

# REMEDIAL REPORT FOR THE TRUSCON PROPERTY

THE CITY OF BUFFALO

**DECEMBER 1996** 

MALCOLM PIRNIE, INC.

40 Centre Drive P. O. Box 1938 Buffalo, New York 14219

T. DIEMENBREA

То:	NYSDEC -	BUFFALO	FEB 1 11997	Date: Re:	TER OF TRANSMITTA  2/10/97  TRUSCON SITE  SOILS REMEDIATION
Attention:	PETER BO	SECH!	MYSDEC-REG. 9 FOIL UNRE	.1_	Soils Remediation
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□ shop o	drawings	□ prints	□ data sheets	ο.	
□ specif	ications	□ sketches	□ brochures		
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## REMEDIAL REPORT FOR THE TRUSCON PROPERTY

# TABLE OF CONTENTS

			Page
1.0	INT	RODUCTION	1
1.0	1.1	Background	<u>.</u> 1
	1.2		2
3.0	REN	MEDIAL RESULTS	3
	3.1	Remedial Plan	3
	3.2		
		3.2.1 Area of Former 5.5 Million Gallon Tank	
		3.2.2 Perimeter of Tank Area and River Bank	
		3.3.3 Tank Removals	
		3.3.4 Oil Pipeline	
	3.3	Backfilling	
	3.4		
	3.5	Disposal of Treated Soil	8
		LIST OF TABLES	
Tabl	e		lows
No.	D	Pescription P	age
3-1	С	comparison of Soil Sampling to STARS Memo Guidance Values	4
		LIST OF FIGURES	_
Figu			llows
No.		<b>Description</b> H	Page
1		Area of 5.5 Million Gallon Tank	3
2		Area of 5.5 Million Gallong Tank, Limits of Excavation	
3		River Bank Area: Excavation Limits and Sample Location Map	5
4		4,000 Gallon Tank Area: Limits of Excavation	
5		Biopad Stockpile Area	7



# **TABLE OF CONTENTS (Continued)**

# LIST OF APPENDICES

Appendix	Description
Α	Related Project Correspondence
В	Inspector's Daily Reports
C	Laboratory Analytical Reports
D	Waste Oil Invoice Forms
E	Stockpile Liner Quality Assurance Test Data
F	Posi-Shell Manufacturer's Data
G	Construction Photographs

#### 1.1 Background

The City of Buffalo purchased an approximately 50-acre parcel of property, located at 1176-1184 South Park Avenue, from LTV Steel Company approximately five years ago. Prior to the purchase, the City contracted for a Phase 1 Assessment of the site which uncovered NYSDEC-documented evidence of an approximately 20 year old spill of No. 6 fuel oil on the site. Subsequently the City, as part of the City's Brownfields redevelopment efforts, worked closely with a Developer to put together a proposed \$22 million development package for purchase and use of the site for hydroponics tomato manufacturing. During the development discussions, the spill history led to a site investigation by the City and discussions with the NYSDEC regarding site remedial requirements.

A proposed remedial plan was submitted to the NYSDEC by Foit-Albert on behalf of the City of Buffalo on June 19, 1996. That plan was revised by Foit-Albert on July 25, 1996.

At the request of the City of Buffalo and LTV, Malcolm Pirnie subsequently reviewed the July 25, 1996 Foit-Albert Remedial Plan in addition to the following four studies:

- Enasco, Inc. (November 1984) Limited Environmental Investigation.
- Enasco, Inc. (January 1995) Continuing Environmental Investigation Report.
- Foit-Albert Assoc. (February 1996) Groundwater Investigation.
- Foit-Albert Assoc. (May 1996) Subsurface Investigation.

Following discussions with the City, NYSDEC and LTV Steel it was concluded that the proposed remedial approach by Foit-Albert was too conservative and costly to implement.

A supplemental soil sampling program was completed in August 1996 to better define the vertical and horizontal limits of soil contamination and serve as the basis for development of a revised remedial plan. The sampling results and a revised remedial approach are discussed in the September 1996 Sampling Report and Remedial Plan prepared by Malcolm Pirnie.

LTV Steel and the City subsequently agreed to share the cost and responsibility for implementing the remedial plan. Copies of the Agreement between the City and LTV Steel are included in Appendix E of the September 1996 Sampling Report and Remedial Plan.

## 1.2 Previous Investigations

The previous studies performed by Enasco, Inc., Foit-Albert & Associates, and Malcolm Pirnie are described in the Sampling Report and Remedial Plan prepared by Malcolm Pirnie.

That report describes the methods used to investigate the site, summarizes the analytical data, compares the results to NYSDEC spill clean-up guidance values and delineates the anticipated extent of contamination in each area of the site.

#### 3.1 Remedial Plan

The remedial plan prepared by Malcolm Pirnie was submitted to the NYSDEC for review on September 24, 1996. Various discussions and items of clarification followed regarding the proposed remedial approach. Related correspondence is included in Appendix A.

Generally, remediation activities conducted to date include the excavation of contaminated soil, backfilling and compaction of the excavated areas, transportation of the contaminated soil to an off-site bioremediation storage area on nearby LTV Steel property, and conducting an investigation to determine whether three underground storage tanks remained on-site.

Malcolm Pirnie provided construction oversight of the remediation activities. The inspector's daily reports of the work are included in Appendix B and construction photographs are included in Appendix G. NYSDEC personnel were routinely informed of the test results and progress of the work during construction and provided periodic inspections of the work as it proceeded. Each element of the completed remediation efforts is summarized below.

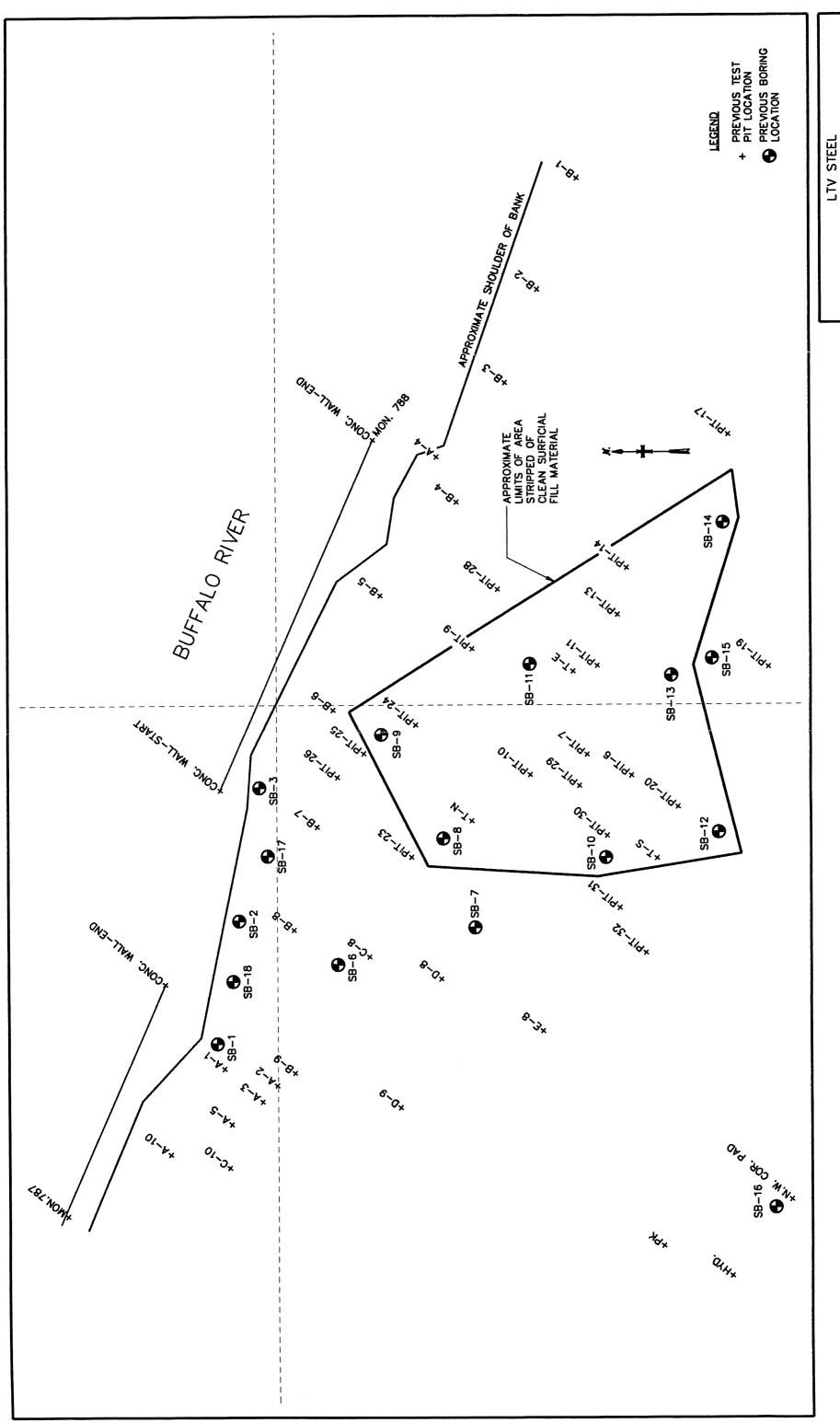
#### 3.2 Soil Excavation

#### 3.2.1 Area of Former 5.5 Million Gallon Tank

The upper portion of clean surficial fill material (1538 cubic yards), within the limits of soil excavation shown on Figure 1 was stripped off and stockpiled on-site (actual depth varied from 1.0 to 1.5-feet from existing ground surface).

Contaminated soil was then excavated vertically until residual oil was not observed or to a maximum depth of approximately 9 to 10 feet, which is equivalent to the elevation of the Buffalo River (573.0-573.5). Actual elevations in the bottom of the excavation varied from 573.0 to 576.2 depending on conditions encountered.

Soil was excavated laterally to the limits of the excavation illustrated on Figure 2. Field modifications to the originally proposed limits of excavation occurred based on



5.5 MILLION GALLON TANK AREA OF

DECEMBER 1996 BUFFALO, NY

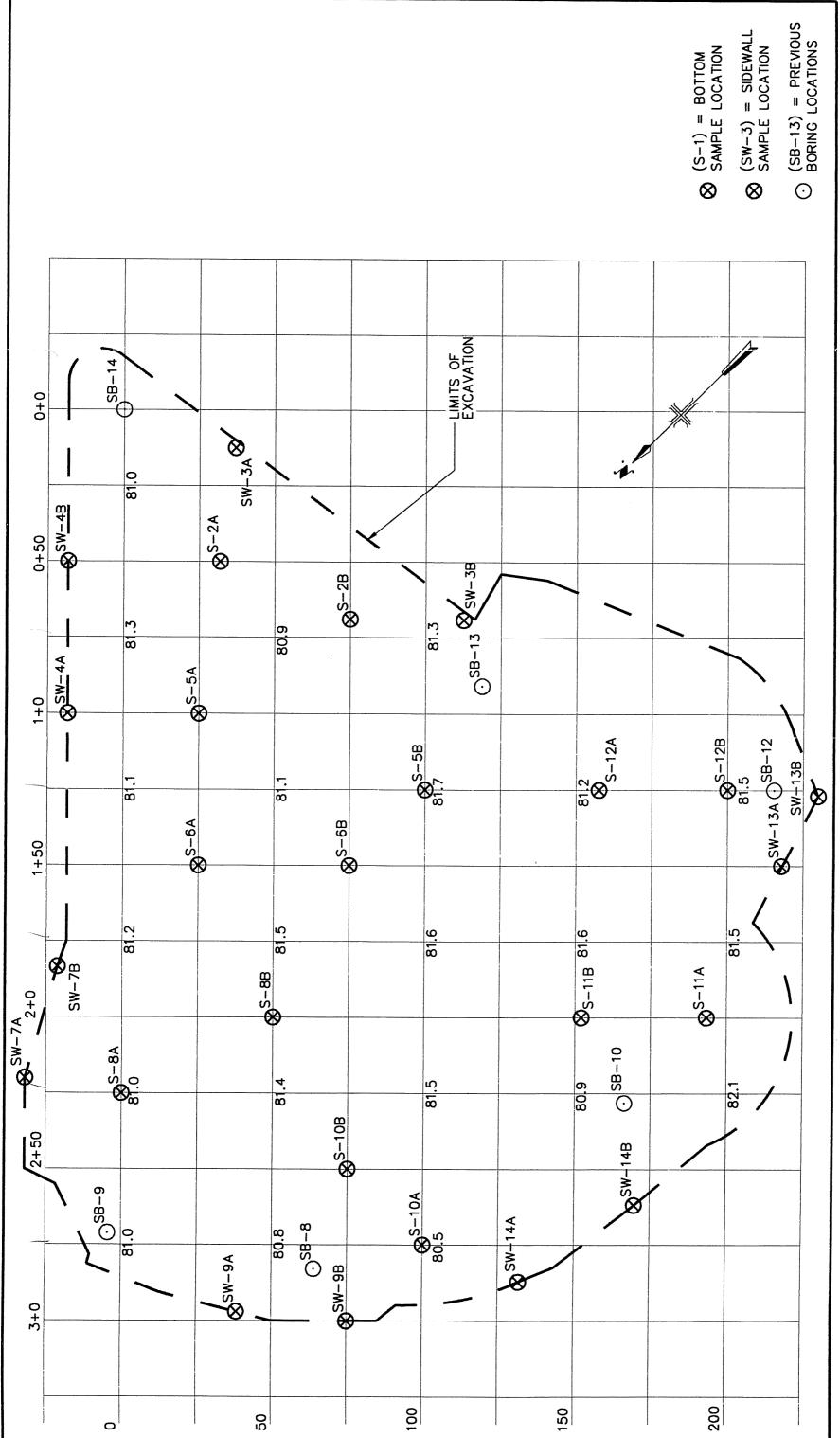
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LTV STEEL
AREA OF 5.5 MILLION GALLON TANK
LIMITS OF EXCAVATION

DECEMBER 1996

BUFFALO,

observed field conditions where residual oil (as defined in Section 2.3 of the Sampling Report and Remedial Plan) was observed along the perimeter of the excavation. The excavating was continued beyond the limits shown on Figure 1 until residual oil was not observed. Approximately 12,100 cubic yards of contaminated soil was excavated from the area of the former 5.5 million gallon tank.

Verification soil samples were collected at a minimum frequency of one sample per 100 linear feet of excavation as composite samples where nuisance characteristics were evident along the sidewall of the excavation. Verification samples were also collected in side wall areas without visual or olfactory indications at a minimum frequency of one sample per 200 linear feet. These samples were intended to document any residual petroleum contamination which might remain.

The bottom of the excavation was sampled at an interval of one composite sample per 5,000 square feet. All samples were collected no less than six inches below the exposed surface being sampled. Random samples were used for compositing. All sampling equipment was decontaminated between sample locations. Soil samples were placed in precleaned sample containers, placed on ice, and transported to a NYSDOH ELAP certified analytical laboratory (Waste Stream Technology, Inc.) for testing.

Sample locations are shown on Figure 2. Table 3-1 summarizes the laboratory analytical results and compares the results to the NYSDEC STARS memo guidance policy values for petroleum contaminated soils. Copies of the laboratory reports are included in Appendix C.

All side wall samples results were less than STARS guidance values. Of the ten base of excavation samples collected, eight had some exceedances of STARS values indicating that some petroleum contamination remained in-place below the level of the River. The remaining contamination not considered significant, however since the oil has been shown to be very hydrophobic and tends to adhere to the soil particles as long as the soil remains undisturbed

#### COMPARISON OF SOIL SAMPLING TO STARS MEMO GUIDANCE VALUES

Sample Location <sup>(1)</sup> Sample Elevation (FMSL)	S-2 (574)	S-5A	S-5B (574)	S-6 (574)	S-8 A/B (575)	S-8A	Stars Memo Guidance Value <sup>(2)</sup>
Compound	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILES:							
Methyl-t-butyl ether							1000.0
Benzene		20.0	10.1		104.0	107.0	14.0
Toluene							100.0
Ethylbenzene		80.0	38.7		94.5	96.0	100.0
m,p-Xylene		229.0	116.0		160.0	178.0	100.0
o-Xylene		164.0	79.6		71.5	73.7	100.0
Isopropyl benzene							100.0
n-Propylbenzene		16.0					100.0
1,3,5-Trimethylbenzene		63.0	21.2		22.1		100.0
tert-Butylbenzene							100.0
1,2,4-Trimethylbenzene		245.0	93.1		102.0	60.7	100.0
sec-Butylbenzene							100.0
p-Isopropyltoluene							100.0
n-Butylbenzene		97.0	20.2				100.0
Napthalene			188.0		209.0	53.6	200.0

Notes: (1) S-designates sample collected from base of excavation.

SW-designates sample collected from sidewall of excavation.

(2) TCLP Alternatives Guidance Value for petroleum contaminated soil.

Shaded concentration values indicate guidance value exceedence.

Blank indicates compound not detected above laboratory detection limit.

#### COMPARISON OF SOIL SAMPLING TO STARS MEMO GUIDANCE VALUES

Sample Location <sup>(1)</sup> Sample Elevation (FMSL)	S-8B	S-10 A/B (573)	S-11 A/B (573)	S-12 A/B (573)	S-16 A/B (573)	Stars Memo Guidance Value <sup>(2)</sup>
Compound	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILES:						
Methyl-t-butyl ether						1000.0
Benzene	273.0	198.0	34.7			14.0
Toluene	12.6		4.6			100.0
Ethylbenzene	289.0	406.0	40.9			100.0
m,p-Xylene	496.0	70.3	120.0			100.0
o-Xylene	199.0	38.3	66.1			100.0
Isopropyl benzene		27.1	2.3			100.0
n-Propylbenzene			11.4			100.0
1,3,5-Trimethylbenzene	99.1	53.6	39.3			100.0
tert-Butylbenzene						100.0
1,2,4-Trimethylbenzene	399.0	1260.0	158.0	145.0		100.0
sec-Butylbenzene						100.0
p-Isopropyltoluene						100.0
n-Butylbenzene		351.0	50.7	15.2		100.0
Napthalene	772.0	3270.0	707.0	147.0		200.0

Notes: (1) S-designates sample collected from base of excavation. SW-designates sample collected from sidewall of excavation.

(2) TCLP Alternatives Guidance Value for petroleum contaminated soil.

Shaded concentration values indicate guidance value exceedence. Blank indicates compound not detected above laboratory detection limit.

#### COMPARISON OF SOIL SAMPLING TO STARS MEMO GUIDANCE VALUES

Sample Location <sup>(1)</sup> Sample Elevation (FMSL)	S-18 A/B (571)	S-20 A/B (570)	S-21 A/B (572)	SW-3	SW-4	Stars Memo Guidance Value <sup>(2)</sup>
Compound	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILES:						
Methyl-t-butyl ether						1000.0
Benzene				1.4		14.0
Toluene						100.0
Ethylbenzene						100.0
m,p-Xylene						100.0
o-Xylene						100.0
Isopropyl benzene	739.0		2.0			100.0
n-Propylbenzene	4340.0	3.8	5.4			100.0
1,3,5-Trimethylbenzene			1.9			100.0
tert-Butylbenzene						100.0
1,2,4-Trimethylbenzene		6.3	23.0			100.0
sec-Butylbenzene	1610.0					100.0
p-Isopropyltoluene						100.0
n-Butylbenzene	5310.0	13.7				100.0
Napthalene			4.9			200.0

Notes: (1) S-designates sample collected from base of excavation.
SW-designates sample collected from sidewall of excavation.

(2) TCLP Alternatives Guidance Value for petroleum contaminated soil.

Shaded concentration values indicate guidance value exceedence. Blank indicates compound not detected above laboratory detection limit.

#### COMPARISON OF SOIL SAMPLING TO STARS MEMO GUIDANCE VALUES

Sample Location <sup>(1)</sup> Sample Elevation (FMSL)	SW-7 A/B	SW-9 A/B	SW-13 A/B	SW-14 A/B	SW-15 A/B	Stars Memo Guidance Value <sup>(2)</sup>
Compound	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILES:						
Methyl-t-butyl ether						1000.0
Benzene						14.0
Toluene				2.4		100.0
Ethylbenzene						100.0
m,p-Xylene						100.0
o-Xylene				29.0		100.0
Isopropyl benzene						100.0
n-Propylbenzene				65.3		100.0
1,3,5-Trimethylbenzene						100.0
tert-Butylbenzene						100.0
1,2,4-Trimethylbenzene		2.1				100.0
sec-Butylbenzene						100.0
p-Isopropyltoluene						100.0
n-Butylbenzene						100.0
Napthalene		4.0	3.2	2.3		200.0

Notes: (1) S-designates sample collected from base of excavation. SW-designates sample collected from sidewall of excavation.

(2) TCLP Alternatives Guidance Value for petroleum contaminated soil.

Shaded concentration values indicate guidance value exceedence. Blank indicates compound not detected above laboratory detection limit.

0848-261-100/RR Page 4 of 5 pages

#### COMPARISON OF SOIL SAMPLING TO STARS MEMO GUIDANCE VALUES

TO STITLE MADING GOLDAN (OLD VILLOLD)						
Sample Location <sup>(1)</sup> Sample Elevation (FMSL)	SW-17 A/B	SW-19 A/B	SW-22 A/B	SW-23 A/B	SW-24 A/B	Stars Memo Guidance Value <sup>(2)</sup>
Compound	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILES:						
Methyl-t-butyl ether						1000.0
Benzene						14.0
Toluene						100.0
Ethylbenzene						100.0
m,p-Xylene						100.0
o-Xylene						100.0
Isopropyl benzene			3.7		10.2	100.0
n-Propylbenzene			12.7		23.3	100.0
1,3,5-Trimethylbenzene			6.9			100.0
tert-Butylbenzene						100.0
1,2,4-Trimethylbenzene			39.6			100.0
sec-Butylbenzene			5.2		7.5	100.0
p-Isopropyltoluene			4.2			100.0
n-Butylbenzene			42.1		16.8	100.0
Napthalene			40.0			200.0

S-designates sample collected from base of excavation. SW-designates sample collected from sidewall of excavation. Notes: (1)

0848-261-100/RR

TCLP Alternatives Guidance Value for petroleum contaminated soil. (2)

Shaded concentration values indicate guidance value exceedence. Blank indicates compound not detected above laboratory detection limit.

Page 5 of 5 pages

#### 3.2.2 Perimeter of Tank Area and River Bank

Soil was excavated to the water table (the same elevation as the Buffalo River) in the vicinity of SB-1, SB-3, SB-5, SB-17, and SB-18 within the limits shown on Figure 3. Soil that did not have visual staining or detectable odors was stockpiled and used as backfill. The actual quantity of contaminated soil excavated from these five areas was 1660 cubic yards.

The proposed excavation areas were modified as follows:

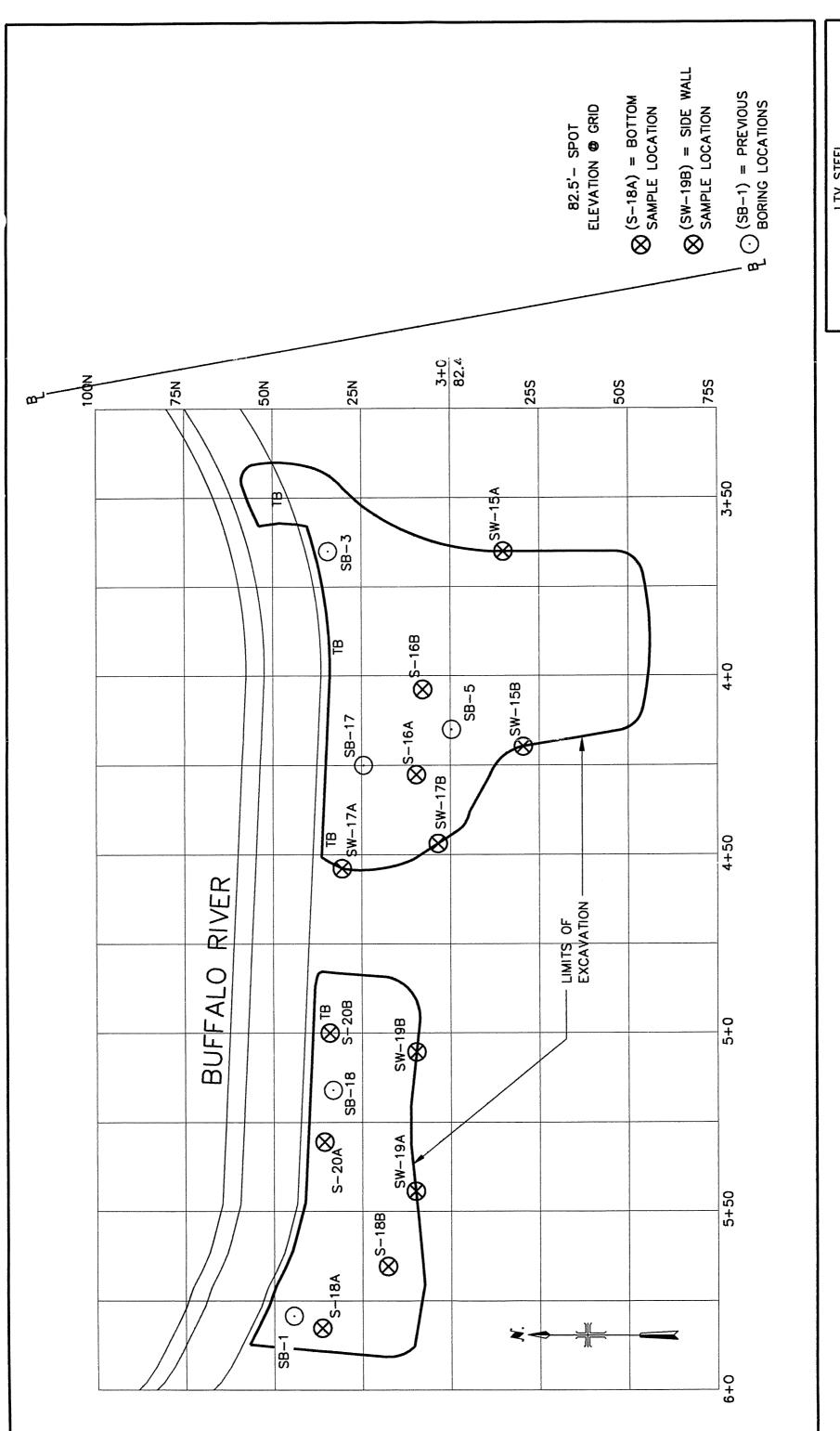
- The lateral limits of excavation above the water table were modified using the same logic presented in Section 3.2.1 for the 5.5 million gallon tank area.
- The proposed excavation plan was to excavate approximately four to five feet below the water table at SB-1, approximately seven feet below the water table at SB-18 and nine feet below the water table at SB-17, and to continue excavating below the water table in a lateral direction until gross contamination was not observed, or the river was encountered. Water entering the excavation was to be removed by pumping and will be discharged to the Buffalo Sewer Authority collection system on South Park Avenue.

As discussed with the on-site NYSDEC representative, the anticipated depths of excavation below the water table could not be achieved due to the proximity of the River and the porous nature of the bank materials. Water entered the excavations much faster than it could be pumped out. To avoid the possibility of the river bank collapsing into the hole and the potential for release of petroleum contaminated soil to the river, the excavation depth was terminated at 4.5-feet below the River elevation in SB-1, 1-foot below the water in SB-18, and 4-feet below the water in SB-17.

Sample locations are shown on Figure 3 and analytical results are summarized in Table 3-1. All side wall results were less than STARS guidance values, as were two of the three base of excavation samples.

#### 3.3.3 Tank Removals

A total of three underground storage tanks (USTs) were assumed to still exist at the site; two 4,000-gallon diesel fuel USTs in the center of the site and one 1,000-gallon fuel oil tank near the Truscon Building Office. The tanks, if present, were planned to be removed,





LTV STEEL
RIVER BANK AREA: EXCAVATION LIMITS
SAMPLE LOCATION MAP

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decommissioned and disposal of. Any contaminated soil in the vicinity of the tanks was to be excavated and remediated.

After excavating with a backhoe, no tanks could be found. In the area of the suspected 1,000-gallon tank, the tank tie-down straps and clean sand backfill were observed; however, no tank was discovered. No contaminated soil was observed.

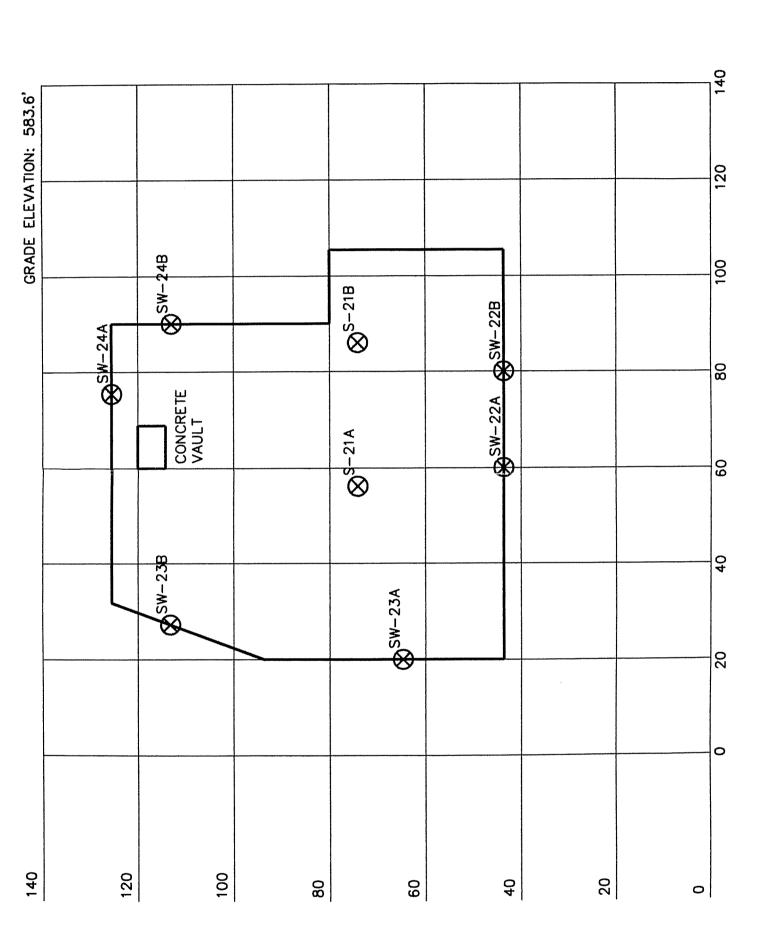
Although no tanks were discovered in the anticipated location of the 4,000-gallon tanks, contaminated soil was observed. Approximately 1,820 cubic yards of contaminated material were excavated at a depth of 3 to 5 feet and hauled off-site. The excavation area and location of the side wall and base of excavation samples that were collected are shown on Figure 4. Laboratory analytical results are summarized in Table 3-1. All test results were less than the STARS guidance values for petroleum contaminated soils

## 3.3.4 Oil Pipeline

During excavation activities in the area of the former 5.5 million gallon tank, an eight-inch diameter abandoned steel pipeline filled with oil was unexpectedly discovered. The oil was detected when the backhoe broke the line. The ends of the pipeline were crimped so that the oil could not leak out. The pipeline ran in an east-west direction in the vicinity of boring SB-12.

Elmwood Tank and Piping Corporation was employed to drain the line and clean out the pipe. The oil from inside the pipe was drained into a sump hole where it was then suctioned out and hauled off-site for disposal. Waste oil invoice forms are included in Appendix D. Eight hundred ninety gallons of oil were removed and disposed of at Bison Waste Oil Company, Inc. The inside of the line (225 linear feet) was cleaned with a pig to free the line of any remaining product. The pipeline was then excavated and set next to the trench.

After removing the pipe, visually contaminated soil or soils with a detectable petroleum odor from the trench and sump area were excavated. The soil was removed to an approximate depth of six feet. The trench width varied from 12 to 50 feet. A total of 1,340 cubic yards of contaminated soil were removed from the pipeline trench. Upon completion



LTV STEEL
4000 GALLON TANK AREA
LIMITS OF EXCAVATION

 $\otimes$  (SW-19B) = SIDE WALL SAMPLE LOCATION

 $\otimes$  (S-18A) = BOTTOM SAMPLE LOCATION

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nama sekara kana mangadi sekara sekara kenangkan mengan kana sekara dan dan kenangkan dan kenangkan dan mendim Tanggan sekara sekara mengan belangkan kenangkan kenangkan mengan kenangkan dan dan kenangkan dan dan mendimber of the excavation activities, the previously cleaned pipeline was placed back into the bottom of the trench and the entire area backfilled.

### 3.3 Backfilling

All excavated soil lacking a detectable petroleum odor or visual evidence of petroleum contamination, blocks of concrete, slag that is not tillable, excavated broken pipelines or other nonputrescible materials which could not be bioremediated were stockpiled on-site for use as backfill. Fill material from other portions of the Truscon site was also stripped and used for backfill in the excavated areas. Railroad ties which were uncovered were stockpiled on the west end of the property for disposal by the City. A total of 9,980 cubic yards of on-site backfill were utilized. In addition, 11,360 cubic yards of offsite fill material were utilized to backfill the excavation areas. No characterization of backfill material was performed.

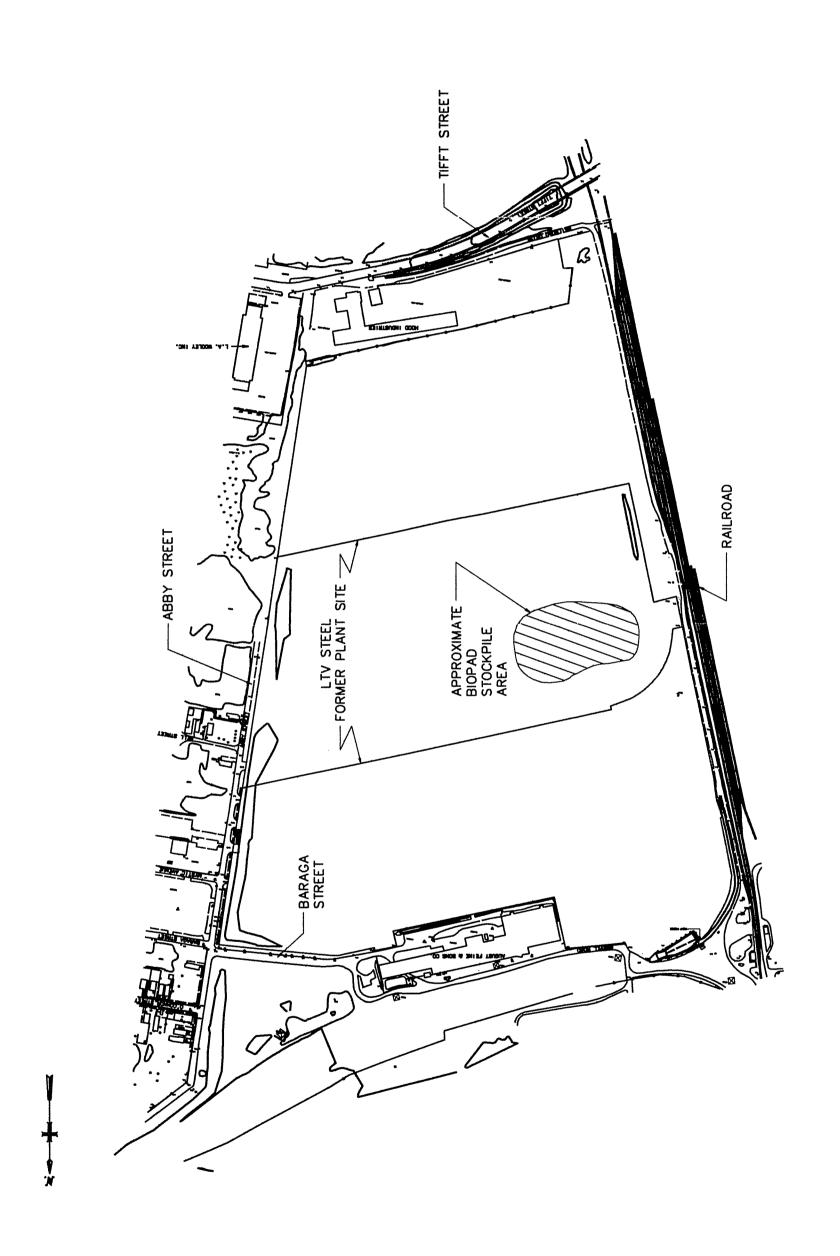
All backfill was compacted with a dozer and a vibratory pad-foot roller. A uniform grade was achieved on the site upon completion of site activities.

#### 3.4 Bioremediation Location

As agreed with the City of Buffalo, LTV Steel will perform all work associated with the bioremediation operations on LTV Steel's Abbey Street property. Contaminated soil removed from the Truscon site (a total of 16,920 cubic yards) has been stockpiled on a low permeability soil lined pad and covered for the winter season.

An approximate 3-acre stockpile liner consisting of 6-inches of low permeability soil (average permeability of 2.97 x 10<sup>-8</sup> cm/s) was constructed prior to stockpiling activities. The liner was placed on the highest elevation of the site and graded to promote proper drainage. Quality assurance test results for the liner are included in Appendix E. The approximate location of the stockpile is shown on Figure 5.

Due to the extremely wet nature of the excavated soils, a special wide track, low pressure dozer was required to grade the stockpile prior to covering. Landfill Service Corporation was then employed to apply a Posi-Shell intermediate cover over the material. Posi-Shell is a slurry mixture of water, mineral binder and Posi-Pak fibers which hardens to



мт \_\_\_\_\_ 1983\_\_\_\_\_ BIOPAD STOCKPILE AREA SCME: 1" . 200 ABBY STREET PLANT SITE LTV STEEL COMPANY BUFFALO, NEW YORK TR -- G.S.--

a non-flammable, water resistant coating approximately 1/4"-1/2" thick (see Appendix F for information).

Representative soil samples of the stockpiled material have been collected for bench scale testing. A bench scale soil bioremediation study will be conducted by Malcolm Pirnie over the winter months to determine the appropriate mixture of soil amendments and water, and to determine whether an additional bio-cell or bio-cells are necessary as well as to establish procedures and time frames for bioremediation. A work plan for the soil bioremediation study is presented in Appendix C of the September 1996 Sampling Report and Remedial Plan.

Once the bench-scale study is complete, Malcolm Pirnie will prepare and submit a bioremediation plan to the NYSDEC for review which will detail:

- Results of the bench-scale study.
- Bioremediation goals.
- Major design elements (need for additional bio-cells).
- Storm water management plans.
- pH, moisture and nutrient additive requirements.
- Sampling and analysis plans.
- Reporting requirements.
- Schedule (startup Spring 1997).

#### 3.5 Disposal of Treated Soil

Remediated soil is expected to be reused as fill material on LTV Steel properties.



# APPENDIX A RELATED PROJECT CORRESPONDENCE

PIRNIE
MALCOLM PIRNIE, INC.  10/24 Received call from Peter. 40 Centre Drive  5 and OK to This. Learn tonk P.O. Box 1938  1 holes open til DEC inspects  Buffalo, New York 14219  TEL: 716/667-0900  FAX: 716/667-0279
TO: PETER BUECHI
OF: NYSDEC
FAX NO.: 851-7008
RE: TRUSCON REMEDIATION
FROM: TERRY RIED / KENT McMANUS
DATE: 10/22/96 TIME:
PROJECT NUMBER: 0304277
NUMBER OF PAGES: (including this sheet)
RETURN ORIGINALS TO SENDER: (circle one) Yes No
MESSAGE: PETER
WE SPOKE WITH JOHN HILTON CONCERNING
YOUR DESIRE FOR HIM TO DIG DEEPER THAN
THE MEASURED WATER TABLE AT THE TRUSCON SITE. AS JUHN INDICATED, THE WATER TABLE
HAS BEEN MEASURED AT APPROXIMATELY 7.5
FEET FROM THE KURFACE.
IT HAS BEEN OUR INTENT & THE INTENT OF THE APPROVED REMEDIAL PLAN TO EXCAUATE

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MALCOLM PIRNIE, INC.							
BY	DATE	SHEET NO OF					
CHKD. BY	DATE	JOB NO					
SUBJECT							

VERIFICATION SAMPLING IN THE BOTTOM
OF THE EXCAVATION. DEC'S ACKNOWLEDGEMENT
OF EXCAVATION TO THE WATER TABLE
IS DESCRIBED IN YOUR 9/24/96 LETTER
(COPY ATTACHED).

IN THE ABSENCE OF THE WATER TABLE
RUSHING INTO THE EXCAVATION OR SATURATED
CONDITIONS MAKING EXCAVATION IMPRACTICAL,
WE WILL EXCAVATE TO A MAXIMUM DEPTH
EQUIVALENT TO THE RIVER ELEVATION
(APPROXIMATELY 9-10 FEET). SHOULD NO VISUAL
EVIDENCE OR ODORS BE DETECTED, THE
EXCAVATION WILL CEASE ABOUT THAT LEVEL.
THE WATER TABLE CAN NOT BE BELOW THE
LEVEL OF THE RIVER.

PLEASE CONTACT US IF YOU HAVE ANY QUESTIONS

## New York State Department of Environmental Conservation 270 Michigan Avenue, Buffalo, New York 14203-2999 (716) 851-7220



September 24, 1996

Mr. Kent Mcmanus Malcolm Pirnie, Inc. P.O. Box 1938 Buffalo, NY 14219

Dear Mr. Mcmanus:

RE: Spill # 951284 1205 South Park Avenue

This is in response to your request of this date for clarification of one comment in my letter of September 17, 1996 regarding the Remedial Plan Outline submitted for the subject site.

The sampling to be conducted along the bottom of the excavations is intended to provide documentation of the conditions in the excavations at the conclusion of the remedial action. The Department has concurred with the conceptual approach to remediation of the petroleum contamination at the site, i.e. excavation to the water table, based on the data provided by the City of Buffalo and Malcolm Pirnie.

I trust that the above clarifies the Department's request. Feel free to contact me at (716) 851-7220 if you have further questions.

Sincerely,

Peter J. Buechi, P.E.

Regional Environmental Remediation Engineer

PJB:pw

cc: Mr. J. Ryan

Mr. T. Dieffenbach

Mr. J. Smith, City of Buffalo

Mr. D. Sengbush, City of Buffalo

New York State Department of Environmental Conservation 270 Michigan Avenue, Buffalo, New York 14203-2999 (716) 851-7220



Michael D. Zagata Commissioner

October 9, 1996

Mr. Kent McManus Malcolm Pirnie, Inc. P.O. Box 1938 Buffalo, NY 14219-0138

Dear Mr. McManus:

Spill# 9513284 1176-1184 South Park Avenue

This is in response to the Remedial Plan for the subject site submitted to this office on September 24, 1996 and your follow up letter of October 4, 1996 transmitting revisions to the Remedial Plan.

The Remedial Plan and revisions have been reviewed by this office and found to be acceptable in light of the following agreements reached during a telephone conversation on October 8, 1996:

- The soil excavation procedure for the River Bank area as specified in the Remedial Plan calls for excavation in a lateral direction below the water table until gross contamination is not observed or the river is encountered. Since it is likely, based on soil borings and visual observations, that the excavation will proceed until the river is encountered, an oil boom and silt fence will be installed in the Buffalo River to control the release of oil and soil into the river during the excavation and backfilling operations.
- The bank of the Buffalo River disturbed during excavation will be restored to prevent erosion of the bank material. Bank restoration will consist of regrading the bank to a 1 vertical to 3 horizontal slope, seeding and mulching. In addition, existing stone larger than 6" in diameter on the bank will be saved during excavation and replaced on the bank from one foot below to one foot above the mean water level of the River.

Mr. Kent McManus October 9, 1996 Page 2

- The Department will accept the use of a spray on cover system on the excavated soil stockpile. Details on the thickness and composition of the cover material must be provided.
- The Remedial Plan indicates that the lateral limits of excavation above the water table in the tank perimeter and river bank area will be determined using the same logic that will be used for the 5.5 million gallon tank area. The type and amount of verification sampling to be performed in the tank perimeter and river bank area will be the same type and amount of sampling as specified for the 5.5 million gallon tank area.
- The October 4, 1996 revisions to the Remedial Plan indicate that verification samples on the side walls will be based on visual and olfactory indications and collected every 100 linear feet. Verification samples will also be collected in side wall areas without such evidence, at a frequency of one sample per 200 linear feet. These samples are intended to provide documentation that the soil excavation is complete. However, the sample results may necessitate further excavation. All side wall samples shall be composite samples.

Feel free to contact me should you have any questions regarding the above items.

Sincerely,

Peter J. Buechi, P.E.

Regional Environmental Remediation Engineer

PJB:pw

CC:

- J. Ryan
- T. Dieffenbach
- D. Sengbush
- S. Nasca



MALCOLM PIRNIE, INC.
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

October 4, 1996

Mr. Peter Buechi, P.E. NYS Dept. of Environmental Conservation 270 Michigan Avenue Buffalo, New York 14203-2999

Re: Revised Remedial Plan

Truscon Site

1176-1184 South Park Avenue

Dear Mr. Buechi:

We have prepared this letter in response to your verbal comments on the Sampling Report and Revised Remedial Plan dated September 1996 received by telephone on October 1, 1996. Each of your comments are summarized below in italics followed by our responses:

Comment 1: The wrong sample letter is attached to the letter agreement between the

City of Buffalo and LTV Steel included as Appendix E. The actual letter will document that some residual contamination remains in place and that

the site is classified as inactive.

Response: Acknowledged.

Comment 2: Separate stipulation letters will be required with the City of Buffalo and

LTV Steel consistent with the letter agreement between the City and LTV

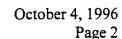
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Response: Acknowledged.

**Comment 3**: How will the thickness and permeability of the stockpile liner be assured?

Is the liner thickness sufficient and how will the integrity of the liner be

maintained during tilling operations if it is used as a bioremediation cell?



MALCOLM PIRNIE

> Mr. Peter Buechi NYSDEC-Buffalo

Response:

We will precharacterize the soil material, establish a moisture/density relationship and monitor compaction with a nuclear densitometer (minimum of 9 per acre). We will also collect and analyze three undisturbed Shelby tubes (1 per acre) to verify the permeability of the liner. The thickness will be controlled through on-site surveys. Malcolm Pirnie will provide documentation of the thickness and permeability signed and sealed by a professional engineer licensed in New York State. It is our intent to place restrictions on the method/approach for tilling so as to provide for adequate protection of the liner integrity. We will also place survey tape on top of the liner prior to placement of the contaminated soil to serve as a warning indicator if tilling operations exceed the maximum depth. The details of the bioremediation method (e.g., tilling operation, nutrient additives, moisture control, etc.) will be submitted to the NYSDEC for review/approval upon completion of the bench-scale bioremediation study.

Comment 4:

What will be the frequency of verification sampling?

Response:

If a determination is made to sample the side walls based on visual or olfactory indications, one sample per 100 linear feet of excavation will be collected. The bottom of excavations will be sampled on an interval of one composite sample per 5,000 square feet to determine the level of residual petroleum contamination to remain in place.

Comment 5:

The excavation discussion on Pages 10 and 11 of the remedial plan is not consistent with the NYSDEC-approved concept plan.

Response:

Pages 10 and 11 have been revised (copies attached) to reflect the concept plan.

Comment 6:

Page 12 states that the City of Buffalo plans to use LTV's Abby Street site for ex-situ bioremediation and the City plans to enter into an agreement with LTV Steel for use of the property.

Response:

Page 12 has been revised (copy attached) to state that the City has entered into an agreement for bioremediation of the soil on LTV property.



Mr. Peter Buechi NYSDEC-Buffalo October 4, 1996 Page 3

I trust that these responses are acceptable and that the NYSDEC will now issue an approval letter. Please contact us if you have any further questions or comments.

Very truly yours,

MALCOLM PIRNIE, INC.

Let M: Mans

Kent R. McManus, P.E.

Senior Associate

#### Attachments

c: D. Sengbusch, C-Buffalo

J. Smith, C-Buffalo

W. Gould, LTV Steel

D. Papajcik, LTV Steel

J. Etchison, LTV Steel

T. Ried, MPI

File: CC

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Verification soil samples will be collected as composite samples where nuisance characteristics are evident along the sidewall of the excavation. If a determination is made to sample the side walls based on visual or olfactory indications, one sample per 100 linear feet of excavation will be collected. The bottom of excavations will be sampled on an interval of one composite sample per 5,000 square feet to determine the level of residual petroleum contamination to remain in place. All samples shall be taken no less than six inches below the exposed surface being sampled. Random samples will be used for compositing. All sampling equipment must be decontaminated between sample locations. Soil samples will be placed in precleaned sample containers, placed on ice, and transported to a NYSDOH ELAP certified analytical laboratory for testing.

#### Perimeter of Tank Area and River Bank

Soil will be excavated to the water table in the vicinity of SB-1, SB-3, SB-5, SB-17, and SB-18 within the limits shown on Figure 2. Soil that does not have visual staining or detectable odors will be stockpiled and used as backfill. The estimated quantity of soil that will need to be remediated from these five areas is 1550 cubic yards. These excavations will be modified as follows:

- Determine the lateral limits of excavation above the water table in the field using the logic presented above for the 5.5 million gallon tank area.
- Excavate approximately four to five feet below the water table at SB-1, approximately seven feet below the water table at SB-18 and nine feet below the water table at SB-17. Continue excavating below the water table in a lateral direction until gross contamination is not observed, or the river is encountered. Water entering the excavation will be removed by pumping and will be discharged to the Buffalo Sewer Authority.

## **Engineering Controls**

Dewatering of excavations during excavation of the petroleum-contaminated soil and UST removals may be required. No discharge of water to the Buffalo River or on the project site is anticipated.



Groundwater removed from the excavation areas (including the tank areas) will be discharged to the nearest sanitary sewer manhole. Permission to do so has been granted by the Buffalo Sewer Authority. The water will be either hauled by tank truck or pumped across the site through the pump discharge lines.

No sheet piling as originally proposed by Foit-Albert will be installed.

### 5.2 Tank Removal

The Contractor shall remove the USTs at the site. A total of three underground storage tanks (USTs) are assumed to still exist at the site; two 4,000-gallon diesel fuel USTs in the center of the site and one 1,000-gallon fuel oil UST near the Truscon Building office. (It is assumed that the 1000-gallon tank is located outside of the building foundation.)

The Subsurface Investigation performed by Foit-Albert revealed an area of fill material, evident of a tank pit, in the probable location of the two 4,000-gallon USTs in the center of the site. Due to field conditions, it was impossible for Foit-Albert to positively determine existence of the two USTs.

An area of petroleum-contaminated soil was delineated in the area of the two USTs. Lateral extent of the contamination in this area is approximately 21,685 square feet with vertical extent of contamination at 2.5 feet. Total estimated volume of petroleum-contaminated soil in this area is 2,125 cubic yards.

For all UST removals, excavation soil sampling will be completed in accordance with the previously described protocols (except for the bottom of the tank pit excavations where only one composite sample will be collected). The Contractor shall not backfill the tank pit excavations until analytical results are reported to, and approved by, the NYSDEC. If excavation verification analysis reveals levels of constituents above guidance values, additional excavation and sample analysis will be required.

Contaminated soil encountered during tank removal will be transported to the designated off-site location and bioremediated with the petroleum-contaminated soil. Shallow groundwater which may be encountered in the tank excavation areas will be

## MALCOLM PIRNIE

pumped and disposed of in the Buffalo Sewer Authority (BSA) sanitary sewer system. Proper closure will include tank removal, residual tank liquid removal and proper disposal, tank cleaning, tank bottoms removal and proper disposal, tank decommissioning, and backfilling of the tank pits. The contractor shall file all proper waste manifests when disposing of residual tank liquids and tank bottoms. When transporting all petroleum-contaminated tank materials, the Contractor must comply with 6NYCRR Part 364 regulations.

The Engineer will document all UST removals with the NYSDEC on behalf of the City of Buffalo.

## 5.3 Backfilling

All excavated soil that does not have a detectable petroleum odor or visual evidence of petroleum contamination, and blocks of concrete or slag that are not tillable will be stockpiled on-site. This material will be reused as backfill and has an estimated quantity of 6,400 cubic yards (including soil from the vicinity of the large tank, SB-1, SB-3, SB-5, SB-17, and SB-18).

Existing fill material (0.5 to 1-foot) will be stripped off the remainder of the Truscon site for use as backfill (refer to Appendix D for a copy of the approved letter from the site Developer). Any putrescible materials, such as railroad ties will be segregated and not used as backfill. Any railroad ties or other materials that will not be biotreated or used as backfill will be stockpiled on-site for disposal by the City. No backfill characterization will be performed on the stripped material.

All backfill materials will be compacted in the excavation.

## 5.4 Transportation/Bioremediation Location

The City of Buffalo has entered into an agreement (see Appendix E) with LTV Steel for bioremediation of the petroleum contaminated soil. The Contractor will be responsible for maintaining and protecting traffic during all transportation operations. The total estimated volume of soil to be removed and bioremediated is 23,000 cubic yards.



# APPENDIX B INSPECTOR'S DAILY REPORTS

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schedule developments
REMARKS: Excavation will be extended in easterly direction a
or between grid points 200 - 225 N & BASE line
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MEETINGS HELD & RESULTS: REMARKS: REFERENCES TO OTHER FORMS: **SKETCHES** 5B-11 9W-7A/7B S-8A/8B SAMPLE LOG SAMISLES SAMPLE NUMBER: APPROXIMATE LOCATION OF STOCKPILE: NUMBER OF STOCKPILE: DATE OF COLLECTION: **CLIMATOLOGIC CONDITIONS:** FIELD OBSERVATION: SHEETS

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MEETINGS HELD & RESULTS: 9/5-10 Nelson Rauch here for side visit
expressed ancert on compact on a virthing material
subsequent testing. Assured that contractors are compacting
backfill material however testing is not within scope of workplan
1050 - 1/30, WAYNE Gould, John Eicheson and other LTV personal
home for site visit - Gave the group A brief overview of
progress to take And anticipally solvedule on work developments
1145-1220 DAVE SENGOUS AND PATO PATO Commissioner have for site
visit gave superhicial progress update. Councilmon &
Commissionles indicate that the Git Majo- will come
for site visit & priss conherence within Zweeks
-
REMARKS: 13:00 - 14.00 (NYSDEC) P. Buecht AND T. Ditherbach ON
site to observe NE corner and dorthern perincter sidewall
exposuriss) esp in vicinity of SB-9
Overburden increasingly more sand w/ movement of excounted
LOWARN the west. Contamination observed to water table
PERFECTION TO OTHER PORMS.
REFERENCES TO OTHER FORMS:
SKETCHES "" " " " " " " " " " " " " " " " " "
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SS-80 XX (OILY)
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Superintendent ·	┼		Ironwo	rker			nerators	-	<u> </u>	Buildozer	+	$\vdash$
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Operating Engineer	1											
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							Compressor					
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SIDENEY  SIDENEY  SW-9A  BASE  S-10 A/B  AMPLE LOG  AMPLE NUMBER:  PPROXIMATE LOCAT	Sidewall sometimes.	Shi-9 A/B	2 3-13 Report	ANNIE D SEL	Aria Excain	10/30
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MEETINGS HELD & RESULTS: - Peter Buechi & MARTY Doster or NIDULC
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REMARKS: Spore w/ Pan Morrow on Waste Stream ANATITION 1005 regarding
sample & A/B Avalyses, lab equipment down with Mon or The or
573-573.5° Elevation
REFERENCES TO OTHER FORMS:
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SAMPLE LOG SAMPLE NUMBER: 5-1/A/B base of excavation (2 573.0-573.6  APPROXIMATE LOCATION OF STOCKPILE:
SAMPLE LOG SAMPLE NUMBER: 5-1/A/B DASE of excavortion (2 573.0-573.6  APPROXIMATE LOCATION OF STOCKPILE:  NUMBER OF STOCKPILE:  DATE OF COLLECTION:  CLIMATOLOGIC CONDITIONS:
SAMPLE LOG SAMPLE NUMBER: 5-1/A/B base of excavation @ 573.0-573.6  APPROXIMATE LOCATION OF STOCKPILE:  NUMBER OF STOCKPILE:  DATE OF COLLECTION:

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MEETINGS HELD & RESULTS: REMARKS: REFERENCES TO OTHER FORMS: SKETCHES 5B-11 \*\*\*\*\*\* SB-128 SAMPLE LOG SAMPLE NUMBER: APPROXIMATE LOCATION OF STOCKPILE: NUMBER OF STOCKPILE: DATE OF COLLECTION: **CLIMATOLOGIC CONDITIONS:** FIELD OBSERVATION: SHEETS OF

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MEETINGS HELD & RESULTS: Met w/T. D. Harbach who was on
Sile to observe excavation from 1072 - 320 Pm
- Defines criteria to establish Eastern AD
southern perimeters in vicinity of SB-3
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
REMARKS:
REFERENCES TO OTHER FORMS:
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SAMPLE LOG
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	-Foreman		-	Carp	enter										
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MEETINGS HELD & RESULTS: Met of T Rein re: water countings with  excapious (a 58-1, 58-17
Determined that slope Adjacent to Bhis River will Bemain since it is hill material "clean", Contamination At water trable AND below >6"
- slope hailune - unable to pump water bon hale
Met w/T. Di Rhesbach (NYSDEC) gives update of progress Along river embankment
MAXIMUM depth Attaines as measured & SB-17 location (570:8) exception slope contribud to hail thereby
Filling pit
REFERENCES TO OTHER FORMS:
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PLE LOG PLE NUMBER:  SO 2 AB SW 22 AB SW 2400 GA TANK ARCA  ROCIMATE LOCATION OF STOCKPILE:  BER OF STOCKPILE:  E OF COLLECTION:  IATOLOGIC CONDITIONS:							
PLE LOG PLE NUMBER: S-2/A/B, SW-22 A/B & 4/000 gp AAAA  ROXIMATE LOCATION OF STOCKPILE: BER OF STOCKPILE: BOT COLLECTION: INTOLOGIC CONDITIONS:	ERENCES TO O	THER FORMS:				• • • •	
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PLE LOG PLE NUMBER: S-2/A/B, SW-ZZA/B 0 4/000 gp   fank Area ROXIMATE LOCATION OF STOCKPILE: BER OF STOCKPILE: E OF COLLECTION: NATOLOGIC CONDITIONS:		, ×, \		ART. W	×	W.	
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PLE LOG PLE NUMBER: S-2/A/B, SW-22A/B @ 4/000 ga tank Area ROXIMATE LOCATION OF STOCKPILE: BER OF STOCKPILE: E OF COLLECTION: NATOLOGIC CONDITIONS:		•••	7	955-1	,		•
PLE LOG PLE NUMBER: S-2/A/B, SW-ZZA/B @ 4/000 gal fawk Area ROXIMATE LOCATION OF STOCKPILE: BER OF STOCKPILE: E OF COLLECTION: IATOLOGIC CONDITIONS:		•••	/ × <sub>L</sub>	e de la constante de la consta	g <del>8</del> -15	B-110	
PLE LOG PLE NUMBER: S-21 A/B, SW-22 A/B & 4000 go   fank Area ROXIMATE LOCATION OF STOCKPILE: BER OF STOCKPILE: E OF COLLECTION: IATOLOGIC CONDITIONS:		OF PROPOSED	<b>.</b>	// *	ē		
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# APPENDIX C LABORATORY ANALYTICAL REPORTS

#### ORGANIC DATA QUALIFIERS

- U Indicates compound was analyzed for but not detected.
- J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria, but the result is less than the sample quantitation limit but greater than zero.
- 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 the sample.
- $\dot{E}$  This flag identifies all compounds whose concentrations exceed the calibration range of the GC/MS instrument or that specific analysis.
- ${\rm D}$  This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G Matrix spike recovery is greater than the expected upper limit of analytical performance.
- L Matrix spike recovery is less than the expected lower limit of analytical performance.
- # Indicates that a surrogate recovery was found to be outside the expected limits of analytical performance.
- \$ Indicates that the surrogate compound was diluted out because the sample had to be diluted to obtain analytical results and a recovery could not be calculated.
- (%) Indicates that the compound is a surrogate and the values reported for these compounds are in percent recovery. The quality control recovery limits (QC Limits) are indicated in the detection limit column.



#### **METHODOLOGIES**

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following analytical method references:

Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020, March 1979, Revised 1983, U.S. Environmental Monitoring and Support Laboratory, Cincinnati, Ohio 45268.

Federal Register, 40 CFR Part 136: Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act. Revised July 1992.

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, Revised September 1994, United States EPA SW-846.

Annual Book of ASTM Standards, Volume II. ASTM, 1916 Race Street, Philadelphia, Pennsylvania 19103.

Standard Methods for the Examination of Water and Wastewater. (18th Edition). American Public Health Association, 1105 18th Street, NW, Washington, D.C. 20036.



Site: LTV/TRUSCON Date Sampled: 10/17/96 Date Received: 10/17/96 Group Number: 9601-534 Report Units: ug/kg Matrix: Soil

Date Received. 10/17/90		WIGHTA.	JOII
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30672 S-2 574' BASE NA 10/21/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	108.0	



Site: LTV/TRUSCON Date Sampled: 10/18/96 Date Received: 10/18/96 Group Number: 9601-535 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30677 SW-3 SO PERIMETER NA 10/21/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.4	
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-lsopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	107.0	



Site: LTV/TRUSCON Date Sampled: 10/23/96 Date Received: 10/23/96 Group Number: 9601-544 Report Units: ug/kg Matrix: Soil

				<b>J</b>
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30725 SW-4 NA 10/24/96		
Compound	Detection Limit/ QC Limits (%)		Result	Q
Methyl-t-butylether	5.0		5.0	U
Benzene	1.0		1.0	U
Toluene	1.0		1.0	U
Ethylbenzene	1.3		1.3	U
m,p-Xylene	2.8		2.8	U
o-xylene	1.7		1.7	U
Isopropylbenzene	1.6		1.6	U
n-Propylbenzene	1.7		1.7	U
1,3,5-Trimethylbenzene	1.7		1.7	U
tert-Butylbenzene	3.6		3.6	U
1,2,4-Trimethylbenzene	1.4		1.4	U
sec-Butylbenzene	2.2		2.2	U
p-lsopropyltoluene	1.8		1.8	U
n-Butylbenzene	2.8		2.8	U
Naphthalene	1.6		1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .		110.0	



Site: LTV/TRUSCON Date Sampled: 10/23/96 Date Received: 10/23/96

Group Number: 9601-544 Report Units: ug/kg Matrix: Soil

·	Lab ID Number Client ID Date Extracted Date Analyzed	WS30726 S-5 <b>A</b> NA 10/24/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25	25	U
Benzene	5	20	
Toluene	5	5	U
Ethylbenzene	7	80	
m,p-Xylene	14	229	
o-xylene	9	164	
Isopropylbenzene	8	8	U
n-Propylbenzene	9	16	
1,3,5-Trimethylbenzene	9	63	
tert-Butylbenzene	18	18	U
1,2,4-Trimethylbenzene	7	245	Е
sec-Butylbenzene	11	11	U
p-Isopropyltoluene	9	9	U
n-Butylbenzene	14	97	
Naphthalene	8	642	Е
a,a,a-Trifluorotoluene (%)	72-117	105	
Dilution Eactor 5			



Site: LTV/TRUSCON Date Sampled: 10/23/96 Date Received: 10/23/96 Group Number: 9601-544 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30757 S-5b NA 10/28/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25.0	25.0	U
Benzene	5.0	10.1	
Toluene	5.0	5.0	U
Ethylbenzene	6.5	38.7	
m,p-Xylene	14.0	116.0	
o-xylene	8.5	79.6	
Isopropylbenzene	8.0	8.0	U
n-Propylbenzene	8.5	8.5	U
1,3,5-Trimethylbenzene	8.5	21.2	
tert-Butylbenzene	18.0	18.0	U
1,2,4-Trimethylbenzene	7.0	93.1	
sec-Butylbenzene	11.0	11.0	U
p-Isopropyltoluene	9.0	9.0	U
n-Butylbenzene	14.0	20.2	
Naphthalene	8.0	188.0	
a,a,a-Trifluorotoluene (%)	72-117 .	108.0	



Site: LTV/TRUSCON Date Sampled: 10/24/96 Date Received: 10/25/96

Group Number: 9601-549 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30761 S-6 NA 10/28/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	112.0	
Dilution Footor 4			



Site: LTV/TRUSCON Date Sampled: 10/28/96 Date Received: 10/28/96 Group Number: 9601-552 Report Units: ug/kg Matrix: Soil

		•	<b>,</b>
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30769 SW-7A/B NA 10/28/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene .	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	84.0	



Site: LTV/TRUSCON Date Sampled: 10/28/96 Date Received: 10/28/96 Group Number: 9601-552 Report Units: ug/kg Matrix: Soil

Lab ID Number Client ID Date Extracted Date Analyzed					<b>O O</b> 1.
Compound         QC Limits (%)         Result         Q           Methyl-t-butylether         25.0         25.0         U           Benzene         5.0         104.0		Client ID Date Extracted	S-8A/B NA		
Benzene         5.0         104.0           Toluene         5.0         5.0         U           Ethylbenzene         6.5         94.5           m,p-Xylene         14.0         160.0           o-xylene         8.5         71.5           Isopropylbenzene         8.0         8.0         U           n-Propylbenzene         8.5         8.5         U           1,3,5-Trimethylbenzene         8.5         22.1         tert-Butylbenzene         18.0         U           1,2,4-Trimethylbenzene         7.0         102.0         sec-Butylbenzene         11.0         U           sec-Butylbenzene         11.0         11.0         U           n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0	Compound	1		Result	Q
Toluene         5.0         5.0         U           Ethylbenzene         6.5         94.5           m,p-Xylene         14.0         160.0           o-xylene         8.5         71.5           Isopropylbenzene         8.0         8.0         U           n-Propylbenzene         8.5         8.5         U           1,3,5-Trimethylbenzene         8.5         22.1         U           tert-Butylbenzene         18.0         18.0         U           1,2,4-Trimethylbenzene         7.0         102.0         U           sec-Butylbenzene         11.0         11.0         U           p-Isopropyltoluene         9.0         9.0         U           n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0         U	Methyl-t-butylether	25.0		25.0	U
Ethylbenzene       6.5       94.5         m,p-Xylene       14.0       160.0         o-xylene       8.5       71.5         Isopropylbenzene       8.0       8.0       U         n-Propylbenzene       8.5       8.5       U         1,3,5-Trimethylbenzene       8.5       22.1       U         tert-Butylbenzene       18.0       18.0       U         1,2,4-Trimethylbenzene       7.0       102.0       U         sec-Butylbenzene       11.0       11.0       U         p-Isopropyltoluene       9.0       9.0       U         n-Butylbenzene       14.0       14.0       U         Naphthalene       8.0       209.0	Benzene	5.0		104.0	
m,p-Xylene       14.0       160.0         o-xylene       8.5       71.5         Isopropylbenzene       8.0       8.0       U         n-Propylbenzene       8.5       8.5       U         1,3,5-Trimethylbenzene       8.5       22.1       U         tert-Butylbenzene       18.0       18.0       U         1,2,4-Trimethylbenzene       7.0       102.0       U         sec-Butylbenzene       11.0       11.0       U         p-Isopropyltoluene       9.0       9.0       U         n-Butylbenzene       14.0       14.0       U         Naphthalene       8.0       209.0	Toluene	5.0		5.0	U
o-xylene         8.5         71.5           Isopropylbenzene         8.0         8.0         U           n-Propylbenzene         8.5         8.5         U           1,3,5-Trimethylbenzene         8.5         22.1         U           tert-Butylbenzene         18.0         18.0         U           1,2,4-Trimethylbenzene         7.0         102.0         U           sec-Butylbenzene         11.0         U         U           p-Isopropyltoluene         9.0         9.0         U           n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0         U	Ethylbenzene	6.5		94.5	
Isopropylbenzene         8.0         8.0         U           n-Propylbenzene         8.5         8.5         U           1,3,5-Trimethylbenzene         8.5         22.1         U           tert-Butylbenzene         18.0         18.0         U           1,2,4-Trimethylbenzene         7.0         102.0         U           sec-Butylbenzene         11.0         U         U           p-Isopropyltoluene         9.0         9.0         U           n-Butylbenzene         14.0         U         U           Naphthalene         8.0         209.0         U	m,p-Xylene	14.0		160.0	
n-Propylbenzene       8.5       8.5       U         1,3,5-Trimethylbenzene       8.5       22.1         tert-Butylbenzene       18.0       18.0       U         1,2,4-Trimethylbenzene       7.0       102.0         sec-Butylbenzene       11.0       11.0       U         p-Isopropyltoluene       9.0       9.0       U         n-Butylbenzene       14.0       14.0       U         Naphthalene       8.0       209.0	o-xylene	8.5		71.5	
1,3,5-Trimethylbenzene       8.5       22.1         tert-Butylbenzene       18.0       18.0       U         1,2,4-Trimethylbenzene       7.0       102.0	Isopropylbenzene	8.0		8.0	U
tert-Butylbenzene       18.0       18.0       U         1,2,4-Trimethylbenzene       7.0       102.0         sec-Butylbenzene       11.0       11.0       U         p-Isopropyltoluene       9.0       9.0       U         n-Butylbenzene       14.0       14.0       U         Naphthalene       8.0       209.0	n-Propylbenzene	8.5		8.5	U
1,2,4-Trimethylbenzene       7.0       102.0         sec-Butylbenzene       11.0       11.0       U         p-Isopropyltoluene       9.0       9.0       U         n-Butylbenzene       14.0       14.0       U         Naphthalene       8.0       209.0	1,3,5-Trimethylbenzene	8.5		22.1	
sec-Butylbenzene         11.0         11.0         U           p-Isopropyltoluene         9.0         9.0         U           n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0	tert-Butylbenzene	18.0		18.0	U
p-Isopropyltoluene         9.0         9.0         U           n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0	1,2,4-Trimethylbenzene	7.0		102.0	
n-Butylbenzene         14.0         14.0         U           Naphthalene         8.0         209.0	sec-Butylbenzene	11.0		11.0	U
Naphthalene 8.0 209.0	p-Isopropyltoluene	9.0		9.0	U
Naphthalene 8.0 209.0	n-Butylbenzene	14.0		14.0	U
a,a,a-Trifluorotoluene (%) 72-117 . 102.0	Naphthalene	8.0		209.0	
	a,a,a-Trifluorotoluene (%)	72-117 .		102.0	



Site: LTV/TRUSCON Date Sampled: 10/28/96 Date Received: 10/28/96 Group Number: 9601-552 Report Units: ug/kg Matrix: Soil

Lab ID Number   WS30799 Client ID   S-8A Date Extracted   NA Date Analyzed   10/30/96
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Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25.0	25.0	U
Benzene	5.0	107.0	
Toluene	5.0	5.0	U
Ethylbenzene	6.5	96.0	
m,p-Xylene	14.0	178.0	
o-xylene	8.5	73.7	
Isopropylbenzene	8.0	8.0	U
n-Propylbenzene	8.5	8.5	U
1,3,5-Trimethylbenzene	8.5	8.5	U
tert-Butylbenzene	18.0	18.0	J
1,2,4-Trimethylbenzene	7.0	60.7	
sec-Butylbenzene	11.0	11.0	U
p-Isopropyltoluene	9.0	9.0	U
n-Butylbenzene	14.0	14.0	U
Naphthalene	8.0	53.6	
a,a,a-Trifluorotoluene (%)	72-117 .	92.0	



Site: LTV/TRUSCON Date Sampled: 10/28/96 Date Received: 10/28/96 Group Number: 9601-552 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30800 S-8B NA 10/30/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25.0	25.0	U
Benzene	5.0	273.0	E
Toluene	5.0	12.6	
Ethylbenzene	6.5	289.0	E
m,p-Xylene	14.0	496.0	Е
o-xylene	8.5	199.0	Е
Isopropylbenzene	8.0	8.0	U
n-Propylbenzene	8.5	8.5	U
1,3,5-Trimethylbenzene	8.5	99.1	
tert-Butylbenzene	18.0	18.0	U
1,2,4-Trimethylbenzene	7.0	399.0	E
sec-Butylbenzene	11.0	11.0	U
p-Isopropyltoluene	9.0	9.0	U
n-Butylbenzene	14.0	14.0	U
Naphthalene	8.0	772.0	E
a,a,a-Trifluorotoluene (%)	72-117 .	107.0	



5030/8021

Site: LTV/TRUSCON Date Sampled: 10/30/96 Date Received: 10/30/96

Naphthalene

a,a,a-Trifluorotoluene (%)

Group Number: 9601-563 Report Units: ug/kg Matrix: Soil

4.0

86.0

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30802 SW-9 A/B NA 10/30/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	2.1	
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U

1.6

72-117 .



Site: LTV/TRUSCON Date Sampled: 10/30/96 Date Received: 10/30/96 Group Number: 9601-563 Report Units: ug/kg Matrix: Soil

			3011
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30803 S-10 A/B NA 10/30/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25.0	25.0	U
Benzene	5.0	198.0	E
Toluene	5.0	5.0	U
Ethylbenzene	6.5	406.0	E
m,p-Xylene	14.0	70.3	
o-xylene	8.5	38.3	
Isopropylbenzene	8.0	27.1	
n-Propylbenzene	8.5	8.5	U
1,3,5-Trimethylbenzene	8.5	53.6	
tert-Butylbenzene	18.0	18.0	U
1,2,4-Trimethylbenzene	7.0	1260.0	E
sec-Butylbenzene	11.0	11.0	U
p-Isopropyltoluene	9.0	9.0	U
n-Butylbenzene	14.0	351.0	E
Naphthalene	8.0	3270.0	E
a,a,a-Trifluorotoluene (%)	72-117 .	76.0	



Site: LTV/TRUSCON Date Sampled: 10/31/96 Date Received: 10/31/96 Group Number: 9601-566 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed  Detection Limit/	WS30817 S-11 A/B NA 11/05/96	
mpound	QC Limits (%)	Result	Q

Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	34.7	
Toluene	1.0	4.6	
Ethylbenzene	1.3	40.9	
m,p-Xylene	2.8	120.0	Е
o-xylene	1.7	66.1	Е
Isopropylbenzene	1.6	2.3	
n-Propylbenzene	1.7	11.4	
1,3,5-Trimethylbenzene	1.7	39.3	
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	158.0	Е
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	50.7	Е
Naphthalene	1.6	707.0	E
a,a,a-Trifluorotoluene (%)	72-117 .	79.0	



Site: LTV/TRUSCON Date Sampled: 11/01/96 Date Received: 11/01/96 Group Number: 9601-568 Report Units: ug/kg Matrix: Soil

2410 : 10001104: 1 1/0 1/00		Wat IX.	301
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30830 S-12 A/B NA 11/05/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	25.0	25.0	) U
Benzene	5.0	5.0	U
Toluene	5.0	5.0	U
Ethylbenzene	6.5	4.3	J
m,p-Xylene	14.0	14.0	U
o-xylene	8.5	8.5	U
Isopropylbenzene	8.0	8.0	U
n-Propylbenzene	8.5	6.1	J
1,3,5-Trimethylbenzene	8.5	8.5	U
tert-Butylbenzene	18.0	18.0	) U
1,2,4-Trimethylbenzene	7.0	145.0	)
sec-Butylbenzene	11.0	11.0	U
p-isopropyltoluene	9.0	9.0	U
n-Butylbenzene	14.0	15.2	
Naphthalene	8.0	147.0	)
a,a,a-Trifluorotoluene (%)	72-117 .	104.0	



Site: LTV/TRUSCON Date Sampled: 11/04/96 Date Received: 11/04/96 Group Number: 9601-571 Report Units: ug/kg Matrix: Soil

WS30840
SW-13 A/B
NA
11/05/96

	<u> </u>		
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	C
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	3.2	
a,a,a-Trifluorotoluene (%)	72-117 .	97.3	



Site: LTV/TRUSCON Date Sampled: 11/05/96 Date Received: 11/05/96 Group Number: 9601-575 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30880 SW-14 A/B NA 11/05/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	2.4	
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	29.0	
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	65.3	E
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	2.3	
a,a,a-Trifluorotoluene (%)	72-117 .	107.0	
Dilution Footor 4			



Site: LTV/TRUSCON Date Sampled: 11/07/96 Date Received: 11/07/96

Group Number: 9601-580 Report Units: ug/kg Matrix: Soil

,			OII
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30925 SW-15 A/B NA 11/08/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	115.0	



### laste Stream Technology, Ir. 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/07/96 Date Received: 11/07/96

a,a,a-Trifluorotoluene (%)

Group Number: 9601-580 Report Units: ug/kg Matrix: Soil

117.0

	Lab ID Number Client ID Date Extracted Date Analyzed	WS30926 S-16 A/B NA 11/08/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U

Dilution Factor 1
NYSDEC Petroleum contaminated Water/Soil compound list.

72-117 .



### /aste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/07/96 Date Received: 11/07/96

Group Number: 9601-580 Report Units: ug/kg Matrix: Soil

			Oil
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30927 SW-17 A/B NA 11/08/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	110.0	



### /aste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/07/96 Date Received: 11/11/96 Group Number: 9601-584 Report Units: ug/kg Matrix: Soil

			Con
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30982 S-18 A/B 11/11/96 11/11/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	625	625	U
Benzene	125	125	U
Toluene	125	125	U
Ethylbenzene	163	163	U
m,p-Xylene	350	350	U
o-xylene	213	213	U
Isopropylbenzene	200	739	
n-Propylbenzene	213	4340	
1,3,5-Trimethylbenzene	213	213	U
tert-Butylbenzene	450	450	U
1,2,4-Trimethylbenzene	175	175	U
sec-Butylbenzene	275	1610	
p-Isopropyltoluene	225	225	U
n-Butylbenzene	350	5310	
Naphthalene	200	200	U
a,a,a-Trifluorotoluene (%)	72-117	129	#



### Jaste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/11/96 Date Received: 11/11/96 Group Number: 9601-586 Report Units: ug/kg Matrix: Soil

Date Neceived. 11/11/90		iviati ix.	Oli
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30993 SW-19 A/B NA 11/12/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	100.0	



### Jaste Stream Technology, In

### 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/11/96 Date Received: 11/11/96 Group Number: 9601-586 Report Units: ug/kg Matrix: Soil

Date Neceived. 11/11/90		Mauix.	2011
	Lab ID Number Client ID Date Extracted Date Analyzed	WS30994 S-20 A/B NA 11/12/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	3.8	
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	6.3	
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	13.7	
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	104.0	



### Jaste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/12/96 Date Received: 11/13/96

Group Number: 9601-590 Report Units: ug/kg Matrix: Soil

Lab ID Number	WS31029
Client ID	S-21 A/B
Date Extracted	NA
Date Analyzed	11/15/96

		11/13/90	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	2.0	
n-Propylbenzene	1.7	5.4	
1,3,5-Trimethylbenzene	1.7	1.9	
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	23.0	
sec-Butylbenzene	2.2	2.2	U
p-lsopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	4.9	
a,a,a-Trifluorotoluene (%)	72-117 .	117.0	



### **Jaste Stream Technology, In** 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/12/96 Date Received: 11/13/96

Group Number: 9601-590 Report Units: ug/kg Matrix: Soil

	Lab ID Number Client ID Date Extracted Date Analyzed	WS31030 SW-22 A/B NA 11/15/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	3.7	
n-Propylbenzene	1.7	12.7	
1,3,5-Trimethylbenzene	1.7	6.9	
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	39.6	
sec-Butylbenzene	2.2	5.2	
p-lsopropyltoluene	1.8	4.2	
n-Butylbenzene	2.8	42.1	
Naphthalene	1.6	40.0	
a,a,a-Trifluorotoluene (%)	72-117 .	125.0	#
Dilution Footon 4			



### Jaste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/13/96 Date Received: 11/13/96

Group Number: 9601-590 Report Units: ug/kg Matrix: Soil

Lab ID Number	WS31031
Client ID	SW-23 A/B
Date Extracted	NA
Date Analyzed	11/13/96
Date Analyzed	11/13/96

Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	1.6	U
n-Propylbenzene	1.7	1.7	U
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	2.2	U
p-Isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	2.8	U
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	108.0	



### laste Stream Technology, In 8021 Soil Analysis-NYSDEC List 5030/8021

Site: LTV/TRUSCON Date Sampled: 11/13/96 Date Received: 11/13/96 Group Number: 9601-590 Report Units: ug/kg Matrix: Soil

2 410 / (020) 104. / 1/ 10/00		WIGHTA.	3011
	Lab ID Number Client ID Date Extracted Date Analyzed	WS31032 SW-24 A/B NA 11/13/96	
Compound	Detection Limit/ QC Limits (%)	Result	Q
Methyl-t-butylether	5.0	5.0	U
Benzene	1.0	1.0	U
Toluene	1.0	1.0	U
Ethylbenzene	1.3	1.3	U
m,p-Xylene	2.8	2.8	U
o-xylene	1.7	1.7	U
Isopropylbenzene	1.6	10.2	-
n-Propylbenzene	1.7	23.3	
1,3,5-Trimethylbenzene	1.7	1.7	U
tert-Butylbenzene	3.6	3.6	U
1,2,4-Trimethylbenzene	1.4	1.4	U
sec-Butylbenzene	2.2	7.5	
p-isopropyltoluene	1.8	1.8	U
n-Butylbenzene	2.8	16.8	
Naphthalene	1.6	1.6	U
a,a,a-Trifluorotoluene (%)	72-117 .	101.0	



302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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LAB USE: REFRIGERATOR #\_

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

9601-535

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

9601-552

CHAIN OF CUSTODY RECORD

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9601-552

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

9601-568

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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CHAIN OF CUSTODY RECORD

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LAB USE: REFRIGERATOR #\_

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TECHNOLOGY

302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

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LAB USE: REFRIGERATOR #\_

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TECHNOLOGY

302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

CHAIN OF CUSTODY RECORD

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SHELF#\_

LAB USE: REFRIGERATOR #\_

GROUP #\_

302 GROTE STREET BUFFALO, NY 14207 (716) 876-5290

9401-590

CHAIN OF CUSTODY RECORD

PROJECT NO:	SITE NAME:			306		_	`` \	
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GROUP #\_



### APPENDIX D WASTE OIL INVOICE FORMS

INVOICE

96-7515

Check 🗆 #\_

Cash 🗆

Charge X

BISON WASTE OIL COMPANY INC.
P.O. BOX 147  240 Main St  Aden, NY 14004
Cowasylls, NY 14037
716-937-7730 Fax 716-937-3254 1-800-542-5699
716-937-7730 FEX / 16-537-5257 OFFICIAL USED OIL RECEIPT / INVOICE / CERTIFICATION OFFICIAL USED OIL COMPOSITION
OF USED OIL STILL
Elmwood Jans
Company Name Furtown M.
Company Street Address State Zip
City_Ton awanda_state
Phone No.
A. COMPANY CERTIFICATION:
1. Company is a used oil Generator Cullector
Company to a released
2. That the used oil released Date
Sample has been taken
Has not been mixed with any hazardous materials
Contains chlorinated paraffinic compounds
Contains Chlorinated Parameter (attach specifications)
5. That this company generates less than more than
5. That this company generates
300 gallons per month
DE STEVENS
Company Conflication Stanature
Driver Signeture
17780
P.O. #
B. Charge par Chg. for Oil
Container Container
Charge per Container Container Chg. for Water/Anti Freeze
Environmental Fee
Chg. Sales Tax Due
_
Total due — Pay this amount to Bison Waste Oil Co. \$
THIS IS YOUR INVOICE
[ INIS IS TOUT IT TO

County FALL



### APPENDIX E STOCKPILE LINER QUALITY ASSURANCE TEST DATA

Project ...... LTV - 6" PAD Project Number.. 0304-27-7

Sample Undisturbed Number Permeability cm/sec

ST-1 1.9 E-8 ST-2 2.1 E-8 ST-3 4.9 E-8

Project...... LTV - 6" PAD Project Number.. 0304-27-7 Location..... ST-1

## PERMEABILITY TEST RESULTS

TEST PARAMETERS	Test Type		Head Pressure(psi) 84.1	Back Pressure(psi) 80.0		Fluid DEAIRED WATER	Permeation Time(days) 3
FINAL	3.04	2.83	136.9	15.5	7.6	118.6	
INITIAL	3.08	2.84	133.9	15.0	9.7	116.4	94
SAMPLE PARAMETERS	Height(in)	Diameter(in)	Wet Density(pcf)	Moisture Content(%)	Optimum Moisture Content(%)	Dry Density(pcf)	Percent Compaction(%)

TEST RESULTS

Coefficient of Permeability, K. (cm/sec)

1.9 E-8

Project ...... LTV - 6" PAD Project Number. 0304-27-7 Location.... ST-2

# PERMEABILITY TEST RESULTS

	UNDISTURBED	FALLING HEAD	84.9	80.0	88.0	DEAIRED WATER	7
TEST PARAMETERS	Test Type		Head Pressure(psi)	Back Pressure(psi)	Chamber Pressure(psi)	Fluid	Permeation Time (days)
FINAL	1.77	2.84	140.6	12.8	6.7	124.7	
INITIAL	1.81	2.84	136.9	11.8	9.7	122.5	86
SAMPLE PARAMETERS	Height(in)	Diameter(in)	Wet Density(pcf)	Moisture Content(%)	Optimum Moisture Content(%)	Dry Density(pcf)	Percent Compaction (%)

### TEST RESULTS

Coefficient of Permeability, K. (cm/sec)

2.1 E-8

Project...... LTV - 6" PAD Project Number.. 0304-27-7 Location..... ST-3

# PERMEABILITY TEST RESULTS

		UNDISTURBED	DATTITUES	ďy.	i) 79.	isi) 88.0	DEAIRED WATER	ув) 2
TEST PARAMETERS		Test Type		Head Fressure(p	•	Chamber Pressure(p	Fluid	Permeation Time(days)
FINAL	1	•	0	٠	•	9.7	113.9	
INITIAL	,	٠,	20.00	128.6	13.5	6.7	113.3	91
SAMPLE PARAMETERS		Height(in)	Dlameter	Wet Density(pcr)	Moisture Content(%)	Optimum Moisture Content(%)	Dry Density(pcf)	Percent Compaction(%)

TEST RESULTS

Coefficient of Permeability, K. (cm/sec)

4.9 E-8

ATICLEAR DENSITOMETER DATA HEET

Project: <u>LTV - L" PRD</u> Client: <u>LTV</u> Contractor: <u>BDR</u> Proctor Test Data - Maximum					of Ma	aterial:	Cla	_ Dat _ Job y	No.	/ <i>i/is/si</i> 0304 nt: <b>9</b>	1-27	-7
NUCLEAR GAGE STANDARD COUNTS Density.	26	13				Moistu	re:	90				
TEST NUMBER	l	2	3	4	S	6	7	8	9			
DEPTH OR ELEVATION	4"	4"	4"	4.	4"	4"	4"	4"	4"			
DENSITY COUNT	2583	2822	2486	2449	2716	2678	2730	2735	2413			
WET DENSITY (pcf)	132.0	127.7	(34.1	134.9	129.6	130.2	121.3	129./	135.7			
MOISTURE GONTENT COUNT	200	174	189	173	189	200	181	211	19 <i>Y</i>			
MOISTURE (pcf)	15.2	12.9	14.2	14.6	14.2	15.2	13.5	16./	14.7			
DRY DENSITY (pcf)	116.8	114.8	117.9	(20.3	1153	U5.1	115.8	(13.0	121.0			
PERCENT MOISTURE	13.0	11.3	11.9	121	12.3	13.2	11.7	143	12./			
PERCENT COMPACTION	93.9	92.2	<b>%</b> .4	96.7	92.7	92.5	73.1	90.8	97.3			
PASS (P) OR FAIL (F)	P	P	P	P	P	P	P	9	P			
TEST NO.	LOCATION OR REMARKS											
·	· · · · · · · · · · · · · · · · · · ·											
า:				· · · · · · · · · · · · · · · · · · ·								

INSPECTION TIME: 13:30
INSPECTOR: J. BOY(BS
DATA CHECKED BY:
TROXLER SERIAL NUMBER: 1711Z

NUCLEAR DENSITOMETER DATA SHEET Date: 19/14/74 Proiect: Job No. 0304-27-7 Client: Type of Material: Clay Contractor: Optimum Moisture Content: 9.7 Proctor Test Data - Maximum Density: 124.4 **NUCLEAR GAGE** 2688 Moisture: STANDARD COUNTS Density; 19 14 17 20 15 18 12 **TEST NUMBER** 11 (0 4' 4 4" **DEPTH OR ELEVATION DENSITY COUNT** 246 2557 2389 2306 2469 12487 1275 12765 12544 12596 12467 134.5 (32.4 137.3 138.1) 130.3 120.2 132 9 1382 134.5 WET DENSITY (pcf) B44 1341 MOISTURE CONTENTANT 1204 174 197 207 208 204 1189 198 203 202 200 15.9 15.9 15.2 12.9 15.5 14.9 15.0 15.4 15.8 MOISTURE (pcf) 14.2 155 119.0116.7 1221 1189 119.2 116.1 1132 117.4 1224 118.6 DRY DENSITY (pcf) 125.2 13.4 13.1 PERCENT MOISTURE 13.6 12.4 125 12.7 13.1 10.7 12.9 13.7 (3.Z 95.3 75.6 93.8 98.1 784 94.4 PERCENT COMPACTION 100.7 95.6 75.3 93.3 91.0 Þ PASS (P) OR FAIL (F) LOCATION OR REMARKS TEST NO. INSPECTION TIME: INSPECTOR: DATA CHECKED BY:

TROXLER SERIAL NUMBER: 1417

NUCLEAR DENSITOMETER DATA SHEET Date: 10/12/94 Project: Job No. 0304-277 Client: Type of Material: Clay RNR Contractor: Optimum Moisture Content: 7.7 Proctor Test Data - Maximum Density: /24.4 **NUCLEAR GAGE** STANDARD COUNTS Density; Moisture: 27 32 28 26 31 29 30 **TEST NUMBER** 21 24 22 4" **DEPTH OR ELEVATION DENSITY COUNT** 2340 2520 2512 2404 2513 2446 2283 2487 2529 2359 2588 2392 133.5 1346 WET DENSITY (pcf) 127.3 133.1 1365 133.6 131.7 135-2 132.8 135.6 1335 132.5 MOISTURE GONTENT COLLY 197 176 195 200 184 134 183 **45** 201 190 184 204 13.8 137 13.1 14.8 152 MOISTURE (pcf) 149 15.5 13.8 14.8 14.3 15,7 13.8 10.5 119.7 122.5 19.7 19.9 123.7 1175 175 117.7 DRY DENSITY (pcf) 119.3 120.9 112.3 10.7 PERCENT MOISTURE 11.5 11.5 13.3 12.8 12.3 11.9 11.3 129 13.7 11.7 11.4 97.2 8.2 925 963 94.8 94.8 95.9 94.6 96.3 99.4 97.6 PERCENT COMPACTION 90.3 D D D PASS (P) OR FAIL (F) LOCATION OR REMARKS TEST NO. 13:00 **INSPECTION TIME:** INSPECTOR:

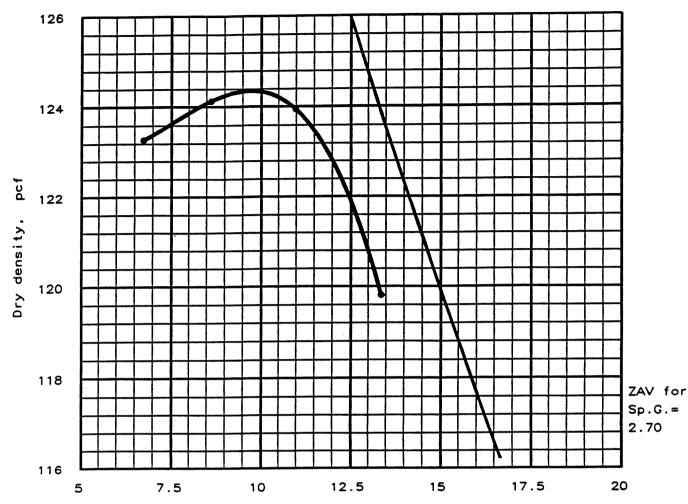
**DATA CHECKED BY:** 

TROXLER SERIAL NUMBER:

NUCLEAR DENSITOMETER DATA SHEET Date: 10/17/96

Job No. 0304-27-7 Project: LTV - 6" PAD Client: Type of Material: Clay Contractor: Proctor Test Data - Maximum Density: 124.4 Optimum Moisture Content: 9.7 **NUCLEAR GAGE** Moisture: STANDARD COUNTS Density: 33 **TEST NUMBER** -49 4 **DEPTH OR ELEVATION** 2609 |2829 **DENSITY COUNT** 131.3 127.1 WET DENSITY (pcf) MOISTURE CONTENT 196 186 14.0 14.8 MOISTURE (pcf) DRY DENSITY (pcf) 117.3 112.3 11.9 13.2 PERCENT MOISTURE PERCENT COMPACTION 94.3 90.3 P PASS (P) OR FAIL (F) **LOCATION OR REMARKS** TEST NO. INSPECTION TIME: INSPECTOR: DATA CHECKED BY: TROXLER SERIAL NUMBER: 17/12

### MOISTURE-DENSITY RELATIONSHIP TEST



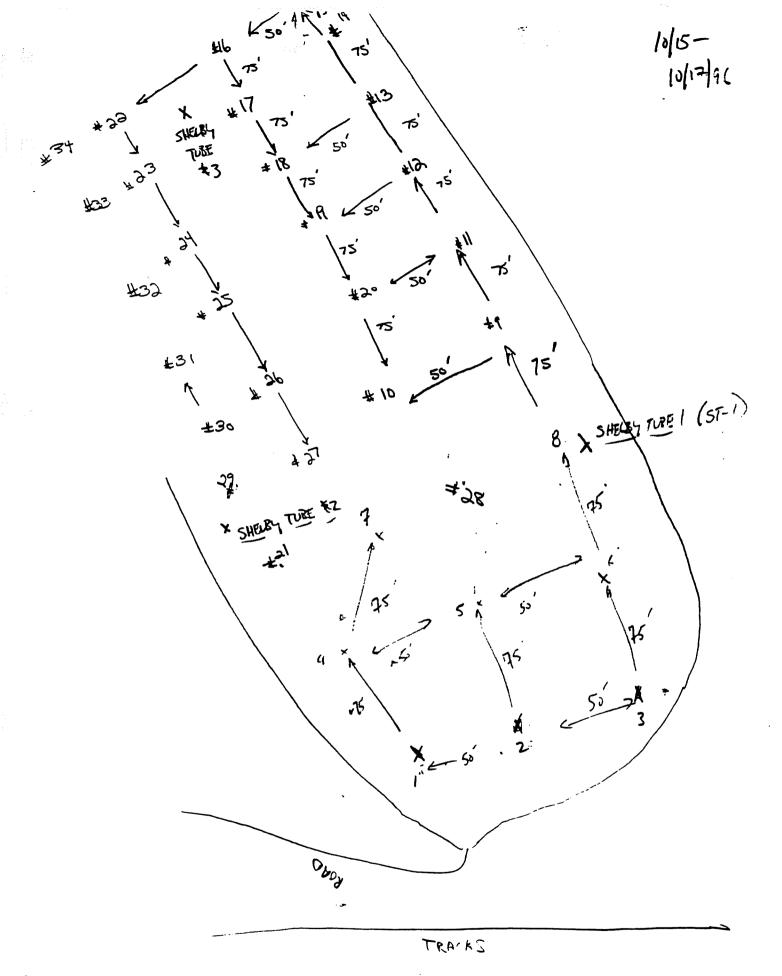
Water content, %

Test specification: ASTM D 1557-91 Method B, Modified

MALCOLM PIRNIE, INC.

Date: 10-7-96

Elev/	Classification		Nat.	Sp.G.	LL	PI	% >	7 <	
Depth	uscs	AASHT0	Moist.	J. 0.		<u> </u>	3/8 in	No.200	
TEST RESULTS					M.A	MATERIAL DESCRIPTION			
Maximum dry density = 124.4 pcf Optimum moisture = 9.7 %									
Project No.: 0304-27-7					Rema	Remarks:			
Project	:: LTV								
Locatio	n: BULK SAMPLE	NO. 1 / BDR			l				



J. 304 (55

LTV- 6" PAD / DENSITY TESTING



# APPENDIX F POSI-SHELL MANUFACTURER'S DATA

## Posi-Shell Cover System



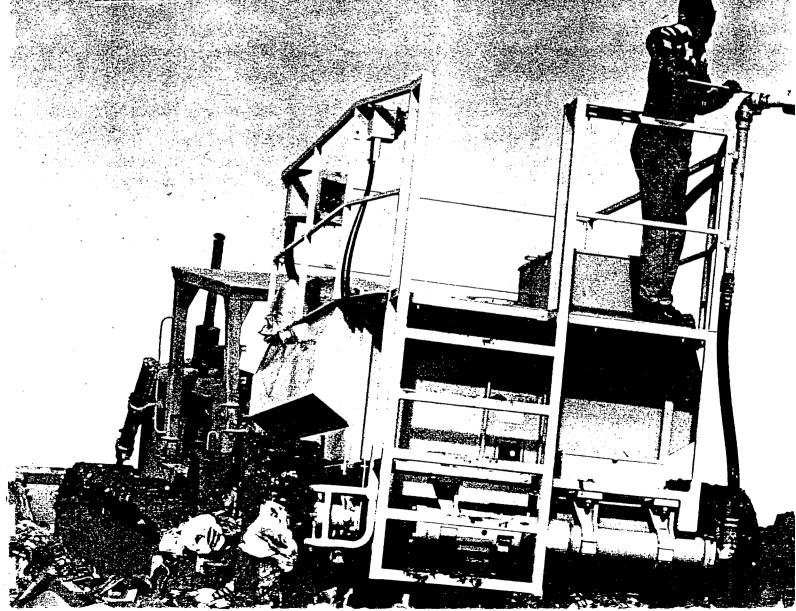


### Posi-Shell' Makes Room for Profit

The most valuable element of a landfill is disposal airspace. Efficient use of airspace today can directly translate into longer landfill life, decreased operating costs and increased profits:

Using Posi-Shell synthetic cover instead of natural soil for daily landfill cover is your ticket to achieving maximum airspace utilization. Developed by Landfill Service Corporation as an innovative, zero-volume cover for today's challenged landfill sites. Posi-Shell is the one total application system that gives you easy access to every cubic yard of airspace formerly consumed by thick soil covers.

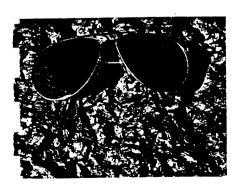
In most cases, the application cost of Posi-Shell is no more than soil, making Posi-Shell daily cover affordable within your existing landfill budget. You gain additional usable airspace at little or no additional cost.













#### Composition

Posi-Shell™ is a 100% recycled alternative to traditional, costly soil layering. It has met the rigorous standards required for approval by New York State's tough Department of Environmental Conservation (DEC) for use in the state's landfills.

Made entirely of non-flammable, non-toxic recycled materials, Posi-Shell is an environmentally-compatible combination of: Liquid (Water or Leachate) + Posi-Pak with Fibers + Mineral Binder = Posi-Shell

*Liquid:* Posi-Shell has been formulated to use either water or landfill leachate as its liquid base. For landfill owners, this means that you can now use leachate as part of your daily cover process rather than transporting it offsite for treating.

Posi-Pak\*\*: Lightweight, easy-to-handle and ready-to-use
Posi-Paks contain a mixture of materials including recycled plastic and cellulose fibers.

Mineral Binder: Posi-Shell's mineral binder component acts to neutralize odors and contaminants present in leachate. It is comprised of recycled by-products now put to good use in the Posi-Shell formula.



After application, the Posi-Shell slurry hardens to a non-flammable coating that easily conforms to the irregular contours of your landfill. Its color and texture provide a uniform appearance that is aesthetically appealing to nearby residents.

#### **Application**

Applying Posi-Shell cover is an uncomplicated, one-man operation. Once the ten-minute process of mixing the dry components with a liquid is completed, Posi-Shell's mobile applicator is moved to the working face. The specially-designed applicator provides exceptional ability to access difficult, steep or muddy areas. High pressure slurry pumping capability allows rapid coverage from a single station.

Versatile Posi-Shell is equally effective as cover for conventional landfills, composting piles, hazardous waste piles, and for preventing side slope erosion.

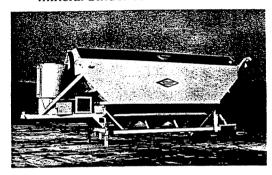
# **EQUIPMENT**

#### Posi-Shell™ Cover System

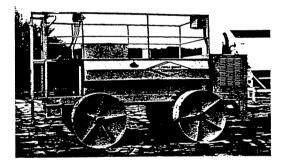
Landfill Service Corporation provides all specialized equipment and training for the Posi-Shell application process. Mixing and application equipment are available on a lease basis. In almost every case, our total application system will cost you less to maintain and operate than traditional soil moving equipment such as dump trucks, backhoes and bulldozers.

#### Stage I: Mixing

 Horizontal Silo — Used to store and dispense mineral binder used in the Posi-Shell mix.



 Posi-Shell Applicator — Mixes Posi-Shell ingredients in five to ten minutes; maintains constant agitation of slurry until ready for application.



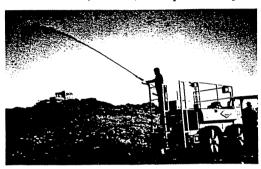
#### **Customized Set-Ups**

Landfill Service Corporation determines your application equipment needs depending on the configuration of your site. Multiple set-ups can be arranged for larger landfills.

Maintenance and warranty are supplied by Landfill Service Corporation. Our technicians and engineers are available 24-hours-a-day for troubleshooting assistance.

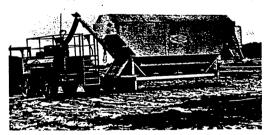
#### Stage II: Application

- Mobile, self-contained Posi-Shell applicator can be towed to any point in your landfill adjacent to working faces.
- Deck-mounted spray tower applies non-flammable Posi-Shell mixture up to 200 feet, with the ability to cover 2,000 – 3,000 square feet per load.



 From the five to ten-minute mixing process through application and clean-up, using Posi-Shell takes only about one hour per load with a oneman crew.







2183 Pennsylvania Avenue Apalachin, NY 13732 (USA) Tele (607) 625-3050 FAX. (607) 625-2689

## **ADDITIONAL USES**

#### Posi-Shell™ Cover System

Posi-Shell has proven to be an effective daily cover for these typical landfill challenges:

#### Litter Control

The tacky consistency of Posi-Shell's fresh slurry adheres particles to fresh waste piles, preventing airborne debris.

#### Odor Control

Posi-Shell's alkaline formulation neutralizes waste odors.

#### Bird Abatement

Posi-Shell is an effective deterrent. After application to a landfill near one busy regional airport, bird populations dropped dramatically, reducing danger to passing aircraft. In fact, birds could be seen feeding on newly dumped garbage while completely avoiding garbage coated with Posi-Shell just a few feet away.

#### Erosion Control

Posi-Shell can be used to cover erodible soils on protective berms or other landfill structures.

#### Stabilized Waste Placement

#### Compost Pile Cover

#### Contaminated Soil Pile Cover

Posi-Shell forms a protective, fireproof seal around contaminated soils, eliminating wind and rainfall dispersion.

#### Posi-Pak™: Environmentally Safe

Lightweight, easy-to-handle Posi-Paks are packaged for easy stacking, storage and protection against the elements. They contain 100% recycled materials for blending with the Posi-Shell mixture. Three Posi-Paks are required for each full load of cover.



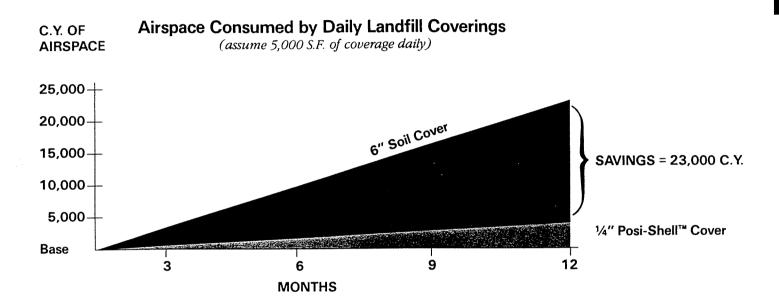


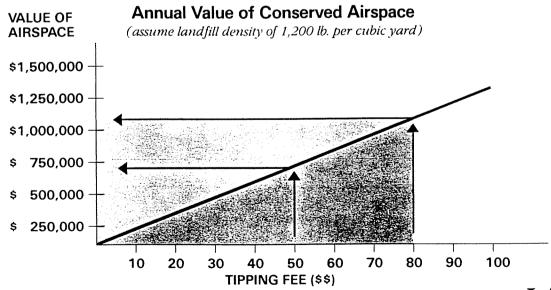




### **PERFORMANCE**

Posi-Shell™ Cover System





#### **EXAMPLE:**

A landfill with a **\$50.00** tipping fee would realize **\$690,000** in additional airspace value over a one-year period.



### LANDFILL SERVICE

CORPORATION

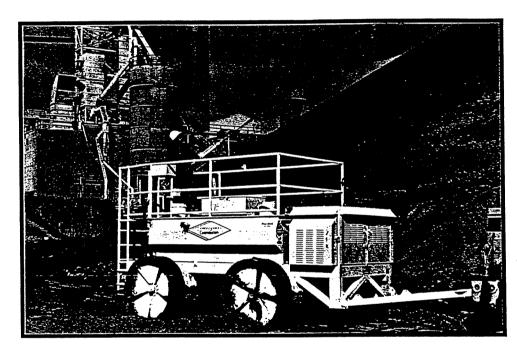
2183 Pennsylvania Avenue Apalachin, NY 13732 (U.S.A.) Tele (607) 625-3050 FAX (607) 625-2689



2183 Pennsylvania Avenue Apalachin, NY 13732 (USA) Phone (607) 625-3050 Fax (607) 625-2689

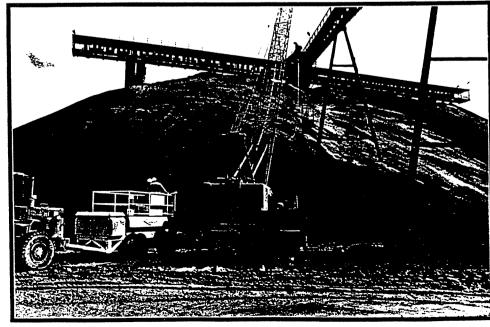
Specially designed portable equipment blending Posi-Shell® ingredients





Applying Posi-Shell<sup>®</sup> through deck-mounted spray tower

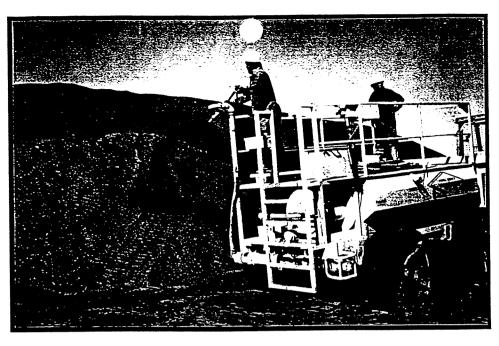


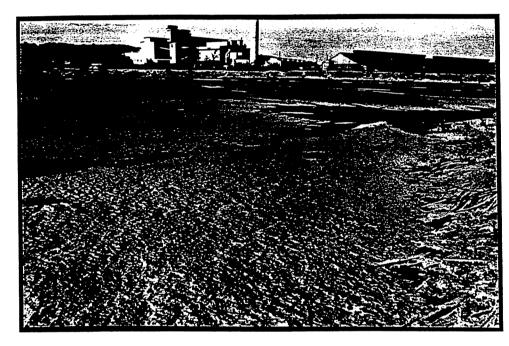




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Lead contaminated fugitive dust control (South Carolina)





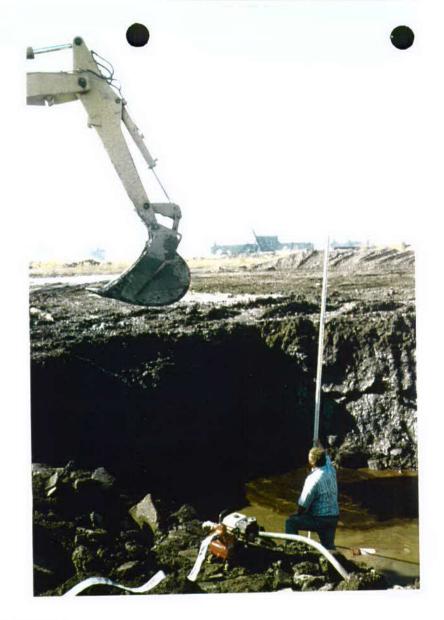
Odor and V.O.C. emissions control (New York)



Fugitive dust control on Superfund Site (Western U.S.)



# APPENDIX G CONSTRUCTION PHOTOGRAPHS



#### **PHOTO #1:**

Checking grades in the area of the former 5.5 million gallon tank.



#### **РНОТО #2**:

Excavating contaminated soil in area of former 5.5 million gallon tank.



PHOTO #3:
Groundwater in main excavation.



#### **PHOTO #4:**

Oil contamination on side of excavation area.



PHOTO #5:
Dumping contaminated soil on biopad.



PHOTO #6:
Grading soil on biopad.



**РНОТО #7**:

Oil contaminated groundwater in area of former 5.5 million gallon tank.



#### **РНОТО #8:**

Side wall of main excavation area showing layer of hard slag above oil contaminated groundwater.



PHOTO #9:
Abandoned pipe lines in side of main excavation area.



PHOTO #10: Compacting backfill.



#### РНОТО #11:

Excavating soil adjacent to Buffalo River.



#### РНОТО #12:

Pumping contaminated groundwater from excavation to BSA collection system.

0848-261-1

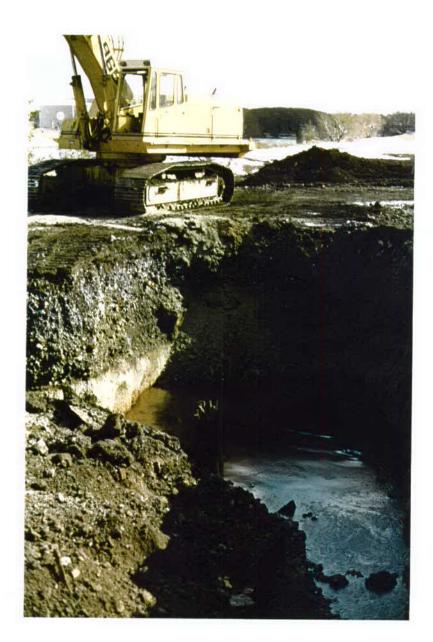
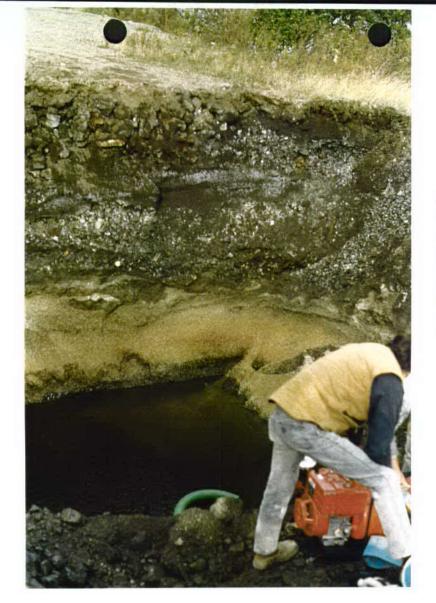


PHOTO #13
Excavation adjacent to River.



#### РНОТО #14:

Excavation adjacent to River showing granular backfill in bottom of excavation from previous site operations.



#### РНОТО #15:

Closeup of granular backfill showing oil contamination.



**PHOTO** #16 Oil filled pipeline crimped on one end.



## Draining oil from pipeline

and vacumming oil from bottom of excavation into tank truck.

0848-261-100/RR



PHOTO #18
Placing pig into oil pipeline to clean the inside.



PHOTO #19
Reassembling pipeline
after pig has been placed
inside.



PHOTO #20
Applying Posi-Shell cover to biopad stockpile.



PHOTO #21
Stockpile being covered.