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FINAL REMEDIATION REPORT

WORK ASSIGNMENT D003825-13

NORTHEAST ALLOYS AND METALS
CITY OF UTICA (C)

SITE NO. 6-33-045
ONEIDA COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Erin M. Crotty, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

URS Corporation
282 Delaware Avenue
Buffalo, New York 14202

December 2001

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FINAL REMEDIATION REPORT
NORTHEAST ALLOYS AND METALS SITE REMEDIATION
UTICA, NEW YORK

NYSDEC SITE NO. 6-33-045

Prepared For:

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
WORK ASSIGNMENT D003825-13

DECEMBER 2001

Prepared By:

URS CORPORATION
282 DELAWARE AVENUE
BUFFALO, NEW YORK 14202

CONSTRUCTION CERTIFICATION

AT

NORTHEAST ALLOYS AND METALS SITE REMEDIAL ACTION

UTICA, NEW YORK

URS Corporation Group Consultants personnel have inspected the remedial action construction at the Northeast Alloys and Metals Site according to generally accepted practices. Based on: field observations and inspections made by onsite personnel; field and laboratory test data; and data provided by the Contractor and its subcontractors, the remedial action construction at the site is considered to have been performed in substantial compliance with the NYSDEC Contract Documents, with the Record of Decision for the site dated March 1998, and as stated in this report.

URS Corporation Group Consultants certifies that the construction was completed in accordance with the Approved Contract Document Plans and Specifications (Titled: Site Name: Northeast Alloys and Metals, Site Number: 6-33-045, Location: City of Utica, Contract Number D004178, County of Oneida, New York, Contract Documents dated 5/25/2000) and incorporating the modifications presented herein.

The work was inspected and documented by competent people under my direct supervision.

DECEMBER 2001

Signature: _____
James Lanzo, P.E.

Date: 1/2/02

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1.0 INTRODUCTION

1.1 Purpose and Scope

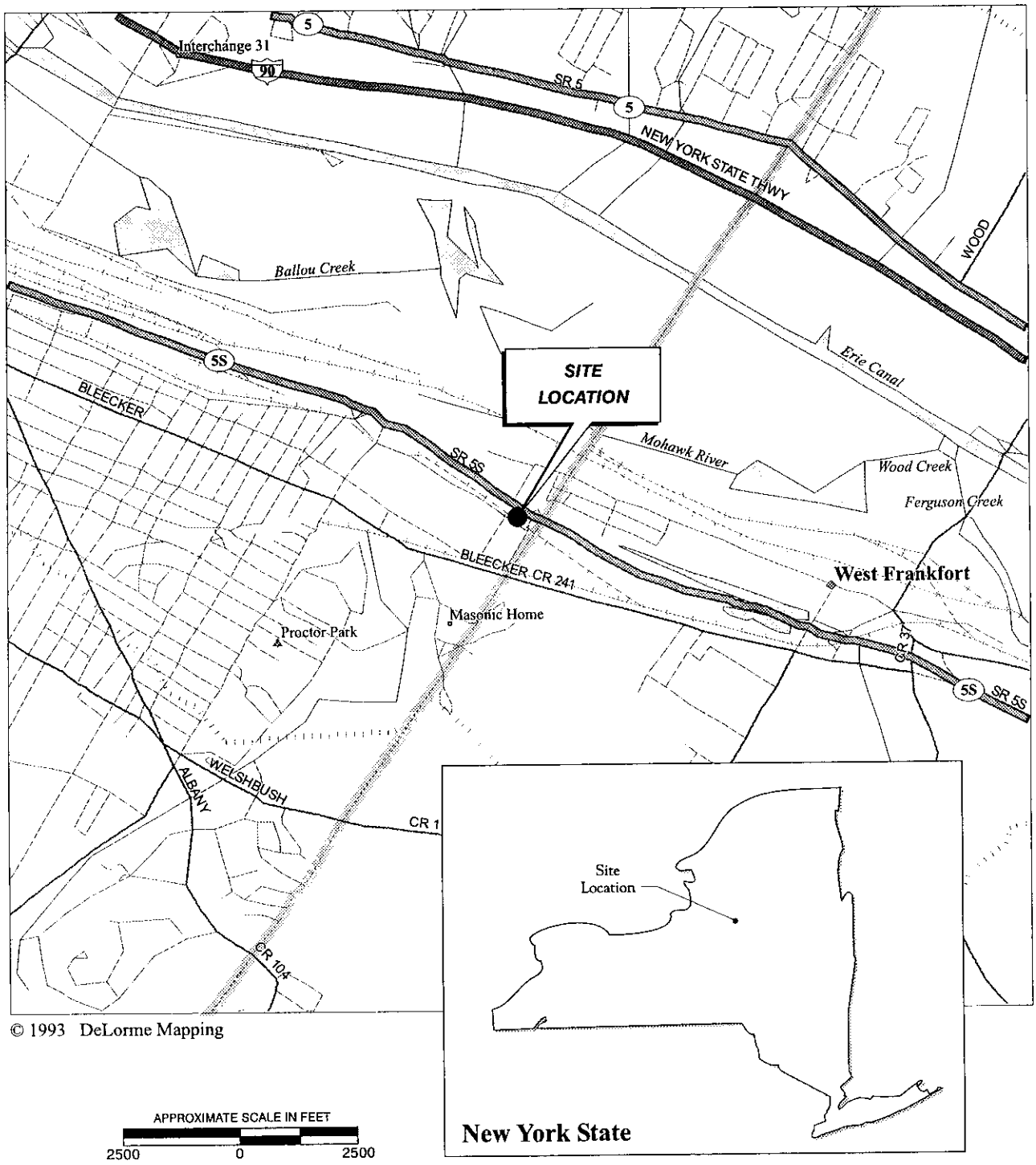
This Final Remediation Construction Report has been prepared to document the construction phase (including start-up and operation for one month) of the remedial action at the Northeast Alloys and Metals site as required under Task 6.3 of Work Assignment D003825-13. Only approved methods, materials, and equipment, as required by the Contract documents, were used on the project unless otherwise described in the following sections on variances and change orders. Provided within this document are:

- Certification by a Professional Engineer licensed to practice in New York State
- Record Drawings
- Discussion of any variances and change orders.

1.2 Site Description

Northeast Alloys and Metals is a Class 2 site, listed on the New York State Department of Environmental Conservation (NYSDEC) Registry of Inactive Hazardous Waste Sites (NYSDEC Site No. 6-33-045). The site is located between State Route 5S and Dwyer Street in the City of Utica, Oneida County, New York. The property is located in a mixed industrial/commercial area just inside the city limits, and just inside the boundary between Oneida and Herkimer Counties (Figure 1). The CSX Railroad runs in an east-west direction approximately 1500 feet north of the site. The Mohawk River flows in an easterly direction and is located approximately 1800 feet to the north.

The facility occupies about 3.9 acres and consists of a plant building, asphalt parking area, and loading dock area which occupy the southwest portion of the property. The plant building, which occupies approximately 21,000 square feet, is a one-story masonry brick structure. A small portion of the paved parking lot area, which formerly contained an underground storage tank (UST) and drum storage area, is referred to as the "courtyard." The site layout is shown in Figure 2.



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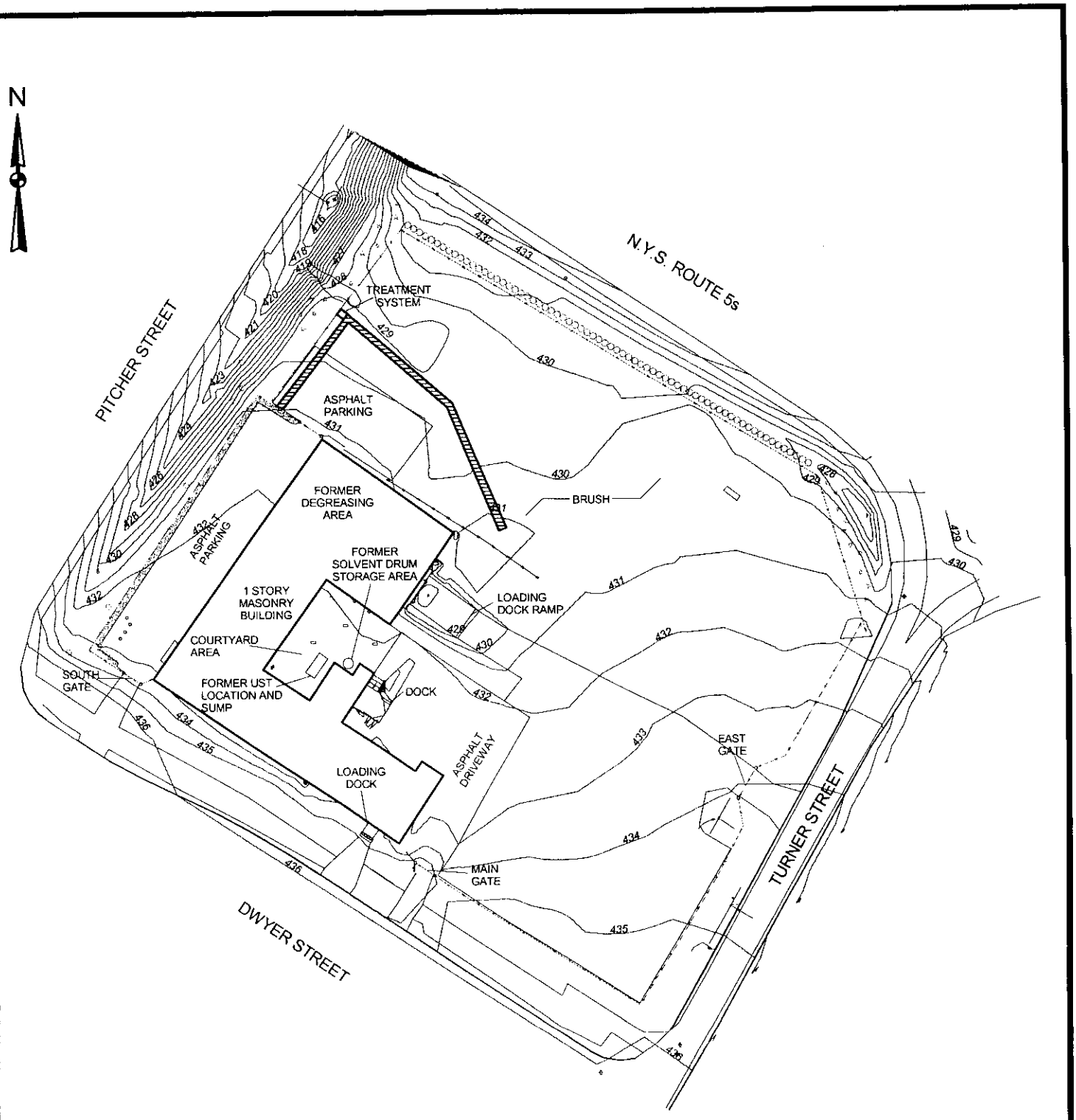
SITE LOCATION MAP
NORTHEAST ALLOYS AND METALS

FIGURE 1



L:\35618.02\db\Gis\2001\northeast.apr SITE LAYOUT MAP 11/2/2001

URS

NORTH EAST ALLOYS AND METALS
SITE LAYOUT MAP

FIGURE 2

Contamination at the Northeast Alloys and Metals Site is primarily chlorinated solvents in the groundwater, specifically trichloroethene and its breakdown products. The use of chlorinated solvents was prevalent at the site, particularly in the metal degreasing operations. Spent solvents may also have been released when a drum of spent solvent was accidentally punctured. The groundwater at the courtyard area of the site is the most highly contaminated, with a plume that follows the groundwater flow to the north. Low concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) contaminants have also been detected in some of the downgradient wells. A system to intercept, collect, and treat the contaminated groundwater has been installed downgradient of the courtyard area.

1.3 Site History

The property and buildings at the Northeast Alloys and Metals site have been used for the manufacturing of electronic components in the 1950s, as a machine shop in the 1960s, and as a commercial laundry in the 1970s. Northeast Alloys and Metals purchased the facility in April 1986 and used it to recycle specialty metal parts. In January 1989, Northeast Alloys and Metals leased the property to ELG Haniel Tradings to perform the metal recycling operations. Operations at the facility ceased in 1991. The facility is currently unoccupied.

The Record of Decision (ROD) for the site was issued by the NYSDEC in March 1998. A pre-design investigation was completed and reports issued by URS in June and October 1999. Contract documents (Contract No. D004178) for remedial construction were prepared by URS and issued by the NYSDEC in May 2000. The notice of intent to award the contract was issued on August 8, 2000 to Scientech NES, Inc. of Danbury, Connecticut. Notice to Proceed with construction at the site was given to Scientech on December 4, 2000. Major construction at the site was completed by March 2001, and all remaining construction at the site was completed by August 24, 2001.

Scientech started-up and operated the groundwater collection and treatment system for a period of one month (from approximately March 21 through April 18, 2001) as required by the Contract Documents. At that point, ownership and responsibility for operation and maintenance of the remedial system was turned over to the NYSDEC.

2.0 SUMMARY OF REMEDIAL WORK

2.1 Summary of Remedial Construction Work

The main work items completed by the Contractor under this Contract included:

1. Construction and subsequent removal of an area for the staging of potentially contaminated soil.

2. Excavation and analysis of soil near the east gate that potentially contained contamination at concentrations exceeding the NYSDEC cleanup criteria. Approximately 427.5 cubic yards of soil were excavated in this area. A total of 6 soil samples of the excavated soil were collected and analyzed for VOCs. Based upon visual observations and the analytical results, which indicated that soil concentrations did not exceed TAGM 4046 criteria, all of the soil was backfilled into the existing excavation, and no soil was taken offsite for disposal.

3. Installation of borings along the proposed groundwater collection trench alignment

4. Construction of a groundwater collection trench.

5. Construction of a groundwater pumping and treatment system to pump water from the collection trench, and treat the contaminated groundwater to meet the discharge limitations.

6. Construction of a gravity discharge line from the groundwater treatment system to a nearby sanitary manhole of the Oneida County Sewer District.

7. Construction of secure system housing, and installation of all required above- and below-ground utilities (electrical, telephone, piping, etc.) as required for operation of the treatment system.

8. Startup, performance testing, reporting, operation, and maintenance of the groundwater treatment system for a period of one month.

9. Delivery of a fully operational system to the NYSDEC for long-term operation.

2.2 General Requirements

2.2.1 On-Site Inspection

Daily inspection of the construction activities was performed by URS throughout the Contract. URS prepared daily inspection reports to document the work performed by Scientech and their subcontractors, to document the equipment and labor used, and to verify that the requirements of the Contract Documents were satisfied. Copies of daily inspection reports are on file at the NYSDEC and at URS.

2.2.2 Record Drawings

Based on survey information and drawings submitted by Scientech, URS prepared drawings to show the final condition of the work completed. URS verified these drawings based on our oversight of the daily construction activities. Record drawings are included with this report as Appendix A.

2.2.3 Construction Photographs

Photographs to document the condition of the site and the progress of construction were taken by URS throughout the duration of our oversight activities. Photographs representing significant work items are included in Appendix B. A more complete set of construction photographs is on file at the NYSDEC and at URS.

2.2.4 Subcontractors

Scientech utilized the following subcontractors during construction at the Northeast Alloys and Metals Site:

ADT Drilling – Borings and Well Installation

Engel Electric – Electrician

BISCO – Remedial Systems Design

Icon Co. – Trenching Forms

Mid-York Fence Co – Fencing

Mitkem – Analytical

Central Paving – Paving

Modi Engineering – Survey

Labor Ready NE – Personnel

2.3 Variances

Variances are modifications to the Contract Documents that do not involve changes to the contract cost or the contract schedule. Variances were implemented following approval by URS and/or the NYSDEC of a request from the Contractor (Scientech), or as initiated by URS. Specific variances to the contract are discussed in Section 3.0.

2.4 Change Orders

2.4.1 Description

Modifications to the Contract Documents for work items that change either the contract price or the contract schedule are processed through change orders. Only one change order, consisting of multiple work items, was prepared for this contract. Appendix C contains a copy of the executed change order. Further discussion of specific change order items is also included in Section 3.0.

2.4.2 Cost Adjustments

Table 1 summarizes the original contract bid prices and quantities for the project. Over the course of the project, there were several adjustments to the original contract amounts for work items that were either added to or deleted from the scope of work. The most significant cost changes were associated with snow delays, construction of the groundwater collection trench, and elimination of the off-site soil disposal. Table 1 also includes the change order costs and the final project cost. Specific change order items are discussed in Section 3.0.

2.4.3 Schedule Modifications

The Schedule for the project consisted only of Substantial and Final Completions. Scientech received Notice-to-Proceed (NTP) from the Department on December 4, 2000. The contract specified a period of 120 days (April 3, 2001) for Substantial Completion, defined as construction and startup of the treatment system. Scientech completed construction and began continuous operation of the system on March 22, 2001. To accommodate several minor tasks that were not completed until warmer weather, the duration of the contract was extended by 150 days, at no additional cost, until August 31, 2001.

2.5 Final Inspection

A substantial completion inspection and walkthrough for the project was conducted on March 1, 2001. This inspection was attended by representatives of Scientech, URS, and the NYSDEC. Based on this inspection, it was determined that Scientech's construction and operation of the project was complete with the exception of the punchlist items noted below:

- Survey locations of the trench, cleanouts, and piezometers and submit final red-line drawings
- Repair the roof of the treatment building where shingles had blown off
- Complete the regrading of the site
- Complete the electrical wiring
- Demobilize all equipment

Table 1

Summary of Contract Costs

Northeast Alloys and Metals Site

Item No.	Description	Unit	CONTRACT Quantity	Unit Price	Total
LS-1	General	LS	1	$7,844.88	$7,844.88
LS-2	Site Preparation	LS	1	$9,804.41	$9,804.41
LS-3	Site Facilities and Services	LS	1	$3,085.89	$3,085.89
LS-4	Groundwater Collection System	LS	1	$19,626.17	$19,626.17
LS-5	Groundwater Treatment System	LS	1	$52,591.07	$52,591.07
LS-6	Electrical	LS	1	$24,450.50	$24,450.50
LS-7	Utility Allowance	LS	1	$1,000.00	$1,000.00
UC-1	East Gate Area Soil Excavation	CY	234	$59.87	$14,009.58
UC-2	East Gate Area Soil Disposal	Ton	100	$174.58	$17,458.00
UC-3	Groundwater Collection Trench	SF	5180	$13.33	$69,049.40
UC-4	Treated Groundwater Gravity Discharge	LF	110	$80.92	$8,901.20
UC-5	Fencing	LF	64	$24.98	$1,598.72
UC-6	Groundwater Treatment System Operation	Month	1	$14,406.41	$14,406.41
UC-7	Health and Safety	person/day	104	$59.95	$6,234.80
	Total Original Contract				**$250,061.03**
CHANGE ORDERS			(Quantities indicate increases (positive) or decreases (negative) relative to original contract quantities)		
LS-8	Snow Delay	LS	1	$25,312.50	$25,312.50
LS-9	Additional Paving	LS	1	$2,110.00	$2,110.00
UC-1	East Gate Area Soil Excavation	CY	35.1	$59.87	$2,101.44
UC-2	East Gate Area Soil Disposal	Ton	-100	$174.58	($17,458.00)
UC-3	Groundwater Collection Trench	SF	-5180	$13.33	($69,049.40)
UC-3	Groundwater Collection Trench	SF	4058	$20.50	$83,189.00
UC-4	Treated Groundwater Gravity Discharge	LF	14	$80.92	$1,132.88
UC-5	Fencing	LF	9.6	$24.98	$239.81
UC-7	Health and Safety	person/day	-47	$59.95	($2,817.65)
UC-8	Additional Fencing	LF	61.4	$44.06	$2,705.28
	Total Change Order No. 1				**$27,465.86**
	TOTAL REVISED CONTRACT				**$277,526.89**

J:\35618.04\Excel\[contract summary.xls]Contract

- Transfer utility billing to the NYSDEC

A letter declaring the project to be substantially complete as of August 24, 2001 was prepared and issued by the NYSDEC on September 10, 2001.

3.0 DETAILED DESCRIPTION OF VARIANCES AND CHANGE ORDERS

The following sections outline all of the significant departures from the original design that was included in the contract documents. Some changes were made with no change in contract price (variances), while others resulted in either an increase or a decrease in the contract price (change orders). Change order items that involve an increase or decrease in quantities only are not discussed in this section, but are included with the actual change order in Appendix C.

3.1 Site Work and Site Facilities

Variances and change orders associated with site work and site facilities included the following:

1. The contractor elected to construct a small wooden shed to house both the aeration blowers and control system in the same structure. The shed replaced individual housings for the blower and control equipment. *(Variance)*

2. Due to a several month delay by the NYSDEC in giving Scientech notice to proceed, the construction phase of the project was pushed into the winter months. The poor weather conditions during the winter months required the contractor to rent additional equipment and to spend additional time for the removal of snow. Additionally, the weather conditions slowed the contractor's productivity for the actual construction activities. *(Change Order)*

3. Because the construction was pushed into the winter months, the contractor was required to install a temporary street patch at the location where the gravity discharge line crossed Pitcher Street. The Contractor then returned to the site in the spring to properly repair the street. *(Change Order)*

3.2 East Gate Area Soil Excavation

Change orders associated with the excavation of soil from the east gate area included the following:

1. It was not necessary for any of the soil excavated in the east gate area to be taken for offsite disposal. Based on screening with a photoionization detector and on the analysis of soil samples, it was determined that none of the soil excavated from the east gate area exceeded the criteria that would require its removal from the site. Following receipt of the soil analytical results, the soil was replaced into the excavation. The results of the soil analysis are located in Appendix E. *(Change Order)*

3.3 Groundwater Collection and Treatment System

Variances and change orders associated with the construction of the groundwater collection trench and treatment system are summarized below:

1. The actual layout of the trench was modified slightly from the original plan. The locations of the collection sump and treatment manhole were moved eastward approximately 15 feet to keep all of the system components inside the existing fenceline. To accommodate this change, the low elevation of the trench also was moved eastward, but without affecting the effectiveness or capture zone of the trench. *(Variance)*

2. The contractor elected to construct the trench by first dewatering the site, and then using trench forms to support the sidewall during excavation. Groundwater extraction wells were installed adjacent to the proposed location of the trench for the purpose of dewatering the site. Because sufficient information regarding the subsurface characteristics was obtained from these extraction wells, the contractor was not required to install the pre-construction borings along the profile of the trench. *(Variance)*

3. The trench form system used by the contractor required that the filter fabric could not be installed as a continuous piece along each side of the trench. Instead, each approximately 20-foot segment of the trench is wrapped in fabric, including the ends of the segment. This modification does not affect the effectiveness of the trench. *(Variance)*

4. Instead of a Modicon programmable logic controller, the contractor elected to use a programmable computer system by EOS, Inc. for the purpose of system control and data acquisition. *(Variance)*

5. The actual quantity for construction of the collection trench was significantly less than the original bid quantity. Additionally, construction of the trench was made more difficult due to unexpected site conditions, i.e., the presence of old canal walls and structures. Therefore, both the quantity and the unit price for this item were adjusted. *(Change Order)*

4.0 SYSTEM STARTUP AND CHECKOUT

4.1 System Startup

Scientech's contract included the operation and maintenance of the groundwater treatment system for a minimum period of one month. During the month of operation, Scientech was responsible for operating the system, maintaining the system components, and monitoring the operation of the system in accordance with the requirements of the contract documents. There were no variances or change orders associated with the operation of the system.

4.2 System Monitoring

During their one month of operation, Scientech collected and analyzed samples of the untreated and treated groundwater collected by the system. These samples were collected to verify that the treatment system was successfully reducing the concentrations of VOCs in the groundwater, and to verify that the contaminant concentrations in the effluent met the criteria for discharge to the City of Utica sanitary system. In addition to VOCs, these samples were also analyzed for pH, metals, dissolved and suspended solids, and hardness. Table 2 summarizes the removal efficiency of the groundwater treatment system based on the samples collected by Scientech. Based on this information, the treatment system is meeting the desired objectives. Complete analytical reports have been included as Appendix F.

Table 2
Summary of Groundwater Analytical Data
Northeast Alloys and Metals Site

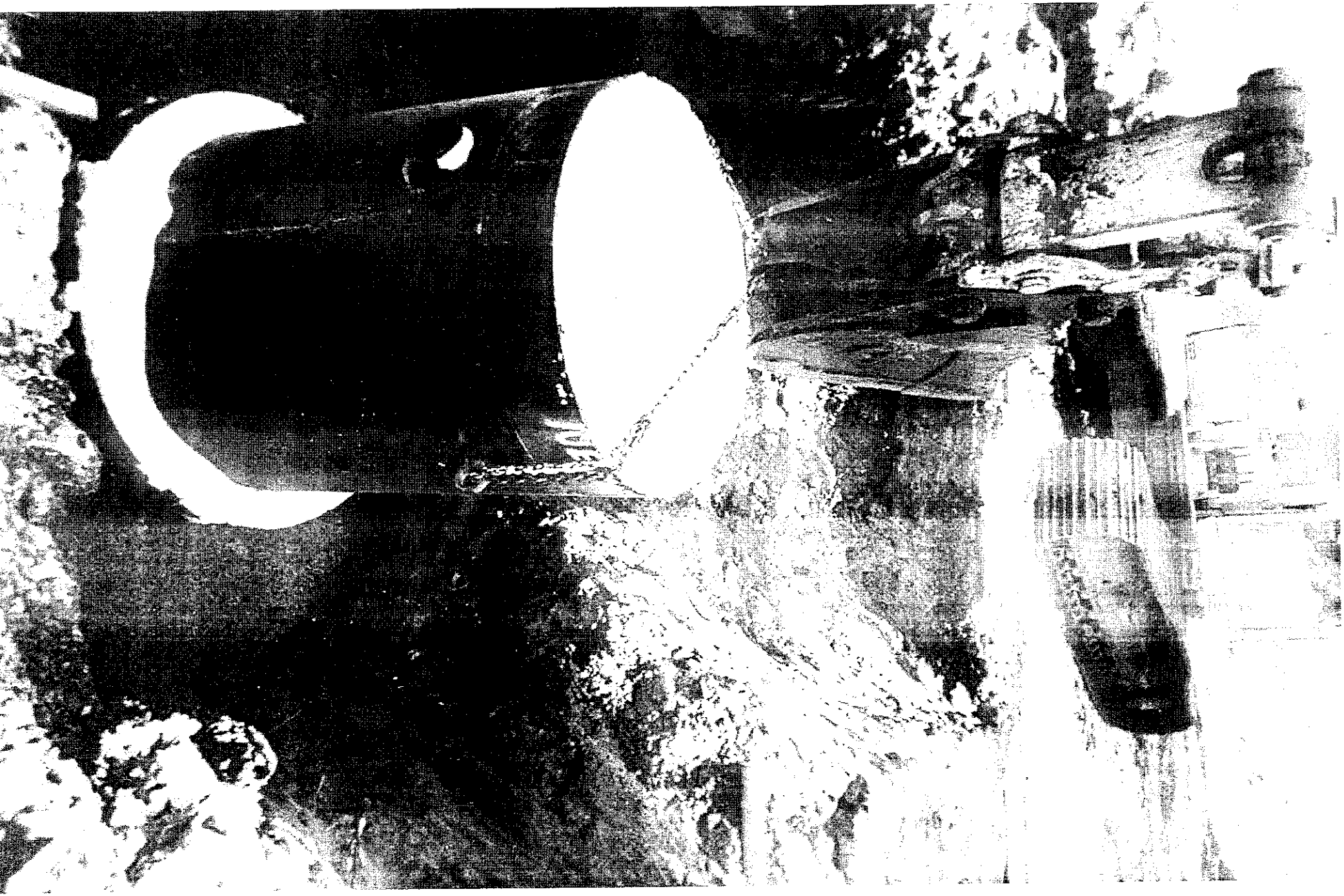
Contaminant	Sampling Date								Average		Removal
	3/28/01		4/4/01		4/11/01		4/18/01				
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	
Chloromethane			3				3		1.5	0	100%
Vinyl Chloride	35	2	19		27		22	1	25.75	0.75	97%
1,1-Dichloroethene	1								0.25	0	100%
cis-1,2-Dichloroethene	200	20	230		290	28	210	33	232.5	20.25	91%
Benzene	2		2						1	0	100%
Trichloroethene	3		4		3				2.5	0	100%
Toluene	16	1	13		11		11	2	12.75	0.75	94%
Chlorobenzene	2		2						1	0	100%
Ethylbenzene	5		5		4		4		4.5	0	100%
Xylene	55	3	48		42	4	37	6	45.5	3.25	93%
1,2-Dichlorobenzene	2		3						1.25	0	100%
Totals									328.5	25	92%

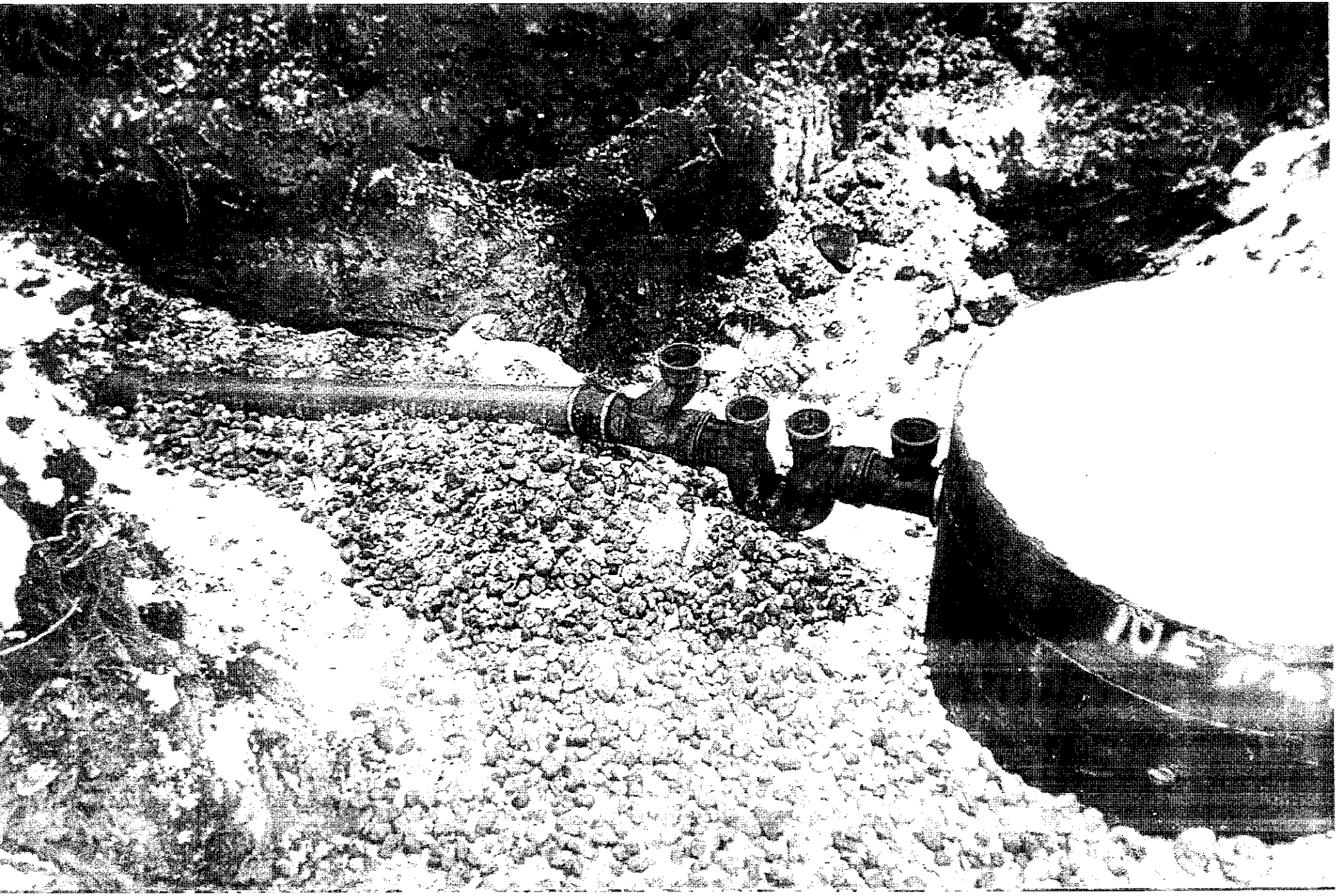
All results are in µg/L.
Only detected analytes are shown.

J:\35618.04\Excel\[effluent summary.xls]Sheet1

CONSTRUCTION PHOTOGRAPHS OF MAJOR SITE ACTIVITIES

1. Construction of the discharge line across Pitcher Street.
2. Cleanout located in the discharge line.
3. *Installing the lower section of the treatment manhole.*
4. Traps and cleanout on the gravity discharge line from the treatment manhole.
5. Lines feeding groundwater into the treatment manhole.
6. Icon trench forms and construction of the collection trench.
7. Icon trench forms and construction of the collection trench.
8. *Looking into the trench.*
9. Trench with filter fabric draped over the sides.
10. Men installing the collection pipe and stone in the trench.
11. The baffles in the treatment manhole.
12. Aeration manifold, ladder, and dog.
13. *Looking into the treatment manhole.*
14. Looking into the collection sump, with two pumps and discharge lines.
15. The control system.
16. The blower skid.
17. Discharge air vent beside the treatment manhole.
18. *Restoration of the hillside along Pitcher Street.*
19. Shed to house the aeration blowers and control system.
20. The area of the collection trench, after backfilling soil.





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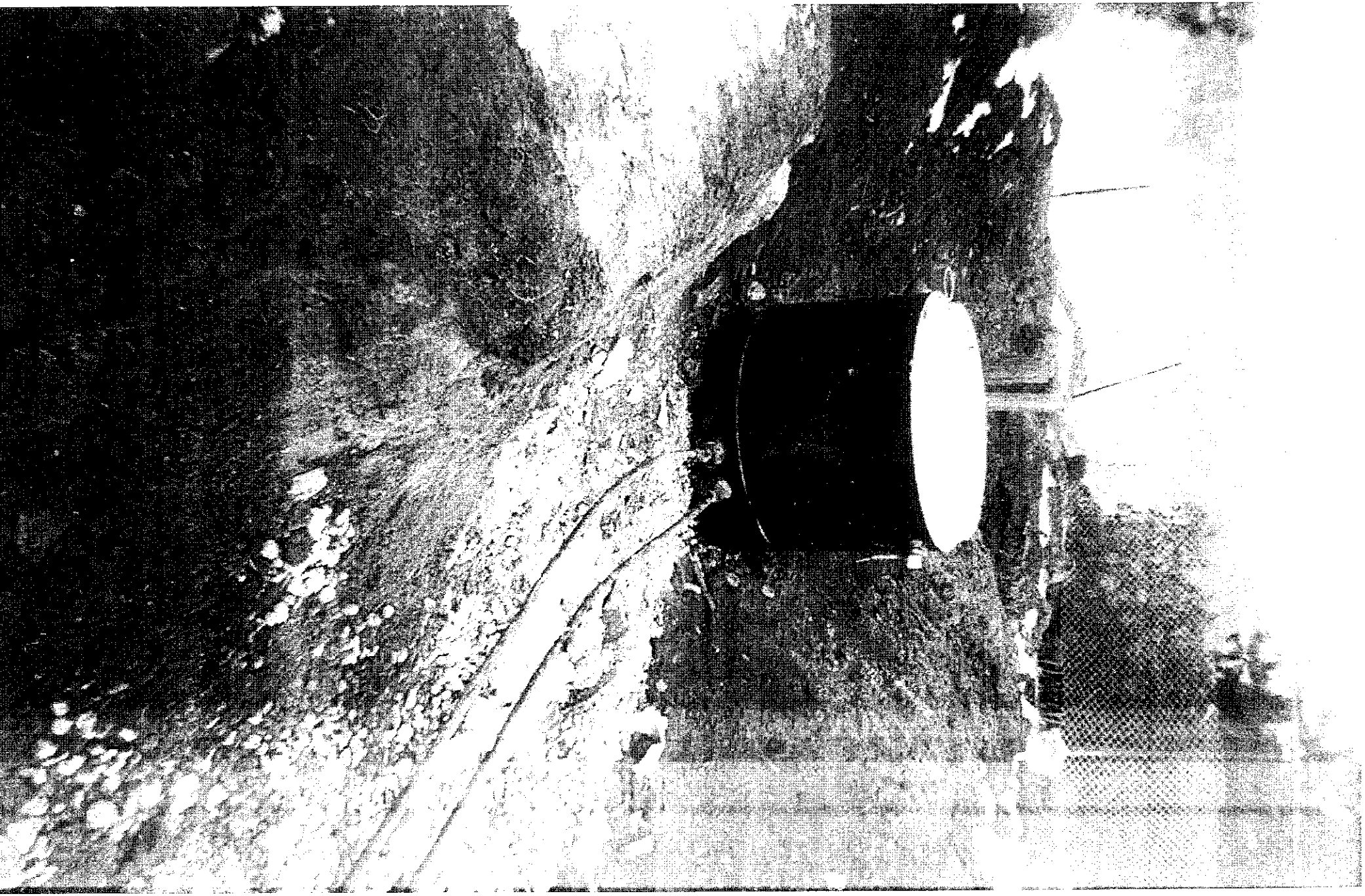

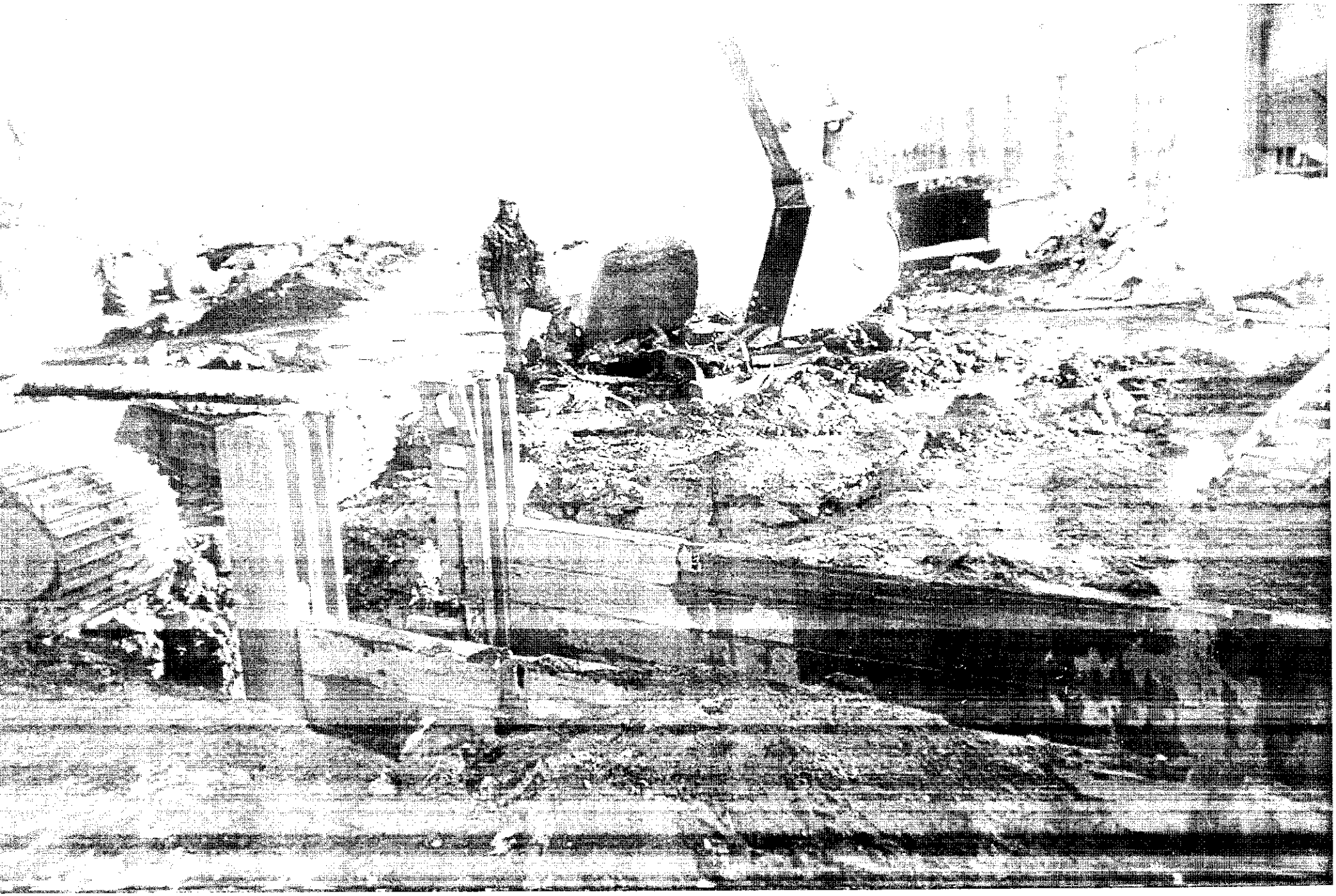

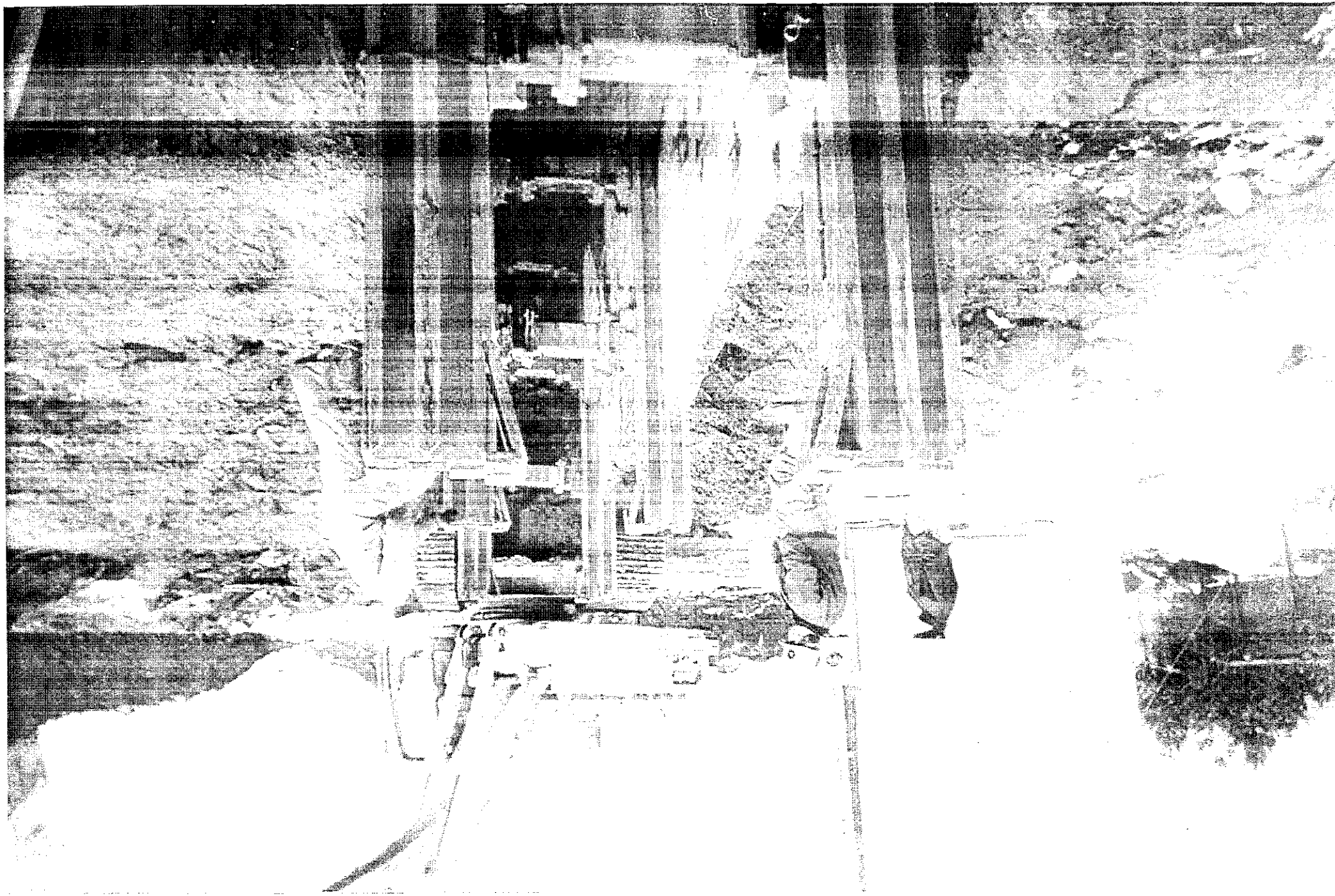

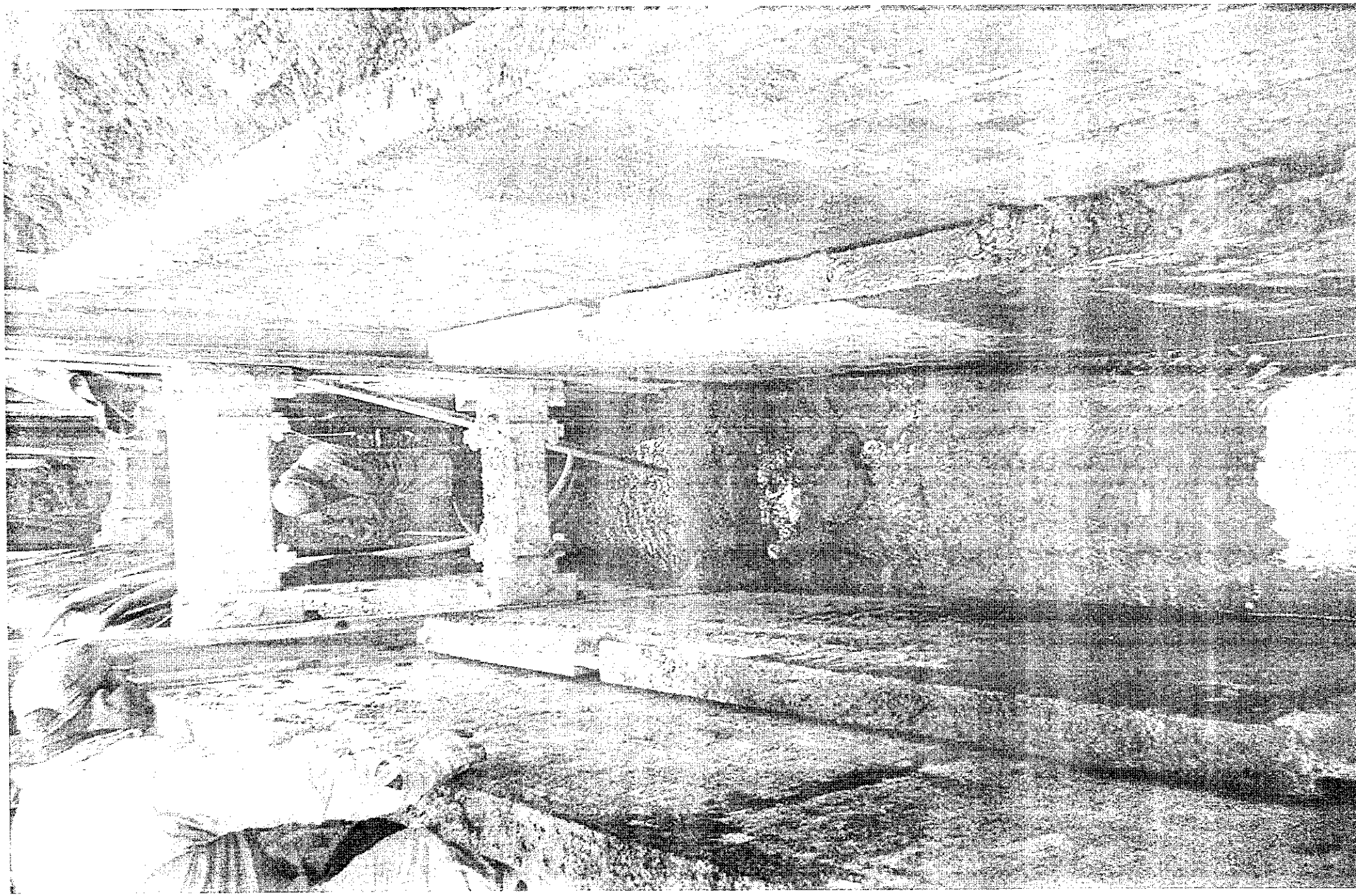

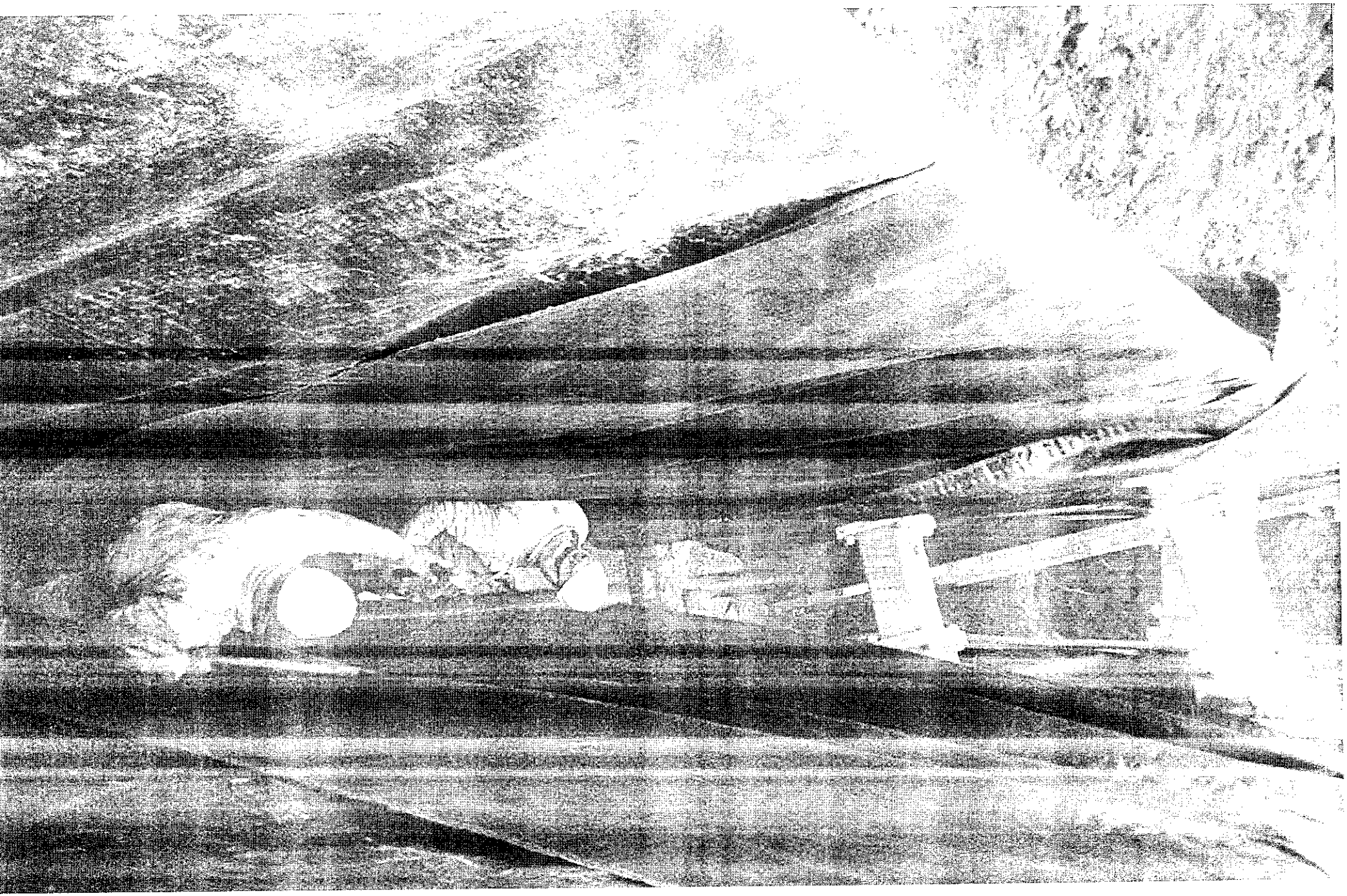

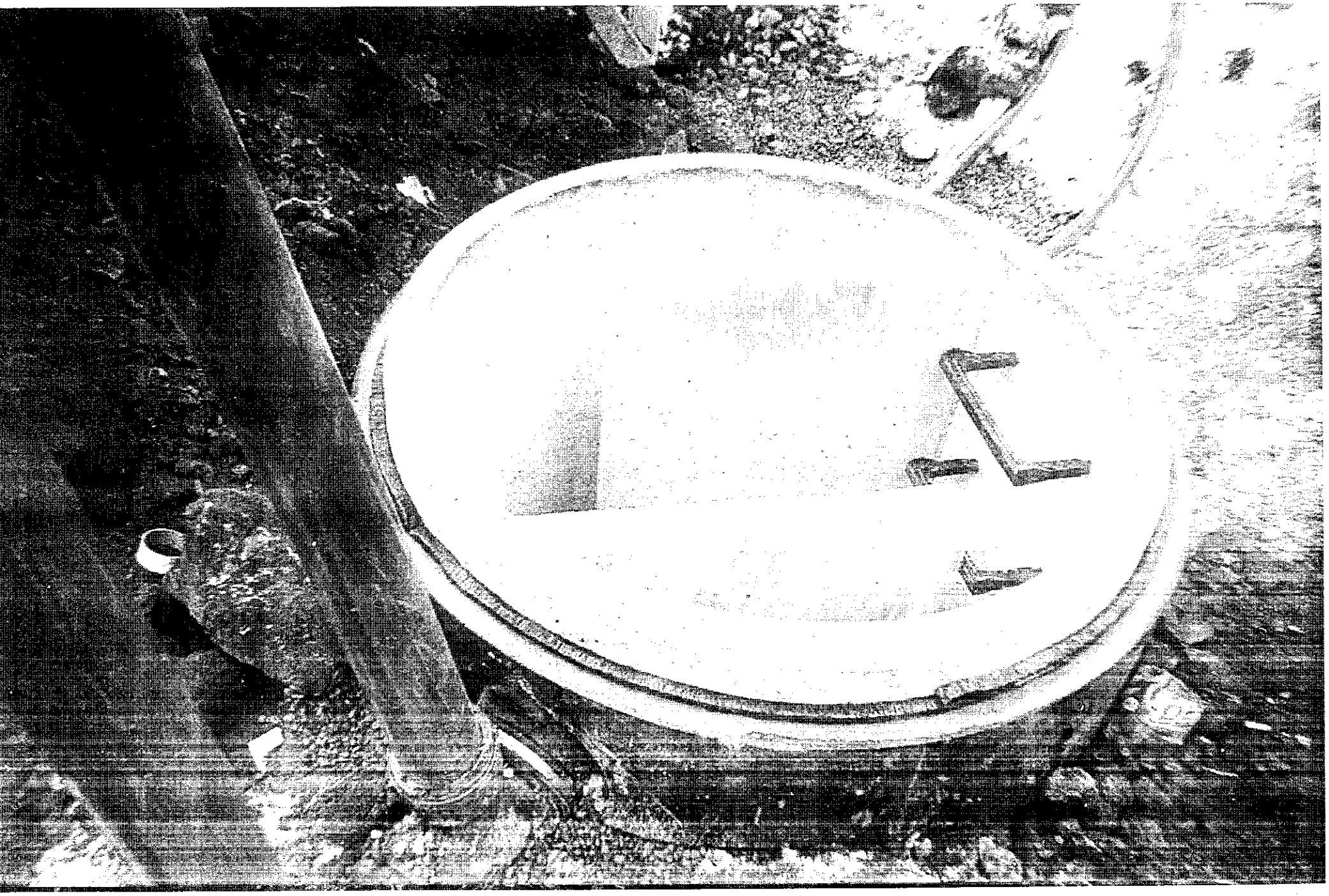

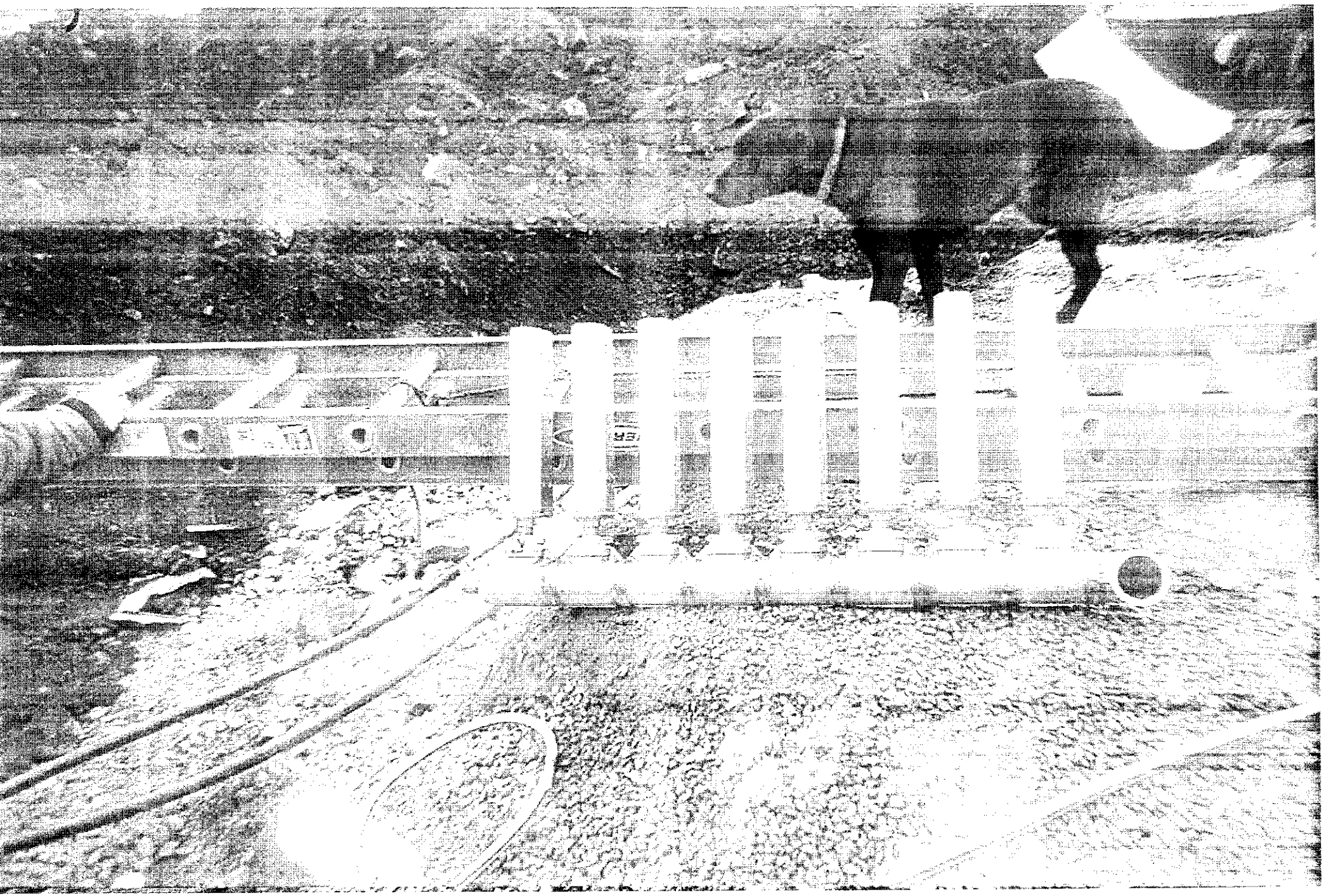

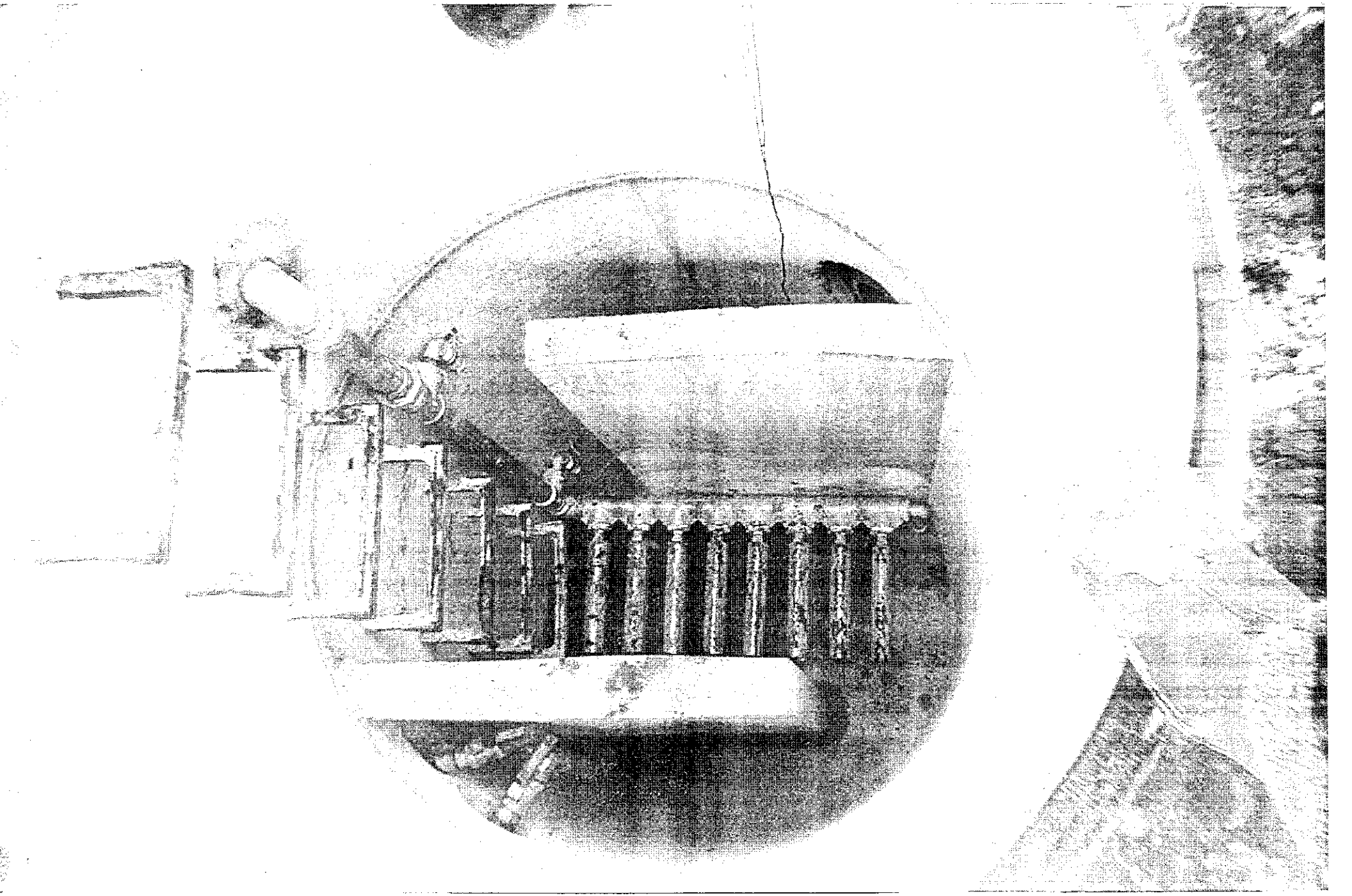

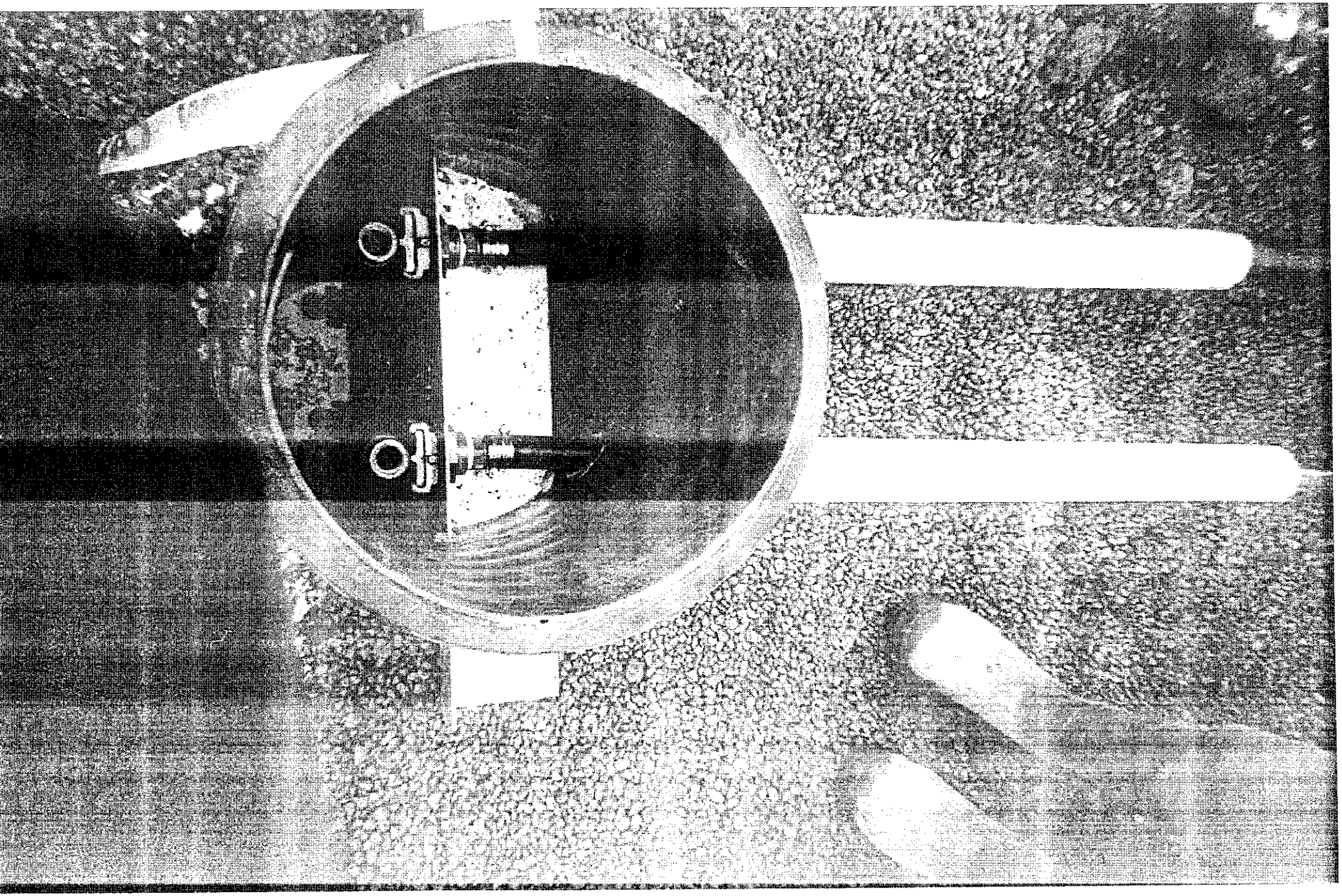

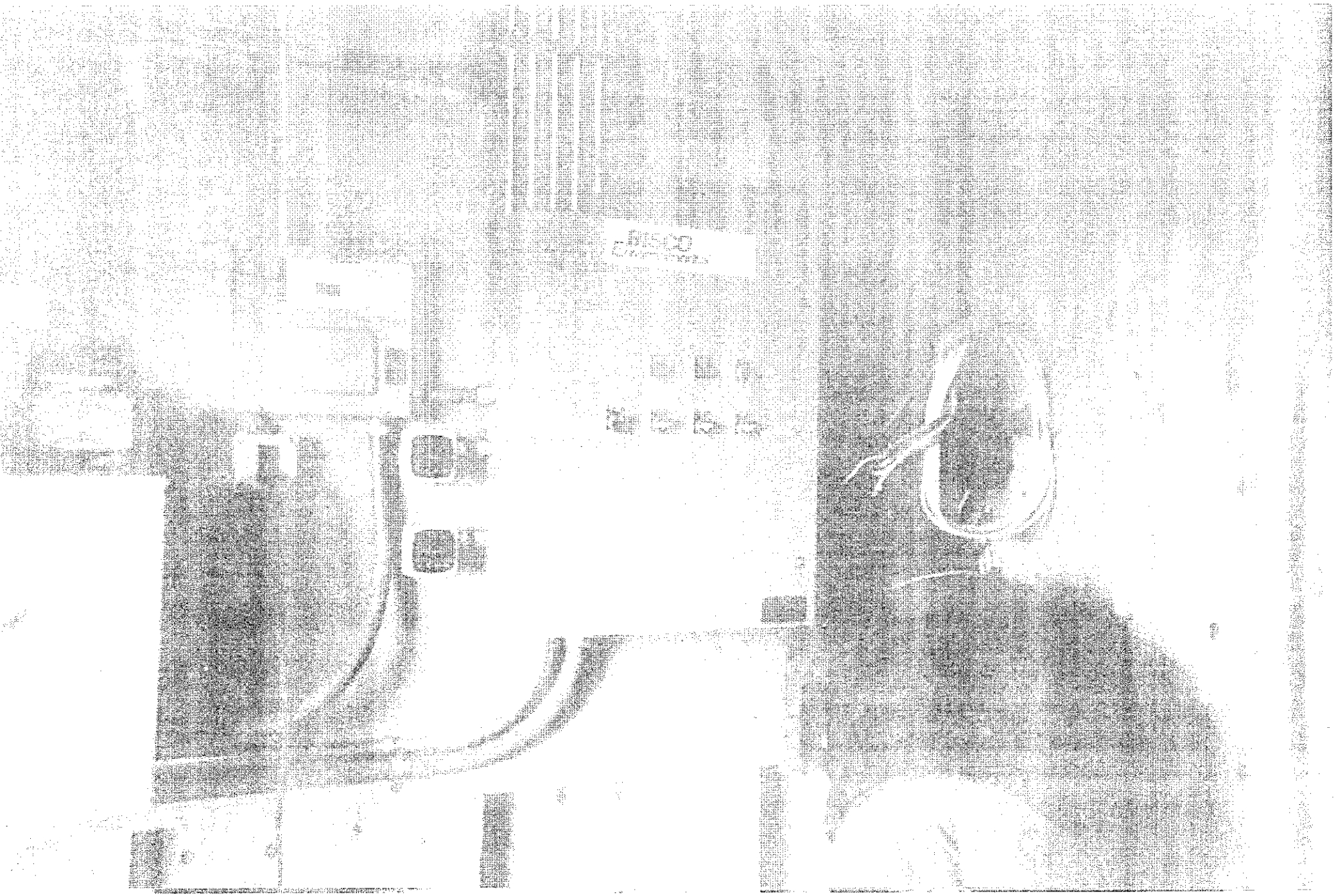

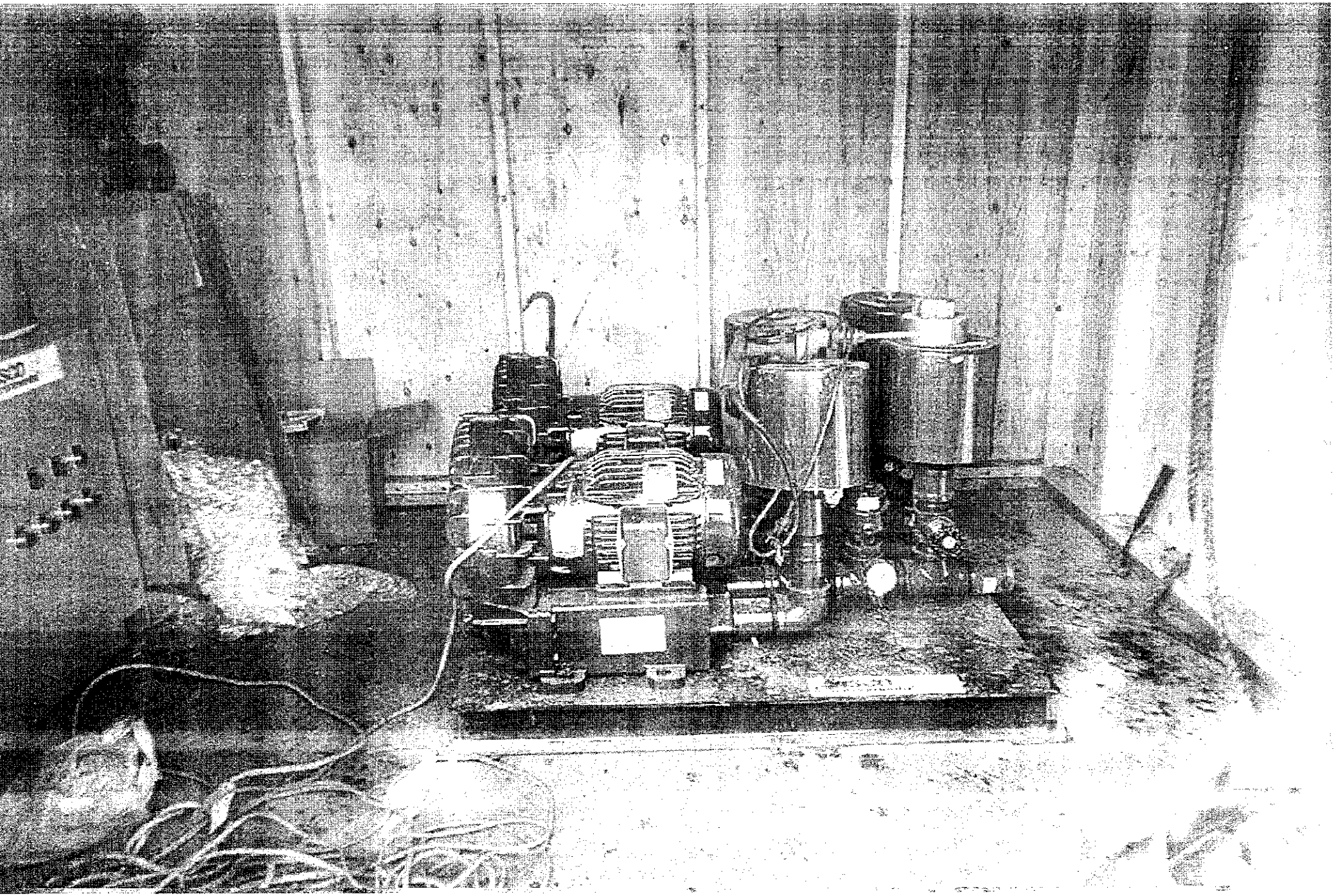

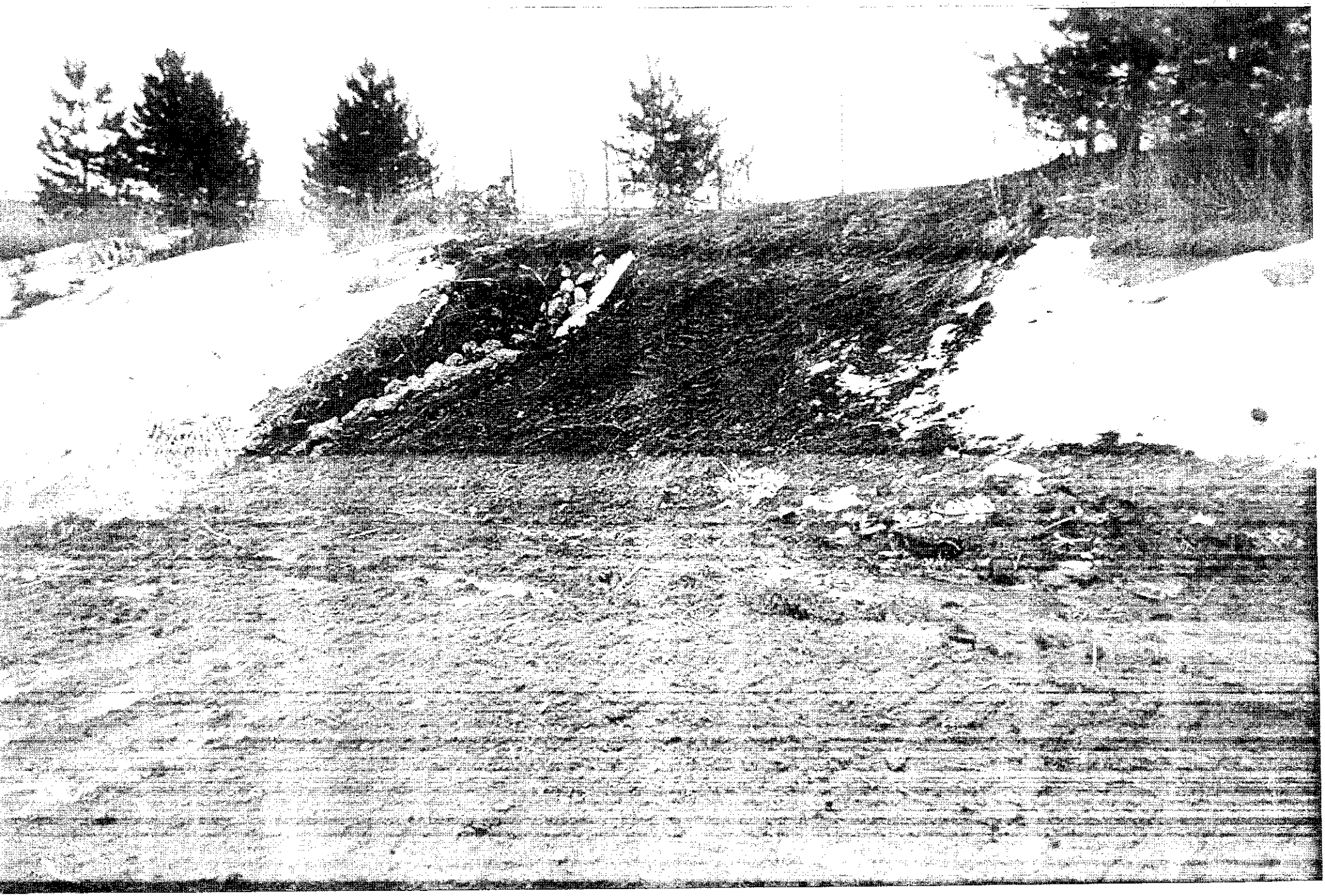

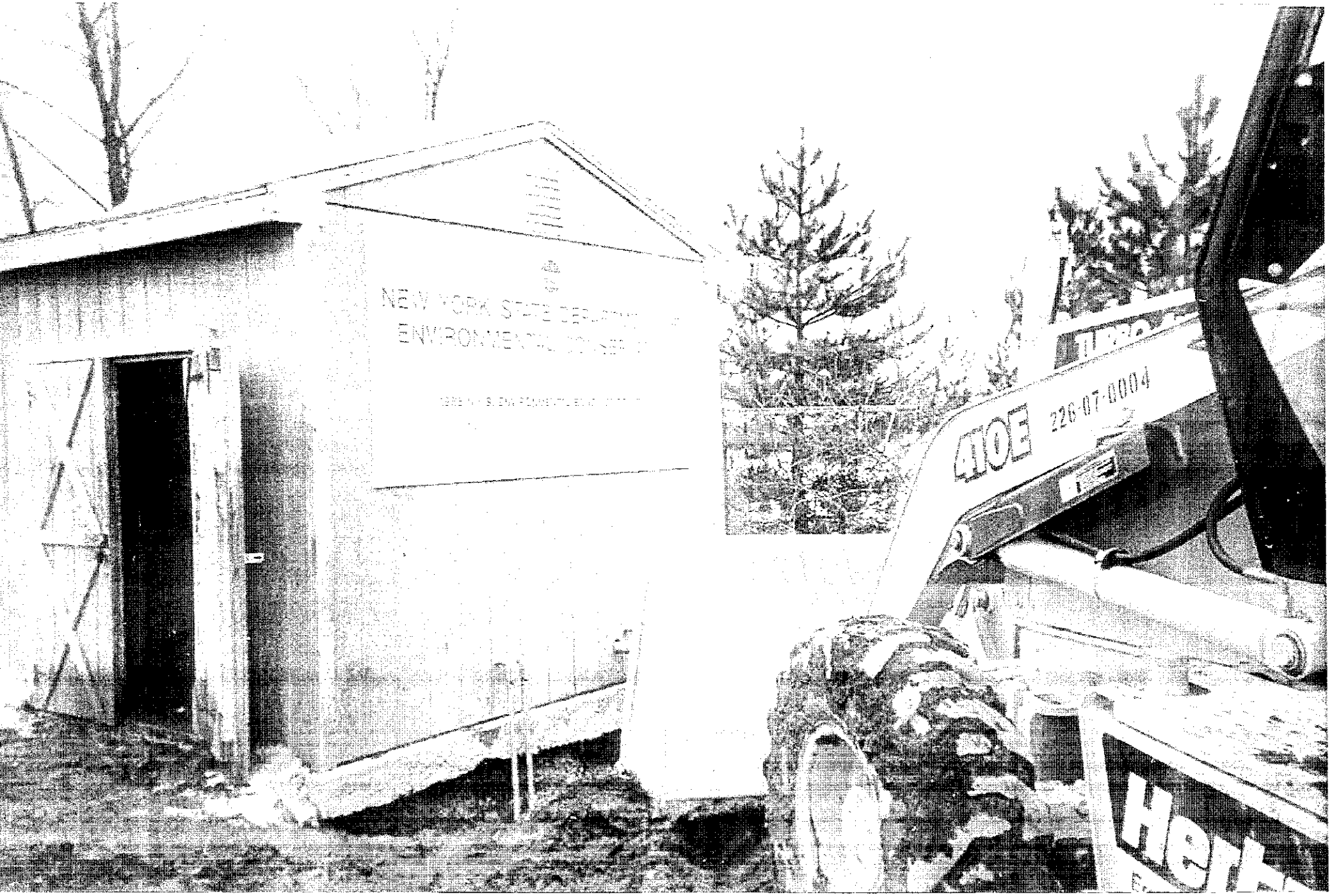
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410E
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New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services, 12th Floor
625 Broadway, Albany, New York 12233-7013
Phone: (518) 402-9814 • **FAX:** (518) 402-9819
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

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Mr. Robert McPeak
Department Manager
SCIENTECH NES, Inc.
44 Shelter Rock Road
Danbury, Connecticut 06810

cc: D. M'Call
file (c-1)

Dear Mr. McPeak:

Re: Site No. 6-33-045
Northeast Alloys & Metals
Contract No. D004178

The New York State Department of Environmental Conservation (NYSDEC) hereby forwards the executed Change Order No. 1 to the referenced contract between SCIENTECH NES, Inc. and the NYSDEC. The original contract was for the amount of $250,061.03. This change order increases the contract amount by $27,466.42, increasing the contract amount to $277,527.45. The contract time is increased in the change order from 120 days to 270 days.

If you have any questions, please contact me or Mr. Gerard Burke, Project Engineer, at (518) 402-9814.

Sincerely,

Robert C. Knizek

Robert C. Knizek, P.E.
Chief, Eastern Field Services Section
Bureau of Construction Services
Division of Environmental Remediation

Enclosure

cc: R. Lupe - NYSDEC, BPM
P. Ouderkirk - NYSDEC, Region 6
D. McCall - URS Greiner Woodward Clyde

Northeast Alloys & Metals
Site No. 6-33-045
State Contract No. D004178
Change Order No. 1

Change Order Amount: $27,466.42 Date of Issue:

Contractor's Name: SCIENTECH NES

Engineer's Name: URS Corporation

Change Order Items: This Change Order comprises eight (8) items as discussed below

I. CHANGE ORDER ITEMS:

A. Description of Change:

This change to the original contract is for *new* Item LS-8 – Snow Delays. The Contractor will be compensated for time lost due to delays caused by snow removal and reduced productivity due to snow, cold, and wintry weather conditions.

Drawing Reference:

Not Applicable

Specification Reference:

Not Applicable

Contract Pay Items:

New Pay Item No. LS-8 – "Snow Delay"

Reason for Change:

This change order item was originally discussed and approved by the Department at the Pre-Construction Meeting with the Contractor. It was determined that a delay of several months by the Department would move the construction phase of the project into the winter months. This item compensates the contractor for the lost time and productivity due to the delay of the project by snow and cold weather.

Cost:

The Department and the Contractor negotiated an average daily cost of $2,500 for construction based on actual time and materials. The units for this pay item (81 hours total) were based on the daily reports of time lost for snow delays as determined by the construction oversight. The total cost increase for this item is $2,500 per day x (81 hours / 8 hours per day) = $25,312.50. Attachment A includes additional information and backup for this change order item.

Add new pay item LS-8 - "Snow Delays," Lump Sum cost $25,312.50

Total **INCREASE** in Pay Item Cost = $25,312.50

B. Description of Change:

This change to the original contract is to increase the unit cost for construction of the groundwater collection trench, existing pay item UC-3.

Drawing Reference:

Contract Drawing No. 4 – Cross Sections

Specification Reference:

Section 02221 – Groundwater Collection Trench

Contract Pay Items:

Pay Item UC-3 – "Groundwater Collection Trench"

Reason for Change:

The actual quantity for trench construction (4,058 ft^2) is only 78% of the original bid estimate quantity (5,180 ft^2). Additionally, the site conditions and the smaller quantity made installation of the trench more difficult than anticipated. Therefore, in accordance with the Contract Documents, Section VIII, Article 11, the unit price for trench construction was renegotiated.

Cost:

The Department and the Contractor negotiated the unit price for construction of the trench based on an estimate of the actual time and materials required during construction. The unit cost for item UC-3 will be increased to $20.50 per square

foot. The actual quantity for this pay item will be reduced to 4,058 ft^2. The total for this pay item will increase to \$20.50/ft^2 x 4058 ft^2 = \$83,189. The net increase to the contract price is then \$83,189 - \$69,049.40 = \$14,139.60. Attachment B includes additional information and backup for this change order item.

Increase unit cost for Pay Item UC-3 - "Groundwater Collection Trench" to \$20.50 per square foot.

Decrease quantity for Pay Item UC-3 - "Groundwater Collection Trench" to 4,058 square feet.

Total **INCREASE** in the Pay Item cost = \$14,139.60

C. Description of Change:

This change to the original contract is to increase the unit cost for construction of the fence around the treatment system, existing pay item UC-5.

Drawing Reference:

Contract Drawing No. 3 – Proposed Site Construction

Specification Reference:

Section 01040, Article 1.6 – Fencing

Contract Pay Items:

Pay Item UC-5 – "Fencing"

New Pay Item No. UC-8 "Additional Fencing"

Reason for Change:

The location of the treatment building was moved due to site conditions. Based on the new location of the building, and at the request of the Department, a longer fence was installed than originally was intended. The actual length of fence (135 ft) is 211% of the original bid estimate quantity (64 ft). Therefore, the Contractor requested that the unit price of the fence be renegotiated in accordance with the Contract Documents, Section VIII, Article 11.

Cost:

The Department and the Contractor negotiated a unit price of $44.06 as a reasonable unit cost for the additional length of fence over and above 115% of the original bid quantity.

Based on the renegotiated unit cost, and the additional quantity at the original unit price, the total change order amount was determined as follows:

Additional 15% at original price: 9.6 feet @ $24.98 = $239.81
Additional length at revised unit price: 61.4 feet @ $44.06 = $2,705.84

Attachment C includes additional information and backup for this change order item.

Increase quantity for Pay Item UC-5 - "Fencing," to 73.6 feet.

Add new Pay Item UC-8 - "Additional Fencing," with a unit cost of $44.06 per foot, and a total quantity of 61.4 feet.

Total **INCREASE** in Pay Item cost = $2,945.65

D. Description of Change:

This change to the original contract is to increase the quantity for handling of the East Gate Area Soil, existing pay item UC-1.

Drawing Reference:

Contract Drawing No. 3 – Proposed Site Construction

Specification Reference:

Section 02220 – Earthwork
Section 02230 – Contaminated Materials

Contract Pay Items:

Pay Item UC-1 – "East Gate Area – Soil Excavation, Handling, and On-site Backfill of Soil"

Reason for Change:

The actual quantity of soil excavated and handled at the east gate area (427.5 cubic yards) is significantly more than the original bid estimate of 234 cubic yards. However, the additional quantity of soil did not significantly increase the cost to the Contractor. Therefore, the Contractor and the Department agreed that the additional cost for this item would be limited to the additional 15% at the original unit cost in accordance with the Contract Documents, Section VIII, Article 11.

Cost:

The additional quantity for this item is 15% of the original quantity; 234 cubic yards x 0.15 = 35.1 cubic yards @ $59.87 per cubic yard = $2,101.44.

Increase quantity for Pay Item UC-1 - "East Gate Area - Soil Excavation, Handling, and Onsite Backfill of Soil" to 269.1 cubic yards.

Total **INCREASE** in the Pay Item cost = $2,101.44

E. Description of Change:

This change to the original contract is to modify the quantity for construction of the gravity discharge line to reflect the actual number of units.

Drawing Reference:

Contract Drawing No. 3 – Proposed Site Construction
Contract Drawing No. 4 – Cross-Sections
Contract Drawing No. 5 – Miscellaneous Details Sheet 1 of 3

Specification Reference:

Section 02220 – Earthwork

Contract Pay Items:

Pay Item UC-4 – "Treated Groundwater Gravity Discharge"

Reason for Change:

The actual quantity for construction of the gravity discharge line (124 linear feet) is more than the original bid estimate of 110 linear feet. Therefore, in accordance with the Contract Documents, Section VIII, Article 11, the additional quantity for construction of the gravity discharge line will be paid at the original unit price.

Cost:

The additional quantity of discharge line constructed was 14 linear feet [124 – 110 lf]. Therefore, the total increase in cost is 14 linear feet @ $80.92 per linear foot = $1,132.88.

Increase quantity for Pay Item UC-4 - "Treated Groundwater Gravity Discharge" to 124 linear feet.

Total **INCREASE** in Pay Item cost = $1,132.88

F. Description of Change:

This change to the original contract is to modify the quantity of soil disposal to the actual quantity.

Drawing Reference:

Contract Drawing No. 3 – Proposed Site Construction

Specification Reference:

Section 02220 – Earthwork
Section 02230 – Contaminated Materials

Contract Pay Items:

Pay Item UC-2 – "East Gate Area – Offsite Disposal of Contaminated Soil"

Reason for Change:

Analysis of the excavated soil indicated that the contaminant concentrations were low enough to allow for onsite disposal of the soil. Therefore, no offsite disposal of soil was required.

Cost:

Based on the original pay item costs: 100 ton @ $174.58 per ton = $17,458.

Delete Pay Item UC-2 - "East Gate Area - Offsite Disposal of Contaminated Soil"

Total **DECREASE** in Pay Item cost = $17,458.00

G. Description of Change:

This change to the original contract is to modify the quantity for payment of Health and Safety to the actual quantity.

Drawing Reference:

Not Applicable

Specification Reference:

Section 01030 – Health and Safety

Contract Pay Items:

Pay Item UC-7 – "Health and Safety"

Reason for Change:

Based on the shortened duration of activities in the area of contaminated soil, it was not necessary to conduct health and safety activities for as long as originally estimated.

Cost:

The actual quantity for Health and Safety as determined by URS and the Contractor was 57 mandays. The quantity of Health and Safety in the original contract was 104 mandays, for a difference of 47 mandays that were not used. At the contract price of $59.95 per manday, the net decrease in the contract price is then 47 days @ $59.95 per day = $2,817.65.

Decrease quantity for Pay Item UC-7 - "Health and Safety" to 57 mandays.

Total **DECREASE** in the Pay Item cost = $2,817.65

H. Description of Change:

This change to the original contract is for *new* Item LS-9 – Additional Paving. The Contractor will be compensated for additional paving costs associated with the delay of the project until the winter months.

Drawing Reference:

Contract Drawing No. 5 – Miscellaneous Details, Sheet 1 of 3

Specification Reference:

Not Applicable

Contract Pay Items:

New Pay Item No. LS-9 – "Additional Paving"

Reason for Change:

A delay of the project for several months by the Department moved the construction phase of the project into the winter months. Because the equipment and materials required to repair the cut across Pitcher Street were not available during the winter months, the Contractor was required to repair the street temporarily, and then return to the site the following year to permanently repair the street. This item compensates the Contractor for the additional costs associated with repairing Pitcher Street.

Cost:

The Department and the Contractor negotiated a lump sum price of $2,110 for additional expenses associated with paving. Attachment D includes additional information and backup for this change order item.

Add new pay item LS-9 – "Additional Paving," Lump Sum cost $2,110.

Total **INCREASE** in Pay Item Cost = $2,110.

II. CHANGE ORDER NO. 1 SUMMARY

A.	*New* Pay Item LS-8 – Snow Delay	$ 25,312.50
B.	Pay Item UC-3 – Groundwater Collection Trench	$ 14,139.60
C.	Pay Item UC-5 – Fencing *New* Pay Item UC-8 - Additional Fencing	$ 239.81 $ 2,705.84
D.	Pay Item UC-1 – East Gate Area – Soil Excavation	$ 2,101.44
E.	Pay Item UC-4 – Treated Groundwater Gravity Discharge	$ 1,132.88
F.	Pay Item UC-2 – East Gate Area – Offsite Disposal of Soil	-$ 17,458.00
G.	Pay Item UC-7 – Health and Safety	-$ 2,817.65
H.	*New* Pay Item LS-9 – Additional Paving	$ 2,110.00
TOTAL		$27,466.42

III. CHANGE IN CONTRACT PRICE

Original Contract Price:	$250,061.03
Contract Price after previous approved Change Orders:	$250,061.03
Net Increase due to this Change Order:	$ 27,466.42
New Contract Price including this Change Order:	$277,527.45

IV. CHANGE IN CONTRACT TIME

	CALENDAR DAYS	COMPLETION DATE
Original Contract Time:	120	April 3, 2001
Contract Time after previous Change Order:	120	April 3, 2001
Net due to this Change Order:	150	
New Contract Time including this Change Order:	270	August 31, 2001

It is understood and agreed that, unless expressly so stated above, the work herein authorized will not extend the time for the completion of the contract.

It is understood and agreed that this change order represents full and complete compensation for all work described herein.

This work is to be performed in accordance with the terms of the contract and original plans and specifications, except as herein modified. It is understood and agreed that this order shall be deemed executory only to the extent of moneys available and no liability shall be incurred by the State beyond the moneys available for the purpose.

CONTRACT NUMBER D004178

IN WITNESS WHEREOF, representatives of the Department and the Contractor have executed this Contract on the day and year written beneath their respective signatures. The signatory for the Department provides the following Agency Certification: "In addition to the acceptance of this contract, I also certify that original copies of this signature page will be attached to all other exact copies of this contract."

Recommended:

By: Michael J. Hurley

Title: DIR DES

Date: 9/13/01

FOR DEPARTMENT

By: Donna M. Pritchett

Title: Asst Budget Analyst

Date: 9/24/01

FOR ENGINEER

By: Robert C. Krupk PE.

Title: EE-3

Date: SEP 10 2001

FOR CONTRACTOR

By: Robert E McPeek

Title: Dept. Mgr.

Date: 9/4/01

APPROVED AS TO FORM
FOR ATTORNEY GENERAL
OCT 04 2001
PETER FAVRETTO
ASSOCIATE ATTORNEY

Approved as to Form:

By: _____
Attorney General

Date: _____

Approved:

By: OCT 18 2001
State Comptroller

Date: Thomas R. Yannone

) SS:
COUNTY OF)

STATE OF)
) SS:
COUNTY OF)

On the _____ day of _____, 19 , before me personally came _____, to me known, who duly sworn, did depose and say that (s)he resides in _____, New York: that (s)he is _____ of _____, the corporation described in and which executed the above instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that (s)he signed his/her name thereto by the same authority.

_____
Notary Public

STATE OF)
) SS:
COUNTY OF)

On the _____ day of _____, 19 , before me personally came _____, to me known, who duly sworn, stated that (s)he is a member of employee of _____, the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

_____
Notary Public

STATE OF Connecticut)
) SS:
COUNTY OF Fairfield)

On the 4th day of September 2001, before me personally came Robert E. McLeod, Jr., to me known, who duly sworn, stated that (s)he is a member of employee of Scientech Inc., the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

Notary Public

My Commission Expires
7/31/05

ATTACHMENT A

BACKUP AND COST JUSTIFICATION FOR SNOW DELAYS

URS

April 19, 2001

Mr. Robert E. McPeak, Jr., P.E., LEP
SCIENTECH, Inc.
44 Shelter Rock Road
Danbury, CT 06810

RE: Northeast Alloys and Metals Site
Change Order for Snow Delays

Dear Mr. McPeak:

URS and the Department have reviewed your letters dated November 21, 2000 and March 26, 2001, regarding a change order for time lost due to snow delays. The concept of the change order for snow delays was discussed and approved by the Department both at the project pre-construction meeting, and in a letter dated December 5, 2000.

Table 1 (attached) shows the daily cost that originally was requested in your November 21 letter. Based on that letter, and our construction oversight, URS has revised the quantities to reflect a reasonable estimate of your actual use at the site during construction. Secondly, URS compared your unit costs to published construction costs and our past experience. Considering the items that were not included in the table (e.g., dewatering pumps), your revised cost proposal of $2,500 per day appears to be fair and reasonable.

Based on the total project snow delay of 81 hours, the total amount of this change order item will be (81 hours / 8 hours per day)($2500 per day) = $25,312.50. Based on URS' recommendation, the Department has approved this item, and it will be included on the change order currently being prepared by URS.

If you have any questions or require any additional information, please contact us.

Sincerely,

URS Corporation

Donald A. McCall, P.E.
Project Engineer

cc: P. Ouderkirk, P.E., NYSDEC – Region 6
D. Rothman, P.E., URS
File: 35618 (C-1)

URS Corporation
282 Delaware Avenue
Buffalo, NY 14202-1805
Tel: 716.856.5636
Fax: 716.856.2545

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Table 1 - Daily Rate for Snow Delays
Northeast Alloys and Metals Site

Item	Scientech Requested[1]					Approved	
	Monthly Cost	Daily Cost per Unit	Fee	Quantity	Total Daily Cost	Quantity	Daily Cost
Trailers	$ 495	$ 16.50	10%	2	$ 36	2	$ 36
Portolet	$ 75	$ 2.50	10%	1	$ 3	1	$ 3
Potable Water	$ 75	$ 2.50	10%	1	$ 3	-	$ -
Trash Pickup	$ 75	$ 2.50	10%	1	$ 3	-	$ -
Water Truck	$ 4,000	$ 133.33	10%	1	$ 147	-	$ -
Phone, fax, copier	$ 400	$ 13.33	10%	2	$ 29	1	$ 15
Trailer Electricity	$ 125	$ 4.17	10%	2	$ 9	2	$ 9
Snow Removal	$ 400	$ 13.33	10%	1	$ 15	-	$ -
Travel Costs	$ 1,500	$ 50.00	10%	2	$ 110	2	$ 110
Excavator (incl. operation)	$ 6,450	$ 215.00	10%	1	$ 237	2	$ 473
Roller (incl. operation)	$ 5,940	$ 198.00	10%	1	$ 218	-	$ -
Loader (incl. operation)	$ 6,150	$ 205.00	10%	1	$ 226	1	$ 226
Security	$ 4,110	$ 137.00	5%	1	$ 144	-	$ -
Shoring	$ 16,760	$ 1,117.33	10%	1	$ 1,229	-	$ -
per diem	$ 3,000	$ 100.00	10%	2	$ 220	2	$ 220
Site Super (Gauss)	$ 4,432	$ 221.60	15%	1	$ 255	1	$ 255
Site Technician (Glista)	$ 4,198	$ 209.90	15%	1	$ 241	1	$ 241
Operators	$ 5,984	$ 299.20	15%	3	$ 1,032	-	$ -
Laborers	$ 3,581	$ 179.05	15%	2	$ 412	3	$ 618
Site Vehicles	$ 900	$ 45.00	10%	2	$ 99	2	$ 99
Tank	$ 1,050	$ 35.00	10%	1	$ 39	-	$ -
Stripper	$ 2,000	$ 66.67	10%	1	$ 73	-	$ -
Project Management	$ 390	$ 19.50	15%	1	$ 22	1	$ 22
Health and Safety	$ 6,234	$ 207.80	10%	1	$ 229	-	$ -
Total					$ 5,029		**$ 2,327**

1. These unit costs were originally submitted in Scientech's November 21, 2000 letter. The total daily cost was revised down to $2,500 per day in their March 26, 2001 letter.

J:\35618.04\Excel\[Snow costs.xls]snow

JOB NO.: 05.35618.06
MADE BY: D. McCall
Date: 04/18/01

PROJECT: Northeast Alloys and Metals Site
SUBJECT: Cost Estimate for Snow Delays

Problem: Justify the reasonableness of the change order request submitted by the Contractor (NES), for additional costs associated with snow delays. This is the cost to the Contractor for being at the site when unable to work due to the weather conditions and/or the increased cost of doing work in inclement weather.

References:

1. R.S. Means Co., Inc., *Site Work and Landscape Cost Data*, 15th Annual Edition, 2001.
2. URS-NYSDEC Standby Contract Rates

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1. **Determine the Items Associated with the Snow Delays:**

   The letter submitted by Scientech dated November 21, 2000 included an itemized list of all items and equipment at the site that would be associated with the cost delay. This list included monthly costs, daily costs, and quantities, for the determination of a daily unit cost of $5,029 as shown on Table 1.

   Based on URS' oversight of the actual construction activities, Scientech's table was revised to include only those items that actually were used for construction during the time of the snow delay. This also is shown on Table 1 under the "Approved" column. Based on these quantities, a total daily cost of $2,327 per day was determined.

2. **Determine Reasonableness of Unit Costs**

   For each of the items included in the snow delay, URS used Means and other sources to justify the individual unit costs. All of the costs

submitted by Scientech were within 15% of the published costs, and therefore were determined to be fair and reasonable.

3. Daily Cost

Scientech's letter dated March 26, 2001 requested a revised daily cost of $2,500 for snow delays.

Based on the $2,327 cost determined by URS, and considering the items actually used at the site that were not included on the list (e.g., dewatering pumps), the proposed cost of $2,500 per day was determined to be fair and reasonable.

SCIENTECH

March 26, 2001
ES-2385

Mr. Donald McCall
URS Greiner Woodward Clyde
282 Delaware Avenue
Buffalo, NY 14202-1805

cc: D. Rothman
D. McCall
file (c-1)

Subject: Project Change Order Request No. 4
Former Northeast Metals and Alloys
Utica, NY

Dear Don:

SCIENTECH is submitting the following information to request a Change Order for the subject project. This change is intended to provide additional compensation to cover difficult conditions and project schedule extensions caused by cold weather and snow encountered during the course of the work. These conditions were unexpected and encountered as a result of delays in obtaining project funding internally within the NYDEC.

Following our review of actual additional expenditures related to these cold weather delays, we are hereby requesting a change order amount of $2500.00 for each day of delay. Our current records indicate that Mr. Wagner has authorized a total of 81 hours (or 10.125 days) of delay time. At the suggested rate, this would generate a total Change Order amount of $ 25,312.50.

Please feel free to call me if you nave any questions or require any additional information.

Sincerely,
SCIENTECH, Inc.

Robert E. McPeak, Jr., P.E., LEP
Department Manager
Environmental Services

cc P. Ouderkirk
K. Cyr

44 Shelter Rock Road
Danbury, CT 06810
Tele:(203) 798-9000

NES
A SCIENTECH, INC., Company

November 21, 2000
Refer to: ES-2280

Mr. Gerard Burke, P.E.
New York State Department of Environmental Conservation
Bureau of Construction Services – Room 267
50 Wolf Road
Albany, NY 12233

Subject: Former Northeast Alloys and Metals Site, Utica, NY
Contract Number D-004178
Change Order No. 1

Reference: Letter from R. McPeak to G. Burke dated November 2, 2000

Dear Mr. Burke:

As requested during our telephone conversations on November 7, and November 14, 2000, we are providing additional information regarding the costs discussed in the referenced letter for Change Order 1 on the subject project. It is our understanding that the material and labor costs related to providing and installing the heat trace tape and insulation will be paid on a cost plus fee basis as permitted in the contract documents.

We have also provided additional detail regarding daily site operational costs that will be incurred during delays caused by working in the colder winter months. The referenced letter estimated 3.75 days of delay time; we understand that the actual delay days will be determined at a later date. Once determined, the number of actual delay days would be multiplied by the daily total operational cost ($5,029) to calculate the total delay cost.

Costs are detailed in the attached Microsoft Excel spread sheets. You will note that the sheets provide detailed material and installation costs for the heat trace and insulation as well as detail for the cost of daily delays. Total values are slightly lower than those in the referenced letter because the fee percentages have been adjusted and are now in compliance with those allowed in the contract documents.

Post-it® Fax Note 7671	Date 12/11/00	# of pages ▶ 5
To Dan Rothman	From Gerard Burke	
Co./Dept.	Co. NYSDEC	
Phone #	Phone # (518) 457-9285	
Fax # (716) 856-2545	Fax #	

Please feel free to call me if you have any questions or require any additional information.

Sincerely,

SCIENTECH NES, INC.

Robert E. McPeak, Jr., P.E., LEP
Senior Department Manager
Environmental Services

Enclosure

cc: P. Ouderkirk
K. Cyr

Daily Delay Costs
For Change Order 1
Northeast Alloys & Metals, Utica, NY

Item	Monthly cost	Daily cost	Fee %	Number	Days delay	Extended Cost
Trailers	495	$16.50	10%	2	1	$36
Portolet	75	$2.50	10%	1	1	$3
Potable water	75	$2.50	10%	1	1	$3
Trash pickup	75	$2.50	10%	1	1	$3
Water truck	4000	$133.33	10%	1	1	$147
Phone, fax, copier etc.	400	$13.33	10%	2	1	$29
Trailer electricity	125	$4.17	10%	2	1	$9
Snow removal	400	$13.33	10%	1	1	$15
Travel costs	1500	$50.00	10%	2	1	$110
Excavator (incl. operation)	6450	$215.00	10%	1	1	$237
Roller (incl. operation)	5940	$198.00	10%	1	1	$218
Loader (incl. operation)	6150	$205.00	10%	1	1	$226
Security	4110	$137.00	5%	1	1	$144
Shoring	16760	$1,117.36	10%	1	1	$1,229
per diem	3000	$100.00	10%	2	1	$220
Gauss (Site Super)	4432	$221.60	15%	1	1	$255
Glista (Site Technician)	4198	$209.92	15%	1	1	$241
operators	5984	$299.20	15%	3	1	$1,032
laborers	3581	$179.04	15%	2	1	$412
Site vehicles	900	$45.00	10%	2	1	$99
Tank	1050	$35.00	10%	1	1	$39
Stripper	2000	$66.67	10%	1	1	$73
Project Management	390	$19.50	15%	1	1	$22
Health and Safety	6234	$207.80	10%	1	1	$229
				Total Delay cost per day		$5,029
Days Delay	1					

Heat Trace Materials Costs
for Change Order 1
Northeast Alloys and Metals, Utica, NY

Item	unit	number	unit cost	fee	Total
Heat trace	LF	600	$5.00	10.00%	$3,300.00
Insulation	LF	400	$1.00	10.00%	$440.00
Tank Heaters	EA	3	$100.00	10.00%	$330.00
Stripper Heater	LF	50	$5.00	10.00%	$275.00
Subcontractor panel (Incl. Wiring stripper heater, panel and tank heaters)	LS	1	2000	5.00%	$2,100.00
			Total		$6,445.00

Heat Trace Labor Costs
for Change Order 1
Northeast Alloys and Metals, Utica, NY

Personnel	Labor cost	Labor fee	Labor rate	hours	Total
Glista	26.24	15.00%	$30.16	32	$966.63
Laborer	22.38	15.00%	$25.74	32	$823.58
				Total	$1,789.22

ATTACHMENT B

BACKUP AND COST JUSTIFICATION FOR GROUNDWATER COLLECTION TRENCH

URS

April 23, 2001

Mr. Robert E. McPeak, Jr., P.E., LEP
SCIENTECH, Inc.
44 Shelter Rock Road
Danbury, CT 06810

RE: Northeast Alloys and Metals Site
Change Order for Groundwater Collection Trench

Dear Mr. McPeak:

URS and the Department have reviewed your letter dated April 5, 2001 regarding a change order for construction of the groundwater collection trench. Because the actual quantity of trench construction (4058 ft^2) is only 78% of the original bid estimate (5180 ft^2), the unit cost can be re-negotiated in accordance with the contract documents.

URS reviewed the costs submitted in your request, and compared these costs to both published construction costs and our past experience. Based on our review, the change order request appears to be fair and reasonable. The unit price for construction of the trench will be increased from $13.33 to $20.50 per square foot. This change order will result in a $14,140 increase to the contract cost.

Based on URS' recommendation, the Department has approved this item, and it will be included on the change order currently being prepared by URS.

If you have any questions or require any additional information, please contact us.

Sincerely,

URS Corporation

Donald A. McCall, P.E.
Project Engineer

cc: P. Ouderkirk, P.E., NYSDEC – Region 6
D. Rothman, P.E., URS
File: 35618 (C-1)

URS Corporation
282 Delaware Avenue
Buffalo, NY 14202-1805
Tel: 716.856.5636
Fax: 716.856.2545

JOB NO.: 05.35618.06
MADE BY: D. McCall
Date: 04/18/01

PROJECT: Northeast Alloys and Metals Site
SUBJECT: Cost Estimate for Additional Trench Installation Cost

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Problem: Justify the reasonableness of the change order request submitted by the Contractor (NES), for additional costs associated with installation of the groundwater collection trench.

References:

1. R.S. Means Co., Inc., *Site Work and Landscape Cost Data*, 15th Annual Edition, 2001.
2. URS-NYSDEC Standby Contract Rates

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1. **Determine the Items Associated with the Trench Installation:**

   The letter submitted by Scientech dated April 5, 2001 requested a change order amount of $14,140 to cover 6 additional days of work. Based on our oversight of the construction activities, URS agreed that the 6 additional days was reasonable.

   To justify the cost requested, URS went back to the table that Scientech submitted for the snow delay. This table included an itemized list of all items and equipment at the site that would be associated with the cost delay. Based on the equipment used in the construction of the trench, URS determined a daily rate of $3,350 for trench construction. These costs are shown on Table 1. Items included in the trench construction are indicated under the "Approved" column.

2. **Determine Reasonableness of Unit Costs**

   For each of the items included in the trench construction cost, URS used Means and other sources to justify the individual unit costs. All of the costs submitted by Scientech were within 15% of the published costs, and therefore were determined to be fair and reasonable.

3. Daily Cost

Scientech's letter dated March 26, 2001 requested a $14,140 cost increase.

Based upon the daily rate of $3,350 as determined above, URS determined a cost of ($3,350 x 6 days) = $20,100. Therefore, the request submitted by Scientech appears to be fair and reasonable.

Table 1 - Daily Rate for Trench Construction
Northeast Alloys and Metals Site

Item	Scientech Requested					Approved	
	Monthly Cost	Daily Cost per Unit	Fee	Quantity	Total Daily Cost	Quantity	Daily Cost
Trailers	$ 495	$ 16.50	10%	2	$ 36	2	$ 36
Portolet	$ 75	$ 2.50	10%	1	$ 3	1	$ 3
Potable Water	$ 75	$ 2.50	10%	1	$ 3	-	$ -
Trash Pickup	$ 75	$ 2.50	10%	1	$ 3	-	$ -
Water Truck	$ 4,000	$ 133.33	10%	1	$ 147	-	$ -
Phone, fax, copier	$ 400	$ 13.33	10%	2	$ 29	-	$ -
Trailer Electricity	$ 125	$ 4.17	10%	2	$ 9	-	$ -
Snow Removal	$ 400	$ 13.33	10%	1	$ 15	-	$ -
Travel Costs	$ 1,500	$ 50.00	10%	2	$ 110	-	$ -
Excavator (incl. operation)	$ 6,450	$ 215.00	10%	1	$ 237	2	$ 473
Roller (incl. operation)	$ 5,940	$ 198.00	10%	1	$ 218	-	$ -
Loader (incl. operation)	$ 6,150	$ 205.00	10%	1	$ 226	1	$ 226
Security	$ 4,110	$ 137.00	5%	1	$ 144	-	$ -
Shoring	$ 16,760	$ 1,117.33	10%	1	$ 1,229	1	$ 1,229
per diem	$ 3,000	$ 100.00	10%	2	$ 220	2	$ 220
Site Super (Gauss)	$ 4,432	$ 221.60	15%	1	$ 255	1	$ 255
Site Technician (Glista)	$ 4,198	$ 209.90	15%	1	$ 241	1	$ 241
Operators	$ 5,984	$ 299.20	15%	3	$ 1,032	-	$ -
Laborers	$ 3,581	$ 179.05	15%	2	$ 412	3	$ 618
Site Vehicles	$ 900	$ 45.00	10%	2	$ 99	1	$ 50
Tank	$ 1,050	$ 35.00	10%	1	$ 39	-	$ -
Stripper	$ 2,000	$ 66.67	10%	1	$ 73	-	$ -
Project Management	$ 390	$ 19.50	15%	1	$ 22	-	$ -
Health and Safety	$ 6,234	$ 207.80	10%	1	$ 229	-	$ -
Total					$ 5,029		**$ 3,350**

J:\35618.04\Excel\[Snow costs.xls]trench

SCIENTECH

April 5, 2001
ES-2393

RECEIVED
URS Greiner Woodward Clyde

JOB # 35618

cc: D. Rothman
D. McCall
file (c-1)

Mr. Donald McCall
URS Greiner Woodward Clyde
282 Delaware Avenue
Buffalo, NY 14202-1805

Subject: Project Change Order Request
Former Northeast Metals and Alloys
Utica, NY

Reference: Letter to D. McCall from R. McPeak dated March 15, 2001 (ES-2373)

Dear Don:

SCIENTECH is submitting the following details in response to your requests for more information regarding the Change Order for trenching contract item (UC-3).

The referenced letter indicated that significant delays were encountered during installation of the system trench. Our original schedule included approximately 14 business days to install the trench and the collection system. The actual installation began on January 17, and ended on about February 14 bringing the duration of the installation work to a total of 20 business days. SCIENTECH incurred the following additional expenses:

Labor	$6,260.00 (2 Operators, 1 Superintendent, 2 Laborers)
Equipment Rental	$6,830.00 (1 Truck, 2 Excavators, Trenching System, Loader)
Travel/Perdiem	$ 750.00 (2 men, 6 days)
Utilities	$ 300.00 (Trailers, Power, Telephone, Portolet, etc.)
	$14,140.00

This would bring the total additional amount to $14,140.00. When added to the original Line Item UC-3 amount of $69,049.40, this brings the new total of the line item to $83,189.40. You will note that my total price of $82,783.20 for Item UC-3 was incorrect in the Referenced letter. This new total agrees correctly with the revised unit price of $20.50 per square foot (i.e., $83,189.40/4058 sf = $20.50/sf).

We anticipate this will provide the additional detail needed to proceed with the processing of the project Change Order. If you have any questions or need any additional information, please feel free to call me at 203-796-5229.

Sincerely,
SCIENTECH, Inc.

Robert E. McPeak, Jr., P.E., LEP
Department Manager
Environmental Services

cc P. Ouderkirk
K. Cyr

g:\dept020\3729 - northeast alloys utica, ny\correspondence\es-2393.doc

SCIENTECH

March 15, 2001
ES-2373

Mr. Donald McCall
URS Greiner Woodward Clyde
282 Delaware Avenue
Buffalo, NY 14202-1805

Subject: Project Change Order Request
Former Northeast Metals and Alloys
Utica, NY

cc: D. Rothman
D. McCall
file (c-1)

Dear Don:

Based on our conversations during the weekly project status meeting held on February 21, 2001 SCIENTECH is submitting the following information to request a Change Order for the subject project based on field changes and unforeseen field conditions which extended the project schedule and created additional project expense.

First, we are requesting a revised unit price for the trench work as permitted in the contract documents in Section VIII, Article 11 paragraph 11.2.5. The final quantity of trenching installed varied more than 15% from the original estimated quantity. The original bid estimate included 5,180 SF of trench and the actual final quantity was 4,058 SF. This reduction in actual quantities created a higher final unit price for the work item by reducing the advantages realized with economy of scale.

In addition, significant delays were encountered while installing the trench resulting from the need to deal with a variety of waste materials in the area of the excavation as well as the presence of groundwater at a higher elevation and in much greater quantities than expected (based on information provided in the Limited Site Data potion of the bid documents). We encountered significant difficulty removing this water from the excavation and in many cases delayed work activities while water was removed from the work trench. These wet conditions also made it extremely difficult to work with the ICON portable trench shoring system, a situation which also extended the completion time.

Based on the reduction in quantity and the described difficulties, we request a revision of the item unit price from $13.33 per SF as bid to a final unit price of $20.50 per SF. This unit price revision would adjust the total price of Item UC-3 to $82,783.20.

Please consider this correspondence as our initial request for a project Change Order. If you have any questions or need any additional information please feel free to call me at 203-796-5229.

Sincerely,
SCIENTECH, Inc.

Robert E. McPeak, Jr., P.E., LEP
Department Manager
Environmental Services

cc P. Ouderkirk
K. Cyr

ATTACHMENT C

BACKUP AND COST JUSTIFICATION FOR ADDITIONAL FENCING

URS

April 23, 2001

Mr. Robert E. McPeak, Jr., P.E., LEP
SCIENTECH, Inc.
44 Shelter Rock Road
Danbury, CT 06810

RE: Northeast Alloys and Metals Site
Change Order for Fencing

Dear Mr. McPeak:

URS and the Department have reviewed your letter dated April 5, 2001 regarding a change order for the additional length of fence installation. While we agree that the additional quantity of fence justifies a change order and a re-evaluation of the unit price, we cannot approve the entire amount of $4,269.59 as requested in your letter.

As per the Contract Documents, Section VIII, Articles 11.2.5 and 11.2.6, the renegotiated unit price only applies to the quantity above 115% of the originally estimated quantity. Therefore, the original 64 feet of fence, plus 9.6 feet (15%), must be paid at the original bid price of $24.98 per linear foot (/LF). The renegotiated price only applies to the remaining 61.4 feet of fence.

Based on the quote submitted with your letter, the unit price for the fence would be ($5,665 / 135 feet) = $41.96/LF. Based on published construction costs, the price for this type of fence would be approximately $20/LF. However, based on our past experience, for the relatively small quantity of fence and the fact that the work is located at a hazardous waste site, the price of $41.96/LF appears to be fair and reasonable.

In regards to the additional time requested for supervision and coordination of the work, we do not believe the additional quantity significantly affects the time required by your personnel.

Based on these modifications, we are willing to approve a total change order amount of $2,944.97 for this item as follows:

- Additional length at original price: 9.6 feet @ $24.98/LF = $239.81
- Additional length at new unit price: 61.4 feet @ $41.96/LF = $2,576.34
- Allowable 5% fee on subcontractors: $2,576.34 @ 5% = $128.82

With your concurrence, the Department will approve this item, and it will be included on the change order currently being prepared by URS.

URS Corporation
282 Delaware Avenue
Buffalo, NY 14202-1805
Tel: 716.856.5636
Fax: 716.856.2545

URS

If you have any questions or require any additional information, please contact us.

Sincerely,

URS Corporation

Donald A. McCall, P.E.
Project Engineer

cc: P. Ouderkirk, P.E., NYSDEC – Region 6
D. Rothman, P.E., URS
File: 35618 (C-1)

URS Corp

JOB NO.: 05.35618.06
MADE BY: D. McCall
Date: 04/20/01

PROJECT: **Northeast Alloys and Metals Site**
SUBJECT: **Cost Estimate for Fence Installation**

Problem: To back up the change order costs submitted by the Contractor (NES), estimate the cost for installation of a longer fence around the treatment facilities. Although the actual amount of the change order will be limited by the contract requirements, this estimate will show that the quote submitted by NES is reasonable.

References:

1. New York State Department of Labor - Prevailing Wage Rate Schedule

2. R.S. Means Co., Inc., *Environmental Remediation Cost Data - Unit Price*, 7th Annual Edition, 2001.

Scope of Work Summary:

Install 135 linear feet of galvanized steel, chain link fence, including a mangate, and a double-swing gate.

---

1. Mobilization

Assume a lump sum total of $500 to mobilize all personnel and required equipment to the site.

2. Fence Installation (Labor)

Per Means (Ref 2 Item 18-04-0107, the cost for installation of a chain-link fence is $20.95 per linear foot. The crew used in Means, ULABC, consists of 3 semi-skilled laborers @ $22.85 per hour and ½ of a foreman @ $24.85 per hour. However, looking at the NYS Department of Labor Wage Rates for Ondeida County (Ref. 1), the

rate for fence installation is significantly higher at $30.59 per hour. For this small job, assume only three laborers, for one 8 hour day of work:

3 laborers @ $30.59 per hour x 8 hours = $734.16

3. **Fence Materials**

Per Means Item 18-04-0107, material costs for installation of the fence are $19.66 per linear foot.

135 LF @ $19.66 per linear foot = $2,654.10

4. **Gates**

Per Means 18-04-0117, the material cost for installation of a 6-foot high swing gate is $558.98.

Assume that the single personnel gate is approximately ½ the cost of the swing gate = 0.5 x $558.98 = $279.49.

Subtotal for gates = $559 + 279 = $838.

5. **Miscellaneous Equipment and Materials**

This item includes all costs for the fence contractor's trucks, equipment and handtools, concrete for setting posts miscellaneous other items, say $500.

PROJECT: Northeast Alloys and Metals Site
SUBJECT: Cost Estimate for Fence Installation

6. Total

Mobilization	$500
Labor	$734
Materials	$2,654
Gates	$838
Miscellaneous	$500
Total	$5,226.

The bid submitted by NES showed a total cost of $5,665 for installation of the fence.

The estimate by URS is only 8% less that the quote, therefore the price appears to be fair and reasonable.

SCIENTECH

April 5, 2001
ES-2384

Mr. Donald McCall
URS Greiner Woodward Clyde
282 Delaware Avenue
Buffalo, NY 14202-1805

Subject: Project Change Order Request No. 3
Former Northeast Metals and Alloys
Utica, NY

cc: D. Rothman
D. McCall
file (c-1)

Dear Don:

Based on our recent discussions, SCIENTECH is submitting the following information to request a Change Order for the subject project based on field changes regarding the location and length of the fencing surrounding the treatment system at the site.

The original bid included a quantity of 64 linear feet of chain link fencing to surround the treatment system. Recent measurement have indicated that the area to be enclosed is much larger than anticipated and onsite DEC representatives are now requesting that we install a configuration which includes approximately 135 linear feet of fencing.

In order to justify the additional costs associated with this change, we have enclosed a quote from the fence installer that provided the lowest price for the original 64-foot long configuration. You will note that the price for the requested configuration (shown as #2 enclosure on the quote) is $5,665.00, which is $4,066.28 higher than the original bid amount of $1,598.72. We are requesting a Change Order amount of $4,269.59 which will cover this additional cost of $4,066.28 plus the allowable 5% fee.

In addition, we anticipate that we will spend an additional 8 hours of labor to supervise and coordinate the installation. Additional time will be required due to the additional size and the scheduling difficulties that will be encountered now that we have completed the system installation and are no longer present at the site on a full time basis. These additional labor charges, including cost plus the allowable fee of 15% will be $239.20, bringing the total value of the Change Order to $4,471.99.

Please consider this correspondence as our request for a project Change Order. If you have any questions or need any additional information, please feel free to call me at 203-796-5229.

Sincerely,
SCIENTECH, Inc.

Robert E. McPeak, Jr., P.E., LEP
Department Manager
Environmental Services

enclosure

cc P. Ouderkirk
K. Cyr

[illegible] ROUTE 82 ● DANBURY, CT 06810 ● PHONE: 203-796-5500 ● [illegible]

FAX COVER SHEET
from
Mid York Fence

DATE: 3-19-01 TIME:

TO: Bob McPeak

FAX #: 203 792 3168

FROM: Les

RE: revised quotations Northeast Alloy Fence Enclosures

COMMENTS: #1 - 25'x45'x25' enclosure with lockable hasp installed on manhole cover outside of enclosure $4324.00
#2 - 35'x48'x32' enclosure 5665.00
Work to be completed as soon as site conditions allow, specifications as per original quotation. Please advise. THANK YOU.

Number of pages (including cover sheet): 1

If you have any problems receiving the transmission of this fax, please call (315) 736-9302 Thank You!!!

ATTACHMENT D

BACKUP AND COST JUSTIFICATION FOR ADDITIONAL PAVING

URS

June 18, 2001

Mr. Robert E. McPeak, Jr., P.E., LEP
SCIENTECH, Inc.
44 Shelter Rock Road
Danbury, CT 06810

RE: Northeast Alloys and Metals Site
Change Order for Paving Costs

Dear Mr. McPeak:

URS and the Department have reviewed your letter dated May 24, 2001, regarding a change order for additional costs associated with paving Pitcher Street. The basis of this change order is that the delay of the project until the winter months required that the patching of the street be conducted in two separate stages.

URS reviewed the costs submitted in your letter, and compared these costs to published construction costs and our experience. Your proposed lump sum change order of $2,110 appears to be fair and reasonable.

Based on URS' recommendation, the Department has approved this item, and it will be included on the change order being prepared by URS.

If you have any questions or require any additional information, please contact us.

Sincerely,

URS Corporation

Donald A. McCall, P.E.
Project Engineer

cc: P. Ouderkirk, NYSDEC – Region 6
G. Burke, NYSDEC – Albany
D. Rothman, URS
File: 35618 (C-1)

URS Corporation
282 Delaware Avenue
Buffalo, NY 14202-1805
Tel: 716.856.5636
Fax: 716.856.2545

JOB NO.: 05.35618.06
MADE BY: D. McCall
Date: 06/01/01

PROJECT: **Northeast Alloys and Metals Site**
SUBJECT: **Cost Estimate for Paving Repair**

Problem: Determine the reasonableness of the change order request submitted by the Contractor (NES), for additional costs associated with pavement restoration. Because the work was done during the winter months, it was necessary to temporarily maintain the street until it could be restored in the springtime.

References:

1. R.S. Means Co., Inc., *Heavy Construction Cost Data*, 15th Annual Edition, 2001.
2. URS-NYSDEC Standby Contract Rates

Scope of Work Summary:

Restore the pavement on Pitcher Street that was cut for the installation of the discharge line to the local sewer. The pavement cut has dimensions of 3' x 30' or 90 SF (10 SY).

NOTE: this cost estimate follows the general outline of the bid from North Paving Company, submitted by NES with their letter dated May 24, 2001.

1. **Estimate the cost for the actual, two-phase restoration performed by NES:**

Temporary Patch:

A. Remove Subbase to a depth of 10-inches: say $200.

B. Install 7-inches of reinforced concrete: Per Means (02750-100-0030), the cost for 7-inch concrete is $24.50 per SY. For steel reinforcement (Means 02750-100-0610) add $6.80

per SY, for a total unit cost of ($24.50 + $6.80) = $31.30 per SY. 10 SY @ $31.30 per SY = $313.

C. Install plastic and 3-inch temporary cap: Per Means 02740-400-0100, assume a cost of $6.75 per SY. 10 SY @ $6.75 per SY = $67.50, say $70.

D. Total Temp Patch:
$200 + $313 + $70 = $583.

Springtime Replacement:

A. Remove Temporary Cap: say $200.

B. Tack coat: Per Means (02785-500-3280), the cost for tack-coat is $1.19 per SY. 10 SY @ $1.19 = $11.90, say $15.

C. Install 2-inch Binder: Per Means (02740-300-0120), the cost for binder course = $3.73 per SY. 10 SY @ $3.73 = $37.30, say $40.

D. Install 1-inch Wear Course: Per Means (02470-300-0300), the cost is $2.25. 10 SY @ $2.25 = $22.50, say $25.

E. Total Replacement:
$200 + $40 + $25 = $265.

Subtotal cost = $583 + $265 = $848. However, this cost is based on Means, which assumes large quantities of pavement (i.e., roadways and parking lots). Because the work involved is a very small quantity, because two mobilizations will be required, and because several people will be required for traffic control, etc. the costs estimated by Means are not realistic. Per Means 02720-200-8900, 50% is added to costs just for small quantities. To account for traffic control, assume an additional 50%. Another 50% each is also included to account for the two

mobilizations and the increased costs for winter work, for a total markup of 200%.
Total cost = $848 x 3 = **$2,544**.

2. **Estimate the cost for normal pavement restoration:**

   A. Sawcut neat edges: Per Means (02225-760-0010) the cost for sawcutting is $1.17 per LF. 60 LF of cutting @ $1.17 = $70.

   B. Remove subbase to a depth of 9-inches: say $200.

   C. Install 7-inches reinforced concrete: as per Item #1 = $313.

   D. Tack Coat: as per Item #1 = $15.

   E. Install 2-inch Wear Course: Per Means (02740-300-0380) the cost = $4.39 per SY. 10 SY @ $4.39 = $43.90 say $45.

   F. Subotal Cost:
   $70 + $200 + $313 + $15 + $45 = $643.

Subtotal cost = $643. As outlined above, 50% is added to costs just for small quantities. To account for traffic control, assume an additional 50%. Another 50% is included to account for the two mobilizations. The total markup for this work is assumed to be 150%.
Total cost = $643 x 2.5 = **$1,608**.

3. **Cost Difference:**

   The difference in cost between the two methods = $2,544 - $1608 = $936. The cost proposed by NES = $1,010.

This estimated cost is within 15% of the cost proposed by NES, which therefore is assumed to be fair and reasonable.

4. **Additional Scientech Costs**

Labor Costs:

A. Glista - the hours submitted appear to be reasonable for the scope of work. Based on his responsibility, Joe would be a NYSDEC Level 4 or 5 person. URS rates (Ref. 2) for Level 4-5 are $22.70 to $27.16. The submitted rate of $25 per hour is therefore fair and reasonable.

B. McPeak - the hours submitted appear to be reasonable for the scope of work. Based on being a project manager, Bob would equate to a NYSDEC Level 8 person. Based on URS rates (Ref. 2), a Level 8 person is $48.73 per hour. The submitted rate of $45 per hour is therefore fair and reasonable.

Travel / Per Diem:

Considering the distance and cost of travel, the costs submitted appear to be fair and reasonable.

SCIENTECH

May 24, 2001
ES-2435

Mr. Donald McCall
URS Greiner Woodward Clyde
282 Delaware Avenue
Buffalo, NY 14202-1805

cc: D. McCall
file c-1

Subject: Project Change Order Request No. 6
Former Northeast Metals and Alloys
Utica, NY

Reference: Letter from R. McPeak to G. Burke dated November 2, 2000

Dear Don:

SCIENTECH is submitting the following information to request a Change Order for the subject project. This change is intended to provide additional compensation to cover changes in the work scope as specified below.

As indicated in the referenced letter, the unforeseen delays in generating the project contract forced us to perform a partial pavement repair in December of 2000 because when the road was ready for repaving, local asphalt plants were no longer open. The paving contractor must now return in the Spring to complete the job. This two-phased approach will cost $2,110 more than our original plan to perform the entire operation in the fall of 2000 due to the need for the contractor and SCIENTECH personnel to return to the site in the Spring. As a result, we are requesting a change order in the amount of $2,110 to cover these additional expenses. Information regarding pricing detail is included.

Please feel free to call me if you have any questions or require any additional information.

Sincerely,
SCIENTECH, Inc.

Robert E. McPeak, Jr., P.E., LEP
Department Manager
Enviro mental Services

cc: E. Ouderkirk
K. Cyr

40 SHELTER ROCK ROAD • DANBURY, CT 06810 • PHONE 203.796.5300 • FAX 203.796.5315

Cost Detail for Paving Change Order
Northeast Metals and Alloys, Utica, NY

Cost Item	Cost	Fee	Total
Contractor differential*	$1,010	$50.5	$1,060.5
SCIENTECH labor			
Glista (14 hours @ 25)	350	52.5	402.5
McPeak (6 hours @ 45)	180	27	207
Travel /perdiem			
travel	300	30	330
perdiem	100	10	110
Totals	$1,940	$170	$2,110

*Proposal enclosed

NORTH PAVING CO., INC.
PAVING CONTRACTORS
843 Elizabeth Street • Utica, New York 13501
Telephone 315-724-4219 • FAX 315 724-4973

FRANK J. FEMIA, President

October 31, 2000

Dear Mr. McPeak:

We are pleased to quote on the restoration of pavement for Pitcher Street. The following is our quote for the 3 x 30 patch or 90 sq.ft. only.

Late Fall: *(No Frost in Ground)*

1. Remove subbase and cold provia to a depth of 10".
2. Install 7" of reinforced concrete.
3. Install plastic and 3" temporary cap.

Spring:

4. Remove 3" temporary cap.
5. Tack-coat with AC-20.
6. Install 2" Binder.
7. Install 1" Top.

Price: $2,900.00

Spring restoration only:

If you decide to maintain the cut with cold provia for the winter, the following quote is applicable:

1. Cut neat edges.
2. Excavate cold provia and subbase to a depth of 9".
3. Install 7" reinforced concrete.
4. Tack coat with AC-20
5. Install 2" of Type 7 Top.

Price: $1,890.00

Thank you,
frank femia, Pres ☺
Frank N. Femia, President
North Paving Company, Inc.

APPENDIX D

CERTIFICATES OF COMPLETION

SCIENTECH

September 5, 2001
ES-2533

Mr. Peter Ouderkirk, P.E.
Project Manager
NYSDEC – Region 6
317 Washington Street
Watertown, NY 13601

cc: D. Rothman
D. McCall
file

Subject: Former Northeast Alloys and Metals Site, Utica, NY
Substantial Completion

Dear Mr. Ouderkirk:

As per our discussion on September 4, 2001, the subject project was substantially complete as of August 24, 2001 when Central Paving completed the final element of the project by installing the asphalt repair on Pitcher Street.

Please feel free to call me if you have any questions or need additional information in order to proceed with project closeout and final invoicing.

Sincerely,

SCIENTECH, INC.

Bob McPeak

Robert E. McPeak, Jr., P.E., LEP
Senior Department Manager
Environmental Services

cc G. Burke
D. McCall
K. Cyr

44 SHELTER ROCK ROAD • DANBURY, CT 06810 • PHONE: 203-796-5300 • FAX: 203-796-5045

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 6
Dulles State Office Building, 317 Washington Street, Watertown, New York 13601-3787
Phone: (315) 785-2513 • **FAX:** (315) 785-2422
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

September 10, 2001

Mr. Robert E. McPeak, Jr.,
SCIENTECH
44 Shelter Rock Road
Danbury, CT 06810

cc: D. Rothman
D. McCall
file

RE: NORTHEAST ALLOYS AND METALS, SITE NO. 6-33-045
SUBSTANTIAL COMPLETION
CONTRACT NO. D-004178

Dear Mr. McPeak:

The New York State Department of Environmental Conservation (DEC) has received your letter dated September 5, 2001 stating that the referenced project had reached substantial completion on August 24, 2001. Based on the Department's inspection of the site and a review of the work plans, the DEC concurs that a substantial completion has been achieved.

Please proceed with final payment requests and documentation in order to conclude this contract. If you have any questions, please feel free to contact me or Donald McCall of URS.

Sincerely,

Peter S. Ouderkirk, P.E.
Project Manager

cc: Darrell M. Sweredoski
Jack Marsch
Gerard Burke
Greg Rys
Donald McCall - URS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
NW-1

Lab Name: H2M LABS, INC Contract:
Lab Code: 10478 Case No.: SAS No.: SDG No.: URS011
Matrix: (soil/water) SOIL Lab Sample ID: 0101278-002A
Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5152.D
Level: (low/med) LOW Date Received: 01/11/01
% Moisture: not dec. 11 Date Analyzed: 01/11/01
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~2~~	~~JB~~ U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	240 ~~230~~	~~E~~ D
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	140	
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1/12/01 TM

Preliminary Results
Pending QC Review

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SW-1

Lab Name: H2M LABS, INC Contract:
Lab Code: 10470 Case No.: SAS No.: SDG No.: URS011
Matrix: (soil/water) SOIL Lab Sample ID: 0101278-003A
Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5153.D
Level: (low/med) LOW Date Received: 01/11/01
% Moisture: not dec. 7 Date Analyzed: 01/11/01
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	11 ~~2~~	~~JB~~	U
67-64-1	Acetone	3	J	
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-4	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene(total)	11	U	
78-93-3	2-Butanone	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	600 ~~580~~	~~E~~	D
71-43-2	Benzene	11	U	
124-48-1	Dibromochloromethane	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	110		
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene(total)	11	U	

1/12/01 DM

Preliminary Results Pending QC Review

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EW-1

Lab Name: H2M LABS, INC Contract:
Lab Code: 10478 Case No.: SAS No.: SDG No.: URS011
Matrix: (soil/water) SOIL Lab Sample ID: 0101278-004A
Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5154.D
Level: (low/med) LOW Date Received: 01/11/01
% Moisture: not dec. 19 Date Analyzed: 01/11/01
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~2~~	~~JB~~ U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-4	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene(total)	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
71-43-2	Benzene	12	U
124-48-1	Dibromochloromethane	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	75	
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene(total)	12	U

1/12/01 DR

Preliminary Results Pending QC Review

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
WW-1

Lab Name: H2M LABS, INC Contract:
Lab Code: 10478 Case No.: SAS No.: SDG No.: URS011
Matrix: (soil/water) SOIL Lab Sample ID: 0101278-005A
Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5155.D
Level: (low/med) LOW Date Received: 01/11/01
% Moisture: not dec. 5 Date Analyzed: 01/11/01
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	// ~~2~~	~~JB~~ U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	2	J
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	510 ~~750~~	~~E~~ D
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1/12/01 JM

Preliminary Results Pending QC Review

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOT-1

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: URS011

Matrix: (soil/water) SOIL Lab Sample ID: 0101278-006A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5156.D

Level: (low/med) LOW Date Received: 01/11/01

% Moisture: not dec. 21 Date Analyzed: 01/11/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	12 ~~2~~ ~~JB~~	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-4	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene(total)	13	U
78-93-3	2-Butanone	4	J
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
71-43-2	Benzene	13	U
124-48-1	Dibromochloromethane	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene(total)	13	U

U

1/12/01 dm

Preliminary Results Pending QC Review

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SP-1

Lab Name: H2M LABS, INC Contract:
Lab Code: 10478 Case No.: SAS No.: SDG No.: URS011
Matrix: (soil/water) SOIL Lab Sample ID: 0101278-001A
Sample wt/vol: 5.0 (g/ml) G Lab File ID: F5160.D
Level: (low/med) LOW Date Received: 01/11/01
% Moisture: not dec. 21 Date Analyzed: 01/11/01
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~2~~	~~JB~~ U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-4	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene(total)	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	57	
71-43-2	Benzene	13	U
124-48-1	Dibromochloromethane	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene(total)	13	U

1/12/01 TM

Preliminary Results Pending QC Review

SCIENTECH

cc: D. McCall
file

April 24, 2001

Refer to ES - 2410

Mr. Donald McCall, P.E.
Project Manager
URS Corporation
282 Delaware Ave.
Buffalo, New York 14202

Subject: Weekly Sampling Status Report (March 28, 2001 and April 4, 2001)
Former Northeast Alloys & Metals Site; Utica, NY
Contract Number D-004178

System Sampling performed on 3/28/01 and 4/04/01

SCIENTECH employees arrived at the former Northeast Alloys and Metals site on 03/28/01 and 04/04/01 to obtain the first two rounds of samples in accordance with the obligations set forth in the NYSDEC contract for the former Northeast Alloys and Metals Site in Utica, NY.

The samples were collected in accordance with the SCIENTECH Sampling and Analysis Plan provided to NYSDEC in the deliverables package.

Both influent and effluent samples from the treatment system were collected and analyzed for the following:

TCL VOCs via EPA Method 624
TAL Metals via EPA Method 200.7 and 245.1
pH via EPA Method 150.1
Total dissolved Solids via EPA Method 160.1
Total Suspended Solids via EPA Method 160.2
Total Hardness via Vial EPA Method 130.1

The influent samples designated GTSI 032801 and GTSI 040401 in accordance with the sampling and analysis plan were collected from the treatment system sump via a sampling tube connected to dewatering pump 1.

The effluent samples designated GTSE 032801 and GTSE 040401 in accordance with the sampling and analysis plan were collected from inside the last baffle of the discharge manhole, prior to the gravity line to the City of Utica sanitary sewer.

44 SHELTER ROCK ROAD • DANBURY, CT 06810 • PHONE 203-796-5300 • FAX 203-796-5045

The samples were collected in laboratory-supplied glassware, packaged on ice and sent to Mitkem Corporation, Warwick, RI for laboratory analysis.

Results of the Data Generated

Attached are the analytical data from first two weekly sampling events. The data indicates the following:

- The treatment system is successful in reducing the level of VOCs present in the collected groundwater, and
- The levels of contaminants in the treated groundwater are well below the discharge criteria set forth in the City of Utica discharge permit for discharge to the sanitary sewer.

Scheduled Actions

SCIENTECH performed two additional sampling rounds on 4/11/01 and 4/18/01. SCIENTECH will report the results of this data as it becomes available.

Sincerely,
SCIENTECH, Inc.

Joseph Glista
Environmental Geologist
Environmental Services

Enclosures

cc: P. Ouderkirk
K. Cyr
R. McPeak

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

April 19, 2001

Scientech, Inc.
44 Shelter Rock Road
Danbury, CT 06810
Attn: Mr. Bob Peak

RE: Client Project: NE ALLOYS & METALS, UTICA, NY
Lab Project #: 80575

Dear Mr. Peak:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • email: mitkem@mitkem.com

MITKEM CORPORATION

Client: Scientech, Inc.

Client Project: NE ALLOYS & METALS UTICA, NY

Lab Project: 80575

Date samples received: 3/30/01

Project Narrative

This data report includes the analysis results for two (2) aqueous samples that were received from Scientech, Inc. on March 30, 2001. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. No unusual occurrences were noted during sample analysis.

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSI032801

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Matrix: (soil/water) WATER Lab Sample ID: 80575001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V2D9367

Level: (low/med) LOW Date Received: 03/30/01

% Moisture: not dec. _____ Date Analyzed: 04/05/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	35	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	200	
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	2	J
79-01-6	Trichloroethene	3	J
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	5	
1330-20-7	Xylene (Total)	55	
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	2	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSE032801

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Matrix: (soil/water) WATER Lab Sample ID: 80575002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V2D9368

Level: (low/med) LOW Date Received: 03/30/01

% Moisture: not dec. _____ Date Analyzed: 04/05/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	20	
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	3	J
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Matrix: (soil/water) WATER Lab Sample ID: V2B0404A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V2D9342

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/04/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK2W	104	95	96	86	0
02	VBLK2WLCS	103	97	99	100	0
03	GTSI032801	102	98	95	103	0
04	GTSE032801	101	93	95	99	0
05						
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09						
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12						
13						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(79-122)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(76-121)
SMC3 (TOL)	= Toluene-d8	(82-118)
OTHER(BFB)	= Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Matrix Spike - Sample No.: VBLK2W

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Chloromethane	50	0.0	43	86	0-204
Vinyl Chloride	50	0.0	51	102	4-196
Bromomethane	50	0.0	57	114	14-186
Chloroethane	50	0.0	55	110	38-162
Trichlorofluoromethane	50	0.0	67	134	48-152
1,1-Dichloroethene	50	0.0	56	112	51-150
Methylene Chloride	50	0.0	44	88	61-140
trans-1,2-Dichloroethen	50	0.0	52	104	70-131
1,1-Dichloroethane	50	0.0	52	104	73-128
Chloroform	50	0.0	56	112	68-133
1,1,1-Trichloroethane	50	0.0	58	116	75-125
Carbon Tetrachloride	50	0.0	60	120	73-127
1,2-Dichloroethane	50	0.0	55	110	68-132
Benzene	50	0.0	52	104	64-136
Trichloroethene	50	0.0	55	110	67-134
1,2-Dichloropropane	50	0.0	49	98	34-166
Bromodichloromethane	50	0.0	54	108	66-135
cis-1,3-Dichloropropene	50	0.0	50	100	24-176
Toluene	50	0.0	55	110	75-126
trans-1,3-Dichloroprope	50	0.0	50	100	50-150
1,1,2-Trichloroethane	50	0.0	54	108	71-129
Tetrachloroethene	50	0.0	53	106	74-127
Dibromochloromethane	50	0.0	53	106	68-133
Chlorobenzene	50	0.0	54	108	66-134
Ethylbenzene	50	0.0	55	110	59-141
Bromoform	50	0.0	54	108	71-129
1,1,2,2-Tetrachloroetha	50	0.0	47	94	61-140
1,3-Dichlorobenzene	50	0.0	50	100	73-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Matrix Spike - Sample No.: VBLK2W

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50	0.0	50	100	63-137
1,2-Dichlorobenzene	50	0.0	50	100	63-137

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 30 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80575

Lab File ID: V2D9342 Lab Sample ID: V2B0404A

Date Analyzed: 04/04/01 Time Analyzed: 1417

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK2WLCS	V2L0404A	V2D9343	1529
02	GTSI032801	80575001	V2D9367	0248
03	GTSE032801	80575002	V2D9368	0316
04				
05				
06				
07				
08				
09				
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COMMENTS:

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSI032801	Analysis Date:	4/5, 4/6/01
Lab ID:	80575001	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.4	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	6.8	0.3
Lead	0.04	0.01
Magnesium	19	0.5
Manganese	0.90	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	8	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	27	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0404PBW1

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSE032801	Analysis Date:	4/5, 4/6/01
Lab ID:	80575002	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	0.3	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.5	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	0.04	0.03
Iron	17	0.3
Lead	0.13	0.01
Magnesium	19	0.5
Manganese	0.91	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	9	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	32	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0404PBW1

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:		Analysis Date:	4/5, 4/6/01
Lab ID:	Prep Blank, 0404PBW1	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	ND	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	ND	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	ND	0.3
Lead	ND	0.01
Magnesium	ND	0.5
Manganese	ND	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	ND	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	ND	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0404PBW1

ND = Not Detected

80575-PB

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:		Analysis Date:	4/5, 4/6/01
Lab ID:	Lab Control Sample, 0404LCSW1	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	% Recovery
Aluminum	101
Antimony	120
Arsenic	103
Barium	102
Beryllium	101
Cadmium	102
Calcium	103
Chromium	101
Cobalt	102
Copper	101
Iron	101
Lead	103
Magnesium	101
Manganese	100
Mercury	114
Nickel	101
Potassium	108
Selenium	102
Silver	103
Sodium	102
Thallium	103
Vanadium	101
Zinc	99

QC Batch: 0404PBW1

80575-LCS

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSI032801
Lab ID: 80575001

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	690	4	mg equiv CaCO3/L	SM2340 B	4/5/01
pH	7.1		S.U.	SM 4500-H+	3/30/01
Total Dissolved Solids	490	10	mg/L	SM 2540-C	3/30/01
Total Suspended Solids	18	10	mg/L	SM 2540-D	3/30/01

80575001

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MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSE032801
Lab ID: 80575002

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	690	4	mg equiv CaCO3/L	SM2340 B	4/5/01

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID:
Lab ID: Prep Blank

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	ND	4	mg equiv CaCO3/L	SM2340 B	4/5/01
Total Dissolved Solids	ND	10	mg/L	SM 2540-C	3/30/01
Total Suspended Solids	ND	10	mg/L	SM 2540-D	3/30/01

ND = Not Detected

80575-PB

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MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc. Matrix: Aqueous
Client ID:
Lab ID: Lab Control Sample

Analyte	% Recovery	Analysis Method	Analysis Date
Total Dissolved Solids	102	SM 2540-C	3/30/01
Total Suspended Solids	99	SM 2540-D	3/30/01

80575-LCS

MITKEM CORPORATION

03/30/01 04:13 PM | Page 1 of 1 | Original | Lab Workorder #: **80575**

Lab Workorder: **80575** **R0**

Client: **Scientech, Inc.**
Lab Workorder ID: **NE Alloys & Metals Utica, NY**
Client Proj ID:
Client PO #:
Project / Profile Name: **Routine**
Date Due: **04/13/01**
Customer Service:
Del Req'd: **Commercial Reports**
Completed?:
Project Notes: **TALMETW by 200.7/245.1**

Logged In By:
Reviewed By: BED

Date Opened: **03/30/01 14:55**
Date Closed: **03/30/01 16:13**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
80575001	GTSI032801	W	SAMPLE	160.1W TDS 160.2W TSS 624 S2340WHarB S4500BW pH TALMETW	03/28/01 14:05	03/30/01	04/13/01	
80575002	GTSE032801	W	SAMPLE	624 S2340WHarB TALMETW	03/28/01 14:10	03/30/01	04/13/01	

INVOICE AND REPORT GO TO:

Bob Peak
Scientech, Inc.
44 Shelter Rock Road
Danbury, CT, 06810
W : (203)796-5000
F : (203)792-3168

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		
COMPANY SCIENTECH INC.	PHONE (203) 798-5000	COMPANY SAME	PHONE	LAB PROJECT #
NAME Bob McPeak	FAX (203) 792-3168	NAME	FAX	
ADDRESS 44 Shelter Rock Rd.		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP DANBURY CT. 06810		CITY/ST/ZIP		

CLIENT PROJECT NAME: FORMER NORTHEAST ALLOYS & Metals, UTICA, NY.

CLIENT PROJECT #: 31104

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs 624	TAL METALS 200.7/245.1	pH 150.1	TDS 160.1	TSS 160.2	HARDNESS 130.1	COMMENTS
GTSI032801	3/28/01 1405			X			C1	6	X	X	X	X	X	X	
GTSE032801	3/28/01 1410			X			C2	4	X	X				X	
	/														
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TSR	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1		3/29/01 16:22		3/30/01 0900
2		/		/
3	FAX CO	/		/

ADDITIONAL REMARKS

COOLER TEMP

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Received By:	Reviewed By:	Date:	MITKEM Project #:
Client Project:		Client:	

Condition:		Lab Sample ID	Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
1) Custody Seal(s)	Present / Absent							
	Coolers / Bottles							
	Intact / Broken							
2) Custody Seal Number(s)								
3) Chain-of-Custody	Present / Absent							
4) Cooler Temperature								
Coolant Condition								
5) Airbill(s)								
Airbill Number(s)								
6) Sample Bottles	Intact							
	Broken							
	Leaking							
7) Date Received								
8) Time Received								

VOA Matrix Key:

S = Unpreserved Soil — M = MeOH
A = Unpreserved Aqueous — E = Encore
B = Both MeOH & $NaHSO_4$ — H = HCl
N = $NaHSO_4$ — A = AIR

See Sample Notification Form yes / no

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Last Page of Data Report

MITKEM
CORPORATION

"Environmental Testing For The New Millennium"

April 19, 2001

Scientech, Inc.
44 Shelter Rock Road
Danbury, CT 06810
Attn: Mr. Bob Peak

RE: Client Project: NE ALLOYS UTICA NY, 3110Y
Lab Project #: 80610

Dear Mr. Peak:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • email: mitkem@mitkem.com

MITKEM CORPORATION

Client: Scientech, Inc.

Client Project: NE ALLOYS, UTICA NY, 3110Y

Lab Project: 80610

Date samples received: 4/5/01

Project Narrative

This data report includes the analysis results for two (2) aqueous samples that were received from Scientech, Inc. on April 5, 2001. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. The volatile organic analysis of sample GTSI040401 was performed at a 2X dilution due to concentrations of compounds above the upper calibration range of the instrument.

No other unusual occurrences were noted during sample analysis.

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSI040401

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Matrix: (soil/water) WATER Lab Sample ID: 80610001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8397

Level: (low/med) LOW Date Received: 04/05/01

% Moisture: not dec. _____ Date Analyzed: 04/11/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	3	J
75-01-4	Vinyl Chloride	19	
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	230	
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	2	J
79-01-6	Trichloroethene	4	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-88-3	Toluene	13	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	5	J
1330-20-7	Xylene (Total)	48	
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	3	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSE040401

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Matrix: (soil/water) WATER Lab Sample ID: 80610002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8398

Level: (low/med) LOW Date Received: 04/05/01

% Moisture: not dec. _____ Date Analyzed: 04/11/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Matrix: (soil/water) WATER Lab Sample ID: V5B0410A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8378

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/10/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK5M	97	92	98	100	0
02	VBLK5MLCS	101	104	100	100	0
03	GTSI040401	103	86	96	99	0
04	GTSE040401	112	97	100	112	0
05						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(79-122)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(76-121)
SMC3 (TOL)	= Toluene-d8	(82-118)
OTHER(BFB)	= Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Matrix Spike - Sample No.: VBLK5M

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Chloromethane	50	0.0	37	74	54-135
Vinyl Chloride	50	0.0	45	90	63-131
Bromomethane	50	0.0	52	104	58-132
Chloroethane	50	0.0	48	96	69-127
Trichlorofluoromethane	50	0.0	51	102	58-140
1,1-Dichloroethene	50	0.0	46	92	75-122
Methylene Chloride	50	0.0	36	72	65-128
trans-1,2-Dichloroethen	50	0.0	39	78	73-125
1,1-Dichloroethane	50	0.0	53	106	75-123
cis-1,2-Dichloroethene	50	0.0	53	106	77-122
Chloroform	50	0.0	55	110	75-122
1,1,1-Trichloroethane	50	0.0	56	112	74-126
Carbon Tetrachloride	50	0.0	56	112	74-127
1,2-Dichloroethane	50	0.0	56	112	76-123
Benzene	50	0.0	52	104	78-121
Trichloroethene	50	0.0	54	108	77-123
1,2-Dichloropropane	50	0.0	52	104	77-122
Bromodichloromethane	50	0.0	55	110	78-121
cis-1,3-Dichloropropene	50	0.0	54	108	77-121
Toluene	50	0.0	54	108	77-122
trans-1,3-Dichloroprope	50	0.0	59	118	76-123
1,1,2-Trichloroethane	50	0.0	57	114	76-124
Tetrachloroethene	50	0.0	54	108	77-121
Dibromochloromethane	50	0.0	55	110	77-121
Chlorobenzene	50	0.0	53	106	77-120
Ethylbenzene	50	0.0	54	108	76-120
Xylene (Total)	150	0.0	160	107	76-121
Bromoform	50	0.0	60	120	73-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Matrix Spike - Sample No.: VBLK5M

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1,2,2-Tetrachloroetha	50	0.0	54	108	66-128
1,3-Dichlorobenzene	50	0.0	51	102	74-120
1,4-Dichlorobenzene	50	0.0	50	100	75-120
1,2-Dichlorobenzene	50	0.0	51	102	75-119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 32 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80610

Lab File ID: V5C8378 Lab Sample ID: V5B0410A

Date Analyzed: 04/10/01 Time Analyzed: 1915

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK5MLCS	V5L0410A	V5C8379	1944
02	GTSI040401	80610001	V5C8397	0420
03	GTSE040401	80610002	V5C8398	0449
04				
05				
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COMMENTS:

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSI040401	Analysis Date:	4/9/01
Lab ID:	80610001	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.4	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	0.03	0.03
Iron	84	0.3
Lead	0.07	0.01
Magnesium	21	0.5
Manganese	0.94	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	9	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	28	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	0.05	0.05

QC Batch: 0407PBW1

ND = Not Detected

80610001

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSE040401	Analysis Date:	4/9/01
Lab ID:	80610002	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	0.3	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.5	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	100	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	16	0.3
Lead	0.05	0.01
Magnesium	20	0.5
Manganese	0.95	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	7	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	27	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0407PBW1

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:		Analysis Date:	4/9/01
Lab ID:	Prep Blank, 0407PBW1	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	ND	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	ND	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	ND	0.3
Lead	ND	0.01
Magnesium	ND	0.5
Manganese	ND	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	ND	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	ND	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0407PBW1

ND = Not Detected

80610-PB

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Analysis Date:	4/9/01
Client ID:		Analysis Method:	7470A(Mercury)
Lab ID:	Lab Control, 0407LCSW1		6010B (Others)
Matrix:	Aqueous		

Analyte	% Recovery
Aluminum	98
Antimony	123
Arsenic	108
Barium	103
Beryllium	101
Cadmium	109
Calcium	100
Chromium	101
Cobalt	104
Copper	100
Iron	102
Lead	109
Magnesium	101
Manganese	104
Mercury	101
Nickel	105
Potassium	95
Selenium	107
Silver	102
Sodium	96
Thallium	110
Vanadium	99
Zinc	101

QC Batch: 0407PBW1

80610-LCS

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSI040401
Lab ID: 80610001

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	370	4	mg equiv CaCO3/L	SM2340 B	4/9/01
pH	6.8		S.U.	SM 4500-H+	4/5/01
Total Dissolved Solids	540	10	mg/L	SM 2540-C	4/5/01
Total Suspended Solids	120	10	mg/L	SM 2540-D	4/5/01

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSE040401
Lab ID: 80610002

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	340	4	mg equiv CaCO3/L	SM2340 B	4/9/01

80610002

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID:
Lab ID: Prep Blank

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	ND	4	mg equiv CaCO3/L	SM2340 B	4/9/01
Total Dissolved Solids	ND	10	mg/L	SM 2540-C	4/5/01
Total Suspended Solids	ND	10	mg/L	SM 2540-D	4/5/01

ND = Not Detected

80610-PB

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc. Matrix: Aqueous
Client ID:
Lab ID: Lab Control Sample

Analyte	% Recovery	Analysis Method	Analysis Date
Total Dissolved Solids	95	SM 2540-C	4/5/01
Total Suspended Solids	100	SM 2540-D	4/5/01

MITKEM CORPORATION

04/06/01 11:13 AM | Page 1 of 1 | Revision #1 | Lab Workorder #: **80610**

Lab Workorder **80610** **R1**

Client: **Scientech, Inc.**
Lab Workorder ID: **NE ALLOYS UTICA NY 3110Y**
Client Proj ID:
Client PO #:
Project / Profile Name: **Routine**
Date Due: **04/19/01**
Customer Service:
Del Req'd: **Commercial Reports**
Completed?:
Project Notes: **R1: Change Workorder ID.**

Logged In By: _____
Reviewed By: _____

Date Opened: **04/05/01 12:35**
Date Closed: **04/05/01 13:42**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
80610001	GTSI040401	W	SAMPLE	624 TALMETW S4500BW pH 160.1W TDS 160.2W TSS S2340WHarB	04/04/01 09:45	04/05/01	04/19/01	
80610002	GTSE040401	W	SAMPLE	624 TALMETW S2340WHarB	04/04/01 10:15	04/05/01	04/19/01	

INVOICE AND REPORT GO TO:

Bob Peak
Scientech, Inc.
44 Shelter Rock Road
Danbury, CT, 06810
W : (203)796-5000
F : (203)792-3168

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY SCIENTECH INC.	PHONE 203 796-5000	COMPANY SAME	PHONE	X0610
NAME BOB McPEAK	FAX 203 792-3168	NAME	FAX	TURNAROUND TIME:
ADDRESS 44 Shelter Rock Rd.		ADDRESS		
CITY/ST/ZIP DANBURY, CT 06810		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
FORMER NE Alloys & metals UTICA, NY.	31104	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs 624	TAL METALS 200.7/245.1	pH 150.1	TDS 160.1	TSS 160.2	HARDNESS 130.1	COMMENTS
GTSI040401	04/04/01 AM 09:45			X			01	6	X	X	X	X	X	X	
GTSE040401	04/04/01 AM 10:15			X			02	4	X	X				X	
	/														
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Wayne DeGolier	4/4/01 1400 PM	FedEx	/
2		/	JJ Healy	4/5/01 / 08:45
3		/		/

ADDITIONAL REMARKS

COOLER TEMP: 4°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Received By: JTH	Reviewed By:	Date:	MITKEM Project #:
Client Project:		Client:	

Condition:		Lab Sample ID	Preservation (pH) HNO_3	Preservation (pH) H_2SO_4	Preservation (pH) HCl	Preservation (pH) NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
1) Custody Seal(s)	Present / Absent							
	Coolers / Bottles							
	Intact / Broken							
2) Custody Seal Number(s)	N/A							
3) Chain-of-Custody	Present / Absent							
4) Cooler Temperature	4°C							
Coolant Condition	ice							
5) Airbill(s)	Fed Ex							
Airbill Number(s)	5796 6346 6014							
Sample Bottles	Intact							
	Broken							
	Leaking							
Date Received	4/5/01							
11) Time Received	08:45							

VOA Matrix Key:

S = Unpreserved Soil — M = MeOH
UA = Unpreserved Aqueous — E = Encore
B = Both MeOH & $NaHSO_4$ — H = HCl
S = $NaHSO_4$ — A = AIR

See Sample Notification Form yes / no

Last Page of Data Report

SCIENTECH

May 30, 2001

Refer to ES - 2440

Mr. Donald McCall, P.E.
Project Manager
URS Corporation
282 Delaware Ave.
Buffalo, New York 14202

cc: D. McCall
file (AO-1)

Subject: Weekly Sampling Status Report (April 11, 2001 and April 18, 2001)
Former Northeast Alloys & Metals Site; Utica, NY
Contract Number D-004178

System Sampling performed on 4/11/01 and 4/18/01

SCIENTECH employees arrived at the former Northeast Alloys and Metals site on 04/11/01 and 04/18/01 to obtain the final rounds of samples in accordance with the obligations set forth in the NYSDEC contract for the former Northeast Alloys and Metals Site in Utica, NY.

The samples were collected in accordance with the SCIENTECH Sampling and Analysis Plan provided to NYSDEC in the deliverables package.

Both influent and effluent samples from the treatment system were collected and analyzed for the following:

TCL VOCs via EPA Method 624
TAL Metals via EPA Method 200.7 and 245.1
pH via EPA Method 150.1
Total dissolved Solids via EPA Method 160.1
Total Suspended Solids via EPA Method 160.2
Total Hardness via Vial EPA Method 130.1

The influent samples designated GTSI 041101 and GTSI 041801 in accordance with the sampling and analysis plan were collected from the treatment system sump via a sampling tube connected to dewatering pump 1.

The effluent samples designated GTSE 041101 and GTSE 041801 in accordance with the sampling and analysis plan were collected from inside the last baffle of the discharge manhole, prior to the gravity line to the City of Utica sanitary sewer.

44 SHELTER ROCK ROAD • DANBURY, CT 06810 • PHONE: 203-796-5300 • FAX: 203-796-5045

The samples were collected in laboratory-supplied glassware, packaged on ice and sent to Mitkem Corporation, Warwick, RI for laboratory analysis.

Results of the Data Generated

Attached are the analytical data from the final two weekly sampling events. The data indicates the following:

- The treatment system is successful in reducing the level of VOCs present in the collected groundwater, and
- The levels of contaminants in the treated groundwater are well below the discharge criteria set forth in the City of Utica discharge permit for discharge to the sanitary sewer.

Scheduled Actions

Scientech Inc. will begin the process of relinquishing the operation, testing and maintenance of the treatment system to the NY State DEC.

Sincerely,
SCIENTECH, Inc.

Joseph Glista
Environmental Geologist
Environmental Services

Enclosures

cc: P. Ouderkirk
K. Cyr
R. McPeak

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

April 24, 2001

Scientech, Inc.
44 Shelter Rock Rd
Danbury, CT 06810
Attn: Mr. Bob Peak

RE: Client Project: FORMER NE ALLOYS + METALS, UTICA, NY
Lab Project #: 80661

Dear Mr. Peak:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • email: mitkem@mitkem.com

MITKEM CORPORATION

Client: Scientech, Inc.

Client Project: Former NE Alloys + Metals, Utica, NY

Lab Project: 80661

Date samples received: 4/12/01

Project Narrative

This data report includes the analysis results for two (2) aqueous samples that were received from Scientech, Inc. on April 12, 2001. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. The volatile organics analysis of sample GTSI was analyzed at a 2X dilution due to concentrations exceeding the calibration range of the instrument.

No other unusual occurrences were noted during sample analysis.

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSI

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Matrix: (soil/water) WATER Lab Sample ID: 80661001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8460

Level: (low/med) LOW Date Received: 04/12/01

% Moisture: not dec. _____ Date Analyzed: 04/18/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	27	
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	290	
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	3	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	4	J
1330-20-7	Xylene (Total)	42	
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U

2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GTSE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Matrix: (soil/water) WATER Lab Sample ID: 80661002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8466

Level: (low/med) LOW Date Received: 04/12/01

% Moisture: not dec. _____ Date Analyzed: 04/18/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	28	
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	4	J
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5Q

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Matrix: (soil/water) WATER Lab Sample ID: V5B0418A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8442

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/18/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	J
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK5Q	102	103	96	99	0
02	VBLK5QLCS	102	102	103	101	0
03	GTSI	102	105	99	101	0
04	GTSE	104	107	99	102	0
05						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(79-122)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(76-121)
SMC3 (TOL)	= Toluene-d8	(82-118)
OTHER(BFB)	= Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Matrix Spike - Sample No.: VBLK5Q

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Chloromethane	50	2	46	88	54-135
Vinyl Chloride	50	0.0	48	96	63-131
Bromomethane	50	0.0	51	102	58-132
Chloroethane	50	0.0	49	98	69-127
Trichlorofluoromethane	50	0.0	41	82	58-140
1,1-Dichloroethene	50	0.0	44	88	75-122
Methylene Chloride	50	0.0	42	84	65-128
trans-1,2-Dichloroethen	50	0.0	53	106	73-125
1,1-Dichloroethane	50	0.0	51	102	75-123
cis-1,2-Dichloroethene	50	0.0	52	104	77-122
Chloroform	50	0.0	52	104	75-122
1,1,1-Trichloroethane	50	0.0	51	102	74-126
Carbon Tetrachloride	50	0.0	52	104	74-127
1,2-Dichloroethane	50	0.0	50	100	76-123
Benzene	50	0.0	53	106	78-121
Trichloroethene	50	0.0	53	106	77-123
1,2-Dichloropropane	50	0.0	52	104	77-122
Bromodichloromethane	50	0.0	52	104	78-121
cis-1,3-Dichloropropene	50	0.0	54	108	77-121
Toluene	50	0.0	52	104	77-122
trans-1,3-Dichloroprope	50	0.0	54	108	76-123
1,1,2-Trichloroethane	50	0.0	54	108	76-124
Tetrachloroethene	50	0.0	51	102	77-121
Dibromochloromethane	50	0.0	55	110	77-121
Chlorobenzene	50	0.0	51	102	77-120
Ethylbenzene	50	0.0	51	102	76-120
Xylene (Total)	150	0.0	150	100	76-121
Bromoform	50	0.0	56	112	73-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Matrix Spike - Sample No.: VBLK5Q

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1,2,2-Tetrachloroetha	50	0.0	55	110	66-128
1,3-Dichlorobenzene	50	0.0	50	100	74-120
1,4-Dichlorobenzene	50	0.0	50	100	75-120
1,2-Dichlorobenzene	50	0.0	51	102	75-119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 32 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5Q

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80661

Lab File ID: V5C8442 Lab Sample ID: V5B0418A

Date Analyzed: 04/18/01 Time Analyzed: 1024

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK5QLCS	V5L0418A	V5C8443	1055
02	GTSI	80661001	V5C8460	1928
03	GTSE	80661002	V5C8466	2222
04				
05				
06				
07				
08				
09				
10				
11				
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COMMENTS:

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSI	Analysis Date:	4/13/01
Lab ID:	80661001	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.4	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	8.3	0.3
Lead	0.02	0.01
Magnesium	22	0.5
Manganese	0.96	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	6	2
Selenium	ND	0.02
Silver	0.03	0.03
Sodium	23	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0412PBW1

ND = Not Detected

80661001

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:	GTSE	Analysis Date:	4/13/01
Lab ID:	80661002	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.4	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	8.8	0.3
Lead	ND	0.01
Magnesium	21	0.5
Manganese	0.92	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	6	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	23	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0412PBW1

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Concentration in:	mg/L
Client ID:		Analysis Date:	4/13/01
Lab ID:	Prep Blank, 0412PBW1	Analysis Method:	7470A(Mercury)
Matrix:	Aqueous		6010B (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	ND	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	ND	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	ND	0.3
Lead	ND	0.01
Magnesium	ND	0.5
Manganese	ND	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	ND	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	ND	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0412PBW1

ND = Not Detected

80661-PB

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech, Inc.	Analysis Date:	4/13/01
Client ID:		Analysis Method:	7470A(Mercury)
Lab ID:	Lab Control Sample, 0412LCSW1		6010B (Others)
Matrix:	Aqueous		

Analyte	% Recovery
Aluminum	98
Antimony	121
Arsenic	105
Barium	104
Beryllium	101
Cadmium	108
Calcium	100
Chromium	100
Cobalt	102
Copper	102
Iron	102
Lead	92
Magnesium	102
Manganese	102
Mercury	98
Nickel	101
Potassium	93
Selenium	106
Silver	89
Sodium	95
Thallium	112
Vanadium	101
Zinc	99

QC Batch: 0412PBW1

80661-LCS

1.

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSI
Lab ID: 80661001

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
pH	7.2		S.U.	SM 4500-H+	4/12/01
Total Dissolved Solids	390	10	mg/L	SM 2540-C	4/13/01
Total Suspended Solids	20	10	mg/L	SM 2540-D	4/13/01

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID:
Lab ID: Prep Blank

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Total Dissolved Solids	ND	10	mg/L	SM 2540-C	4/13/01
Total Suspended Solids	ND	10	mg/L	SM 2540-D	4/13/01

ND = Not Detected

80661-PB

1

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc. Matrix: Aqueous
Client ID:
Lab ID: Lab Control Sample

Analyte	% Recovery	Analysis Method	Analysis Date
Total Dissolved Solids	103	SM 2540-C	4/13/01
Total Suspended Solids	97	SM 2540-D	4/13/01

MITKEM CORPORATION

04/12/01 02:06 PM

Original

Lab Workorder #: **80661**

Lab Workorder **80661** **R0**

Client: **Scientech, Inc.**
Lab Workorder ID: **FORMER NE ALLOYS+METALS**
Client Proj ID:
Client PO #: NA
Project / Profile Name: **Routine**
Date Due: **04/26/01**
Customer Service:
Del Req'd: **Commercial Reports**
Completed?:

Logged In By: NA

Reviewed By: BJP

Date Opened: **04/12/01 14:04**
Date Closed: **04/12/01 14:06**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
80661001	GTSI	W	SAMPLE	160.1W TDS	04/11/01 09:30	04/12/01	04/26/01	GTSI041101
				160.2W TSS				
				624				
				S2340WHarB				
				S4500BW pH				
				TALMETW				
80661002	GTSE	W	SAMPLE	624	04/11/01 10:00	04/12/01	04/26/01	GTSE041101
				S2340WHarB				
				TALMETW				

INVOICE AND REPORT GO TO:

Bob Peak
Scientech, Inc.
44 Shelter Rock Road
Danbury, CT, 06810
W : (203)796-5000
F : (203)792-3168

1
C

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #
COMPANY ScienTech Inc	PHONE 203-796-5000	COMPANY	PHONE	80ccc1
NAME Bob McPeak	FAX 203-792-3168	NAME Same	FAX	TURNAROUND TIME:
ADDRESS 44 Shelter Rock Rd.		ADDRESS		
CITY/ST/ZIP Danbury CT 06810		CITY/ST/ZIP		

CLIENT PROJECT NAME: Former NE Alloys + Metals Utica N.Y.

CLIENT PROJECT #: 31104

CLIENT P.O.#:

REQUESTED ANALYSES: TCL VOC 624; TAL METALS 200.7 245.1; Ph 150.1; TDS 160.1; TSS 160.2; Hardness 130.1

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOC 624	TAL METALS 200.7 245.1	Ph 150.1	TDS 160.1	TSS 160.2	Hardness 130.1	COMMENTS
GTSI 041101	4/11/01 / 09:30 AM			X			01	6	X	X	X	X	X	X	
GTSE 041101	4/11/01 / 10:00 AM			X			02	4	X	X				X	
	/														
	/														
	/														
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	/														
	/														
	/														

SF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Wayne DeGolier	4/11/01 / 15:00 AM	Sent FedEx	/
2		/	Jeff Reynolds	4/12/01 0930
3		/		/

ADDITIONAL REMARKS:

COOLER TEMP: 6°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Page ___ of ___

Received By: MW | Reviewed By: | Date: 4/12/01 | MITKEM Project #: 80661

Client Project: FORMER NE ALLOYS + MET | Client: SCI TECH ENG

Condition:

1) Custody Seal(s) — Present / Absent
Coolers / Bottles
Intact / Broken

2) Custody Seal Number(s) ___

3) Chain-of-Custody — Present / Absent

4) Cooler Temperature 6°C
Coolant Condition ICE

5) Airbill(s) FED-EX
Airbill Number(s) 819634661 0C

6) Sample Bottles — Intact / Broken / Leaking

Date Received 4/12/01

Time Received 0930

Lab Sample ID	Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
80661001	LZ				H	
F-002	LZ				H	

VOA Matrix Key:
S = Unpreserved Soil
WA = Unpreserved Aqueous
B = Both MeOH & $NaHSO_4$
Ba = $NaHSO_4$
M = MeOH
E = Encore
H = HCl
A = AIR

See Sample Notification Form (yes / no)

Last Page of Data Report

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

May 15, 2001

Scientech, Inc.
44 Shelter Rock Rd
Danbury, CT 06810
Attn: Mr. Bob Peak

RE: Client Project: FORMER NE ALLOYS+METALS, 4/18/01 Samples
Lab Project #: 80730

Dear Mr. Peak:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • email: mitkem@mitkem.com

MITKEM CORPORATION

Client: Scientech, Inc.

Client Project: FORMER NE ALLOYS+METALS

Lab Project: 80730

Date samples received: 4/20/01

Project Narrative

This data report includes the analysis results for two (2) aqueous samples that were received from Scientech, Inc. on April 20, 2001. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. No unusual occurrences were noted during sample analysis.

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
I041801

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80730

Matrix: (soil/water) WATER Lab Sample ID: 80730001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8591

Level: (low/med) LOW Date Received: 04/20/01

% Moisture: not dec. _____ Date Analyzed: 04/23/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	3	J
75-01-4	Vinyl Chloride	22	
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	210	
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	4	J
1330-20-7	Xylene (Total)	37	
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E041801

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80730

Matrix: (soil/water) WATER Lab Sample ID: 80730002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8590

Level: (low/med) LOW Date Received: 04/20/01

% Moisture: not dec. _____ Date Analyzed: 04/23/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	1	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	33	
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	6	
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80730

Matrix: (soil/water) WATER Lab Sample ID: V5B0423A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5C8577

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/23/01

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80730

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK5U	103	106	99	103	0
02	VBLK5ULCS	103	106	106	103	0
03	E041801	105	105	100	102	0
04	I041801	101	102	100	99	0
05						
06						
07						
08						
09						
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12						
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27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(79-122)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(76-121)
SMC3 (TOL)	= Toluene-d8	(82-118)
OTHER(BFB)	= Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 80730

Lab File ID: V5C8577 Lab Sample ID: V5B0423A

Date Analyzed: 04/23/01 Time Analyzed: 1641

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK5ULCS	V5L0423A	V5C8578	1709
02	E041801	80730002	V5C8590	2242
03	I041801	80730001	V5C8591	2310
04				
05				
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30				

COMMENTS:

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:	I041801	Analysis Date:	4/28/01
Lab ID:	80730001	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.2	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	100	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	0.04	0.03
Iron	2.6	0.3
Lead	0.04	0.01
Magnesium	17	0.5
Manganese	1.2	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	7	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	24	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	0.11	0.05

QC Batch: 0426PBW2

ND = Not Detected

80730001

007

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:	E041801	Analysis Date:	4/28/01
Lab ID:	80730002	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.3	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	8.2	0.3
Lead	0.03	0.01
Magnesium	18	0.5
Manganese	1.6	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	8	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	27	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0426PBW2

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:		Analysis Date:	4/28/01
Lab ID:	Prep Blank, 0426PBW2	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	ND	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	ND	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	ND	0.3
Lead	ND	0.01
Magnesium	ND	0.5
Manganese	ND	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	ND	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	ND	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0426PBW2

ND = Not Detected

80730-PB

003

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Scientech		
Client ID:		Analysis Date:	4/28/01
Lab ID:	Lab Control Sample, 0426LCSW2	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	% Recovery
Aluminum	95
Antimony	112
Arsenic	105
Barium	96
Beryllium	97
Cadmium	114
Calcium	97
Chromium	98
Cobalt	99
Copper	103
Iron	97
Lead	113
Magnesium	97
Manganese	97
Mercury	94
Nickel	99
Potassium	96
Selenium	113
Silver	102
Sodium	100
Thallium	114
Vanadium	96
Zinc	98

QC Batch: 0426PBW2

80730-LCS

013

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:	I041801	Analysis Date:	4/28/01
Lab ID:	80730001	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.2	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	100	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	0.04	0.03
Iron	2.6	0.3
Lead	0.04	0.01
Magnesium	17	0.5
Manganese	1.2	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	7	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	24	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	0.11	0.05

QC Batch: 0426PBW2

ND = Not Detected

80730001

011

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:	E041801	Analysis Date:	4/28/01
Lab ID:	80730002	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	0.3	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	110	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	0.04 ND	0.03
Iron	8.2	0.3
Lead	0.03	0.01
Magnesium	18	0.5
Manganese	1.6	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	8	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	27	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0426PBW2

ND = Not Detected

Analysis Report: Total Metals

Client:	Scientech	Concentration in:	mg/L
Client ID:		Analysis Date:	4/28/01
Lab ID:	Prep Blank, 0426PBW2	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	Results	Reporting Limit
Aluminum	ND	0.3
Antimony	ND	0.03
Arsenic	ND	0.02
Barium	ND	0.2
Beryllium	ND	0.006
Cadmium	ND	0.005
Calcium	ND	0.8
Chromium	ND	0.02
Cobalt	ND	0.05
Copper	ND	0.03
Iron	ND	0.3
Lead	ND	0.01
Magnesium	ND	0.5
Manganese	ND	0.05
Mercury	ND	0.0008
Nickel	ND	0.05
Potassium	ND	2
Selenium	ND	0.02
Silver	ND	0.03
Sodium	ND	1
Thallium	ND	0.01
Vanadium	ND	0.05
Zinc	ND	0.05

QC Batch: 0426PBW2

ND = Not Detected

Analysis Report: Total Metals

Client:	Scientech		
Client ID:		Analysis Date:	4/28/01
Lab ID:	Lab Control Sample, 0426LCSW2	Analysis Method:	245.1(Mercury)
Matrix:	Aqueous		200.7(Others)

Analyte	% Recovery
Aluminum	95
Antimony	112
Arsenic	105
Barium	96
Beryllium	97
Cadmium	114
Calcium	97
Chromium	98
Cobalt	99
Copper	103
Iron	97
Lead	113
Magnesium	97
Manganese	97
Mercury	94
Nickel	99
Potassium	96
Selenium	113
Silver	102
Sodium	100
Thallium	114
Vanadium	96
Zinc	98

QC Batch: 0426PBW2

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: GTSI041801
Lab ID: *80730001*

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	320	4	mg equiv CaCO3/L	SM2340 B	4/28/01
pH	7.3		S.U.	SM 4500-H+	4/20/01
Total Dissolved Solids	480	10	mg/L	SM 2540-C	4/20/01
Total Suspended Solids	ND	10	mg/L	SM 2540-D	4/20/01

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID: E041801
Lab ID: 80730002

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	350	4	mg equiv CaCO3/L	SM2340 B	4/28/01

80730002

016

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID:
Lab ID: Prep Blank

Matrix: Aqueous

Analyte	Results	Reporting Limit	Units	Analysis Method	Analysis Date
Hardness	ND	4	mg equiv CaCO3/L	SM2340 B	4/28/01
Total Dissolved Solids	ND	10	mg/L	SM 2540-C	4/20/01
Total Suspended Solids	ND	10	mg/L	SM 2540-D	4/20/01

ND = Not Detected

80730-PB

017

MITKEM CORPORATION

Analysis Report: Wet Chemistry Parameters

Client: Scientech, Inc.
Client ID:
Lab ID: Lab Control Sample

Matrix: Aqueous

Analyte	% Recovery	Analysis Method	Analysis Date
Total Dissolved Solids	90	SM 2540-C	4/20/01
Total Suspended Solids	100	SM 2540-D	4/20/01

80730-LCS

612

MITKEM CORPORATION

04/20/01 03:00 PM | Page 1 of 1 | Original | Lab Workorder #: **80730**

Lab Workorder **80730** **R0**

Client: **Scientech, Inc.**
Lab Workorder ID: **FORMER NE ALLOYS + METALS**
Client Proj ID:
Client PO #:
Project / Profile Name: **Routine**
Date Due: **05/04/01**
Customer Service:
Del Req'd: **Commercial Reports**
Completed?:
Total Price: **$525.00**

Logged In By:
Reviewed By:

Date Opened: **04/20/01 14:58**
Date Closed: **04/20/01 15:00**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Price	Collected	Received	Due	Notes
80730001	I041801	W	SAMPLE	624	$110.00	04/18/01 13:45	04/20/01	05/04/01	GTSI041801
				TALMETW	$115.00				
				S4500BW pH	$5.00				
				160.1W TDS	$15.00				
				160.2W TSS	$15.00				
				S2340WHarB	$20.00				
80730002	E041801	W	SAMPLE	624	$110.00	04/18/01 14:00	04/20/01	05/04/01	GTSE041801
				TALMETW	$115.00				
				S2340WHarB	$20.00				
				Total Price:	$525.00				

INVOICE AND REPORT GO TO:

Bob Peak
Scientech, Inc.
44 Shelter Rock Road
Danbury, CT, 06810
W : (203)796-5000
F : (203)792-3168

013

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY: ScienTech Inc	PHONE: 203-796-5000	COMPANY:	PHONE:	30730
NAME: Bob McPeak	FAX: 203-792-3168	NAME: Same	FAX:	TURNAROUND TIME:
ADDRESS: 44 Shelter Rock Rd.		ADDRESS:		
CITY/ST/ZIP: Danbury, CT 06810		CITY/ST/ZIP:		

CLIENT PROJECT NAME: Former N.E. Alloys + Metals Utica, N.Y.

CLIENT PROJECT #: 31104

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TCL VOCs 624	TAL Metals 200.7 3451	ph 150.1	TDS 160.1	TSS 160.2	Hardness 130.1	COMMENTS
GTSI041801	4/18/01 13:15			X			01	6	X	X	X	X	X	X	
GTSE041801	4/18/01 11:00			X			02	4	X	X				X	
	/														
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SF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Wayne DeGolier	4/18/01 12:00 PM	Sent FedEx	4/19/01 12:00 PM
2		/		
3		/		/

ADDITIONAL REMARKS:

COOLER TEMP:

WHITE: LABORATORY COPY **YELLOW**: REPORT COPY **PINK**: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Page ___ of ___

Received By:	Reviewed By:	Date:	MITKEM Project #:
Client Project:		Client:	

Condition:

1) Custody Seal(s) — Present / Absent; Coolers / Bottles; Intact / Broken

2) Custody Seal Number(s) ________

3) Chain-of-Custody — Present / Absent

4) Cooler Temperature ________

Coolant Condition ________

Airbill(s) ________

Airbill Number(s) ________

) Sample Bottles — Intact / Broken / Leaking

Date Received 4/20/01

Time Received 0900

Lab Sample ID	Preservation (pH) HNO$_3$	H_2SO_4	HCl	NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
[illegible]	[illegible]					
[illegible]	[illegible]					

VOA Matrix Key:

S = Unpreserved Soil — M = MeOH

A = Unpreserved Aqueous — E = Encore

Both MeOH & $NaHSO_4$ — H = HCl

= $NaHSO_4$ — A = AIR

Sample Notification Form yes / no

021

Last Page of Data Report