401SERBSF10,625

401SERBSF10,625

Site Name (Subject):	STEWART-WARNER CORP/BASSICK-SACK
Site ID (Document ID):	NCD024895864
Document Name (DocType):	Contractor Report (CONTR)
Report Segment:	
Description:	Groundwater Data
Date of Document:	10/1/1992
Date Received:	10/1/1992
Box: *Enter SF and # with no spaces*	SF10,625
Access Level:	PUBLIC
Division:	WASTE MANAGEMENT
Section:	SUPERFUND
Program (Document Group):	SERB (SERB)
Document Category:	FACILITY

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MEMORANDUM

POYNER&SPRUILL
ATTORNEYS AT LAW
POST OFFICE BOX 10096
RALEIGH, NC 27605-0096
TELEPHONE 919-783-6400

TO: Grover Nicholson

FROM: Keith Johnson

RE: Groundwater data requested DATE: 10/1/92

Please call if you have any questions about the enclosed documentation.

CHRONOLOGY OF BURIED DRUM PITS

1/19/87 ILCO contracts to purchase Stewart Warner-Bassick Sack(SW) property located in Winston-Salem. Two cyanide spills occur, are reported to the Solid & Hazardous Waste Section and SW agrees to clean them up. SW also warrants and represents the following:

> Other than the two spill sites previously disclosed to Buyer...there are no existing claims, demands, damages, expenses, suits proceedings, actions or causes of action of any nature, whether threatened or pending, arising out of the presence on the property, either past or present, of any hazardous substances or hazardous wastes, or out of any past or present activities conducted on the Property, whether or not conducted by Sellers, involving hazardous substances;
>
> ...following the remedial work to be performed by GSX Chemical Services, Inc., to the satisfaction of the appropriate final authority...the two spill sites on the Property will not contain, and to the knowledge of Sellers' officers and management the remainder of the Property will not contain hazardous waste chemical contaminants existing prior to the Transfer Day at levels which require reporting under any existing applicable environmental law or regulation

2/88 SW notifies ILCO that an employee has disclosed that unknown number of drums(substances unknown) were buried at a particular location on the Property during the 50s. SW represents to ILCO that it is not known whether there is any contamination from these drums, but that SW will "take whatever remedial action is legally required with respect to any hazardous waste that may be discovered in the drum and crucibles and the surrounding soil" in this area. Property is transferred to ILCO.

2/21/88 SW reports to Solid & Hazardous Waste Section that drums located in "pit area," which is partially excavated. Analysis of soil shows volatile contamination with toluene up to 15,000 ppb and Trichloroethene at 790 ppb.

3/1/88 SW notifies CERCLA Branch of discovery of buried drums

summer Unknown amount of excavation is done by SW; samples taken from sidewalls and bottom of pits are composited and a single analysis is done per pit. Excavation is continued

until single composite analysis reveals less than 20 ppb for volatiles. Pits are re-filled. No groundwater monitoring is done.

11/16/88 Doug Holyfield writes to SW attorney Brad DeVore on behalf of N.C. Hazardous Waste Branch that his review of clean up efforts does not indicate the need for additional clean up "at this time" but that "additional site and record reviews may be undertaken by [the CERCLA] program and it may not preclude the possibility that the Division of Environmental Management may choose to evaluate the groundwater."

11/91 ILCO discovers former production well on Property. Water is sampled and shows Tetracloroethene at 200 ppb and Trichloroethene at 14 ppb.

4/92 ILCO places monitor well in Pit C area. Test results received in May show Trichloroethene at 6300 ppb.

TABLE OF CONTENTS

INDEX OF DOCUMENTS

MEETING WITH DIVISION OF ENVIRONMENTAL MANAGEMENT-WSRO

June 5, 1992

1. Letter from Edgar DeVylder to Aaron Fish dated 2/2/88 regarding potential of additional contamination at Bassick-Sack Facility.

2. Letter from Wes Kiley to Aaron Fish dated 2/4/88 confirming that Stewart-Warner Bassick Sack Corporation will take remedial action required with respect to hazardous waste discovered in the drum and crucibles and the surrounding soil, if any.

3. Letter from Brad DeVore to Aaron Fish and Eddy Rosenberg dated 2/4/88 updating 2/2/88 letter from DeVylder re additional contamination.

4. Letter from Brad DeVore to Douglas Holyfield dated 2/21/88 regarding discovery of additional areas of contamination at Bassick-Sack facility and proposed plan for remediation. (Addendum to plan attached).

5. Letter from Brad DeVore to Lee Crosby (CERCLA) dated 3/1/88 regarding discovery of additional contamination.

6. Letter from Brad DeVore to Gary Babb dated 7/6/88 regarding permission to backfill certain excavated areas (designated as "Area A" and "Area B") at Bassick-Sack Facility. (Sample Analyses Report attached).

7. Letter from Brad DeVore to Gary Babb dated 7/14/88 regarding permission to backfill certain excavated areas (designated as "Area C") at Bassick-Sack Facility. (Sample Analyses Report attached).

8. Letter from Brad DeVore to Douglas Holyfield dated 9/5/88 regarding report on completion of all remedial activities at Bassick-Sack Facility located at 2941 Indiana Avenue, Winston-Salem, NC.

9. Letter from Douglas Holyfield to Brad DeVore dated 11/16/88 confirming (per report) that site remediation activities are complete.

10. IEA lab results: VOC analysis of soil boring samples taken from pit C to depth of 22 feet during week of 10/1/90.

11. Summary of results of groundwater sampling on 11/26/91 of the former production well at Ilco by Geraghty & Miller.

12. Letter from Mark Radecke to Susie Gibbons dated 5/21/92 enclosing validated analytical data report for MW-1 (in Table 1).

13. **SITE MAP** showing location of pit C and monitoring well #1

MJ1660\00081
STATE.IND

BTR INC.

1000 ONE MAIN PLACE, STAMFORD, CONNECTICUT 06902 USA TEL. 203-324-3600

February 2, 1988

via FAX

Mr. Aaron M. Fish, President
Ilco Unican Corp.
400 Jeffries Road
Rocky Mount, NC 27802

RE: Potential of Additional Contamination at Bassick-Sack Facility

Dear Mr. Fish:

As you are aware, Bassick-Sack has retained GSX Chemical Services, Inc. to excavate, remove and dispose of contaminated soils from two previously disclosed spill sites located on or about the Bassick-Sack facility. In the course of these activities, additional potentially contaminated areas have been discovered.

Briefly, one crushed steel drum has been unearthed from an area on the Bassick-Sack property outside of the "Butler Building." Jim Chesire of R&A Laboratories (our technical consultant) has taken soil samples from both within and outside of the barrel. Test results of these samples should be available on or before February 4, 1988. In addition, some ceramic "crucibles" have been unearthed at a location outside of the Bassick-Sack foundry area. While these crucibles did not appear to contain material of any kind, the soil in that area will also be tested. Finally, Jim Chesire will evaluate both of these areas with a metal detector on February 2, 1988 to determine if additional barrels, crucibles or other materials may exist below the surface and if so, will take action to unearth and sample them.

At this time, we fail to possess any evidence indicating the above described areas are contaminated with hazardous waste or hazardous substances. In view of our February 4, 1988 closing date, we will attempt to keep you updated as further information is acquired.

Very truly yours,

Edgar P. DeVylder

Edgar P. DeVylder, Jr.
Vice President and
General Counsel

P100412

EPD:cjh

c: P. M. Blaikie, Q.C.

TELEX 6814072

BTR INC.

1000 ONE MAIN PLACE. STAMFORD. CONNECTICUT 06902 USA

TEL. 203-324-3600

DATE: Feb. 2, 1988

ATTN: Aaron M. Fish, President

FROM: E. P. DeVylder, Esq. TELEPHONE EXT: 348

COPY: _____

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**********************************************************************
*
*              ** MULTIFAX TRANSMIT CONFIRMATION REPORT **
*
*          Journal No.   :  016
*          Receiver      :      514 273 3521
*          Transmitter   :  BTR STAMFORD. CT
*          Date          :  Feb 02.88 16:19
*          Document      :  02 pages
*          Time          :  00'54"
*          Mode          :  S3 NORMAL
*          Result        :  OK
*
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P100413

BTR INC.
1000 ONE MAIN PLACE. STAMFORD, CONNECTICUT 06902 USA
TEL. 203-324-3600

DATE: Feb. 2, 1988

ATTN: Peter M. Blaikie, Q.C.

FROM: E.P. DeVylder, Esq. TELEPHONE EXT: 348

COPY: _____

*dex3200*HEENAN, BLAIKIE & AND ASSOCIATES. MONTREAL,QUE
16:16 FEB 02,88
RECEIVED 002 PAGES

P 100414

TELEX. 6814072

BTR INC.

1000 ONE MAIN PLACE, STAMFORD, CONNECTICUT 06902 USA

TEL. 203-324-3600

DATE: Feb. 2, 1988

ATTN: Wes Kiley

FROM: Ed DeVylder TELEPHONE EXT: 348

COPY: _____

TOTAL PAGES (INCLUDING THIS COVER SHEET) _____

OPERATOR: _____

P100415

TELEX. 6814072

COPY

February 4, 1988

Mr. Aaron M. Fish, President
ILCO UNICAN CORPORATION
400 Jeffries Road
Rocky Mount, NC 27802

RE: Bassick-Sack

Dear Mr. Fish:

This confirms that Stewart-Warner Corporation and Stewart-Warner Bassick-Sack Corporation (the "Companies") will take whatever remedial action is legally required with respect to any hazardous waste that may be discovered in the drum and crucibles and the surrounding soil, if any, that has been contaminated therefrom, described in Edgar P. DeVylder's February 2, 1988 letter (copy attached) to you and any hazardous waste that may be discovered in the approximate twenty (20) by ten (10) foot area described in Mr. DeVore's February 4, 1988 letter (copy attached) to you and Mr. Rosenberg. This remedial action is not subject to the $150,000 threshold stated in the Purchase and Sale Agreement between the Companies and Ilco Unican Corporation dated as of January 19, 1988 (the "Agreement") and is being undertaken to cure what may otherwise have been a breach of Paragraphs 8(k)(iii) and 18(d) of the Agreement.

Sincerely yours,

STEWART-WARNER CORPORATION

BY: _____
Its

STEWART-WARNER BASSICK SACK CORPORATION

BY: _____
Its

Acknowledged and agreed:

ILCO UNICAN CORPORATION

By: _____
Its President

P 100381

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WRITER'S DIRECT NUMBER

(919) 721-3714

February 4, 1988

W/S Acquisition

Mr. Aaron M. Fish
President
ILCO Unican Corporation
400 Jeffries Road
Rocky Mount, North Carolina 27802

Eddy Rosenberg
C.A., Vice President, Finance
ILCO Unican Corporation
400 Jeffries Road
Rocky Mount, North Carolina 27802

Re: Potential of additional contamination at Bassick-Sack facility

Gentlemen:

This is an update of Edgar P. DeVylder's letter of February 2, 1988 outlining the discovery of additional potentially contaminated areas of the Bassick-Sack facility.

As you are aware, Jim Chesire of R&A Laboratories was to evaluate the potentially contaminated area to determine if additional barrels, crucibles or other materials may exist below the surface. This action was taken on February 3, 1988 with a Gemini II metal detector set to detect large metal objects at depths reaching thirty-five (35) feet. The evaluation failed to reveal any high concentrations of metal with the exception of one area approximately twenty (20) by ten (10) feet located in the southern section of the Bassick-Sack property. This area may contain some contaminated materials, however we have no evidence at this time to support that supposition.

Efforts are now underway with GSX Chemical Services, Inc. (the company conducting the excavation of previously disclosed spill sites) and R&A Laboratories to excavate the area and take samples of potentially contaminated materials or soil, if any, discovered. Again, in view of our February 4, 1988 closing date, we will attempt to keep you updated as further information is acquired.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Edgar P. DeVylder, Esq.

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WRITER'S DIRECT NUMBER

(919) 721-3714

February 21, 1988

RECEIVED
FEB 25 1988
E.P. Davis

Mr. R. Douglas Holyfield
Field Operations Supervisor
Hazardous Waste Compliance Unit
Solid & Hazardous Waste Section
306 North Wilmington Street
Room 213, Bath Building
Raleigh, North Carolina 27602

Re: Discovery of additional areas of contamination at Bassick-Sack facility and proposed plan for remediation

Dear Doug:

As you are aware, Bassick-Sack has been conducting a remedial action (which the Section permitted in its letter of August 17, 1987) at those areas described as spill sites No. 1 and No. 2 in our "Assessment of Chemical Contamination" submitted July 30, 1987. During the course of excavation and removal we have discovered an additional contaminated area adjacent to the Bassick-Sack facility.

Briefly, on February 10, 1988 pursuant to the instructions of Bassick-Sack, GSX Chemical Services, Inc. personnel excavated an area adjacent to the Bassick-Sack facility to an approximate depth of three (3) feet revealing a number (approximately ten (10)) of drums, the contents of which were unknown. Steve Phibbs of the Section observed the excavation while at the Bassick-Sack facility obtaining post-excavation samples of spill sites No. 1 and No. 2. After discovery of the drums, GSX personnel, pursuant to instructions from Bassick-Sack, ceased the excavation effort and placed plastic sheeting over both a small

P100328

stockpile of soil and the excavated area. Thereafter, on the same day Jim Chesire of R&A Laboratories took multiple samples from the stockpile and excavated area in order to determine the level of contaminants, if any, in the soil or drums. Bassick-Sack requested results of all analyses be reported as quickly as possible.

On February 17, 1988, Jim Chesire presented Bassick-Sack with the results of RCRA E.P. toxicity and volatile organic analyses of the drum contents and surrounding soils. These results, (Attachment 1), indicate minimal levels of heavy metals contamination (E.P. toxicity). However, various volatile organics were detected, including toulene at 15,000 ppb.

In view of the discovery of this additional contamination, Bassick-Sack submits an addendum, (Attachment 2), to its "Comprehensive Sampling/Analysis Plan to Determine the Extent of Chemical Contamination at Spill Sites located at Bassick-Sack Division, Winston-Salem, North Carolina," which was submitted to the Section in August, 1987. The addendum outlines the procedures Bassick-Sack will instruct its contractor to follow in remediating this contamination. Those procedures include, but are not limited to: the use of portable direct reading instruments to determine airborne levels of organics; the use of overpacks for buckled or corroded drums; the use of roll-off containers for drums and contaminated soil; and sorbents, pumps and other equipment to properly control any spills. In addition, Bassick-Sack will instruct its contractor to conduct all remedial actions in compliance with applicable United States Environmental Protection Agency and Occupational Safety and Health Act regulations.

Bassick-Sack intends to have all excavated barrels and contaminated soils removed to a level protective of human health and the environment. All contaminated materials will be properly transported to either a RCRA permitted landfill or incinerator, as may be required. Bassick-Sack intends to have the "drum pit" area excavated to a depth approximately one (1) foot below its bottom. Post-excavation samples will then be taken and subjected to those analyses indicated in the addendum. Thereafter, results will be shared with the Section to determine if backfilling may be permitted.

Based on the foregoing, Bassick-Sack requests the Section permit it to go forward in remediating this contamination. Further, we request the Section respond in writing as quickly as possible given the nature of the situation. Should you have any questions concerning the contents of this letter or its attachments, please feel free to call upon me.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Edgar DeVylder, Esq.
R. Howard Grubbs, Esq.
Jim Stanley
Steve Phibbs

P 100330

2.7 Addendum to Comprehensive Sampling/Analysis Plan to Determine the Extent of Chemical Contamination at Spill Site(s) Located at Bassick-Sack Division, Winston-Salem, North Carolina

In addition to the remedial activities described in Section 2.6 of the Comprehensive Sampling/Analysis Plan (June 1987) it was necessary to include this contingency section in the Plan in case of the detection of buried drums identified on the property.

2.71 Drum Excavation/Removal Procedures

The following procedures will be followed upon detection of buried drum(s) on the property using a Fisher model two (2) box metal detector:

Air monitoring will be conducted to determine unsafe levels of hazardous constituents as soils and drums are being excavated. Portable direct reading instruments which will be used for this purpose include:

-Photoionization Detectors

-Combustible gas detectors for measuring the lower explosive limit.

As drums are uncovered, a visual inspection of the drum will be made to determine whether it is empty, intact, leaking or potentially dangerous. Evidence of bulking, buckling, corrosion or other deformations will be noted.

Drums suspected of containing explosive or shock sensitive materials will be handled remotely or with vehicles equipped with a plexiglas safety shield. Drums critically over pressurized will be isolated until the pressure can be relieved remotely. Leaking drums, badly corroded drums or deformed drums will be overpacked or have its contents transferred to a new or reconditioned container.

Gas cylinders, if encountered, will be moved to an area where the temperature can be controlled and they are not effected by direct sunlight. Gas cylinders will not be rolled or slid. Care will be taken not to drop the cylinders or allow them to strike one another.

Contaminated soils and drums will be transferred to roll-off containers or a temporary storage area as they are being excavated. Gas analyzers will be used to determine the approximate level of contamination in the soil. Pools of liquid waste will be removed using pumps.

Environmental Controls

The following preventive and mitigative measures will be followed for controlling environmental releases during the excavation activities:

1) Contaminated soils which have been excavated will be covered with visqueen to prevent leaching of contaminants.

2) Sorbents, pumps and other equipment will be used throughout the operation to clean up spills promptly.

3) Drums that are leaking or may soon leak will be promptly overpacked.

4) Supplies of overpacks and drums will be maintained in the work areas.

5) Incompatible wastes will not be mixed.

2.72 Sampling and Analysis

Upon removal of drum(s) and potentially contaminated soil (ie: horizontally and vertically) samples will be collected as approved in this Plan and analyzed for the following:

1) RCRA Extractable Metals & Cyanide

2) RCRA Ignitability

3) RCRA Reactivity

4) RCRA Corrosivity

5) Priority Pollutant Analyses (Metals, VOA, Base-neutral, Acid Extractable, PCB, etc.)

P100332

TABLE VI - RCRA AND Volatile Organic Analysis for Selected Parameters at Drum Pit 2, Bassick-Sack, Winston-Salem, North Carolina

Parameter	Type	Unit	Concentration
Zinc	RCRA	mg/l	96.9
Copper	RCRA	mg/l	1.49
Nickel	RCRA	mg/l	1.6
Chromium	RCRA	mg/l	<0.015
Lead	RCRA	mg/l	<0.1
Arsenic	RCRA	mg/l	<0.011
Selenium	RCRA	mg/l	<0.003
Barium	RCRA	mg/l	0.714
Silver	RCRA	mg/l	<0.13
Cadmium	RCRA	mg/l	0.083
Cyanide	Extratable	mg/l	<0.005
Cyanide	RCRA	mg/kg	9.64
Sulfide	RCRA	mg/kg	14.4
Ethyl benzene	VOA	µg/kg	1,500
Toluene	VOA	µg/kg	15,000
Trichloroethene	VOA	µg/kg	790
T. Xylenes	VOA	µg/kg	8,600
Flash Point	RCRA	°F	>140
Corrosivity	RCRA	pH Std. Units	6.1

P 100333

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WRITER'S DIRECT NUMBER

(919) 721-3714

March 1, 1988

Ms. Lee Crosby
North Carolina Department of Human Resources
Solid & Hazardous Waste Section
CERCLA Unit
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Re: Notice pursuant to 42 U.S.C. § 9603(c) -- Bassick-Sack facility

Dear Lee:

As you are aware, we represent Bassick-Sack as to its facility located in Winston-Salem, North Carolina. The purpose of this letter is to notify you pursuant to 42 U.S.C. § 9603(c), as may be required, of the existence of a potential "facility" at which hazardous substances may have been stored or disposed. Attached is a letter dated February 21, 1988 to Mr. R. Douglas Holyfield, Field Operations Supervisor, Solid & Hazardous Waste Section, North Carolina Department of Human Resources. As the letter indicates, Bassick-Sack has been conducting a remedial action (with the permission of the Solid & Hazardous Waste Section) at those areas described as spill sites No. 1 and No. 2 in our "Assessment of Chemical Contamination" submitted to the Section July 30, 1987. During the course of this remedial action we have discovered an additional contaminated area adjacent to the Bassick-Sack facility.

Further, as the letter indicates, Bassick-Sack had GSX Chemical Services, Inc. personnel excavate an area adjacent to the Bassick-Sack facility to an approximate depth of three (3) feet revealing a number (approximately ten (10)) drums from which

P 100299

our technical consultant took multiple samples. The results of those samples indicates the existence of minimal levels of heavy metals contamination (substantially below E.P. toxicity). However, a number of volatile organics, at varying levels, were detected.

In view of the discovery of this additional contamination, Bassick-Sack submitted on February 21, 1988 an addendum to its "Comprehensive Sampling/Analysis Plan to Determine the Extent of Chemical Contamination at Spill Sites Located at Bassick-Sack Division, Winston-Salem, North Carolina," previously submitted to the Solid & Hazardous Waste Section in August, 1987. The addendum outlined the general procedures Bassick-Sack will instruct its contractor to follow in remediating this contamination.

On February 29, 1988, R. Douglas Holyfield of the Solid & Hazardous Waste Section permitted Bassick-Sack to go forward in remediating this contamination. Post-excavation samples will later be shared with the Solid & Hazardous Waste Section.

At this time, the total amount of hazardous substances, if any, within the pit area is unknown. As this information becomes available, we will share it with the Solid & Hazardous Waste Section in conjunction with our post-excavation sampling results and backfilling requests.

Should you have any questions concerning the contents of this letter please feel free to call upon me.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Edgar DeVylder, Esq.
Jim Stanley
R. Howard Grubbs, Esq.

P 100300

COPY

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WRITER'S DIRECT NUMBER

(919) 721-3714

July 6, 1988

Mr. Gary Babb
Compliance
Department of Human Resources
Solid and Hazardous Waste Management Section
P.O. Box 2091
Raleigh, North Carolina 27602-2091

Re: Bassick-Sack Facility -- Permission to backfill certain excavated areas

Dear Gary:

The purpose of this letter is to confirm our conversation of June 6, 1988 regarding the above referenced matter. Specifically, you were presented with the following information in an effort to obtain the Section's permission to backfill these areas.

First, Bassick-Sack has retained GSX Services, Inc. to excavate those areas to be designated in R&A Laboratories' final report as "Area A" and "Area B". Second, upon completion of the excavation, R&A Laboratories took samples from the sides (approximately 10) and the bottoms (approximately 10) of each of the areas. These multiple samples were then composited for each of the areas and were thoroughly mixed to create representative samples. Third, R&A Laboratories then subjected the samples to analyses for volatile organics (EPA method 624) and other constituents (EP Toxicity). A review of the results of those analyses is enclosed.

It is our understanding that based upon the above information, the Section has granted Bassick-Sack permission to

P100041

backfill those excavated areas to be designated as "Area A" and "Area B" in the R&A Laboratories final report. This permission was granted because the residual contamination within these areas failed to exceed any limits imposed by the Section. Bassick-Sack will be relying upon this commitment in backfilling the areas on July 11, 1988.

Should you disagree with or have any questions concerning the contents of this letter please contact me prior to July 11, 1988. We appreciate your cooperation in this matter.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Edgar DeVylder, Esq. (w/ enclosure)
Jim Stanley (w/ enclosure)
Jim Chesire (w/ enclosure)

P 100042

POST EXCAVATION SAMPLE ANALYSES REPORT

Volatile Organics (VOA)/EPA Method 624

"A"	"B"
< 20 ppb for all VOAs	< 20 ppb for all VOAs

EP TOXICITY (Extractables)

	"A"	"B"
Chromium	< 0.017	< 0.017
Copper	< 1.77	< 5.32
Lead	< 0.10	< 0.10
Nickel	< 0.47	< 0.529
Zinc	< 37.3	< 192.0
Cyanide	< 0.005	< 0.005
Sulfide	< 2.56	< 2.88
Ignitability	> 140°F	> 140°F
Corrosivity	6.6	6.6

P 100043

ATTACHMENT 30.
Question 2

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WRITER'S DIRECT NUMBER

(919) 721-3714

July 14, 1988

Mr. Gary Babb
Compliance
Department of Human Resources
Solid and Hazardous Waste Management Section
P.O. Box 2091
Raleigh, North Carolina 27602-2091

Re: Bassick-Sack Facility -- Permission to backfill certain excavated areas

Dear Gary:

The purpose of this letter is to confirm our conversation of July 13, 1988 regarding the above referenced matter. Specifically, you were presented with the following information in an effort to obtain the Sectin's permission to backfill this area.

First, Bassick-Sack has retained GSX Services, Inc. to excavate those areas to be designated in R&A Laboratories' final report as "Area C". Second, upon completion of the excavation, R&A Laboratories took samples from the sides (approximately 10) and the bottoms (approximately 10), of the area. These multiple samples were then composited and thoroughly mixed to create a representative sample. Third, R&A Laboratories then subjected the sample to analyses for volatile organics (EPA method 624) and other constituents (EP Toxicity). A review of the results of those analyses is enclosed.

It is our understanding that based upon the above information, the Section has granted Bassick-Sack permission to backfill that excavated area to be designated as "Area C" in the

R&A Laboratories final report. This permission was granted because the residual contamination within this area failed to exceed any limits imposed by the Section. Bassick-Sack will be relying upon this commitment in backfilling the area on July 18, 1988.

Should you disagree with or have any questions concerning the contents of this letter please feel free to contact me prior to July 18, 1988. We appreciate your cooperation in this matter.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Edgar DeVylder, Esq. (w/ enclosure)
Jim Stanley (w/ enclosure)
Jim Chesire (w/ enclosure)

POST EXCAVATION SAMPLE ANALYSES REPORT FOR AREA "C"

Volatile Organics (VOA)/EPA Method 624

< 20 ppb for all VOAs

EP TOXICITY (Extractables) FOR AREA "C"

Chromium	< 0.04
Copper	< 9.2
Nickel	< 0.47
Zinc	< 77.0
Cyanide	< 0.005

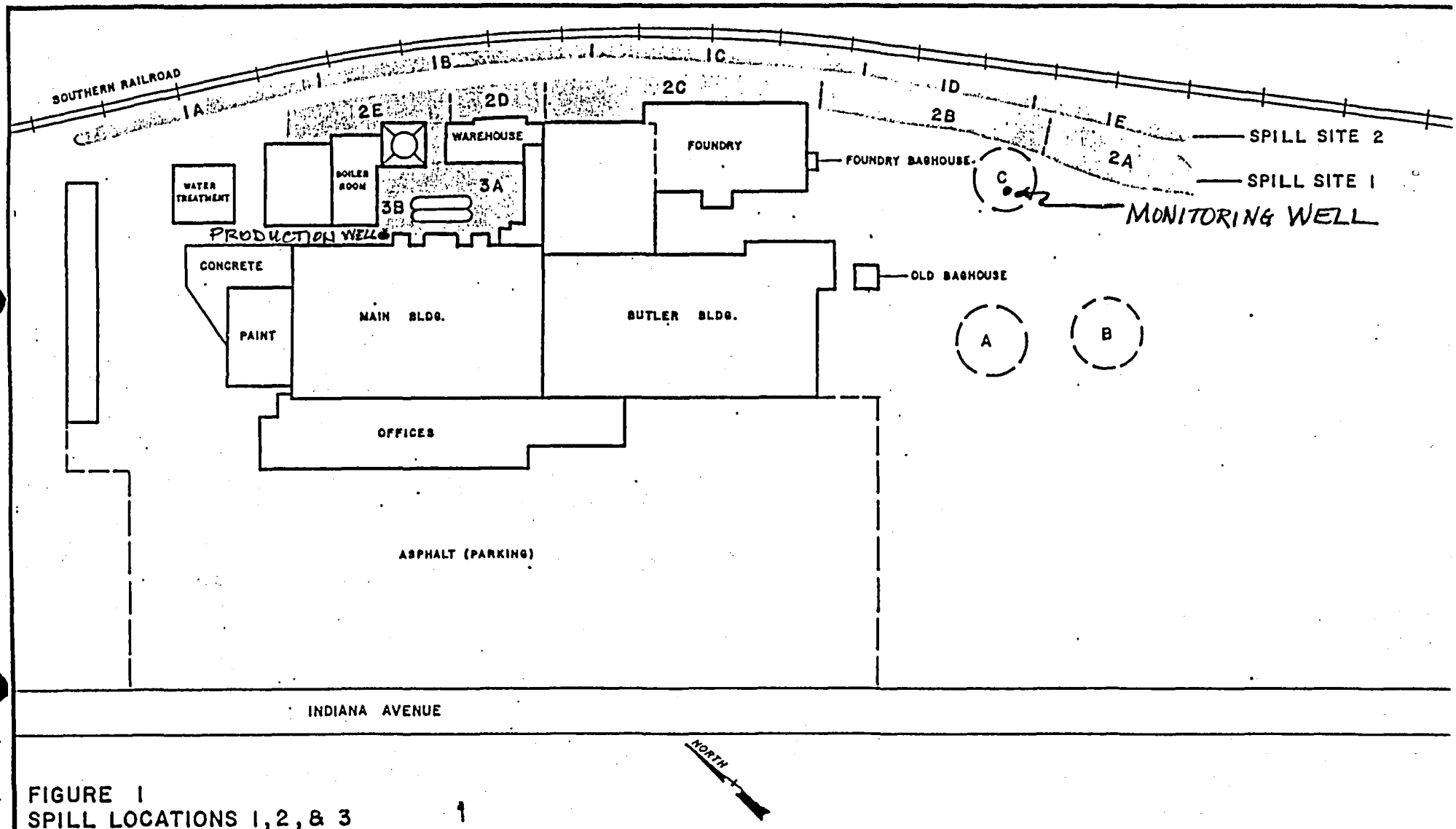

FIGURE 1
SPILL LOCATIONS 1, 2, & 3
EXCAVATION PITS A, B, & C
ILCO-UNICAN
WINSTON-SALEM, NORTH CAROLINA

GROUNDWATER TECHNOLOGY, INC.

COPY

Doug,
Call Brian Wells about cleanup at Bassick Sack.
446-3321

Gary

(919) 721-3714

September 5, 1988

RECEIVED
SEP 8 1988
HAZARDOUS WASTE BRANCH

Mr. R. Douglas Holyfield
Field Operations Supervisor
Hazardous Waste Compliance Unit
Solid and Hazardous Waste Section
306 N. Wilmington Street
Room 213, Bath Building
Raleigh, North Carolina 27602

Re: Bassick-Sack -- Remedial Activities -- Report on Completion of all Activities at Facility Located at 2941 Indiana Avenue, Winston-Salem, NC

Dear Doug:

The purpose of this letter is to provide you with the necessary information to confirm Bassick-Sack has completed all required remedial activities at the above referenced location. In support of this statement, please find enclosed final reports covering the remedial actions completed at the facility regarding "Spill Sites 1 and 2" and "Areas A, B and C" (Attachments I and II). Also enclosed are copies of letters to the Section confirming the permission granted to Bassick-Sack to backfill various excavated areas (Attachment III).

A review of these documents reveal the contaminants found within Spill Sites 1 and 2 and Areas A, B and C were remediated to residual levels acceptable to the Section. Thereafter, all excavated areas were properly backfilled with clean soil. Note, Steve Phibbs of your office was often in attendance during the course of the remedial activities and/or took split samples of potentially contaminated soils for analysis.

In view of the foregoing, Bassick-Sack requests the Section provide written confirmation the Company has completed all appropriate and necessary remedial activities at the site (including those required by any Notices of Violations). We appreciate the cooperation provided by yourself and other members of the Section in completing these activities. In the event you have questions concerning the enclosed documents or this request, please feel free to contact me directly.

Very truly yours,

Brad A. DeVore

BAD/asi

cc: Gary Babb (w/ enclosures)
Edgar DeVylder, Esq. (w/ enclosures)
R. Howard Grubbs, Esq. (w/ enclosures)

North Carolina Department of Human Resource
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Rc

November 16, 1988

Mr. Brad A. DeVore
Womble, Carlyle, Sandridge and Rice
P.O. Drawer 84
Winston-Salem, North Carolina 27102

RE: Bassick-Sack, Completion of Remedial Activities

Dear Brad:

This office has reviewed the final report regarding site remediation and concurs with your conclusion that RCRA activities are complete. Residual levels of cyanide and the RCRA heavy metals are well within the acceptable levels previously established for Spill Sites 1 and 2. However, as noted in the analyses and your letter of 2-11-88, several secondary constituents remain above the ideal levels established in the interim primary drinking water standards. This however does not indicate the need for any additional remedial efforts at this time. In addition, our review of Areas A, B, and C indicated similar success.

In conclusion, I would like to have copies of all manifests associated with the cleanup to complete my files. In that this site is listed as a CERCLA site, and that minor residual constituents remain, additional site and record reviews may be undertaken by that program and it may not preclude the possibility that the Division of Environmental Management may choose to evaluate the groundwater. Please call if you should have any questions or comments.

Sincerely,

R Douglas Holyfield

R. Douglas Holyfield, Supervisor
Hazardous Waste Compliance Program
N. C. Hazardous Waste Branch

cc: Steve Phibbs
Gary Babb

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-16
Sample Identification: SB-C2-14
Date Analyzed: 10/17/90 By: Stephenson

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	100	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	100	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	50	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	50	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	50	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

BQL = Below Quantitation Limit

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-17
Sample Identification: SB-C2-16
Date Analyzed: 10/17/90 By: Stephenson

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	100	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	100	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	50	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	50	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	67
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	18
33	Vinyl acetate	50	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

BQL = Below Quantitation Limit

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-18
Sample Identification: SB-C2-18
Date Analyzed: 10/18/90 By: Stephenson

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	100	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	100	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	50	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	50	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	50	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

BQL = Below Quantitation Limit

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-19
Sample Identification: SB-C2-20
Date Analyzed: 10/18/90 By: Young

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)
1	Acetone	100	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	100	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	50	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	50	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	50	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

BQL = Below Quantitation Limit

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-20
Sample Identification: SB-C2-22
Date Analyzed: 10/18/90 By: Stephenson

Number	Compound	Quantitation Limit (ug/kg)	Results Concentration (ug/kg)	
1	Acetone	100	BQL	
2	Benzene	5	BQL	
3	Bromodichloromethane	5	BQL	
4	Bromoform	5	BQL	
5	Bromomethane	10	BQL	
6	2-Butanone	100	BQL	
7	Carbon disulfide	5	BQL	
8	Carbon tetrachloride	5	BQL	
9	Chlorobenzene	5	BQL	
10	Dibromochloromethane	5	BQL	
11	Chloroethane	10	BQL	
12	2-Chloroethylvinyl ether	10	BQL	
13	Chloroform	5	BQL	
14	Chloromethane	10	BQL	
15	1,1-Dichloroethane	5	BQL	
16	1,2-Dichloroethane	5	BQL	
17	1,1-Dichloroethene	5	BQL	
18	1,2-Dichloroethene (total)	5	BQL	
19	1,2-Dichloropropane	5	BQL	
20	cis-1,3-Dichloropropene	5	BQL	
21	trans-1,3-Dichloropropene	5	BQL	
22	Ethylbenzene	5	BQL	
23	2-Hexanone	50	BQL	
24	Methylene chloride	5	BQL	
25	4-Methyl-2-pentanone	50	BQL	
26	Styrene	5	BQL	
27	1,1,2,2-Tetrachloroethane	5	BQL	
28	Tetrachloroethene	5		16
29	Toluene	5	BQL	
30	1,1,1-Trichloroethane	5	BQL	
31	1,1,2-Trichloroethane	5	BQL	
32	Trichloroethene	5		11
33	Vinyl acetate	50	BQL	
34	Vinyl chloride	10	BQL	
35	Xylenes (total)	5	BQL	

Comments:

BQL = Below Quantitation Limit

GC/MS PURGEABLES
SW-846 METHOD 8240

IEA Sample Number: 560-024-21
Sample Identification: Rinsate Blank
Date Analyzed: 10/18/90 By: Casto

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Benzene	5	BQL
3	Bromodichloromethane	5	BQL
4	Bromoform	5	BQL
5	Bromomethane	10	BQL
6	2-Butanone	100	BQL
7	Carbon disulfide	5	BQL
8	Carbon tetrachloride	5	BQL
9	Chlorobenzene	5	BQL
10	Dibromochloromethane	5	BQL
11	Chloroethane	10	BQL
12	2-Chloroethylvinyl ether	10	BQL
13	Chloroform	5	BQL
14	Chloromethane	10	BQL
15	1,1-Dichloroethane	5	BQL
16	1,2-Dichloroethane	5	BQL
17	1,1-Dichloroethene	5	BQL
18	1,2-Dichloroethene (total)	5	BQL
19	1,2-Dichloropropane	5	BQL
20	cis-1,3-Dichloropropene	5	BQL
21	trans-1,3-Dichloropropene	5	BQL
22	Ethylbenzene	5	BQL
23	2-Hexanone	50	BQL
24	Methylene chloride	5	BQL
25	4-Methyl-2-pentanone	50	BQL
26	Styrene	5	BQL
27	1,1,2,2-Tetrachloroethane	5	BQL
28	Tetrachloroethene	5	BQL
29	Toluene	5	BQL
30	1,1,1-Trichloroethane	5	BQL
31	1,1,2-Trichloroethane	5	BQL
32	Trichloroethene	5	BQL
33	Vinyl acetate	50	BQL
34	Vinyl chloride	10	BQL
35	Xylenes (total)	5	BQL

Comments:

BQL = Below Quantitation Limit

Table 1. Summary of Results of Ground Water Sampling of the Former Production Well at Ilco-Unican, Winston-Salem Facility on November 26, 1991.

Constituents	TRIP-1	FB-1	PW-1
Volatile Organics / 8240 (ug/L)			
1,1,1-Trichloroethane	<5.0	<5.0	<10
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<10
1,1,2-Trichloroethane	<5.0	<5.0	<10
1,1-Dichloroethane	<5.0	<5.0	<10
1,1-Dichloroethene	<5.0	<5.0	<10
1,2-Dichloroethane	<5.0	<5.0	<10
1,2-Dichloropropane	<5.0	<5.0	<10
2-Butanone	<100	<100	<200
2-Chloroethylvinyl ether	<10	<10	<20
2-Hexanone	<50	<50	<100
4-Methyl-2-pentanone	<50	<50	<100
Acetone	<100	<100	<200
Benzene	<5.0	<5.0	<10
Bromodichloromethane	<5.0	<5.0	<10
Bromoform	<5.0	<5.0	<10
Bromomethane	<10	<10	<20
Carbon Disulfide	<5.0	<5.0	<10
Carbon tetrachloride	<5.0	<5.0	<10
Chlorobenzene	<5.0	<5.0	<10
Chloroethane	<10	<10	<20
Chloroform	<5.0	<5.0	<10
Chloromethane	<10	<10	<20
cis-1,3-Dichloropropene	<5.0	<5.0	<10
Dibromochloromethane	<5.0	<5.0	<10
Ethylbenzene	<5.0	<5.0	<10
Methylene chloride	<5.0	<5.0	<10
Styrene	<5.0	<5.0	<10
Tetrachloroethene	<5.0	<5.0	200
Toluene	<5.0	<5.0	<10
cis/trans-1,2-Dichloroethylene	<5.0	<5.0	<10
trans-1,3-Dichloropropene	<5.0	<5.0	<10
Trichloroethene	<5.0	<5.0	14
Vinyl acetate	<50	<50	<100
Vinyl chloride	<10	<10	<20
Xylenes	<5.0	<5.0	<10

NA - Indicates that the sample was not analyzed for this constituent.
TRIP-1 - Trip Blank.
FB-1 - Field Blank.
PW-1 - Production Well Sample.

Table 1. Summary of Results of Ground Water Sampling of the Former Production Well at Ilco-Unican, Winston-Salem Facility on November 26, 1991.

Constituents	TRIP-1	FB-1	PW-1
Metals / 6010 (mg/L)			
Aluminum	NA	NA	0.53
Antimony	NA	NA	<0.050
Barium	NA	NA	0.16
Beryllium	NA	NA	<0.0050
Cadmium	NA	NA	0.011
Calcium	NA	NA	20
Chromium	NA	NA	0.18
Cobalt	NA	NA	0.023
Copper	NA	NA	2
Iron	NA	NA	76
Magnesium	NA	NA	6.9
Manganese	NA	NA	2.6
Nickel	NA	NA	5
Potassium	NA	NA	6.3
Silver	NA	NA	<0.010
Sodium	NA	NA	19
Vanadium	NA	NA	0.1
Zinc	NA	NA	4.1
Arsenic (7060)	NA	NA	<0.010
Lead(7421)	NA	NA	0.18
Mercury (7470)	NA	NA	0.00022
Selenium (7740)	NA	NA	<0.010
Thallium (7841)	NA	NA	<0.010
Cyanide (9010)	NA	NA	0.51
Total Suspended Solids (160.2)	NA	NA	280

NA - Indicates that the constituent was not analyzed.
TRIP-1 - Trip Blank.
FB-1 - Field Blank.
PW-1 - Production Well Sample.

GERAGHTY & MILLER, INC.
Environmental Services

Ground Water *Hydrocarbon* *Remediation* *Education*

May 21, 1992

Ms. Suzie Gibbons, Esq.
Poyner & Spruill
PO Box 10096
Raleigh, NC 27605

Re: MW-1 Analytical Data

Dear Suzie:

Geraghty & Miller is pleased to submit the validated analytical data report for MW-1. The data for MW-1 is summarized in Table 1. Constituents not shown were not detected or did not exceed the established standard. Please call me if you have any questions or comments.

Respectfully yours,

GERAGHTY & MILLER, INC.

Mark E. Radecke
Staff Scientist

MER/rd

Attachment: Table 1

Copy: MER
NC13304 Project File

Table 1. Analytical Data Summary

Volatile Organic Constituents (µg/L)	MW-1	Standard
1,1-Dichloroethene	1,500	7.0
1,1,1-Trichloroethane	5,700	200
Trichloroethene	6,300	2.8
Tetrachloroethene	7,400	0.7
1,1-Dichloroethane	440J	5.0 (NS)
cis/trans-1,2-Dichloroethylene	180J	5.0 (NS)

Metals (mg/L)	MW-1	Standard
Barium	1.5	1.0
Cobalt	0.026	0.010
Mercury	0.0080	0.0011

Other Constituent (mg/L)	MW-1	Standard
Total Suspended Solids	1,300	5.0 (NS)

J = Estimated Value Below Practical Quantitation Limit (PQL)
NS = Standard not established - PQL considered as Standard

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S2-41690

Received: 10 APR 92

Mr. Mark Radecke
Geraghty & Miller, Inc., Environmental Services
3724 National Drive, Suite 228
Raleigh, NC 27612

CC: Mr. Chuck Whipkey

Project: NC13302/TO#11296/ILCO-UNICAN
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
41690-1	MW-1	04-09-92

PARAMETER	41690-1
Antimony (6010)	
Antimony, mg/l	<0.050
Date Analyzed	04.21.92
Arsenic (7060)	
Arsenic, mg/l	<0.010
Date Analyzed	04.16.92
Barium (6010)	
Barium, mg/l	1.5
Date Analyzed	04.21.92
Beryllium (6010)	
Beryllium, mg/l	<0.0050
Date Analyzed	04.21.92
Cadmium (6010)	
Cadmium, mg/l	<0.0050
Date Analyzed	04.21.92
Chromium (6010)	
Chromium, mg/l	<0.010
Date Analyzed	04.21.92
Cobalt (6010)	
Cobalt, mg/l	0.026
Date Analyzed	04.21.92
Copper (6010)	
Copper, mg/l	<0.025
Date Analyzed	04.21.92

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S2-41690

Received: 10 APR 92

Mr. Mark Radecke
Geraghty & Miller, Inc., Environmental Services
3724 National Drive, Suite 228
Raleigh, NC 27612

CC: Mr. Chuck Whipkey

Project: NC13302/TO#11296/ILCO-UNICAN
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION-, LIQUID SAMPLES	DATE SAMPLED
41690-1	MW-1	04-09-92

PARAMETER	41690-1
Lead (7421)	
Lead, mg/l	0.010
Date Analyzed	04.17.92
Mercury (7471)	
Mercury, mg/l	0.0080
Date Analyzed	04.18.92
Nickel (6010)	
Nickel, mg/l	<0.040
Date Analyzed	04.21.92
Selenium (7740)	
Selenium, mg/l	<0.010
Date Analyzed	04.17.92
Silver (6010)	
Silver, mg/l	<0.010
Date Analyzed	04.21.92
Thallium (7841)	
Thallium, mg/l	<0.050*F65
Date Analyzed	04.22.92
Vanadium (6010)	
Vanadium, mg/l	<0.010
Date Analyzed	04.21.92
Zinc (6010)	
Zinc, mg/l	0.13
Date Analyzed	04.21.92

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S2-41690

Received: 10 APR 92

Mr. Mark Radecke
Geraghty & Miller, Inc., Environmental Services
3724 National Drive, Suite 228
Raleigh, NC 27612

CC: Mr. Chuck Whipkey

Project: NC13302/TO#11296/ILCO-UNICAN
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - LIQUID SAMPLES	DATE SAMPLED
41690-1	MW-1	04-09-92

PARAMETER	41690-1
Cyanide (9010)	
Cyanide, Total, mg/l	<0.010
Date Analyzed	04.21.92
Suspended Solids (160.2)	
Suspended Solids (160.2), mg/l	1300
Date Analyzed	04.13.92

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

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LOG NO: S2-41690

Received: 10 APR 92

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Geraghty & Miller, Inc., Environmental Services
3724 National Drive, Suite 228
Raleigh, NC 27612

CC: Mr. Chuck Whipkey

Project: NC13302/TO#11296/ILCO-UNICAN
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - LIQUID SAMPLES	DATE SAMPLED
41690-1	MW-1	04-09-92

PARAMETER	41690-1
Volatiles by GC/MS (8240)	
Chloromethane, ug/l	<2000
Bromomethane, ug/l	<2000
Vinyl Chloride, ug/l	<2000
Chloroethane, ug/l	<2000
Methylene Chloride, ug/l	<1000
Acetone, ug/l	<10000
Carbon Disulfide, ug/l	<1000
1,1-Dichloroethene, ug/l	1500
1,1-Dichloroethane, ug/l	440J
cis/trans-1,2-Dichloroethylene, ug/l	180J
Chloroform, ug/l	<1000
1,2-Dichloroethane, ug/l	<1000
2-Butanone (MEK), ug/l	<10000
1,1,1-Trichloroethane, ug/l	5700
Carbon Tetrachloride, ug/l	<1000
Vinyl Acetate, ug/l	<2000
Bromodichloromethane, ug/l	<1000
1,1,2,2-Tetrachloroethane, ug/l	<1000
1,2-Dichloropropane, ug/l	<1000
Trans-1,3-Dichloropropene, ug/l	<1000
Trichloroethene, ug/l	6300
Dibromochloromethane, ug/l	<1000
1,1,2-Trichloroethane, ug/l	<1000

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION -, LIQUID SAMPLES	DATE SAMPLED
41690-1	MW-1	04-09-92

PARAMETER	41690-1
Benzene, ug/l	<1000
Cis-1,3-Dichloropropene, ug/l	<1000
2-Chloroethylvinyl Ether, ug/l	<10000
Bromoform, ug/l	<1000
2-Hexanone, ug/l	<10000
4-Methyl-2-pentanone (MIBK), ug/l	<10000
Tetrachloroethene, ug/l	7400
Toluene, ug/l	<1000
Chlorobenzene, ug/l	<1000
Ethylbenzene, ug/l	<1000
Styrene, ug/l	<1000
Xylenes, ug/l	<1000
Surrogate - Toluene-d8	103 %
Surrogate - 4-Bromofluorobenzene	109 %
Surrogate - 1,2-Dichloroethane-d4	106 %
Date Analyzed	04.14.92

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION-, LIQUID SAMPLES	DATE SAMPLED
41690-2	Trip Blank	04-09-92

PARAMETER	41690-2
Volatiles by GC/MS (8240)	
Chloromethane, ug/l	<10
Bromomethane, ug/l	<10
Vinyl Chloride, ug/l	<10
Chloroethane, ug/l	<10
Methylene Chloride, ug/l	<5.0
Acetone, ug/l	<50
Carbon Disulfide, ug/l	<5.0
1,1-Dichloroethene, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
Chloroform, ug/l	<5.0
1,2-Dichloroethane, ug/l	<5.0
2-Butanone (MEK), ug/l	<50
1,1,1-Trichloroethane, ug/l	<5.0
Carbon Tetrachloride, ug/l	<5.0
Vinyl Acetate, ug/l	<10
Bromodichloromethane, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
Trans-1,3-Dichloropropene, ug/l	<5.0
Trichloroethene, ug/l	<5.0
Dibromochloromethane, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - LIQUID SAMPLES	DATE SAMPLED
41690-2	Trip Blank	04-09-92

PARAMETER	41690-2				
Benzene, ug/l	<5.0				
Cis-1,3-Dichloropropene, ug/l	<5.0				
2-Chloroethylvinyl Ether, ug/l	<50				
Bromoform, ug/l	<5.0				
2-Hexanone, ug/l	<50				
4-Methyl-2-pentanone (MIBK), ug/l	<50				
Tetrachloroethene, ug/l	<5.0				
Toluene, ug/l	<5.0				
Chlorobenzene, ug/l	<5.0				
Ethylbenzene, ug/l	<5.0				
Styrene, ug/l	<5.0				
Xylenes, ug/l	<5.0				
Surrogate - Toluene-d8	104 %				
Surrogate - 4-Bromofluorobenzene	107 %				
Surrogate - 1,2-Dichloroethane-d4	104 %				
Date Analyzed	04.14.92				

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-3	Detection Limits - Liquid
41690-4	Method Blank Result
41690-5	Lab Control Standard (LCS) Result/Dup
41690-6	LCS Expected Value
41690-7	LCS % Recovery/Duplicate

PARAMETER	41690-3	41690-4	41690-5	41690-6	41690-7
Antimony (6010)					
Antimony, mg/l	0.050	<0.050	.998/1.09	1.00	100/109 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Arsenic (7060)					
Arsenic, mg/l	0.010	<0.010	.056/.053	0.050	112/106 %
Date Analyzed	---	04.16.92	04.16.92	---	---
Barium (6010)					
Barium, mg/l	0.010	<0.010	.920/.988	1.00	92/99 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Beryllium (6010)					
Beryllium, mg/l	0.0050	<0.0050	.961/1.01	0.999	96/101 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Cadmium (6010)					
Cadmium, mg/l	0.0050	<0.0050	.997/1.08	1.00	100/108 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Chromium (6010)					
Chromium, mg/l	0.010	<0.010	1.02/1.10	1.00	102/110 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Cobalt (6010)					
Cobalt, mg/l	0.010	<0.010	0.999/1.08	1.00	100/108 %
Date Analyzed	---	04.21.92	04.21.92	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-3	Detection Limits - Liquid
41690-4	Method Blank Result
41690-5	Lab Control Standard (LCS) Result/Dup
41690-6	LCS Expected Value
41690-7	LCS % Recovery/Duplicate

PARAMETER	41690-3	41690-4	41690-5	41690-6	41690-7
Copper (6010)					
Copper, mg/l	0.025	<0.025	.988/1.05	0.999	99/105 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Lead (7421)					
Lead, mg/l	0.0050	<0.0050	.057/.051	0.050	114/102 %
Date Analyzed	---	04.17.92	04.17.92	---	---
Mercury (7471)					
Mercury, mg/l	0.00020	<0.00020	.0333/*	0.0030	111/109 %
Date Analyzed	---	04.18.92	04.18.92	---	---
Nickel (6010)					
Nickel, mg/l	0.040	<0.040	.998/1.09	1.01	99/108 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Selenium (7740)					
Selenium, mg/l	0.010	<0.010	.051/.050	0.050	102/100 %
Date Analyzed	---	04.17.92	04.17.92	---	---
Silver (6010)					
Silver, mg/l	0.010	<0.010	.932/.942	1.01	92/93 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Thallium (7841)					
Thallium, mg/l	0.010	<0.010	.053/.055	0.050	106/110 %
Date Analyzed	---	04.17.92	04.17.92	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-3	Detection Limits - Liquid
41690-4	Method Blank Result
41690-5	Lab Control Standard (LCS) Result/Dup
41690-6	LCS Expected Value
41690-7	LCS % Recovery/Duplicate

PARAMETER	41690-3	41690-4	41690-5	41690-6	41690-7
Vanadium (6010)					
Vanadium, mg/l	0.010	<0.010	.992/1.06	0.996	100/106 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Zinc (6010)					
Zinc, mg/l	0.020	<0.020	.975/1.09	1.00	98/109 %
Date Analyzed	---	04.21.92	04.21.92	---	---
Cyanide (9010)					
Cyanide, Total, mg/l	0.010	<0.010	.342/.353	0.355	96/99 %
Date Analyzed	---	04.15.92	04.15.92	---	---
Suspended Solids (160.2)					
Suspended Solids (160.2), mg/l	5.0	<5.0	99/97	100	99/97 %
Date Analyzed	---	04.13.92	04.13.92	---	---

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LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-3	Detection Limits - Liquid
41690-4	Method Blank Result
41690-5	Lab Control Standard (LCS) Result/Dup
41690-6	LCS Expected Value
41690-7	LCS % Recovery/Duplicate

PARAMETER	41690-3	41690-4	41690-5	41690-6	41690-7
Volatiles by GC/MS (8240)					
Chloromethane, ug/l	10	<10	---	---	---
Bromomethane, ug/l	10	<10	---	---	---
Vinyl Chloride, ug/l	10	<10	---	---	---
Chloroethane, ug/l	10	<10	---	---	---
Methylene Chloride, ug/l	5.0	<5.0	---	---	---
Acetone, ug/l	50	<50	---	---	---
Carbon Disulfide, ug/l	5.0	<5.0	---	---	---
1,1-Dichloroethene, ug/l	5.0	<5.0	55.2/58.6	50	110/117 %
1,1-Dichloroethane, ug/l	5.0	<5.0	---	---	---
cis/trans-1,2-Dichloroethyl ene, ug/l	5.0	<5.0	---	---	---
Chloroform, ug/l	5.0	<5.0	---	---	---
1,2-Dichloroethane, ug/l	5.0	<5.0	---	---	---
2-Butanone (MEK), ug/l	50	<50	---	---	---
1,1,1-Trichloroethane, ug/l	5.0	<5.0	---	---	---
Carbon Tetrachloride, ug/l	5.0	<5.0	---	---	---
Vinyl Acetate, ug/l	10	<10	---	---	---
Bromodichloromethane, ug/l	5.0	<5.0	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	5.0	<5.0	---	---	---

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LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-3	Detection Limits - Liquid
41690-4	Method Blank Result
41690-5	Lab Control Standard (LCS) Result/Dup
41690-6	LCS Expected Value
41690-7	LCS % Recovery/Duplicate

PARAMETER	41690-3	41690-4	41690-5	41690-6	41690-7
1,2-Dichloropropane, ug/l	5.0	<5.0	---	---	---
Trans-1,3-Dichloropropene, ug/l	5.0	<5.0	---	---	---
Trichloroethene, ug/l	5.0	<5.0	57.1/59.4	50	114/119 %
Dibromochloromethane, ug/l	5.0	<5.0	---	---	---
1,1,2-Trichloroethane, ug/l	5.0	<5.0	---	---	---
Benzene, ug/l	5.0	<5.0	59.8/61.8	50	120/124 %
Cis-1,3-Dichloropropene, ug/l	5.0	<5.0	---	---	---
2-Chloroethylvinyl Ether, ug/l	50	<50	---	---	---
Bromoform, ug/l	5.0	<5.0	---	---	---
2-Hexanone, ug/l	50	<50	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	50	<50	---	---	---
Tetrachloroethene, ug/l	5.0	<5.0	---	---	---
Toluene, ug/l	5.0	<5.0	59.9/63.9	50	120/128 %
Chlorobenzene, ug/l	5.0	<5.0	59.3/62.0	50	119/124 %
Ethylbenzene, ug/l	5.0	<5.0	---	---	---
Styrene, ug/l	5.0	<5.0	---	---	---
Xylenes, ug/l	5.0	<5.0	---	---	---
Surrogate - Toluene-d8	---	102/106 %	102/106 %	---	---
Surrogate - 4-Bromofluorobenzene	---	103/108 %	102/109 %	---	---
Surrogate - 1,2-Dichloroethane-d4	---	102/104 %	103/105 %	---	---
Date Analyzed	---	4.13-14.92	04.13.92	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION-, QC REPORT FOR LIQUID SAMPLES
41690-8	LCS Control Limit
41690-9	LCS % RPD
41690-10	% RPD Control Limit
41690-11	Control Limits Source

PARAMETER	41690-8	41690-9	41690-10	41690-11
Antimony (6010)				
Antimony	80-120 %	8.6 %	<20 %	SL
Arsenic (7060)				
Arsenic	80-120 %	5.5 %	<20 %	SL
Barium (6010)				
Barium	80-120 %	7.3 %	<20 %	SL
Beryllium (6010)				
Beryllium	80-120 %	5.1 %	<20 %	SL
Cadmium (6010)				
Cadmium	80-120 %	7.7 %	<20 %	SL
Chromium (6010)				
Chromium	80-120 %	7.5 %	<20 %	SL
Cobalt (6010)				
Cobalt	80-120 %	7.7 %	<20 %	SL
Copper (6010)				
Copper	80-120 %	5.9 %	<20 %	SL
Lead (7421)				
Lead	80-120 %	11 %	<20 %	SL
Mercury (7471)				
Mercury, %	80-120 %	1.8 %	<20 %	SL
Nickel (6010)				
Nickel	80-120 %	8.7 %	<20 %	SL

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LOG NO	SAMPLE DESCRIPTION - QC REPORT FOR LIQUID SAMPLES
41690-8	LCS Control Limit
41690-9	LCS % RPD
41690-10	% RPD Control Limit
41690-11	Control Limits Source

PARAMETER	41690-8	41690-9	41690-10	41690-11
Selenium (7740)				
Selenium	80-120 %	2.0 %	<20 %	SL
Silver (6010)				
Silver	80-120 %	1.1 %	<20 %	SL
Thallium (7841)				
Thallium	80-120 %	3.7 %	<20 %	SL
Vanadium (6010)				
Vanadium	80-120 %	5.8 %	<20 %	SL
Zinc (6010)				
Zinc	80-120 %	11 %	<20 %	SL
Cyanide (9010)				
Cyanide, Total	85-115 %	3.1 %	<30 %	SL
Suspended Solids (160.2)				
Suspended Solids (160.2)	75-125 %	2.0 %	<30 %	SL
Volatiles by GC/MS (8240)				
1,1-Dichloroethene	60-136 %	6.1 %	<19 %	SL
Trichloroethene	66-136 %	4.3 %	<20 %	SL
Benzene	73-144 %	3.3 %	<22 %	SL
Toluene	68-138 %	6.5 %	<17 %	SL
Chlorobenzene	68-136 %	4.1 %	<17 %	SL

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- REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
41690-8	LCS Control Limit
41690-9	LCS % RPD
41690-10	% RPD Control Limit
41690-11	Control Limits Source

PARAMETER	41690-8	41690-9	41690-10	41690-11

Methods: EPA SW-846.
* = LCS Duplicate for Mercury - 0.00326 mg/l

*F65 - Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.

Janette D. Long

Janette D. Long