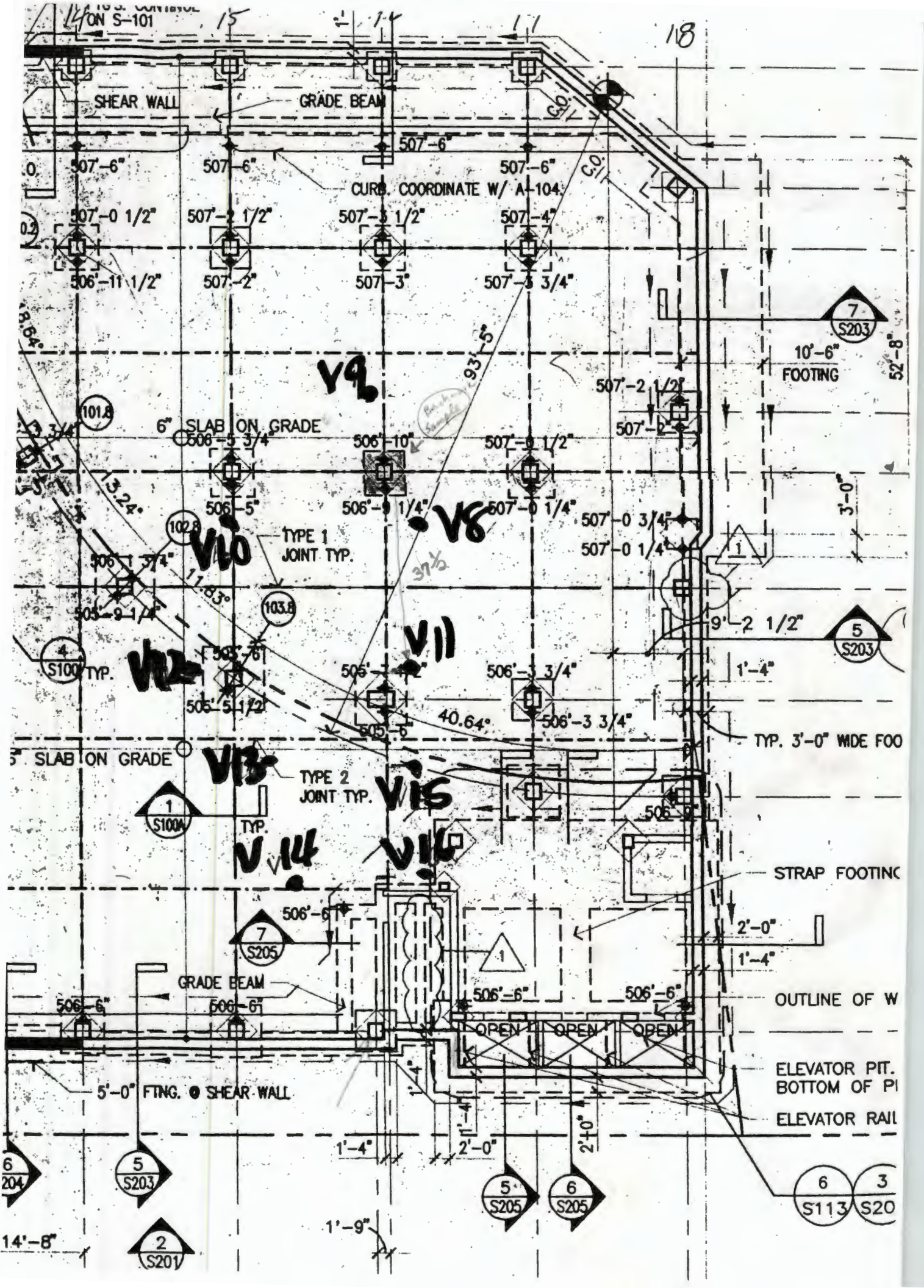
Seeler Associates will continue to refine the ventilation system specifications and location with the garage architect and the HVAC mechanical contractor.

Gasoline Contamination

As was stated in the October 10 Progress Report, additional analytical results from samples taken from the south face of the excavation at the area of gasoline contamination by Seeler Associates. These data are now being plotted on a site drawing and will be sent to Bill Shutts of NYSDEC Region 8 when completed..

g:\envqual\progrep6

Attachment 1


ON S-101
SHEAR WALL
GRADE BEAM
CURB. COORDINATE W/ A-104.
507'-6"
507'-0 1/2"
507'-2 1/2"
507'-3 1/2"
507'-4"
506'-11 1/2"
507'-2"
507'-3"
507'-3 3/4"
10'-6"
FOOTING
6" SLAB ON GRADE
506'-5 3/4"
506'-10"
507'-0 1/2"
506'-5"
506'-9 1/4"
507'-0 1/4"
507'-0 3/4"
TYPE 1
JOINT TYP.
506'-1 3/4"
505'-9 1/4"
505'-6"
505'-5 1/2"
506'-3 3/4"
505'-5"
40.64°
TYP. 3'-0" WIDE FOO
SLAB ON GRADE
TYPE 2
JOINT TYP.
TYP.
506'-6"
STRAP FOOTINC
2'-0"
1'-4"
GRADE BEAM
OUTLINE OF W
OPEN
OPEN
OPEN
ELEVATOR PIT.
BOTTOM OF PI
ELEVATOR RAIL
5'-0" FTG. @ SHEAR WALL
1'-4"
2'-0"
1'-9"
14'-8"
93'-5"
52'-8"
3'-0"
9'-2 1/2"
13.24°
11.83°
37½
V9
V10
V11
V12
V13
V14
V15
V16
V8
101.8
102.8
103.8
S100
S203
S205
S201
S113
S20

226-2909

ORGANICS QUALIFIERS - 1991

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result isless than the sample quantitation limit but greater than zero.

N - Indicates presumptive evidence of a compound. This flag is only used for tenatively identified compound, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC.MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V9

ame: GENERAL TESTING Contract: SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-2

e wt/vol: 5 (g/mL) G Lab File ID: >J1459

: (low/med) LOW Date Received: 11/07/94

sture: not dec.8 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V8DUP

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-1

wt/vol: 1 (g/mL) G Lab File ID: >J1462

(low/med) LOW Date Received: 11/07/94

ture: not dec.8 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	27.	U
71-43-2	Benzene	27.	U
108-88-3	Toluene	27.	U
100-41-4	Ethylbenzene	27.	U
1330-20-7	(m+p)Xylene	27.	U
1330-20-7	o-Xylene	27.	U
98-82-8	Isopropyl_Benzene	27.	U
103-65-1	n-Propylbenzene	27.	U
108-67-8	1,3,5-Trimethylbenzene	27.	U
98-06-6	tert-Butylbenzene	27.	U
95-63-6	1,2,4-Trimethylbenzene	27.	U
135-98-8	sec-Butylbenzene	27.	U
99-87-6	p-Isopropyltoluene	27.	U
104-51-8	n-Butylbenzene	27.	U
91-20-3	Naphthalene	27.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V10

ume:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

t: (soil/water) SOIL Lab Sample ID: 4374-3

wt/vol: 5 (g/mL) G Lab File ID: >J1446

(low/med) LOW Date Received: 11/07/94

ture: not dec.3 Date Analyzed: 11/18/94

1: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

>t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V11

ame:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-4

e wt/vol: 1 (g/mL) G Lab File ID: J1465

: (low/med) LOW Date Received: 11/07/94

sture: not dec.9 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	27.	U
71-43-2	Benzene	27.	U
108-88-3	Toluene	27.	U
100-41-4	Ethylbenzene	13.	J
1330-20-7	(m+p)Xylene	76.	
1330-20-7	o-Xylene	100.	
98-82-8	Isopropyl_Benzene	72.	
103-65-1	n-Propylbenzene	160.	
108-67-8	1,3,5-Trimethylbenzene	3600.	E
98-06-6	tert-Butylbenzene	27.	U
95-63-6	1,2,4-Trimethylbenzene	7700.	E
135-98-8	sec-Butylbenzene	550.	
99-87-6	p-Isopropyltoluene	1900.	E
104-51-8	n-Butylbenzene	27.	U
91-20-3	Naphthalene	26.	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V11DL

ame: GENERAL TESTING Contract: SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

t: (soil/water) SOIL Lab Sample ID: 4374-4DL

e wt/vol: 4 (g/mL) G Lab File ID: >Q2543

: (low/med) MED Date Received: --/--/--

sture: not dec.9 Date Analyzed: 11/21/94

a: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: 10000 (uL)

ot Volume: 50 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	1400.	U
71-43-2	Benzene	1400.	U
108-88-3	Toluene	1400.	U
100-41-4	Ethylbenzene	1400.	U
1330-20-7	(m+p)Xylene	1400.	U
1330-20-7	o-Xylene	1400.	U
98-82-8	Isopropyl_Benzene	1400.	U
103-65-1	n-Propylbenzene	1400.	U
108-67-8	1,3,5-Trimethylbenzene	3600.	D
98-06-6	tert-Butylbenzene	1400.	U
95-63-6	1,2,4-Trimethylbenzene	8100.	D
135-98-8	sec-Butylbenzene	560.	JD
99-87-6	p-Isopropyltoluene	1500.	D
104-51-8	n-Butylbenzene	1400.	U
91-20-3	Naphthalene	1400.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V12

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-5

wt/vol: 5 (g/mL) G Lab File ID: >J1449

(low/med) LOW Date Received: 11/07/94

ture: not dec.9 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V13

ume:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-6

wt/vol: 5 (g/mL) G Lab File ID: >J1464

: (low/med) LOW Date Received: 11/07/94

sture: not dec.9 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V14

ie:GENERAL TESTING Contract:SEELER

le: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-7

wt/vol: 5 (g/mL) G Lab File ID: >J1468

(low/med) LOW Date Received: 11/07/94

ture: not dec.7 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
1634-04-4	Methyl-t-Butyl_Ether		5.	U
71-43-2	Benzene		5.	U
108-88-3	Toluene		5.	U
100-41-4	Ethylbenzene		5.	U
1330-20-7	(m+p)Xylene		5.	U
1330-20-7	o-Xylene		5.	U
98-82-8	Isopropyl_Benzene		5.	U
103-65-1	n-Propylbenzene		5.	U
108-67-8	1,3,5-Trimethylbenzene		5.	U
98-06-6	tert-Butylbenzene		5.	U
95-63-6	1,2,4-Trimethylbenzene		5.	U
135-98-8	sec-Butylbenzene		5.	U
99-87-6	p-Isopropyltoluene		5.	U
104-51-8	n-Butylbenzene		5.	U
91-20-3	Naphthalene		5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V15

lame:GENERAL TESTING Contract:SEELER

:ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

ix: (soil/water) SOIL Lab Sample ID: 4374-8

le wt/vol: 5 (g/mL) G Lab File ID: >J1451

l: (low/med) LOW Date Received: 11/07/94

isture: not dec.9 Date Analyzed: 11/19/94

m: (pack/cap) CAP Dilution Factor: 1.0

l extract Volume: -- (uL)

iot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V16

me:GENERAL TESTING Contract:SEELER

de: 10145 Case No.: --- SAS No.: --- SDG No.: V11

: (soil/water) SOIL Lab Sample ID: 4374-9

wt/vol: 5 (g/mL) G Lab File ID: >J1461

(low/med) LOW Date Received: 11/07/94

ture: not dec.9 Date Analyzed: 11/19/94

: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

t Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VTB

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) WATER Lab Sample ID: 4374-10

e wt/vol: 5 (g/mL) ML Lab File ID:)Q2505

: (low/med) LOW Date Received: 11/07/94

sture: not dec.100 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VTBRE

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) WATER Lab Sample ID: 4374-10RE

e wt/vol: 5 (g/mL) ML Lab File ID: >Q2542

: (low/med) LOW Date Received: 11/07/94

sture: not dec.100 Date Analyzed: 11/21/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
1634-04-4	Methyl-t-Butyl_Ether		5.	U
71-43-2	Benzene		5.	U
108-88-3	Toluene		5.	U
100-41-4	Ethylbenzene		5.	U
1330-20-7	(m+p)Xylene		5.	U
1330-20-7	o-Xylene		5.	U
98-82-8	Isopropyl_Benzene		5.	U
103-65-1	n-Propylbenzene		5.	U
108-67-8	1,3,5-Trimethylbenzene		5.	U
98-06-6	tert-Butylbenzene		5.	U
95-63-6	1,2,4-Trimethylbenzene		5.	U
135-98-8	sec-Butylbenzene		5.	U
99-87-6	p-Isopropyltoluene		5.	U
104-51-8	n-Butylbenzene		5.	U
91-20-3	Naphthalene		5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V8

ame:GENERAL TESTING Contract:SEELER

ode: 10145 Case No.: --- SAS No.: --- SDG No.: V11

x: (soil/water) SOIL Lab Sample ID: 4374-11

e wt/vol: 5 (g/mL) G Lab File ID: >J1467

: (low/med) LOW Date Received: 11/07/94

sture: not dec.8 Date Analyzed: 11/19/94

n: (pack/cap) CAP Dilution Factor: 1.0

extract Volume: -- (uL)

ot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1634-04-4	Methyl-t-Butyl_Ether	5.	U
71-43-2	Benzene	5.	U
108-88-3	Toluene	5.	U
100-41-4	Ethylbenzene	5.	U
1330-20-7	(m+p)Xylene	5.	U
1330-20-7	o-Xylene	5.	U
98-82-8	Isopropyl_Benzene	5.	U
103-65-1	n-Propylbenzene	5.	U
108-67-8	1,3,5-Trimethylbenzene	5.	U
98-06-6	tert-Butylbenzene	5.	U
95-63-6	1,2,4-Trimethylbenzene	5.	U
135-98-8	sec-Butylbenzene	5.	U
99-87-6	p-Isopropyltoluene	5.	U
104-51-8	n-Butylbenzene	5.	U
91-20-3	Naphthalene	5.	U

City of Rochester

Todd

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

January 17, 1995

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 7

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the seventh progress report documenting work during the month of December, 1994 on the Court Street Parking Garage Site IRM.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

Sincerely,

Mark D. Gregor
Environmental Specialist

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

irmprtr6.let

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
January 10, 1995

Progress Report No. 7
Work Completed Through December 31, 1994

Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

No contaminated soil was excavated from the site during this reporting period. The only remaining soil excavation that could result in the removal of contaminated soil, the tunnel connection, was not performed during December.

No drums of waste were generated at the site or disposed of during December.

On December 7, Mark Gregor (City Division of Environmental Quality) met with Todd Caffoe of Region 8 on site to review the results of the soil verification data and discuss the final vent system layout. On December 16, the City submitted a proposed final vent system layout to the NYSDEC, Monroe County Health Department and New York State Department of Health for comment and approval (See Attachment 1).

The City's ventilation system designer, Seeler Associates, continued to develop detailed system specifications and work with the garage architect to identify satisfactory locations within the garage for the system components. Seeler Associates also began preparing the final IRM report required by the Order on Consent.

Percent Completion: The IRM soil removal project is approximately 99.5 % complete based on the estimate of the remaining volume of potentially contaminated soil to be removed. This estimate is for the below grade tunnel connection to the garage .

We anticipate submitting the final vent system plans and specifications for NYSDEC approval in early February. The comprehensive IRM report should be ready for submission in early March.

Modifications to the Work Plan

The proposed final vent system layout incorporated modifications to the procedures in the approved Work Plan with respect to contaminated soil that will be left in place. Details of the City's proposed vent system layout are discussed in Attachment 1.

The City proposal is to leave approximately three to four feet of soil at the base of the northeast section of the garage. The verification sample results and field observations indicate that limited portions of the remaining soil are contaminated with compounds at levels in excess of the STARS guidance criteria. The analytical results from verification sampling indicated that the upper six inches of the remaining soil is, for the most part, uncontaminated. The Work Plan requires ventilation of areas where contamination exceeds STAR's guidance criteria.

The City plan involves the reallocation of remaining project resources to control vapor migration into the garage from areas outside the garage footprint. Seeps of the brown, solvent smelling liquid characteristic of the heavily contaminated areas encountered beneath the former dry cleaner have been observed on the shoring along the north side of the garage. It is the City's position that the soil on the north side of shoring represents a greater potential source of contamination and nuisance odors to the garage than the soil below the base floor slab. The City therefore proposes to install vent pipe in the select drain material that will be backfilled between the north foundation and the shoring.

Problems Encountered

No problems were encountered during the reporting period.

Deliverables

The verification sample analytical results and location drawing were provided to Todd Caffoe, NYSDEC, via fax on December 6. The City's proposal for the final vent system layout including drawings and summary data were submitted on December 16 to Mary Jane Peachey, NYSDEC Region 8 (Attachment 1).

Actions for the Coming Month

Seeler Associates will finalize the detailed drawings and specifications needed for the ventilation system based on the NYSDEC response to the City's proposed vent system modification. Installation of the vent system will be completed over the next few months as the garage construction is completed. The system should be operational by October, 1995.

The tunnel connection is tentatively scheduled for excavation at the end of February or early March.

Seeler Associates will continue to work on the final IRM report and provide the City with a draft for review and comment during February.

Gasoline Contamination

The completion of the site drawing identifying sample locations along the south face of the excavation has been delayed due to work load considerations and will be completed in February.

g:\envqual\progrep7

Attachment 1

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

December 16, 1994

Mary Jane Peachey, P.E.
New York Department of Environmental Conservation
6274 E. Avon Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM Vent System - Work Plan final layout

Dear Ms. Peachey:

On September 22 we sent you proposed additions to the vent system layout for the Court Street Parking Garage Project and in a follow-up October 20 letter provided the rationale for the vent system expansion. Your November 23 response indicated that the final plans for the vent system would be dependent on the results of verification soil samples collected on November 7. We provided our sample results for locations V8 to V16 to Todd Caffoe on December 6 and received the NYSDEC split sample results (V8 to V12) the following day from Todd. Copies of the analytical data are provided in Attachment 1.

Table 1 is a summary of the soil analytical data indicating results for those locations where contaminants were detected by either the NYSDEC or City analyses. I have included the previous test pit data from soils just to the north of the November 7 verification sampling area as well. No characteristic site contaminants, petroleum or chlorinated solvents related to dry cleaning, were detected at V8, V9, V10, V12, V13, V14, V15, or V16. Figure 1. is a sample location drawing

The results indicate that, in all but one location, the upper six inches of the remaining three feet of soil are not contaminated. Of the recent verification sampling, the only location where volatile organic compounds exceed STAR's guidance values was at V-11. The test pit data and our experience with excavating soils at this elevation (502-506 fmsl) suggests that some low-level contamination may be present at depths greater than six inches. However, the remaining 2 - 2.5 feet of soil do not exhibit the heavy staining or the sustained strong odors encountered at the apparent source area (the stone lined sump pit discovered at elevation 517-519 fmsl) or just above the dense glacial till (elevation 514-516 fmsl). At this point, we would propose that the soil conditions indicated by the verification data do not warrant the active ventilation system proposed in September or require removal. The garage excavation process has resulted in the removal of the source area and all heavily contaminated soil within the footprint of the garage. We believe the intent of the removal action described in the approved work plan has been met.

Based on observations of the shoring on the north side of the garage excavation, we do, however, now propose to install a 62 foot section of 4-inch diameter slotted schedule 40 PVC vent pipe between the foundation and the shoring along the eastern end of the north side of the garage. A

revised proposed vent system layout is presented in Figure 2. In this area we have observed staining of the lagging and occasional small seeps of the same dark brown liquid possessing a petroleum solvent odor that was detected at various times during the soil removal process. The new section of vent pipe would be located above the garage perimeter drain system. The vent pipe would help prevent the accumulation of vapors in the drain system. The perimeter drain system is piped to a central drain location beneath the lower level of the garage where it runs through sand separators before being pumped to the storm sewer in Court Street. In addition to installing the vent pipe, we believe that it will be appropriate to periodically inspect the drain system and the sand separators for the possible presence of contamination from material entering the perimeter drain system.

We would like to determine the final system layout as soon as possible so that materials can be ordered, and we will provide the detailed drawings and specifications as soon as they are ready. Please let me know if you or Todd have any questions or would like to discuss the proposed revisions to the vent system. Thank you.

Sincerely,

Mark D. Gregor
Environmental Specialist
428-5978

attach.
xc.
T.Caffoe,NYS-DEC
R.Elliott,MC-DOH
D.Napier,NYS-DOC
James Hazel, NYS-DEC
E.Doherty
J.Brennan
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler

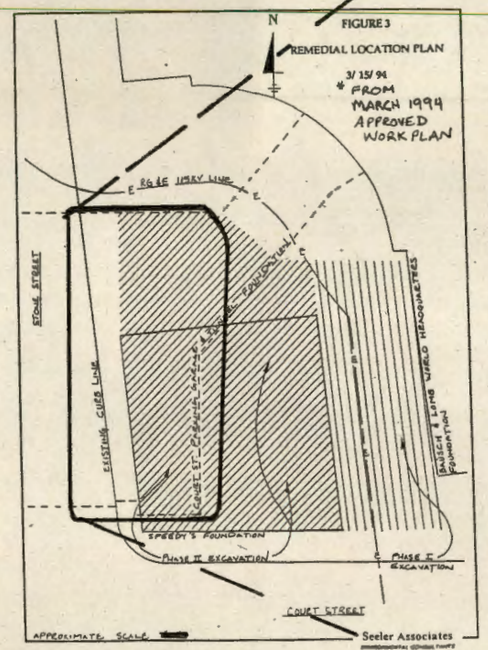
g:\envqual\irmchan2

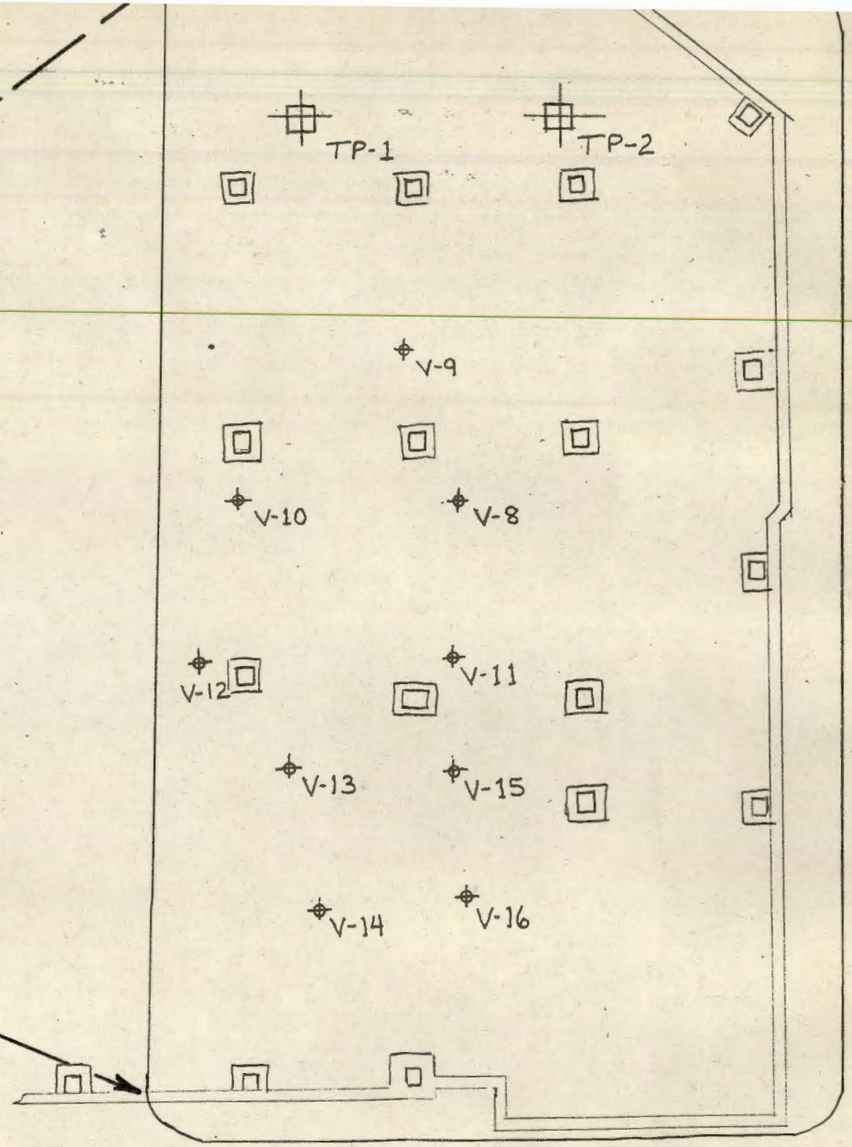
Table 1. Court Street Parking Garage IRM
Soil sample results for locations where contaminants were detected

	Sample Results (ug/kg)						
Compound	**TP-1**	**TP-2**	**V-8^S**	**V-9^S**	**V-10^S**	**V-11**	**V-11^S**
ethylbenzene	8.8	5600	nd	nd	nd	13j	2.7
(m+p) xylene	nd	2800	na	na	na	76	na
o-xylene	22	15000	na	na	na	100	na
total xylene	na	na	nd	nd	nd	na	94
isopropylbenzene	16	12000	na	na	na	72	na
n-propylbenzene	nd	15000	na	na	na	160	na
1,3,5-trimethylbenzene	19	14000	na	na	na	3600e	na
1,2,4-trimethylbenzene	10	33000	na	na	na	7700e	na
sec-butylbenzene	nd	nd	na	na	na	550	na
p-isopropyltoluene	7.8	4300	na	na	na	1900e	na
napthalene	nd	nd	na	na	na	26j	na
n-butylbenzene	47	24000	na	na	na	nd	na
methylene chloride	na	na	1.5	1.3	1.5	na	1.4
acetone	na	na	nd	nd	nd	na	7.6
tetrachloroethylene	na	na	nd	nd	nd	na	5.4
TIC's:	na	na	na	na	na	na	
unknown hydrocarbon							220j
unknown hydrocarbon							280j
propyl benzene isomer							370j
propyl benzene isomer							560j
unknown hydrocarbon							950j
propyl benzene isomer							520j
unknown							210j
propyl benzene isomer							620j
butyl benzene isomer							370j
butyl benzene isomer							470j

Notes: S - indicates a NYSDEC split sample result
nd - not detected during analysis
na - analysis not performed for this compound
j - estimated concentration

FIGURE 1





TEST PIT LOCATION

SOIL SAMPLE LOCATION

SUPPORT COLUMN/FOOTER

SCALE 1/16" = 1'0"

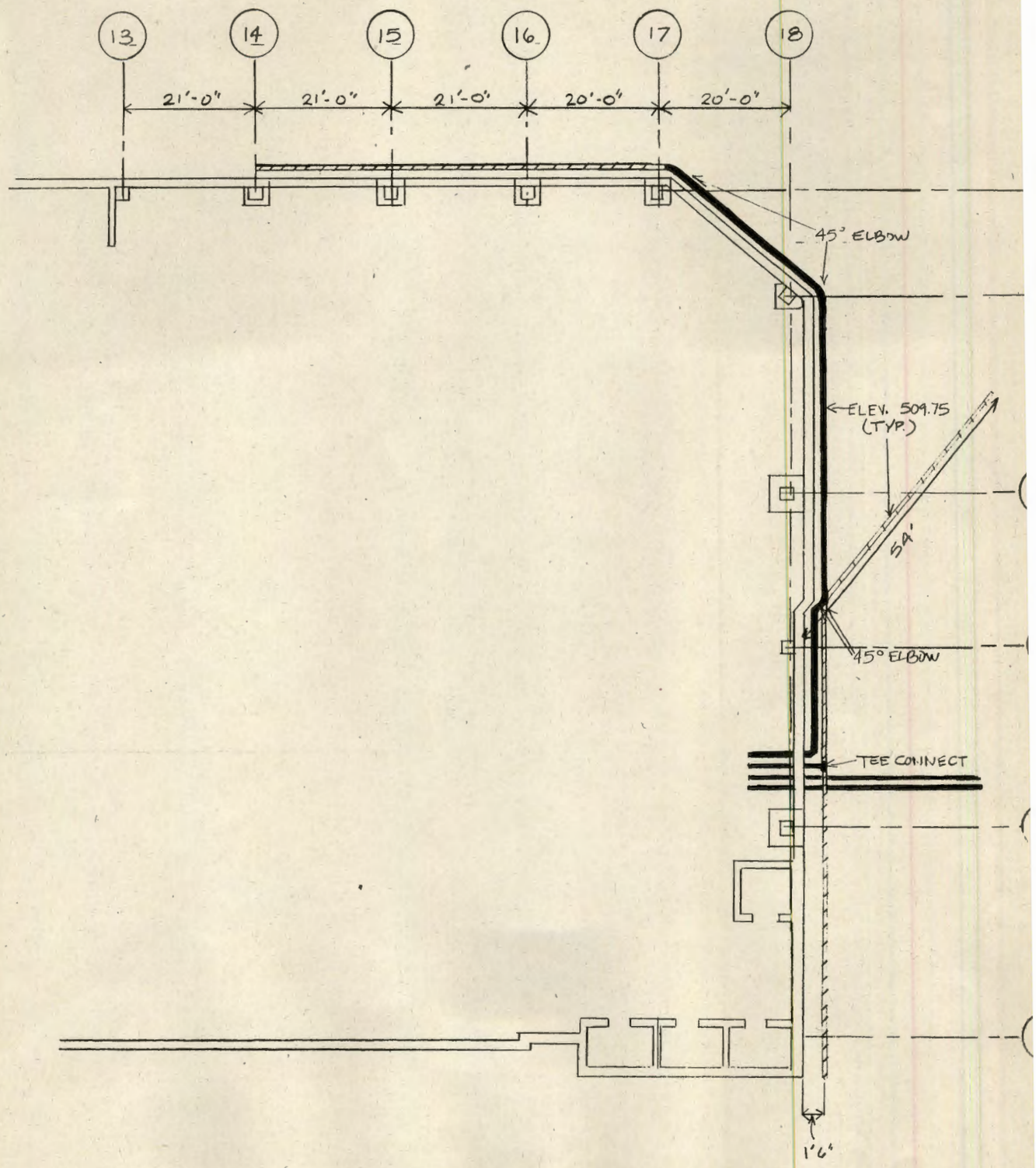
VERIFICATION SAMPLE LOCATION PLAN

COURT STREET

PARKING GARAGE 12-16-94

FIGURE 2

DRAFT



SLOTTED PIPE 4"ϕ

SOLID PIPE 4"ϕ

SCALE $\frac{1}{16}$" = 1'0"

PLAN VIEW

PIPING LAYOUT

LEVEL "B"

COURT ST. PARKING

GARAGE

REVISED 12-13-94

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

July 20, 1995

Mary Jane Peachey, P.E.
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414

Re: Court Street Parking Garage Progress Report Number 8

Dear Ms. Peachey:

As required by Section III of the consent order between the City of Rochester and the New York State Department of Environmental Conservation, we are providing the eighth progress report documenting work from the end of December, 1994 through June 30, 1995 on the Court Street Parking Garage Site IRM.

Soil removal activities were basically complete at the end of last year. Since that time, we have contacted Todd Caffoe directly with any minor updates.

I can be reached at 428-5978 if you have any questions. Thank you for your cooperation on this project.

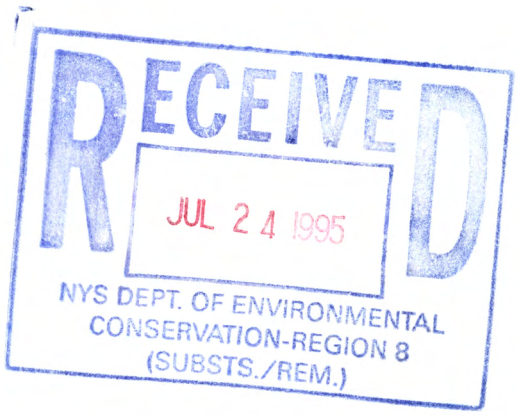
Sincerely,

Mark D. Gregor
Environmental Specialist

Attach.
xc. R.Elliott,MC-DOH
D.Napier,NYS-DOH
James Hazel,NYS-DEC
E.Doherty
J.Brennan
S.Hauser
N.Burton
S.Feuerstein
A.Klumpp
T.Seeler
imprtr6.let

City of Rochester, New York
Court Street Parking Garage Project
Interim Remedial Measure
July 19, 1995

Progress Report No. 8
Work Completed Through June 30, 1995



Prepared by the City of Rochester, New York
Department of Environmental Services
Division of Environmental Quality

Progress During the Reporting Period

During most of the reporting period, December 31, 1994 through June 30, 1995, no IRM activities were performed at the Court Street Parking Garage site. On June 8, 1995, 24 tons of stoddard contaminated soil was excavated from an area along the east side of the garage near the tunnel connection. The contaminated soil was transported to Mill Seat Landfill for disposal.

The NYSDEC response to the City's December 16, 1994 soil vent system layout proposal and work plan modification was issued January 5, 1995. Proposed detailed drawings and specifications were submitted to NYSDEC on March 20, 1995 and comments from NYSDEC were issued on April 7. The City's response to these comments was made May 15, 1995, and the NYSDEC approval letter for the system was issued May 31, 1995. Copies of all correspondence are provided in Attachment 1.

All sections of the soil vent system outside the footprint of the garage have been installed and connected. The PVC pipe foundation penetrations have been made and sealed as well.

Percent Completion:

The IRM soil removal activities are 100% complete.

Ventilation system plans are approved. The ventilation system installation is about 60% complete. System installation will be completed by November 12, 1995 as the parking garage is completed.

A draft IRM report has been prepared by Seeler Associates (now part of Camp, Dresser & Mckee Inc.) Revisions to the report are underway.

Modifications to the Work Plan

No work plan modifications were proposed or required during the reporting period.

Problems Encountered

The comprehensive IRM report, scheduled to be submitted to the NYSDEC in March 1995, has been delayed. The report is undergoing substantial formatting changes because it may also be used in legal proceedings regarding property condemnation valuations and/or remedial cost recovery.

Deliverables

The City's final vent system layout and detailed drawings and specifications were previously discussed. The final IRM report has been delayed.

Actions for the Coming Month

Remaining sections of ventilation system pipe, the system valving, moisture separators, etc., will be installed in September. (The top floor of the garage will be completed in September.) Blower installation and final connections will be made during October. LMC Industrial Contractors, Inc. will install the remaining portions of the soil ventilation system. City Environmental Quality staff will notify Region 8 staff of specific progress during the installation so that the NYSDEC has an opportunity to inspect the system.

An operation and maintenance plan will be prepared and submitted to the NYSDEC upon completion of the system.

Seeler Associates will finalize the final IRM report. We now expect that a draft report will be submitted to the NYSDEC in early September.

Gasoline Contamination

A site drawing identifying soil sample locations in the area of gasoline contamination west of the former Stone Street right-of-way is provided as Attachment 2. All laboratory analytical data for this area are provided in Attachment 3. (Please note that the data were previously submitted with Progress Reports 2 and 3.)

The following table provides pertinent information about the samples:

Table 1. Soil Sample Descriptions - Court Street Garage Gasoline Contamination

Sample Date	Sample ID	Sampler	Description
April 11, 1994	Sample #1	UES	Grab sample of first encountered soil contamination
	Sample #2	UES	As above
	Sample #3	UES	As above
April 28, 1994	West	Seeler	Vertical composite of South wall after excavation
	Mid	Seeler	As above
	East	Seeler	As above
August 29, 1994	G-1	Seeler	Floor of excavation at finish grade
	G-2	Seeler	As above

Attachment 1

New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Telephone: (716) 226-2466

Langdon Marsh
Commissioner

Peter J. Bush
Regional Director

January 5, 1995

Mr. Mark Gregor
City of Rochester
Department of Environmental Services
30 Church Street - Room 300B
Rochester, New York 14614-1278

Dear Mr. Gregor:

RE: Court Street Parking Garage IRM Vent System Piping Layout

Staff at the New York State Department of Environmental Conservation (the Department), the New York State Department of Health, and the Monroe County Health Department have reviewed the December 16, 1994 proposal for the soil venting system piping layout in conjunction with the verification sample data (samples V-1 through V-16). Based upon this review, the vent system proposed is a practical solution which will provide the most environmental benefit within the Phase I area of the excavation. Although the soils located in the area of sample V-11 are contaminated above the STARS criteria, the soils do not exhibit any odors nor is there evidence of seeps or staining. Further, the amount of soil appears relatively small and it is removed from the area of residual contamination. Removal of this soil would be difficult and provide little environmental benefit.

Upon consideration of these factors, the Department accepts the proposed vent system layout. Please submit the detailed drawings and specifications of the entire vent system for review and approval. Thank you for your continued cooperation.

Sincerely,

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Hazardous
Waste Remediation

c: M.J. Peachey
J. Hazel
D. Napier
R. Elliott

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278

March 20, 1995

Mary Jane Peachey, P.E.
New York Department of Environmental Conservation
6274 E. Avon Lima Road
Avon, New York 14414

Re: Court Street Parking Garage IRM Vent System - Detailed Drawings

Dear Ms. Peachey:

As requested in Todd Caffoe's January 5 letter to me, I am providing proposed final detailed drawings with noted specifications for the Court Street Garage soil vent system. The design has been prepared in accordance with the approved piping system layout.

Enclosed are two copies of the following three draft drawings prepared by Seeler Associates:

1. Soil Gas Ventilation System Layout
2. Layout of Piping and Related Equipment for the Soil Vapor Extraction System (1 0f 2)
3. Electrical Layout for the Soil Vapor Extraction System (2 of 2)

We will provide final sealed drawings after addressing any comments that you may have. Please let me know if you or Todd have any questions. Thank you for your assistance.

Sincerely,

Mark D. Gregor
Environmental Specialist
428-5978

attach.
xc.T.Caffoe,NYS-DEC
R.Elliott,MC-DOH
D.Napier,NYS-DOC
James Hazel, NYS--DEC w/o attach
E.Doherty w/oatach
J.Brennan w/o attach
N.Burton w/o attach
S.Feuerstein
A.Klumpp
T.Seeler
g:\envqual\mchan2

New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Telephone: (716) 226-2466

Michael D. Zagata
Commissioner

April 7, 1995

Mr. Mark Gregor
City of Rochester
Department of Environmental Services
30 Church Street - Room 300B
Rochester, New York 14614-1278

Dear Mr. Gregor:

RE: Court Street IRM Soil Venting System Design

The New York State Department of Environmental Conservation (the Department), the New York State Department of Health (NYSDOH), and the Monroe County Health Department (MCHD) have reviewed the referenced document. We have the following comments:

1. The valves located at the manifold are designated as shut-off valves on drawing 1 of 2; however, they are designated as control valves on drawing 4. Please clarify.

2. To enable more control of vapor flow rates and to isolate branches of vent piping, the following recommendations must be addressed:

   a. The branch of piping running to the north side of the parking garage and the branch running to the access tunnel should be separated.

   b. Sampling ports and vacuum gauges should be added to each branch of the vent pipe system. They should be located on the inlet side of the control valves.

3. Once the system has been installed, an operation and maintenance plan must be submitted to the Department.

Please provide a written response and sealed drawings to the Department by **April 21, 1995**. Thank you for your cooperation.

Sincerely,

Todd M. Caffoe

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Hazardous
Waste Remediation

c: M.J. Peachey
J. Hazel
D. Napier
R. Elliott

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm. 300B
Rochester, New York 14614-1278
Tel.#: (716) 428-6011

May 15, 1995

Todd Caffoe, P.E.
New York State Department of Environmental Conservation
6274 E. Avon-Lima Road
Avon, New York 14414-9519

Re: Court Street IRM Soil Ventilation System Design

Dear Mr. ~~Caffoe~~ TODD:

I apologize for the delay in responding to your April 7, 1995 letter. We have reviewed your comments on our March 20, 1995 soil ventilation system design submittal and prepared the following responses:

Comment 1.
The valves located at the manifold are designated as shut-off valves on drawing 1 of 2; however, they are designated as control valves on drawing 4. Please clarify.

Response:
The valves are ball valves that will be operated to control air flow and optimize system performance. Ball valves will allow continuous flow adjustment from closed to fully open.

Comment 2a
The branch of piping running to the north side of the parking garage and the branch running to the access tunnel should be separated.

Response:
We have determined that given the proximity and nature of the contamination in the lower overburden around the northeast area of the garage, it will generally be necessary to operate the both legs of the garage perimeter ventilation system in the same manner (eg. valve position and vacuum setting). Seeps were observed at locations on both the east and north shoring as well. Although some additional operational flexibility would be gained by such a modification, we believe that the our proposed system layout will be effective.

Comment 2b.
Sampling ports and vacuum gauges should be added to each branch of the vent pipe system. They should be located on the inlet side of the control valves.

Response:
We agree and have prepared an additional drawing detailing the locations for sampling ports and vacuum gauges.

Comment 3.
Once the system has been installed, an operation and maintenance plan must be submitted to the Department.

Response :
An operations and maintenance plan will be prepared and submitted to your office upon installation of the system. Final installations will be completed in the Fall of 1995.

We are enclosing two sets of sealed final drawings with this response. Let me know if you have any additional questions or concerns. Thank you for your cooperation.

Sincerely,

Mark D. Gregor
Environmental Specialist

g:\envqual\i .nvent.bk!
attach.
c: M.J.Peachey, NYSDEC w/o attach
J.Hazel,NYSIDEC
D.Napier,NY SDOH
R.Elliott,MCIDOH
E.Doherty w/o attach
J.Brennan w/ o attach
S.Feuersten
A.Klumpp

New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Telephone: (716) 226-2466

Michael D. Zagata
Commissioner

May 31, 1995

Mr. Mark Gregor
City of Rochester
Department of Environmental Services
30 Church Street - Room 300B
Rochester, New York 14614-1278

Dear Mr. Gregor:

RE: Court Street RM Revised Soil Venting System Design

The New York State Department of Environmental Conservation (the Department), the New York State Department of Health (NYSDOH), and the Monroe County Health Department (MCHD) have reviewed the above referenced document. Based upon our review, the soil vent system design is approved. Please send me a revised schedule for installation and startup of the vent system by *June 15, 1995*.

Please feel free to contact me if you have any questions. Thank you for your cooperation.

Sincerely,

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Hazardous
Waste Remediation

cc: M.J. Peachey
J. Hazel
D. Napier
R. Elliott

Attachment 2

REMOVED AND
Existing structures
AT COURT St. DEMO

Stone Masonry (Removed)

- Concrete or masonry wall (existing)

- Reinforced concrete ftgs.

PRIVATE ALLEY

PROVIDE & INSTALL RB-3 "SIDEWALK CLOSED" SIGN. ATTACH TO FENCE

NEW CONSTRUCTION FENCE (THIS CONTRACT)

PROVIDE & INSTALL RB-1 "ROAD CLOSED" SIGN

EXISTING CONSTRUCTION FENCE (BY OTHERS)

STONE

PREVIOUSLY REMOVED AND BACKFILLED

37' Brick wall 1' thick NOT included in pay item

Reinforced Concrete Foundation Wall

VARIOUS BRICK AND STONE STRUCTURES (REMOVED)

Top=526'
Bottom=518'

Possible large conc. fdn under wall

Reinforced Conc Foundation Wall Still existing

Bottom of wall Approx 518'

Top of wall 527' (ES)

Slab Elevation = 518.54

Rein Conc Ftgs

STONE STRUCTURES CLOSED SOUTH OF CLIMAX ALLEY

100' LIMIT OF ROCK CUT

SITE TO BE EXCAVATED

CLIMAX ALLEY

SOUTH AVENUE

Ftg @ Approx 518' (5'x3'x1')

516.81 BM

506.12 BM

501.25 to top of Rock

10'

5'

NON REIN CONC. WALL (REMOVED)

(11' bel grade)

(16' bel grade)

sample #1

sample #3

location of fuel odors 4-8-94

sample #2

THESE STRUCTURES ABOUT 1' UNDER EXISTING PAVEMENT

Stone ST. REMAINS

30' Brick

Top @ 514'

24" rock wall exposed at this elev.

Bottom @ approx 510'

SHORING LINE

LINE OF FUTURE GARAGE

(Demolished) CMU Structure

Brick/Stone Structures (Removed)

REMOVED 4'x8' UST @ 526'

Existing Storm Line

G2

G1

Conc. Island (Removed)

WEST

MID

EAST

Top of Slope

Approx top of wall @ 515'

30" STONE MASONRY WALL EXPOSED AT SLOPE ELEV. EXTENDS SOUTH UNKNOWN DIST. to Court St.

PROVIDE & INSTALL RB-3 "SIDEWALK CLOSED" SIGNS

NEW 8'-0" HIGH CHAIN LINK FENCE (THIS CONTRACT), TYP.

SOME BRICK RUBBLE AND/OR BRICK FOUNDATION WALLS MAY BE LEFT IN SLOPE (including conc. ftgs)

20' SWING GATE (THIS CONTRACT)

NEW CONSTRUCTION (THIS CONTRACT)

PROVIDE & INSTALL RB-1 "ROAD CLOSED" SIGN

STUDY'S BLDG TO BE DEMOLISH

92.5

COURT STREET

1" = 30'

CME SKETCH

Attachment 3

Soil Samples - [redacted]
Court St Parking Garage

LI
R N D
RATORY
N · C

Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE Apr 12, 1994

LAB SAMPLE ID : 40592

URS
Rob Gray
215 Tully Street

Syracuse NY 13204

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 16 FT. BELOW GRADE N
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Halogenated Volatile Organics
Method : SW846/8010/8020/5030

Analyst : CM
Units : UG/KG

Notebook Reference : 94-044-217
Date Analyzed : 04/11/94

SAMPLE #1
SEE COFC

Compounds Detected	Results
Dichlorodifluoromethane	ND<12.5
Chloromethane	ND<12.5
Vinyl Chloride	ND<12.5
Bromomethane	ND<12.5
Chloroethane	ND<12.5
Trichlorofluoromethane	ND<12.5
1,1-Dichloroethene	ND<12.5
Methylene Chloride	ND<12.5
trans-1,2-Dichloroethene	ND<12.5
1,1-Dichloroethane	ND<12.5
cis-1,2-Dichloroethene	ND<12.5
Chloroform	ND<12.5
1,1,1-Trichloroethane	ND<12.5
Benzene	ND<12.5
Carbon Tetrachloride	ND<12.5
1,2-Dichloroethane	ND<12.5
Trichloroethene	ND<12.5
1,2-Dichloropropane	ND<12.5
Bromodichloromethane	ND<12.5
Dibromomethane	ND<12.5
2-Chloroethylvinylether	ND<12.5
cis-1,3-Dichloropropene	ND<12.5
Toluene	ND<12.5
trans-1,3-Dichloropropene	ND<12.5
1,1,2-Trichloroethane	ND<12.5

For questions regarding this report, please call and ask for Customer Services.

cc :

Approved by: Lindsey Brown
QUALITY ASSURANCE

LI ENVIRONMENTAL LABORATORY, INC.
ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-8500 FAX (607) 565-4083

Volatiles

DATE : Apr 12, 1994

LAB SAMPLE ID : 40592

UES

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 16 FT. BELOW GRADE N
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Tetrachloroethene	ND<12.5
Chlorodibromomethane	ND<12.5
Chlorobenzene	ND<12.5
1,1,1,2-Tetrachloroethane	ND<12.5
Ethylbenzene	ND<12.5
p-Xylene/m-Xylene	ND<12.5
o-Xylene	ND<12.5
Bromoform	ND<12.5
Bromobenzene	ND<12.5
1,1,2,2-Tetrachloroethane	ND<12.5
1,2,3-Trichloropropane	ND<12.5
2-Chlorotoluene	ND<12.5
4-Chlorotoluene	ND<12.5
1,3-Dichlorobenzene	ND<12.5
1,4-Dichlorobenzene	ND<12.5
1,2-Dichlorobenzene	ND<12.5
Surrogate Recovery (%)	
PID	113
ELCD	94

Approved by: Lindsey Brown
QUALITY ASSURANCE

LI
LEND
ORATORY
N C

Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-8500 FAX (607) 565-4083

DATE Apr 12, 1994

LAB SAMPLE ID : 40593

UES
Rob Gray
215 Tully Street

Syracuse NY 13204

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 16 FT. BELOW GRADE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Halogenated Volatile Organics
Method : SW846/8010/8020/5030
Analyst : CM
Units : UG/KG
Notebook Reference : 94-044-218
Date Analyzed : 04/11/94

SAMPLE #2
SEE COFC

Compounds Detected	Results
Dichlorodifluoromethane	ND<12.5
Chloromethane	ND<12.5
Vinyl Chloride	ND<12.5
Bromomethane	ND<12.5
Chloroethane	ND<12.5
Trichlorofluoromethane	ND<12.5
1,1-Dichloroethene	ND<12.5
Methylene Chloride	ND<12.5
trans-1,2-Dichloroethene	ND<12.5
1,1-Dichloroethane	ND<12.5
cis-1,2-Dichloroethene	ND<12.5
Chloroform	ND<12.5
1,1,1-Trichloroethane	ND<12.5
Benzene	ND<12.5
Carbon Tetrachloride	ND<12.5
1,2-Dichloroethane	ND<12.5
Trichloroethene	ND<12.5
1,2-Dichloropropane	ND<12.5
Bromodichloromethane	ND<12.5
Dibromomethane	ND<12.5
2-Chloroethylvinylether	ND<12.5
cis-1,3-Dichloropropene	ND<12.5
Toluene	ND<12.5
trans-1,3-Dichloropropene	ND<12.5
1,1,2-Trichloroethane	ND<12.5

For questions regarding this report, please call and ask for Customer Services.

CC :

Approved by: Lindsay Brown
QUALITY ASSURANCE

LI
ENVIRONMENTAL LABORATORY INC.
Volatiles
ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE : Apr 12, 1994

LAB SAMPLE ID : 40593

UES

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 16 FT. BELOW GRADE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Tetrachloroethene	ND<12.5
Chlorodibromomethane	ND<12.5
Chlorobenzene	ND<12.5
1,1,1,2-Tetrachloroethane	ND<12.5
Ethylbenzene	45
p-Xylene/m-Xylene	ND<12.5
o-Xylene	ND<12.5
Bromoform	ND<12.5
Bromobenzene	ND<12.5
1,1,2,2-Tetrachloroethane	ND<12.5
1,2,3-Trichloropropane	ND<12.5
2-Chlorotoluene	ND<12.5
4-Chlorotoluene	ND<12.5
1,3-Dichlorobenzene	ND<12.5
1,4-Dichlorobenzene	ND<12.5
1,2-Dichlorobenzene	ND<12.5
Surrogate Recovery (%)	
PID	118
ELCD	102

Approved by: Lindsey Brown
QUALITY ASSURANCE

ELI
ENVIRONMENTAL LABORATORY
Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3600 FAX (607) 565-4083

DATE Apr 12, 1994

LAB SAMPLE ID : 40594

UES
Rob Gray
215 Tully Street

Syracuse NY 13204

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 11 FT. BELOW GRADE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Halogenated Volatile Organics
Method : SW846/8010/8020/5030
Compounds Detected

Analyst : CM
Units : UG/KG
Results

Notebook Reference : 94-044-219
Date Analyzed : 04/11/94

SAMPLE #3
SEE COC

Dichlorodifluoromethane	ND<12.5
Chloromethane	ND<12.5
Vinyl Chloride	ND<12.5
Bromomethane	ND<12.5
Chloroethane	ND<12.5
Trichlorofluoromethane	ND<12.5
1,1-Dichloroethene	ND<12.5
Methylene Chloride	ND<12.5
trans-1,2-Dichloroethene	ND<12.5
1,1-Dichloroethane	ND<12.5
cis-1,2-Dichloroethene	ND<12.5
Chloroform	ND<12.5
1,1,1-Trichloroethane	ND<12.5
Benzene	ND<12.5
Carbon Tetrachloride	ND<12.5
1,2-Dichloroethane	ND<12.5
Trichloroethene	ND<12.5
1,2-Dichloropropane	ND<12.5
Bromodichloromethane	ND<12.5
Dibromomethane	ND<12.5
2-Chloroethylvinylether	ND<12.5
cis-1,3-Dichloropropene	ND<12.5
Toluene	ND<12.5
trans-1,3-Dichloropropene	ND<12.5
1,1,2-Trichloroethane	ND<12.5

For questions regarding this report, please call and ask for Customer Services.

cc :

Approved by: Lindsey Brown
QUALITY ASSURANCE

LI LEND ORATORY N.C

Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE : Apr 12, 1994

LAB SAMPLE ID : 40594

UES

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	SOIL 11 FT. BELOW GRADE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Tetrachloroethene	ND<12.5
Chlorodibromomethane	ND<12.5
Chlorobenzene	ND<12.5
1,1,1,2-Tetrachloroethane	ND<12.5
Ethylbenzene	ND<12.5
p-Xylene/m-Xylene	ND<12.5
o-Xylene	ND<12.5
Bromoform	ND<12.5
Bromobenzene	ND<12.5
1,1,2,2-Tetrachloroethane	ND<12.5
1,2,3-Tetchloropropane	ND<12.5
2-Chlorotoluene	ND<12.5
4-Chlorotoluene	ND<12.5
1,3-Dichlorobenzene	ND<12.5
1,4-Dichlorobenzene	ND<12.5
1,2-Dichlorobenzene	ND<12.5
Surrogate Recovery (%)	
PID	108
ELCD	94

Approved by: Lindsey Brown
QUALITY ASSURANCE

LI
ENDRATORY
N C

Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1582
TELEPHONE (607) 565-3500 FAX (607) 565-4088

DATE Apr 12, 1994

LAB SAMPLE ID 40595

UES
Rob Gray
215 Tully Street

Syracuse NY 13204

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	GROUNDWATER, EXEC. SITE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Halogenated Volatile Organics
Method : SW846/8010/8020/5030
Analyst : CM
Units : UG/L
Notebook Reference : 94-044-216
Date Analyzed : 04/11/94

WATER SAMPLE
SEE COFC

Compounds Detected	Results
Dichlorodifluoromethane	ND<0.5
Chloromethane	ND<0.5
Vinyl Chloride	ND<0.5
Bromomethane	ND<0.5
Chloroethane	ND<0.5
Trichlorofluoromethane	ND<0.5
1,1-Dichloroethene	ND<0.5
Methylene Chloride	ND<0.5
trans-1,2-Dichloroethene	ND<0.5
1,1-Dichloroethane	ND<0.5
cis-1,2-Dichloroethene	ND<0.5
Chloroform	ND<0.5
1,1,1-Trichloroethane	ND<0.5
Benzene	ND<0.5
Carbon Tetrachloride	ND<0.5
1,2-Dichloroethane	ND<0.5
Trichloroethene	ND<0.5
1,2-Dichloropropane	ND<0.5
Bromodichloromethane	ND<0.5
Dibromomethane	ND<0.5
2-Chloroethylvinylether	ND<0.5
cis-1,3-Dichloropropene	ND<0.5
Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5

For questions regarding this report, please call and ask for Customer Services.

CC :

Approved by: Lindsay Brown
QUALITY ASSURANCE

Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1682
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE : Apr 12, 1994

LAB SAMPLE ID : 40595

UES

SAMPLE SOURCE	COURT ST., BINGHAMTON
ORIGIN	GROUNDWATER, EXEC. SITE
DESCRIPTION	GRAB
SAMPLED ON	04/11/94 by CLIENT
DATE RECEIVED	04/11/94
P.O. NO.	

Tetrachloroethene	ND<0.5
Chlorodibromomethane	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	30
p-Xylene/m-Xylene	58
o-Xylene	19
Bromoform	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
Surrogate Recovery (%)	
PID	112
ELCD	104

Approved by: Lindsey Brown
QUALITY ASSURANCE

Page ___ of ___ CHAIN OF CUSTODY RECORD CUSTOMER CODE: #

PROJECT NO./ NAME	CLIENT NAME	SAMPLE SITE	SAMPLER'S SIGNATURE
	Falls	Court St, Rushford Twp	

SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	ORIGIN/SOURCE	# OF CONTAINERS	DESCRIPTION CC 40592	ANALYSES/TESTS REQUESTED
1	4/11/94	1:30PM	SOIL RXC SITE 16 FT BELOW GRADE NORTH	1	X	Soils 8010 / 8020
2	4/11/94	1:30PM	SOIL RXC SITE 16 FT BELOW GRADE	1	40593 X	Soil 8010 / 8020
3	4/11/94	1:30PM	SOIL RXC SITE 11 FT BELOW GRADE	1	40594 X	Soil 8010/8020
4			RXC SITE GROUNDWATER	2	X	water 8010/8020
5			RXC SITE GROUNDWATER	2	40595 X	water 8010/8020

RELINQUISHED BY SIGNATURE / PRINT	DATE/TIME	RECEIVED BY SIGNATURE / PRINT	DATE/TIME	RELINQUISHED BY SIGNATURE / PRINT	DATE/TIME
Bob Gray	4/11/94 1:30PM	J Wilbat	4/11/94 1:30PM		
RECEIVED BY SIGNATURE / PRINT	DATE/TIME	RELINQUISHED BY SIGNATURE / PRINT	DATE/TIME	RECEIVED AT LAB BY SIGNATURE / PRINT Debbie McCarty / Debbie McCarty	DATE/TIME 4/14/94 8:09

REMARKS

FRIEND LABORATORY, INC.

1312-94 TUE 16:04 UPSTATE ENV. SERVICES P.10