ENVIRONMENTAL RESOURCES MANAGEMENT

FINAL REPORT

Lucas Aerospace Power Transmission

Soil Remediation Closure Report

Seward Avenue Facility
Utica, New York

January 1999

Project Number: 939.008

Environmental Resources Management
5788 Widewaters Parkway
Dewitt, New York 13214

ERM

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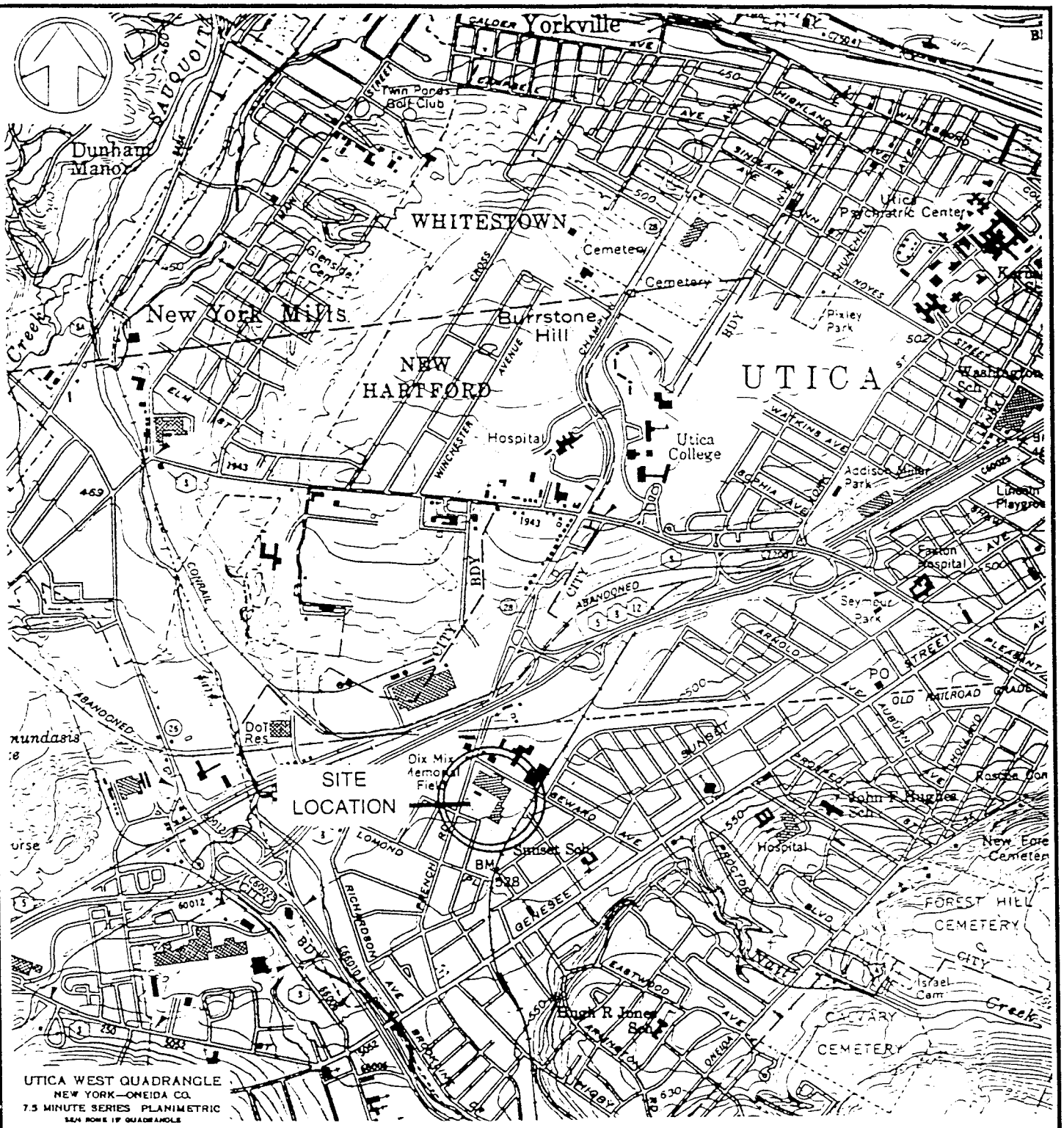
1.0 *PURPOSE AND SCOPE*

The purpose of this Soil Remediation Closure Report is to present a summary of the remediation and confirmation sampling conducted at the Lucas Aerospace Power Transmission (Lucas) facility located in Utica, New York (Figure 1-1) ("the site"). The remediation effort was conducted in accordance with Environmental Resources Management's (ERM's) Soil Remediation Workplan, dated January 1998, unless otherwise noted in this report. Remediation activities included the excavation of soils at the site containing volatile organic compounds (VOCs) in concentrations above Project Cleanup Objectives and the transportation of those soils to and disposal at an approved disposal facility. Project Cleanup Objectives (Table 1-1) were based on the soil cleanup objectives in New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) No. 4046, dated 24 January 1994.

Previous environmental investigations at the site identified the presence of VOCs in the site soils located south of the Main Plant Building (Figure 1-2) ("VOC-impacted soils"). Laboratory analyses of ground water samples from site monitoring wells indicate that site ground water has been impacted with VOCs. The purpose of the project was to remove the VOC-impacted soils and eliminate their potential impact to site ground water.

This report includes a summary of the site background, a summary of the soil remediation project (with additional soil investigations), and conclusions. Certification of a professional engineer is provided in Section 1.1 of this report.



SITE LOCATION MAP
LUCAS AEROSPACE FACILITY
UTICA, NY

PREPARED FOR
LUCAS

ERM-Northeast

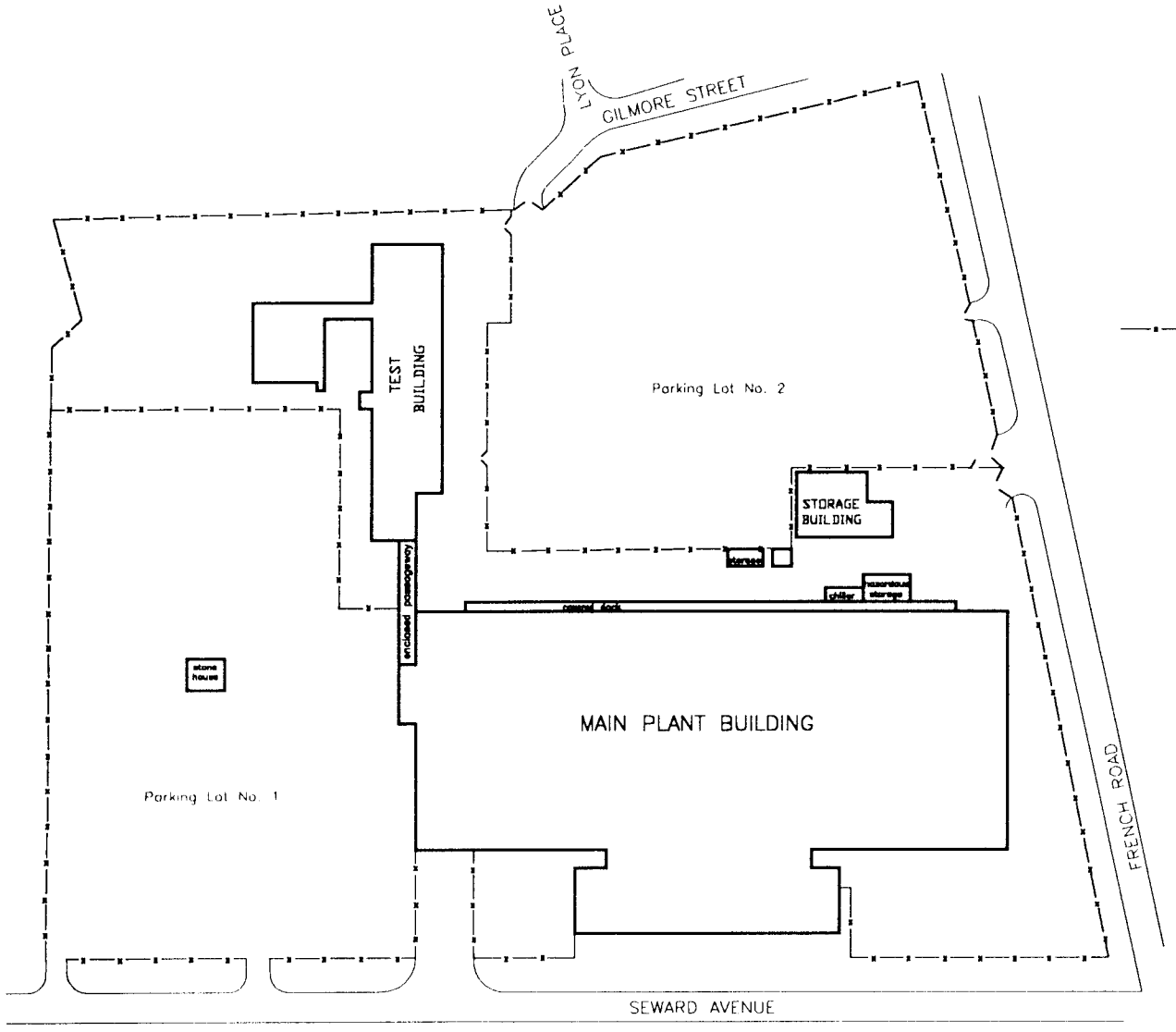
SCALE NTS

FIGURE 1-1

DATE 3/95

TABLE 1-1
PROJECT CLEANUP OBJECTIVES

COMPOUND	*CONCENTRATION (mg/kg)*
acetone	0.2
benzene	0.06
1,1 dichloroethane	0.2
1,2 dichlorothene (trans)	0.3
1,2 dichlorothene (cis)	0.25
ethylbenzene	5.5
toluene	1.5
1,1,1 trichloroethane	0.8
trichloroethene	0.7
tetrachloroethene	1.4
xylenes, total	1.2



LEGEND

Fence

SCALE

100 FEET

N

SITE LAYOUT MAP
SEWARD AVENUE FACILITY
UTICA, NEW YORK

PREPARED FOR

LUCAS

ERM-Northeast

SCALE	FIGURE
NTS	1-2
DATE 11/97	

1-4

1.1 *PROFESSIONAL ENGINEER CERTIFICATION*

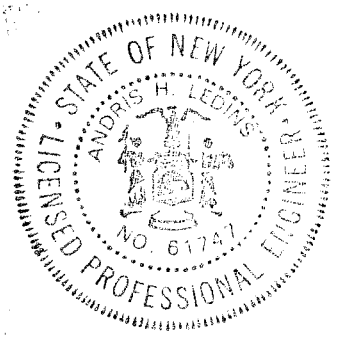
I hereby certify that ERM Northeast Engineers P.C., has reviewed the soil remediation work described in the attached Soil Remediation Closure Report dated January 1999 and certify that said work was performed in accordance with the Soil Remediation Workplan (January 1998), prepared by ERM Northeast inc., except as noted in Section 4.0 of this report. The Soil Remediation Workplan was prepared in accordance with general accepted engineering practices.

Name: ***Andris H Ledins, P.E.***

Title: ***Principal***

Signature: *Andris H Ledins*

Date: ***February 10, 1999***



2.0 *BACKGROUND*

The Lucas facility is located in the City of Utica in Oneida County, New York (Figure 1-1). The facility is bordered on the north by Seward Avenue and the west by French Road and Lyon Place (Figure 1-2). The facility is bordered on the south by Lomond Street (Figure 1-1) and Gilmore Place. The approximately 22-acre site is relatively flat and contains two main buildings and a smaller storage building. The Main Plant Building is a two story manufacturing and office building located along the north portion of the site with approximately 115,000 square feet per floor. A 10,000 square foot single story Test Cell Building is located in the central portion of the site. The site also contains three asphalt paved parking areas located to the east, southeast, and south of the Main Plant Building. The Lucas facility, including the parking areas, is zoned for manufacturing.

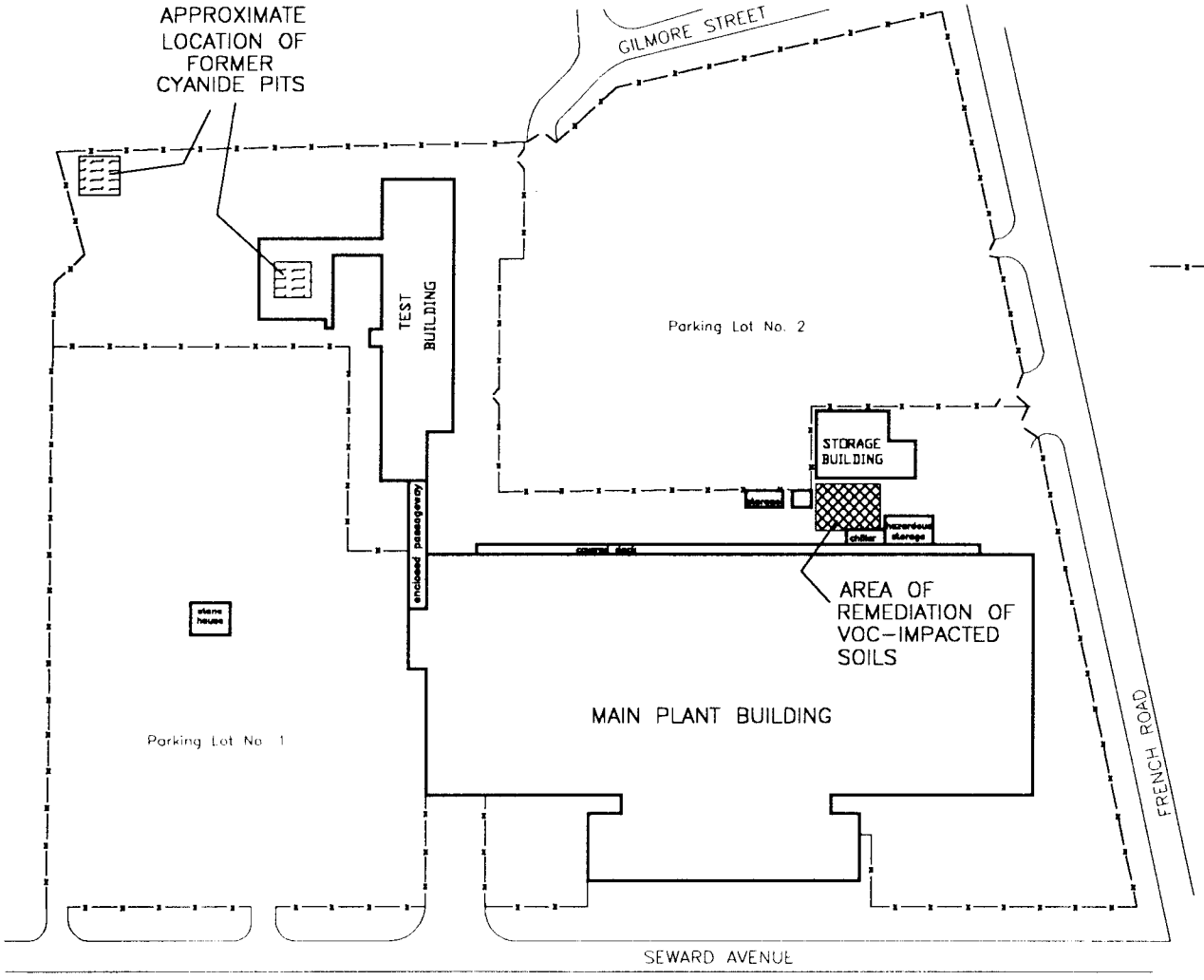
The site is on the New York State Department of Environmental Conservation's (NYSDEC's) Registry of Inactive Hazardous Waste Disposal Sites, as a Class 4 site, under the heading: "Bendix Fluid Power Division" (Registry Site #633020). The Site was listed because of a prior owner's use of two earthen-bottom pits for the disposal of cyanide wastes from copper and cadmium plating, heat treating, and stripper operations (Figure 2-1). These pits were voluntarily remediated in the past. The VOC-impacted media remediated during 1998 and reported herein are remote from and unrelated to these former cyanide disposal pits.

2.1 *LOCAL GEOLOGY AND HYDROGEOLOGY*

The Lucas facility is located within the Erie-Ontario Lowlands physiographic province of New York State (Isachsen, et. al., 1991). Topographic relief within this province is moderate and relief in the vicinity of the site is approximately 110 feet within a 0.5 mile radius.

Unconsolidated deposits in the vicinity of the site consist of glacial lacustrine sand deposits (Cadwell and Dineen, 1986). The origin of these sand deposits is associated with large bodies of water. Generally, they are near-shore deposits or occur near a sand source. Lacustrine sands are described as well sorted and stratified deposits generally consisting of quartz sands. The thickness of these deposits is variable and may range from 7 to 66 feet (2 to 20 meters).

Bedrock underlying the unconsolidated deposits of this area is reported to be Utica Shale (Rickard and Fisher, 1970), a member of the Lorraine, Trenton, and Black River Groups. This fissile black shale is Middle Ordovician in age and is marine in origin. The Utica Shale is



LEGEND

Fence

SCALE

100 FEET

N

FORMER CYANIDE PIT LOCATIONS
SEWARD AVENUE FACILITY
UTICA, NEW YORK

PREPARED FOR

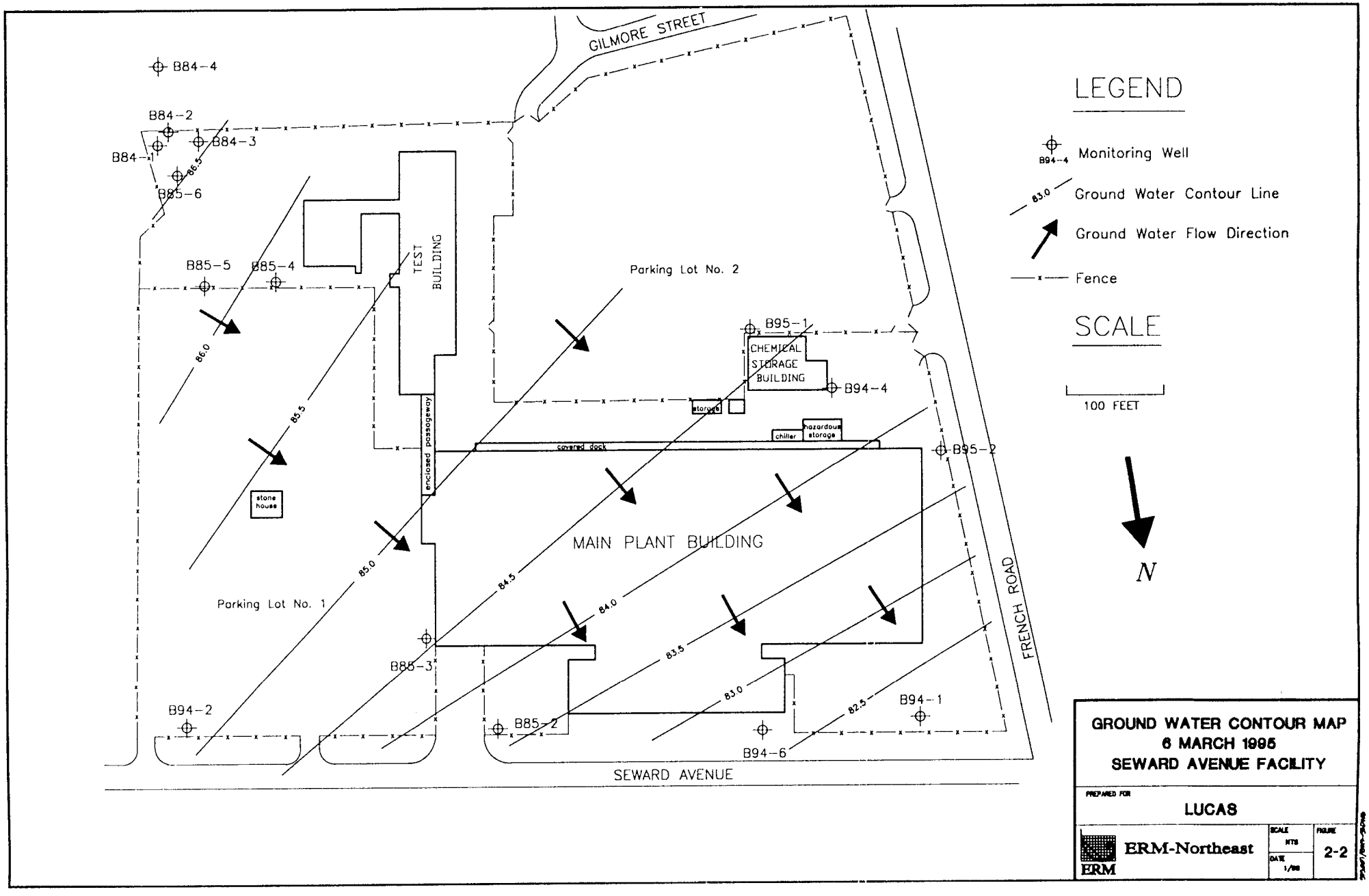
LUCAS

ERM-Northeast

SCALE	FIGURE
NTS	2-1
DATE 1/98	

2-2

characterized by alternating beds of black shale and lighter gray shales. Bugliosi, et. al. (1988) mapped the unconsolidated deposits in the vicinity of the site as an unconfined aquifer with potential yields from wells installed within the deposits of greater than 100 gallons per minute. There are no primary or principal aquifers in the vicinity of the site as classified by the NYSDEC (1990). Local shallow ground water flow is to the northwest based on previous ground water measurement (see Figure 2-2).


GILMORE STREET
B84-4
B84-2
B84-3
B84-1
B85-6
B85-5
B85-4
TEST BUILDING
Parking Lot No. 2
B95-1
CHEMICAL STORAGE BUILDING
B94-4
storage
chiller
hazardous storage
covered dock
enclosed passageway
B95-2
stone house
MAIN PLANT BUILDING
Parking Lot No. 1
B85-3
B94-2
B85-2
B94-6
B94-1
FRENCH ROAD
SEWARD AVENUE
86.5
86.0
85.5
85.0
84.5
84.0
83.5
83.0
82.5
LEGEND
Monitoring Well
Ground Water Contour Line
Ground Water Flow Direction
Fence
SCALE
100 FEET
N
GROUND WATER CONTOUR MAP
6 MARCH 1995
SEWARD AVENUE FACILITY
PREPARED FOR
LUCAS
ERM-Northeast
SCALE NTS
DATE 1/96
FIGURE 2-2

3.0 *SUMMARY OF SOIL REMEDIATION PROJECT*

Remedial construction activities were conducted from 30 January 1998 to 4 September 1998. Construction activities were performed by EnviroClean Northeast, Inc. (ECNE) with construction oversite provided by ERM. Mr. Craig Weil of the NYSDEC was on site to observe remedial activities on 2 February 1998. Photographs from the construction activities are provided in Appendix A.

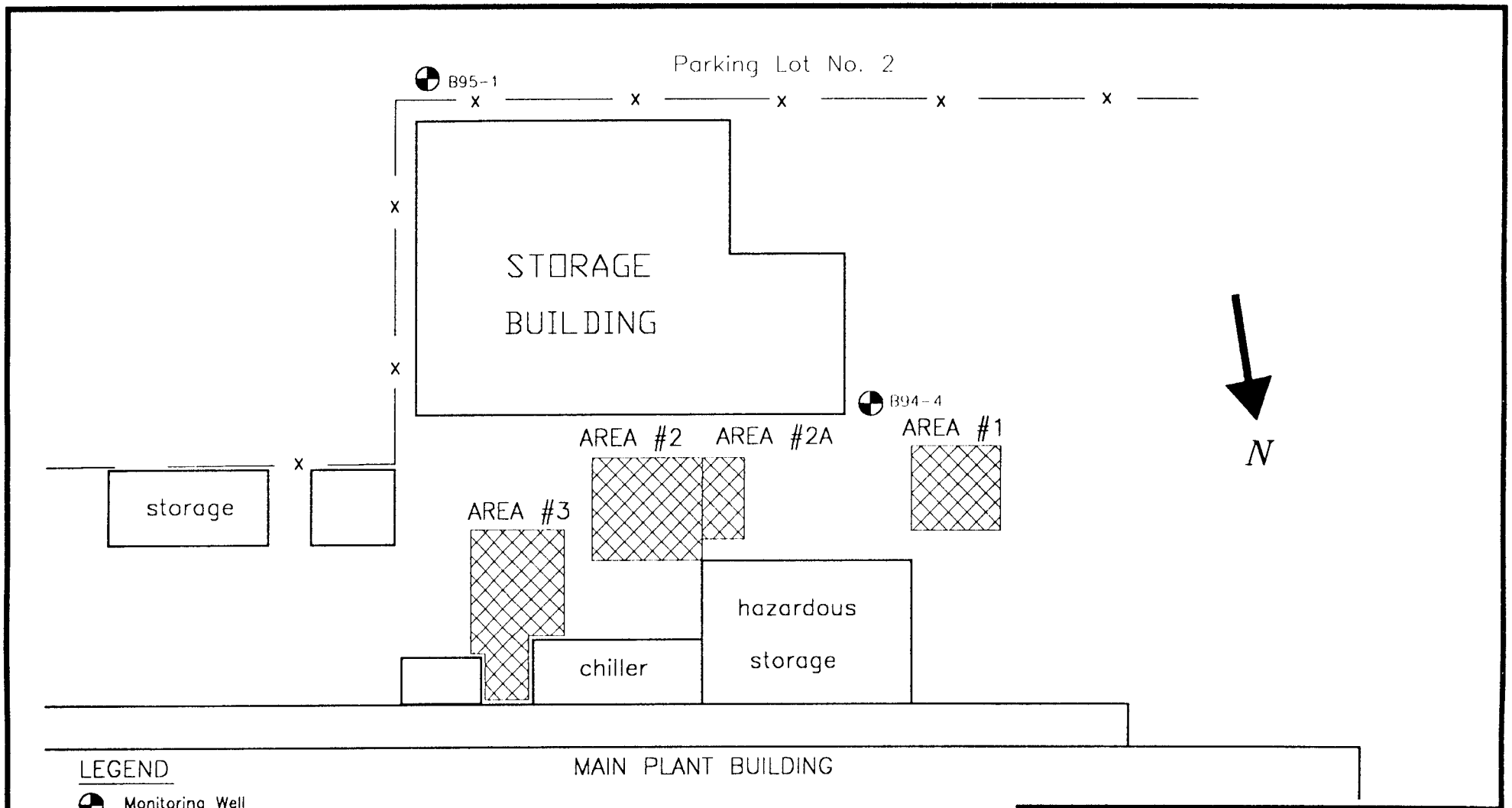
3.1 *EXCAVATION OF IMPACTED SOILS*

Construction activities began at the site on 30 January 1998. Excavation at the site was completed using two John Deere (JD 310) backhoes. Excavated soils were staged on site in lined roll-off drop boxes prior to transportation off-site. The roll-offs were staged on the northeast end of Parking Lot #2 which is an asphalt paved parking lot. Chain link fencing was disassembled to allow access from the excavation area to the roll-off staging area.

Field screening of soil samples for VOCs was conducted using a Photoionization Detector (PID). The goal of the ERM Soil Remediation Workplan was to remove soil with PID concentrations greater than 5 ppm prior to collecting confirmation soil samples for laboratory analysis. The PIDs used were model number PI101 as manufactured by HNU Systems, Inc. (Serial Numbers 901815 and 401215).

PIDs were also used to periodically measure for VOCs in the air in the work area. The PIDs were calibrated prior to use with standard isobutylene calibration gas with a concentration of 100 parts-per-million (ppm) in air. Permissible Exposure Limits (PELs) for potential chemicals of concern were defined in the Soil Remediation Workplan at Table 3-1 of Appendix B (ERM, January 1998). VOC action levels, used to upgrade or downgrade personal protective equipment and to implement additional precautions or procedures as needed in the work area, were defined in the Soil Remediation Workplan at sections 4.1.1 and 4.1.2 of Appendix B (ERM, January 1998).

Excavation of VOC-impacted soils was completed in three locations in the order described below (Refer to Figure 3-1 for locations of excavation areas).



APPROXIMATE EXTENT OF EXCAVATED SOIL
SEWARD AVENUE FACILITY

PREPARED FOR
LUCAS

ERM-Northeast

SCALE NTS

DATE 11/98

FIGURE 3-1

935 008/EXCAPEA.DWG

Area #2

Excavation of VOC-impacted soil from Area #2 began on 2 February 1998 and was completed on 3 February 1998. Excavation of Area #2 ran approximately 21-feet east and 20-feet south from the southeast corner of the Hazardous Storage building. The maximum depth of the excavation was approximately 12.5-feet deep. Elevated PID readings (158 ppm) were recorded along the west wall of the excavation prior to confirmation sampling. However, excavation was discontinued along the west wall of Area #2 to avoid undermining an existing high voltage power pole. The power pole was later relocated to allow for the excavation of soil to the west of the initial Area #2 excavation (see discussion below at Area #2A). During the excavation of Area #2, a storm sewer and a sprinkler water line were unearthed. The sprinkler and storm lines are located above the ground water table elevation and appeared to be in good condition.

Area #3

Excavation of VOC-impacted soil from Area #3 began on 4 February 1998 and was completed on 9 February 1998. Prior to excavating VOC-impacted soil, steel rails from two abandoned railroad track spurs had to be cut. The cut sections of steel rails were left on site for disposal by Lucas. Upon approval from the disposal facility, the railroad ties were placed in the impacted-soil roll-offs for disposal at the landfill.

Excavation Area #3 ran approximately 32.5-feet south from the Main Plant Building and it was approximately 18-feet wide. The maximum depth of the excavation was approximately 6.2-feet deep. An approximately 10-foot length of a 10-inch storm sewer line was damaged and subsequently repaired during the excavation. The storm sewer line is located above the ground water table elevation and appeared to be in good condition subsequent to the repairs.

Area #1

Excavation of VOC-impacted soil from Area #1 began on 9 February 1998 and was completed on 10 February 1998. Prior to excavating VOC-impacted soil, the concrete drive slab overlying Area #1 was saw-cut and removed. During the excavation of Area #1, the water sprinkler line and a concrete foundation wall (for the old railroad track) were unearthed.

Excavation Area #1 ran approximately 21.2-feet south and 16.9-feet west from the southwest corner of the Hazardous Storage building. The maximum depth of the excavation was approximately 5.5-feet deep. An approximately 4-foot length of 6-inch storm sewer line was damaged and subsequently repaired during the excavation. The storm sewer line is

located above the ground water table elevation and appeared to be in good condition subsequent to the repairs.

Area #2A

Confirmation soil sampling of the Area #2 excavation conducted in February 1998, which is discussed in Section 3.3 of this report, indicated that VOC-impacted soil was left to the west of the Area #2 excavation. The VOC-impacted soil was left at the time due to the presence of a power pole to the west of the Area #2 excavation. An additional soil investigation was performed by ERM in March 1998 to determine the extent of the VOC-impacted soil to the west of excavation Area #2. Subsequent to the additional investigation, the power pole was relocated and Area #2A was excavated to remove the VOC-impacted soil to the west of the Area #2 excavation.

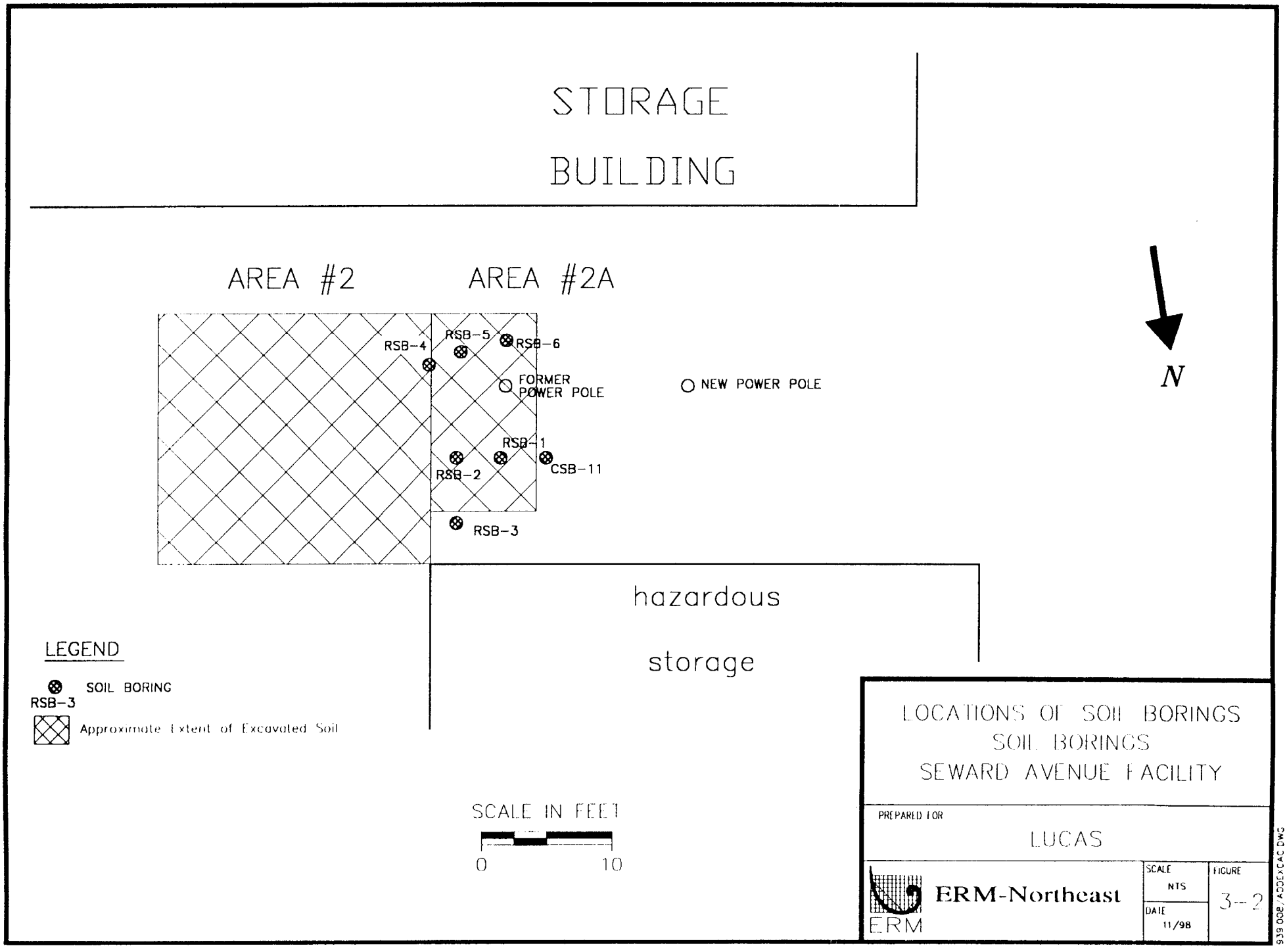
Excavation of VOC-impacted soil from Area #2A began on 1 September 1998 and was completed on 3 September 1998. Prior to excavating VOC-impacted soil, the concrete drive slab overlying Area #2A was saw-cut and removed. During the excavation of Area #2A, a water sprinkler line and a concrete foundation wall were unearthed.

Excavation Area #2A ran approximately 15-feet south and 8-feet west from the northeast corner of the Area #2 excavation. The maximum depth of the excavation was approximately 7.5-feet deep. The sprinkler line is located above the ground water table elevation and appeared to be in good condition.

3.2 *ADDITIONAL INVESTIGATION*

ERM conducted an additional soil investigation to the west of the excavation Area #2 to determine the extent of VOC-impacted soil. The additional investigation was performed on 2 March 1998 and 4 March 1998 and included the installation of six soil borings (RSB-1 through RSB-6). The locations of the soil borings are indicated on Figure 3-2 and boring logs, with PID measurements, are provided in Appendix F. The soil borings were installed using a Clements Associates JMC Environmentalist's Subsoil Probe (ESP). Borings were advanced to a maximum depth of 6 feet. Field screening of soil samples for VOCs was conducted using a PID. The PID used was an OVM/Datalogger (Model 580B) as manufactured by Thermo Environmental Instruments, Inc.

Based on the screening of the soils with the PID, soil samples were collected for laboratory analysis from RSB-2 and RSB-6. Samples were transferred into clean, laboratory-supplied glass jars and placed into


STORAGE
BUILDING
AREA #2
AREA #2A
RSB-4
RSB-5
RSB-6
FORMER
POWER POLE
NEW POWER POLE
N
RSB-1
RSB-2
CSB-11
RSB-3
hazardous
storage
LEGEND
SOIL BORING
RSB-3
Approximate Extent of Excavated Soil
SCALE IN FEET
0
10
LOCATIONS OF SOIL BORINGS
SOIL BORINGS
SEWARD AVENUE FACILITY
PREPARED FOR
LUCAS
ERM-Northeast
ERM
SCALE
NTS
DATE
11/98
FIGURE
3--2
939 008/ADDEXCAC DWG

thermally insulated containers. Samples were transported with proper chain of custody documentation. Both samples were analyzed by Life Science Laboratories, Inc. (East Syracuse, New York) using USEPA Method 8260B for TCL VOCs. The analytical results indicate that the VOC concentrations in samples RSB-2 and RSB-6 were below the Project Cleanup Objectives. The analytical results from the samples, as well as Project Cleanup Objectives, are summarized in Table 3-1 and full laboratory reports are provided in Appendix C.

Based on the analytical results from the sampling, the approximate extent of VOC-impacted soils above Project Cleanup Objectives to the west of Area #2 was established. The VOC-impacted soils delineated by the additional investigation were located directly adjacent to an existing power pole at the site. The power pole was relocated by Lucas and Niagara Mohawk Power Corporation. As discussed in Section 3.1 of this report, the VOC-impacted soil that was identified during this additional investigation was excavated as Area #2A in September 1998, following the relocation of the power pole.

3.3 *TRANSPORTATION AND DISPOSAL OF IMPACTED SOILS*

VOC-impacted soils were handled and disposed of as F001 and F002 listed hazardous waste. Transportation and disposal of VOC-impacted soil were handled under contract by Chemical Waste Management, Inc. (CWM) of Oak Brook, Illinois. Impacted soils were transported by Buffalo Fuel Corporation and Price Trucking. Soils were disposed of at the CWM Chemical Services landfill in Model City, New York. This facility is a RCRA Subtitle C permitted Transportation, Storage and Disposal Facility (TSDF). A total of approximately 330-tons of VOC-impacted soil were disposed of during the remediation of Areas #1, #2, and #3. A total of approximately 41.2-tons of VOC-impacted soil were disposed of during the remediation of Area #2A. Copies of the Hazardous Waste Manifests, Land Disposal Notification and Certification Forms, and Certificates of Disposal are provided in Appendix B.

Prior to the start of excavation, impacted soils were profiled by CWM for direct landfill disposal. Past analytical data provided in the Workplan and additional sampling conducted by ERM in Area #3 on 23 January 1998, indicated that VOC-impacted soil concentrations did not exceed Universal Treatment Standards (UTSs) promulgated under the USEPA Land Disposal Restrictions (LDR) program. The sample collected on 23 January 1998 was analyzed for Target Compound List (TCL) VOCs using USEPA Method 8260B and for PCBs using USEPA Method 8082.

TABLE 3-1
SUMMARY OF ANALYTICAL DATA - SOILS
SOIL REMEDIATION CONFIRMATION SAMPLES
LUCAS - UTICA, NY
ERM-NORTHEAST PROJECT NO. 939.008

EXCAVATION AREA	PROJECT	AREA 1					AREA 2					RSB-2	RSB-6
WALL/FLOOR LOCATION	CLEANUP	WEST	SOUTH	FLOOR	EAST	NORTH	WEST	SOUTH	FLOOR	EAST	NORTH	3.5-6.0	3.5-6.0
DATE COLLECTED	OBJECTIVE	2/11/98	2/11/98	2/11/98	2/11/98	2/11/98	2/3/98	2/3/98	2/3/98	2/4/98	2/3/98	3/2/98	3/4/98
VOCs													
acetone	0.2	---	---	---	---	---	---	---	---	---	0.089	---	---
benzene	0.06	---	---	---	---	---	---	---	---	---	---	---	---
1,1 dichloroethane	0.2	---	---	0.018	---	0.016	1.5	0.013	0.025	---	0.022	0.014	---
1,2-dichloroethene (trans)	0.3	---	---	---	---	---	---	---	---	---	---	---	---
1,2-dichloroethene (cis)	0.25	---	0.0060	0.068	0.0098	0.300	6.3	0.180	0.086	---	0.019	0.074	0.014
ethylbenzene	5.5	---	---	---	---	---	---	---	---	---	---	---	---
toluene	1.5	---	---	---	---	---	---	---	---	---	0.018	0.011	---
1,1,1 trichloroethane	0.8	0.011	0.034	0.094	0.025	0.045	1.9	---	0.110	---	---	---	---
trichloroethene	0.7	0.030	0.019	0.400	0.051	0.630	1.3	0.130	0.078	0.025	---	0.058	0.011
tetrachloroethene	1.4	0.027	0.031	0.150	0.055	0.064	1.6	---	0.029	---	---	---	---
xylenes, total	1.2	---	---	---	---	---	---	---	---	---	0.0061	---	---
vinyl chloride	0.2	---	---	---	---	---	---	---	---	---	0.039	---	---
methylene chloride	0.1	---	---	---	0.011*	---	---	---	---	---	---	---	---

NOTES :

- All values are reported as milligrams/kilogram (mg/kg)

--- - Analyte not detected in this sample

- Only those analytes that were detected in at least one sample are presented
- Project Cleanup Objectives equal to NYSDEC Recommended Soil Cleanup Guidance (TAGM 4046)
- Shaded areas indicate exceedence of the recommended soil cleanup guidance

* - This result has been blank corrected. Laboratory contamination suspected.

TABLE 3-1 (cont.)
SUMMARY OF ANALYTICAL DATA - SOILS
SOIL REMEDIATION CONFIRMATION SAMPLES
LUCAS - UTICA, NY
ERM-NORTHEAST PROJECT NO. 939.008

EXCAVATION AREA	PROJECT	AREA 2A				AREA 3				
WALL/FLOOR LOCATION	CLEANUP	WWALL	SWALL	NWALL	FLOOR	WEST	SOUTH	FLOOR	EAST	NORTH
DATE COLLECTED	OBJECTIVE	9/2/98	9/2/98	9/2/98	9/2/98	2/5/98	2/5/98	2/5/98	2/5/98	2/5/98
VOCs										
acetone	0.2	---	---	---	---	---	---	---	---	0.26
benzene	0.06	---	---	---	---	---	---	---	---	---
1,1 dichloroethane	0.2	---	0.005	---	---	---	---	---	---	---
1,2-dichloroethene (trans)	0.3	---	---	---	---	---	---	---	---	---
1,2-dichloroethene (cis)	0.25	0.013	0.081	0.011	0.007	---	---	---	---	---
ethylbenzene	5.5	---	---	---	---	---	---	---	---	---
toluene	1.5	---	---	---	---	---	---	---	---	---
1,1,1 trichloroethane	0.8	---	0.009	---	---	---	---	---	---	---
trichloroethene	0.7	0.019	0.084	0.008	0.024	---	---	---	---	---
tetrachloroethene	1.4	---	---	---	---	0.110	---	---	---	---
xylenes, total	1.2	---	---	---	---	---	---	---	---	---
vinyl chloride	0.2	---	---	---	---	---	---	---	---	---
methylene chloride	0.1	---	---	---	---	---	---	---	---	---

NOTES :

- All values are reported as milligrams/kilogram (mg/kg)
--- - Analyte not detected in this sample
- Only those analytes that were detected in at least one sample are presented
- Project Cleanup Objectives equal to NYSDEC Recommended Soil Cleanup Guidance (TAGM 4046)
- Shaded areas indicate exceedence of the recommended soil cleanup guidance
* - This result has been blank corrected. Laboratory contamination suspected.

The total VOC concentration (sum of detected analytes) of the 23 January 1998 sample was 10.8 milligrams per kilogram (mg/kg) and the PCB concentration was 1.3 mg/kg. The individual VOCs detected in the 23 January 1998 sample were present at concentrations below their respective UTSs. The UTS for PCBs is 10 mg/Kg. Analytical results from the 23 January 1998 sampling event are provided in Appendix C and the CWM approval letter is provided in Appendix D.

3.4 *CONFIRMATION SOIL SAMPLING*

Based on the results of the field screening of the soil with a PID, confirmation soils samples were collected for laboratory analysis. Confirmation soil samples were transferred into clean, laboratory-supplied glass jars and placed into thermally insulated containers. Samples were transported with proper chain of custody documentation. A confirmation sample was collected from each excavation area wall and from the floor of each excavation. All samples were analyzed by Life Science Laboratories, Inc. (East Syracuse, New York) using USEPA Method 8260B for TCL VOCs.

The analytical results were compared to the Project Cleanup Objectives established in the Soil Remediation Workplan (ERM, January 1998). Project Cleanup Objectives were based on the soil cleanup objectives set forth by NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046, dated 24 January 1994. The analytical results from the confirmation samples, as well as Project Cleanup Objectives, are summarized in Table 3-1 and full reports are provided in Appendix C.

Area #2

The north, south and west wall samples and the floor sample were collected from Area #2 on 3 February 1998. The east wall sample was collected on 4 February 1998. PID measurements from the sampling locations included: North Wall - 7.0 ppm, South Wall - 28 ppm, West Wall - 158 ppm, East Wall - 5.2 ppm, and Floor - 54 ppm. The wall samples were collected at an approximate depth of 6-feet below ground surface. The floor sample was collected at an approximate depth of 12.5-feet below ground surface.

Analytical results indicated that samples meet Project Cleanup Objectives, with the exception of the west wall sample. The West Wall sample exceeded Project Cleanup Objectives for 1,1-dichloroethane, 1,2-dichloroethene(cis), 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene. An additional soil investigation was performed by ERM in March 1998 to determine the extent of the VOC-impacted soil

along the west side of excavation Area #2 and this investigation is discussed in Section 3.5 of this report. Subsequent to the additional investigation, Area #2A was excavated to remove the VOC-impacted soil to the west of the Area #2 excavation.

Area #3

Samples were collected from Area #3 on 5 February 1998. PID measurements indicated VOC concentrations were less than 5 ppm for each sampling location. Wall samples were collected at an approximate depth of three-feet below ground surface. The floor sample was collected at an approximate depth of 6-feet below ground surface. Analytical results indicated that samples meet Project Cleanup Objectives, with the exception of the north wall sample. The north wall sample had an acetone concentration of 0.26 mg/kg and the Project Cleanup Objective is 0.2 mg/kg. The north wall sample was collected directly adjacent to the Main Plant Building foundation wall.

In view of the minimal exceedance of the Project Cleanup Objective and a concern over compromising the integrity of the foundation wall by additional excavation, no further action in this area is recommended.

Area #1

Samples were collected from Area #1 on 11 February 1998. PID measurements indicated VOC concentrations were less than 5 ppm for each sampling location. The south, east, and west wall samples were collected at an approximate depth of two-feet below ground surface. The north wall sample was collected from an approximate depth of 4.5-feet below ground surface (at ramp). The floor sample was collected at an approximate depth of 3-feet below ground surface. Analytical results indicated that samples meet Project Cleanup Objectives, with the exception of the north wall sample. The north wall sample had a 1,2-dichloroethene concentration of 0.300 mg/kg and the Project Cleanup Objective is 0.25 mg/kg. The north wall sample was collected directly adjacent to the railroad track concrete foundation wall. The railroad track foundation is immediately adjacent to the foundation wall of the Main Plant Building.

In view of the minimal exceedance of the Project Cleanup Objective and a concern over compromising the integrity of the Main Plant Building foundation wall by additional excavation of the railroad track foundation, no further action in this area is recommended.

Area #2A

The north, south and west wall samples and the floor sample were collected from Area #2A on 2 September 1998. A confirmation soil sample was not collected from the east wall because that wall intercepted the Area #2 excavation. PID measurements from the sampling locations included: North Wall - 2.4 ppm, South Wall - 6.9 ppm, West Wall - 3.2 ppm, and Floor - 4.6 ppm. The wall samples were collected at an approximate depth of 4-feet below ground surface. The floor sample was collected at an approximate depth of 8.0-feet below ground surface. Analytical results indicated that all confirmation samples from Area #2A meet Project Cleanup Objectives.

3.5 *SITE RESTORATION*

Following the completion of excavation activities, each excavation area was backfilled. Excavation Area #2 and Area #3 were backfilled with bank run gravel. Crushed stone material was installed along the upper 10-inches of Area #2. Crushed stone was used to backfill the entire Area #1 and Area #2A. Backfill material was obtained from Fred Burrows of Utica, New York (see Appendix E for source letter). Backfill material was compacted in lifts using a vibratory plate tamper. Prior to backfilling Area #2, polyethylene sheeting was installed along the west side of the excavation to separate existing soil from the newly installed backfill material. The Soil Remediation Workplan section 3.1 (ERM, January 1998) suggested that non-impacted excavation soils from the site would be used as backfill. However, no soil from the site was used as backfill. Disturbed fencing was restored following site activities. Lucas plans to install concrete over Area #1 in the near future.

4.0 CONCLUSIONS

A soil remediation project was conducted at the Lucas facility to remove VOC-impacted soil. The Project Cleanup Objectives were based on the soil cleanup objectives for the identified VOCs, which are set forth in the NYSDEC Technical and Administrative Guidance Memorandum #4046.

The project was conducted from 30 January 1998 to 4 September 1998. A total of approximately 370-tons of VOC-impacted soil was excavated at the site and transported and disposed off-site at the CWM Chemical Services landfill in Model City, New York. Approximately 330-tons of VOC-impacted soil were removed from three areas during initial excavation efforts conducted from 30 January 1998 to 13 February 1998. Additional remedial activities at the site from 1 September 1998 to 4 September 1998 resulted in the excavation and off-site disposal of approximately 40-tons of VOC-impacted soil.

Confirmation samples were taken from the walls and floor of each excavation area for laboratory analysis. Initial confirmation sampling results indicated that VOC-impacted soil remained to the west of the Area #2 excavation. ERM conducted an additional investigation to determine the extent of the VOC-impacted soil to the west of excavation Area #2. The investigation included the installation of soil borings, field screening with a PID, and soil sampling for laboratory analysis. Based on the results of the investigation, additional excavation activities were conducted and resulted in the removal of approximately 40-tons of soil from Area #2A.

The results of the excavation sampling and laboratory analyses confirmed that the Project Cleanup Objectives were met in all but the following areas:

- The detectable concentration of acetone (2.6 mg/kg) in the soil sample from the north wall of excavation Area #3 slightly exceeded the Project Cleanup Objective of 2.0 mg/kg; and,

- The detectable concentration of 1,2-dichloroethane (0.30 mg/kg) in the confirmation soil sample from the north wall of excavation Area #1 slightly exceeded the Project Cleanup Objective of 0.25 mg/kg.

In view of the minimal exceedance of the Project Cleanup Objectives, and the fact that in both instances, it would be necessary to dig below foundation walls to reach the impacted soils, no further action is recommended.

5.0 *REFERENCES*

Bugliosi, E.F., et. al., 1988. Potential Yields of Wells in Unconsolidated Aquifers in Upstate New York - Hudson - Mohawk Sheet. USGS WRI 87-4275.

Cadwell, D.H. and R.J. Dineen, 1986. Surficial Geologic Map of New York -Hudson Mohawk Sheet. New York State Museum / Geologic Survey, Map and Chart Series #40.

ERM, 1998. Lucas Aerospace Power Transmission Soil Remediation Workplan, Seward Avenue Facility, Utica, New York. January 1998.

Isachsen, Y.W., E. Landing, J.M. Lauber, L.V. Rickard, and W.B. Rogers, 1991. Geology of New York - A Simplified Account. New York State Museum / Geological Survey, Educational Leaflet No. 28.

NYSDEC, 1994. Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels. Division of Hazardous Waste Remediation. HWR-94-4046. 24 January 1994.

Appendix A
Photo Log

LOOKING NORTH AT AREA #1 - PRIOR TO REMEDIATION

LOOKING WEST AT AREA #2 - PRIOR TO REMEDIATION

LOOKING WEST AT EXCAVATION OF AREA #2

LOOKING NORTHWEST AT EXCAVATION OF AREA #2

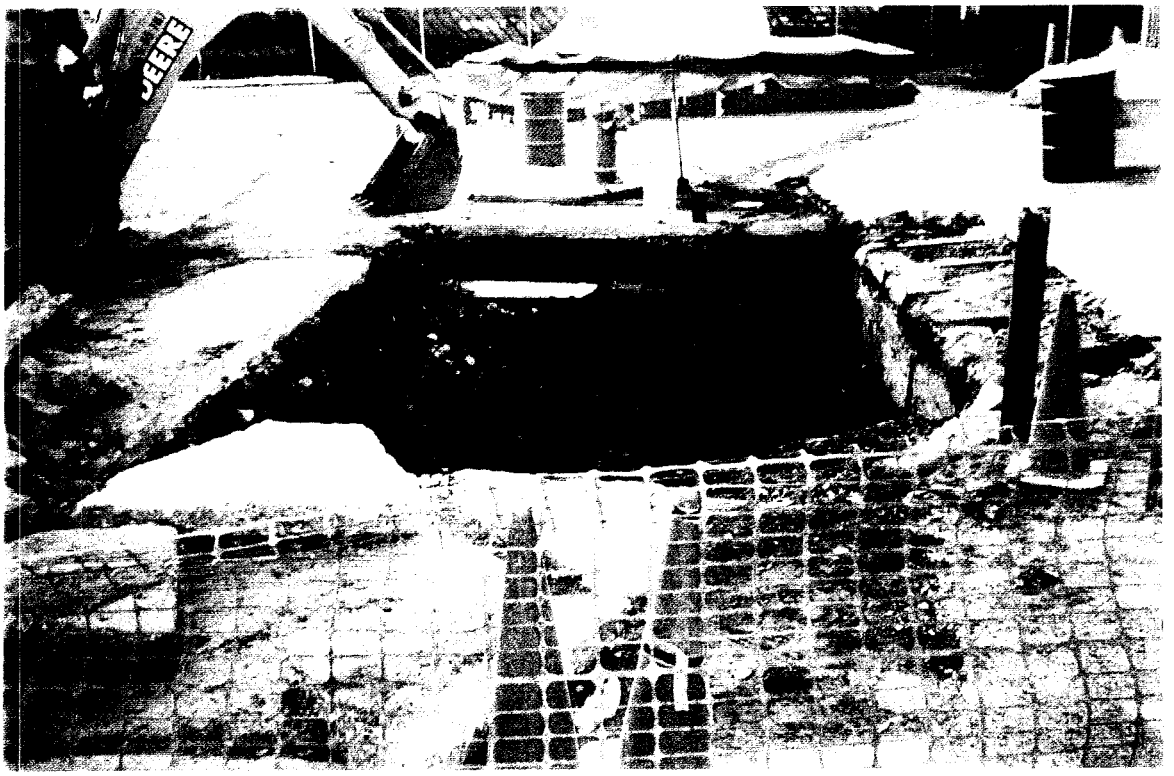
LOOKING NORTHWEST AT AREA #3 - NOTE RAILROAD TIES

LOOKING NORTH AT EXCAVATION OF AREA #3

LOOKING SOUTH AT EXCAVATION OF AREA #3

REPAIR OF STORM SEWER LINE AT AREA #3

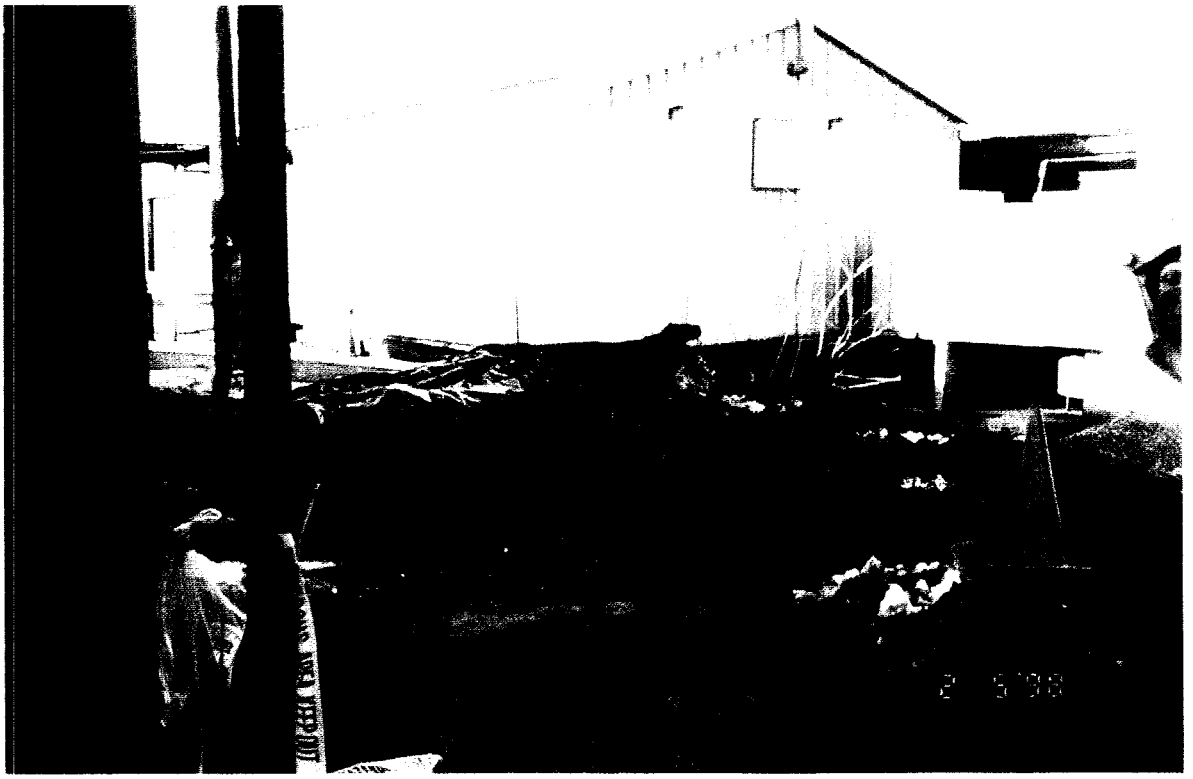
LOOKING NORTH AT EXCAVATION OF AREA #1 - NOTE RAILROAD TRACK FOUNDATION WALL



LOOKING WEST AT EXCAVATION OF AREA #1

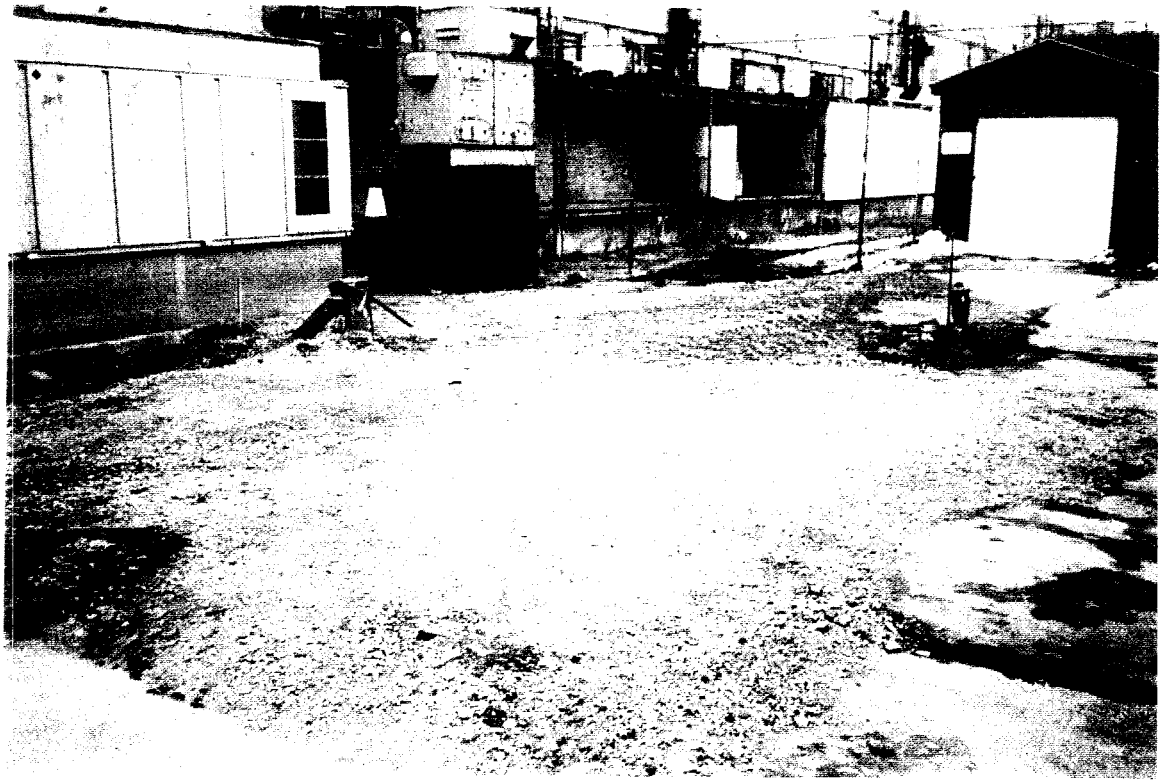
LOOKING EAST AT EXCAVATION OF AREA #1

REPAIR OF STORM SEWER IN AREA #1



LOOKING NORTHWEST AT BACKFILL OF AREA #2 - NOTE PLASTIC SHEETING INSTALLED ALONG WEST WALL OF EXCAVATION

BACKFILLED AREA #2 - LOOKING WEST



BACKFILLED AREA #2 AND AREA #3 - LOOKING NORTHEAST

BACKFILLED AREA #1 - LOOKING NORTHEAST

ROLL-OFF STAGING AREA - LOOKING NORTHEAST

RESTORED FENCING - LOOKING EAST AT ROLL-OFF STAGING AREA

Appendix B
Hazardous Waste Manifests And Certificates Of Disposal

)/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UIB) MDC-C99391

(nerator Name: LUCAS AEROSPACE Manifest Doc. No.: 98014

Profile Number: C99391 SOIL State Manifest No: NYB5707611

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REP #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here: ___
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here: ___

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
___ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
___ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENTAL COORD Date 2-6-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002249111 | Manifest Document No. 98015 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
Lucas Aerospace
211 Seward Ave. Utica, NY 13502-5749 Same

4. Generator's Phone (315) 793-1241

A. State Manifest Document No. NYB566352 9

B. Generator's ID Same

5. Transporter 1 (Company Name) Buffalo Fuel Corp. | 6. US EPA ID Number NYRCC0045724 | C. State Transporter's ID N.Y.C09145

D. Transporter's Phone (800) 208-9054

7. Transporter 2 (Company Name) | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM Chemical Services, Inc.
1550 Balmer Road
Model City, NY 14107

10. US EPA ID Number NYD049836679

G. State Facility's ID

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	Approx. 00020	T	EPA F001 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a CG9391 F002
b
c
d

K. Handling Codes for Wastes Listed Above
a L
b
c
d

15. Special Handling Instructions and Additional Information
AETS Emergency Response # (888)353-2387
SR#417793-54

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo	Day	Year
Michael Gloss	Michael Gloss	02	06	98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year
Robert L. Simcox Jr.	Robert L Simcox Jr	02	06	98

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

GENERATOR

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) 98015 MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98015

Profile Number: C99191 SOIL State Manifest No: NYB5663529

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coor. Date 2-6-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

WDC-CC9391

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

f he waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: -001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste s subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). b each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, d g with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of xo tituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying ardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
arbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
etrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater its are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

(-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

ease print or type. Do not Staple

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002244911 | Manifest Document No. 98015 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal Law

3. Generator's Name and Mailing Address
Lucas Aerospace
211 Seward Ave., Utica, NY 13502-5749 Same

4. Generator's Phone (315) 793-1241

A. State Manifest Document No. NY B566341 2

B. Generator's ID Same

5. Transporter 1 Company Name: Buffalo Fuel Corp

6. US EPA ID Number: NYR000045724

C. State Transporter's ID 46737TN

D. Transporter's Phone (716) 208-7884

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM Chemical Services, Inc.
1550 Balmer Rd.
Model City, NY 14107

10. US EPA ID Number: NY 004 983 667 9

G. State Facility's ID

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Waste No.
a. RQ, Hazardous Waste, Solid, N.O.S., 9 NA3077, III, (F001, F002)	001	CM	Approx 000 20	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

GENERATOR

J. Additional Descriptions for Materials listed Above
a. CG 9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS Emergency # (888) 353-2387
SR# 417793-5

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mikeline Gleason | Signature | Mo. 02 Day 06 Year 98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Dave Barber | Signature | Mo. 02 Day 06 Year 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name | Signature | Mo. Day. Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

NT 566341 2

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTB) MDC-C09391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98016

Profile Number: C09391 SOIL State Manifest No: NYB5660341 2

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

EF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coor Date 2-6-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

MDC-CC9391

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

f the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: 001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treatar, and/or this hazardous waste s subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, g with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of x stituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying azardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYG 0681516

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Rev. 3/97)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: NYD002244911 | Manifest Doc. No.: 98017
2. Page 1 of: 1
Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

4. Generator's Telephone Number ( )

A. NYG0681516

B. Generator's ID: SAME

5. Transporter 1 (Company Name): BUFFALO FUEL CORP
6. US EPA ID Number: NYR000045724

C. State Transporter's ID: 609145 NY

D. Transporter's Telephone: (800) 208-2889

7. Transporter 2 (Company Name)
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107

10. US EPA ID Number: NYD049836679

G. State Facility ID

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, III, (F001, F002)	001	CM	APPROX 00020	T	EPA F001
					STATE
b.					EPA
					STATE
c.					EPA
					STATE
d.					EPA
					STATE

J. Additional Descriptions for Materials listed Above
a. CG 9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
~~SR~~ SR # 419962-1

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Michael Glowacki | Signature | Mo. 02 | Day 12 | Year 98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Hartley Kearney | Signature | Mo. 02 | Day 12 | Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Mo. | Day | Year

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1 — Disposer State — Mailed by TSD Facility

2/9/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98017

Profile Number: C99391 SOIL State Manifest No: NYG0681516

1. Is this waste a non-wastewater or wastewater? (Refer 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
   HOCs, PCBs, Acid, Metals, Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

6. HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERISED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENTAL COORD Date 2-12-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (LDR) -REVERSE SIDE

MDC-CC9191

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

The waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: D01, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). Each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 requires treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

D1 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] Spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewaters are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA Manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You are writing through eight copies (See Reverse Side)

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYG0681561

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Rev. 3/97)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: NYD022449111 | Manifest Doc. No.: 98018

2. Page 1 of: 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

4. Generator's Telephone Number (315) 793-1241

5. Transporter 1 (Company Name): Buffalo Fuel Corp.

6. US EPA ID Number: NYR000045724

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107

10. US EPA ID Number: NYD049836679

A. NYG0681561

B. Generator's ID: SAME

C. State Transporter's ID: 85484DNY

D. Transporter's Telephone (800) 677-8002

E. State Transporter's ID

F. Transporter's Telephone ( )

G. State Facility ID

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	APPROX 00020	T	EPA F001
					STATE
b.					EPA
					STATE
c.					EPA
					STATE
d.					EPA
					STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
SR#419962-2

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON | Signature | Mo. 02 | Day 12 | Year 98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LEON GIULIANI | Signature | Mo. 02 | Day 12 | Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Mo. | Day | Year

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the New York State Department of Environmental Conservation (518) 457-7362

COPY 1 — Disposer State — Mailed by TSD Facility

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98018

Profile Number: C99191 SOIL State Manifest No: NYG0681561

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to such restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

#	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THIS WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D012, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

6. HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coord. Date 2-12-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

MDC-CC9391

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] Spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewaters are mg/l, nonwastewaters are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA Manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

PRESS HARD—You Are Writing Through Eight Copies (See Reverse Side)

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

NYG0681525

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple. (Rev. 3/97)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002249111 | Manifest Doc. No. 98020

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

4. Generator's Telephone Number (315) 793-1241

5. Transporter 1 (Company Name) BUFFALO FUEL CORP. 6. US EPA ID Number NYR000045724

7. Transporter 2 (Company Name) 8. US EPA ID Number

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107 10. US EPA ID Number NYD049836679

A. NYG0681525

B. Generator's ID SAME

C. State Transporter's ID 467377 TM

D. Transporter's Telephone (800) 622-4003

E. State Transporter's ID

F. Transporter's Telephone ( )

G. State Facility ID

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002 c. b. d.

K. Handling Codes for Wastes Listed Above
a. L c. b. d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
SR419969-2 WEB137-25

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Michael Gleason Signature: Michael Gleason Mo. 02 Day 13 Year 98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RODNEY WATSON Signature: Rodney Watson Mo. 02 Day 14 Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Mo Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Signature Mo. Day Year

1/26/98 LAND DISPOSAL R TIFICATION AND CERTIFICATION FORM (UIF) MDC-C09191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98020

Profile Number: C09191 SOIL State Manifest No: NY490681525

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REP #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where there regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENTAL COORD Date 2-13-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA Manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

NYG 0681579

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

(Rev. 3/97)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002244911 | Manifest Doc. No. 98019

2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

4. Generator's Telephone Number (315) 793-1241

5. Transporter 1 (Company Name) BUFFALO FUEL CO

6. US EPA ID Number NYRO000045724

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107

10. US EPA ID Number NYD049836679

A. NYG0681579

B. Generator's ID SAME

C. State Transporter's ID 609175 NY

D. Transporter's Telephone (716) 204 7089

E. State Transporter's ID

F. Transporter's Telephone ( )

G. State Facility ID

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020 APPROX	T	EPA F001
					STATE
b.					EPA
					STATE
c					EPA
					STATE
d.					EPA
					STATE

J. Additional Descriptions for Materials listed Above
a. CG 9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
SR#419969-1

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON | Signature | Mo. 02 | Day 15 | Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Hartley Kreaney | Signature | Mo. 02 | Day 13 | Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Mo. | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Mo. | Day | Year

GENERATOR

TRANSPORTER

FACILITY

COPY 1 — Disposer State — Mailed by TSD Facility

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (LDR) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98014

Profile Number: C99191 BOIL State Manifest No: NYG0681579

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

CF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THIS WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENTAL COORD Date 2-13-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). Each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greator than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

48-14-1 3/89

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002244711 | Manifest Document No. 15006

2. Page 1 of | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
[illegible]

4. Generator's Phone (315) 713-[illegible]41

A. State Manifest Document No. NY B 502298 1

B. Generator's ID SAME

5. Transporter 1 (Company Name) BUFFALO FUEL CORP | 6. US EPA ID Number MYR000045724 | C. State Transporter's ID 4673? NY | D. Transporter's Phone (800) 208-9094

7. Transporter 2 (Company Name) | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD
MODEL CITY, NY 14107 | 10. US EPA ID Number NYD049836679 | G. State Facility's ID | H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a CG 43411 F002 | c
b | d

K. Handling Codes for Wastes Listed Above
a [L] | c [ ]
b [ ] | d [ ]

15. Special Handling Instructions and Additional Information
ACTS [illegible] NSE [illegible] (716) 753-2327
TR 41727-3

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper [illegible] and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international [illegible] regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined [illegible] practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and [illegible] health and the environment, OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management [illegible] to me and that I can afford.

Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name Dave Barber | Signature Dave Barber | Month Day Year 02 04 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

NY B 502298 1

COPY 3 – Disposer State – mailed by generator

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) NDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98006

Profile Number: C99191 SOIL State Manifest No: NYB5022981

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coord. Date 2-04-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

1. the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). t n each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, s ng with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of c stituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

1 All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002244711 Manifest Document No. 18905

2. Page 1 of — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AFB SPACE
[illegible] AVE
UTICA, N.Y. 13502-5749

4. Generator's Phone 315 793-2241

A. State Manifest Document No. NY B [illegible] 2

B. Generator's ID SAME

5. Transporter 1 (Company Name) BUFFALO FUEL CORP.

6. US EPA ID Number NYR000045724

C. State Transporter's ID 8023440

D. Transporter's Phone 8066778603

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 PALMER RD
[illegible] N.Y. 14107

10. US EPA ID Number NYD049936679

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NA, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 2077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a CG 1391 F002
c
b
d

K. Handling Codes for Wastes Listed Above
a L c
b d

15. Special Handling Instructions and Additional Information
[illegible] EMERGENCY RESPONSE NUMBER (800) 553-[illegible]
SR NO. 41777-5

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] Signature [signature] Mo. Day Year

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name Rodney Watson Signature [signature] Mo. 02 Day 04 Year 98

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name Signature Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Mo. Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

NY B 902297 2

COPY 3 – Disposer State – mailed by generator

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) MDC-C99191

(erator Name: LUCAS AEROSPACE Manifest Doc. No.: 98005

Profile Number: C99191 SOIL State Manifest No: NYB5022972

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ SOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THIS WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENV COORDINATOR Date 02-04-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

1 the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), n each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, ng with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of stituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying azardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002449111 Manifest Document No. 18004

2. Page 1 of — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LEAS AEROSPACE
211 E. WASHINGTON AVE
UTICA N.Y. 13502-5141

A. State Manifest Document No. NY B 502296 3

4. Generator's Phone (315) 793-1241

B. Generator's ID SAME

5. Transporter 1 (Company Name) Buffalo Fuel Corp.

6. US EPA ID Number NYR000045724

C. State Transporter's ID N.Y. 609145

D. Transporter's Phone (800) 209-4069

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC
1550 BALMER RD.
MODEL CITY, N.Y. 14107

10. US EPA ID Number NYD049936677

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. 9, NA 3077, III, (F001, F002)	001	CM	1-024	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. 4
c.
b.
d.

15. Special Handling Instructions and Additional Information
NEIS EMERGENCY RESPONSE NUMBER (202) 353-2317
~~CH 1-1-87~~ SR# 41777-4

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name — Signature — Mo. Day Year 12 04 92

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Robert L. Simcox Jr. — Signature — Mo. Day Year 12 04 92

18. Transporter 2 (Acknowledgement or Receipt of Materials)
Printed/Typed Name — Signature — Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Mo. Day Year

NY B 502296 3

A Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 3 – Disposer State – mailed by generator

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98004

Profile Number: C99191 SOIL State Manifest No: NYB502296 3

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Env Coordinator Date 02-04-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

f the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: 001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste s subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). b each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, l g with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of o tituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying azardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
arbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
etrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater ts are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA equival or Class I SDWA systems.

. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

48-14-1 (3/89)—7c

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No. NYD002244911 / Manifest Document No. 98003	2. Page 1 of 1	Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, NY 13502-5741

4. Generator's Phone (315) 793-1241

A. State Manifest Document No. NY B 502295 4

B. Generator's ID SAME

5. Transporter 1 (Company Name) Buffalo Fuel Corp

6. US EPA ID Number NYR000045724

C. State Transporter's ID 810464 NY

D. Transporter's Phone (800) 208-7089

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD
MODEL CITY, N.Y. 14107

10. US EPA ID Number NYD049836679

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S. 9, NA3077, III, (F001, F002)	001	CM	APPROX 00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above

a CG9391 F002	c		
b	d		

K. Handling Codes for Wastes Listed Above

a	L	c	
b		d	

15. Special Handling Instructions and Additional Information
ALTS EMERGENCY RESPONSE NUMBER (800) 353-2567
~~78-2~~ 417787-3

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
[illegible]	[signature]			

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo.	Day	Year
Randy Seelbinder	[signature]	02	04	98

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

NY B 502295 4

COPY 3—Disposer State—mailed by generator

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (LDR) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98003

Profile Number: C99191 SOIL State Manifest No: NYB5022954

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

UKF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This uncharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENV COORDINATOR Date 02-04-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) - REVERSE SIDE

MDC-CC9391

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: D001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
arbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
etrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewaters are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD 002244111 Manifest Document No. 19932

2. Page 1 of 1 — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
[illegible] AVE
UTICA NY 13502-5741

A. State Manifest Document No. NY B 502294 5

4. Generator's Phone (315) 793-1241

B. Generator's ID SAMC

5. Transporter 1 (Company Name) BUFFALO FUEL CORP.

6. US EPA ID Number NYR000045724

C. State Transporter's ID 858840 NY

D. Transporter's Phone (800) 677-8002

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD
MODEL CITY, N.Y. 14107

10. US EPA ID Number NYD049836679

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NA, HAZARDOUS WASTE, SOLID, N.O.S. 9, NA 3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a CG 1391 F002
c
b
d

K. Handling Codes for Wastes Listed Above
a L
c
b
d

15. Special Handling Instructions and Additional Information
[illegible] (315) 452-2287

SRP 4 17

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] Signature [illegible] Mo. Day Year

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name LEON GUILIANI Signature Leon Guiliani Mo. 02 Day 04 Year 98

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name Signature Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Mo. Day Year

NY B 502294 5

A Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UDN) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98002

Profile Number: C99391 SOIL State Manifest No: NYB5022945

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ SOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here: ___
If no USEPA are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here: ___

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENV COORDINATOR Date 02-04-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

14-1 (3/89)—?

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

ase print or type. Do not Staple.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD [illegible] 4 4 1 1 | Manifest Document No. [illegible]

2. Page 1 of 1 | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
[illegible] ISLAND AVE
[illegible], N.Y. 13502-[illegible]

4. Generator's Phone (315) 7[illegible]-1241

A. State Manifest Document No. NY B [illegible]

B. Generator's ID SAME

5. Transporter 1 (Company Name) Buffalo Fuel Corp

6. US EPA ID Number NYR000045724

C. State Transporter's ID 81252 NY

D. Transporter's Phone (800) 208-[illegible]

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM - CHEMICAL SERVICES, INC
1550 BALMER RD
MODEL CITY, N.Y. 14107

10. US EPA ID Number NYD049[illegible]791

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NA 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS TRICHLOROETHYLENE), 8, NA 1760, III, (F001, F002)	001	DM	1000	T	EPA F001 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a CONTAINS TRICHLOROETHYLENE, F002
c
b
d

K. Handling Codes for Wastes Listed Above
a [H] c [ ]
b [ ] d [ ]

15. Special Handling Instructions and Additional Information
[illegible] (716) 754-8231
JN
~~SR No. 44576~~ TH 417737-1

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	[illegible]

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year
KEVIN SEELBINDER	[signature]	03	04	98

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

Printed/Typed Name	Signature	Mo	Day	Year

NY B 502293 6

A Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 3—Disposer State—mailed by generator

2/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (VIB) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98001

Profile Number: C99391 SOIL State Manifest No: NYB5022936

1 Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

2 If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ SOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no UHCs are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the Land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENTAL COORD Date 02-04-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

48-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002344911 | Manifest Document No. 198007 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749
4. Generator's Phone 315 793-1241

A. State Manifest Document No. NY B502299 9
B. Generator's ID SAME

5. Transporter 1 (Company Name) Buffalo Fuel ~~Company~~ Corp. | 6. US EPA ID Number NYR000045724 | C. State Transporter's ID 858840 NY | D. Transporter's Phone 800 677-8002

7. Transporter 2 (Company Name) | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107
10. US EPA ID Number NYD049836679
G. State Facility's ID
H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Waste No.
GENERATOR a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
SR No. 417790-1

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON | Signature: Michael Gleason | Mo. 02 Day 05 Year 98

TRANSPORTER
17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: LEON GUILIANI | Signature: Leon Guiliani | Mo. 02 Day 05 Year 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name | Signature | Mo. Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name | Signature | Mo. Day Year

28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UIS) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98007

Profile Number: C99191 SOIL State Manifest No: NYB5022999

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

1. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 260.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no UHCs are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Env Compliance Coord Date 2-5-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA Manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

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(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. / Manifest Document No.: NYD002244911 | 198008
2. Page 1 of: 1
Information in the shaded areas is not required by Federal Law

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749
4. Generator's Phone: 315 793-1241

A. State Manifest Document No.: NY B 431001 9
B. Generator's ID: SAME

5. Transporter 1 (Company Name): Buffalo Fuel Company Corp.
6. US EPA ID Number: NYR000045724
C. State Transporter's ID: 810464
D. Transporter's Phone: 800 677-8002

7. Transporter 2 (Company Name):
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107
10. US EPA ID Number: NYD049836679
G. State Facility's ID:
H. Facility's Phone: (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG 9391 F002
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (800) 353-2387
SR No. 417790-2

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON
Signature:
Month Day Year: 02 05 98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Hatthey Kreening
Signature:
Month Day Year: 02 05 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name:
Signature:
Month Day Year:

NYSDEC COPY 9

'/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) MDC-C99191

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98008

Profile Number: C99191 SOIL State Manifest No: NYB43100 19

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

1. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no UHCs are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coord. Date 2-5-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

f the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: 001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)). each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, ng with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of nstituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying azardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

ll spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater its are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

48-14-1 (3/89)—7F

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved OMB No. 2050-0039 Expires 3-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. / Manifest Document No.: WYD002244911 / 98009
2. Page 1 of: 1
Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AERO SPACE
211 SEWARD AVE
UTICA, NY 13502-5749
4. Generator's Phone (315) 793-1241

A. State Manifest Document No.: NY B 431002 8
B. Generator's ID: SAME

5. Transporter 1 (Company Name): Buffalo Fuel Company Corp.
6. US EPA ID Number: NYR000045724
C. State Transporter's ID: 609145
D. Transporter's Phone: (800) 677-3002

7. Transporter 2 (Company Name):
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107
10. US EPA ID Number: NYD049836679
G. State Facility's ID:
H. Facility's Phone: (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
c.
b.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888)-353-2387

SR No. 417790-3

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON
Signature:
Mo. Day. Year: 10 30 98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Robert L. Simcox Jr.
Signature: Robert L. Simcox Jr.
Mo. Day. Year: 10 30 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name:
Signature:
Mo. Day. Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

18/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UIR) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98009

Profile Number: C99391 SOIL State Manifest No: NYB4310028

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

1. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REP #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no UHCs are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRON. COORDINATOR Date 2-5-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (LDR) -REVERSE SIDE

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: 01, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, g with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of nstituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying zardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
arbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
etrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

1 spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater its are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)
A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:
A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.
B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.
C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:
D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems
E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple

Form Approved. OMB No. 2050-0039. Expires 3-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: NYD002244911 | Manifest Document No.: 98010
2. Page 1 of 1
Information in the shaded areas is not required by Federal Law

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

A. State Manifest Document No.: NYB 431004 6

4. Generator's Phone: (315) 793-1241

B. Generator's ID: SAME

5. Transporter 1 (Company Name): ~~Buffalo Fuel Company~~ WMI

6. US EPA ID Number: ~~NYR000045724~~

C. State Transporter's ID: 51

D. Transporter's Phone: ~~800 677-8002~~

7. Transporter 2 (Company Name): Price Trucking Corp.

8. US EPA ID Number: NYD046765774

E. State Transporter's ID: 2063A 3 M

F. Transporter's Phone: (716) 822-1414

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, N.Y. 14107

10. US EPA ID Number: NYD049836679

G. State Facility's ID

H. Facility's Phone: (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020 EST	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387

SR NO. 417790-45

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] | Signature: [signature] | Month/Day: 04 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: WAIT DILLOWAY | Signature: [signature] | Month/Day: 04 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month/Day:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: | Signature: | Month/Day:

GENERATOR | TRANSPORTER | FACILITY

/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UDR) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98010

File Number: C99391 SOIL State Manifest No: NYB 4310046

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no USEPA are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

W MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the Land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coor Date 2-5-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (LDR) -REVERSE SIDE

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Be must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD002244911 | Manifest Document No. 98011

2. Page 1 of 1 | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, N.Y. 13502-5749

4. Generator's Phone (315) 793-1241

A. State Manifest Document No. NY B 431005 5

B. Generator's ID SAME

5. Transporter 1 (Company Name) Buffalo Fuel Company Corp. | 6. US EPA ID Number NYR000004574

C. State Transporter's ID 467377

D. Transporter's Phone 800 677-8002

7. Transporter 2 (Company Name) | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY, NY. 14107

10. US EPA ID Number NYD049836679

G. State Facility's ID

H. Facility's Phone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG9391 F002
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. [L]
b. [ ]
c. [ ]
d. [ ]

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888)-353-2387
SR NO. 417790-8408

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON | Signature: Michael Gleason | Month Day Year: 052598

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Dave Barber | Signature: Dave Barber | Month Day Year: 052598

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

28/98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UIS)

MDC-C99191

Generator Name: LUCAS AEROSPACE

Manifest Doc. No.: 98011

Profile Number: C99191 SOIL

State Manifest No: NYB43100055

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater

If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

1. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE DESCRIPTION	NONE	6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:

If no UHCs are present in the waste upon its initial generation check here: X

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where there regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Environmental Coord. Date 2-5-98

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS) -REVERSE SIDE

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

f the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: 001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, ng with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard 1	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

1 All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 114mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

48-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. / Manifest Document No.: WYD002244911 | 98012
2. Page 1 of 1 — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSPACE
211 SEWARD AVE
UTICA, NY 13502-5749

4. Generator's Phone: 315 793-1241

A. State Manifest Document No.: NY B 431006 4

B. Generator's ID: SAME

5. Transporter 1 (Company Name): BUFFALO FUEL CO. CP.

6. US EPA ID Number: NYR000045724

C. State Transporter's ID: 762YCDNY

D. Transporter's Phone: 800 775-05

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD
MODEL CITY NY 14107

10. US EPA ID Number: WYD049836679

G. State Facility's ID

H. Facility's Phone: (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Waste No.
a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020	T	EPA F001 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a. C69391 F002
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888)353-2387
SR# 417793-1 201-25 LU,215

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLEASON — Signature: [signature] — Date: 6 20 98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: RODNEY WATSON — Signature: [signature] — Date: 6/20/98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name — Signature — Date

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Date

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. State Department of Environmental Conservation (800) 457-7362

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTB) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98012

Profile Number: C99391 SOIL State Manifest No: NYB4310064

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

EPA #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE — DESCRIPTION	NONE	6. HOW MUST THIS WASTE BE MANAGED? ENTER LETTER FROM BELOW
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title ENVIRONMENT COORD Date 2-6-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), on each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, ong with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of onstituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard [1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 114mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA-equival or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple

Form Approved OMB No 2050-0039 Expires 3-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No: NYD002244911 | Manifest Document No: 98013
2. Page 1 of: 1 | Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address: Lucas Aerospace, 211 Steward Ave. Utica, NY 13502-5749 Same
4. Generator's Phone: 315 793-1241
A. State Manifest Document No: NYB 418728 6
B. Generator's ID: Same

5. Transporter 1 (Company Name): Buffalo Fuel Corp.
6. US EPA ID Number: NYR000045724
C. State Transporter's ID: 8246V NT
D. Transporter's Phone: 800 2089088

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone ( )

9. Designated Facility Name and Site Address: CWM Chemical Services, Inc. 1550 Balmer Road Model City NY 14107
10. US EPA ID Number: NYD049836679
G. State Facility's ID
H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
GENERATOR a. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	Approx. 00020	T	EPA F001 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a CG 9391 F002
b
c
d

K. Handling Codes for Wastes Listed Above
a: L
b:
c:
d:

15. Special Handling Instructions and Additional Information

SR# 417793-2

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo	Day	Year
Michael Gleason	Michael Gleason	02	06	98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year
Hartley Kraeger	Hartley Kraeger	02	06	98

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo	Day	Year

1/28/98 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UID) MDC-C99391

Generator Name: LUCAS AEROSPACE Manifest Doc. No.: 98013

Profile Number: C99191 SOIL State Manifest No: UYB 4187286

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001, D002, D003 or D012-D043 requires treatment of the characteristic and meet 268.40 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

EXP #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001		X	D
2	F002		X	D
3				
4				

To identify F039 or D001, D002, D003 and D012-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here:

HOW MUST THE WASTE BE MANAGED? In column 6 above, enter the letter (A, B1, B2, B3, B4, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, B4 or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)
"I certify under penalty of the law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 UNCHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 6 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above." "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certifications, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title COOR ENVIRONMENTAL Date 2-6-98

SOLVENT AND CALIFORNIA LIST TREATMENT STANDARDS

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, and/or this hazardous waste is subject to any prohibitions identified as California List restrictions (40 CFR 268.32 and/or RCRA Section 3004(d)), each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001, D002, D003 or D012-D043 require treatment to 268.40 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Carbon tetrachloride (F001)	0.057	6.0	Chlorobenzene (F002)	0.057	6.0
o-Dichlorobenzene (F002)	0.088	6.0	Methylene chloride (F001, F002)	0.089	30
Tetrachloroethylene (F001, F002)	0.056	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
1,1,2-Trichloroethane (F002)	0.054	6.0	Trichloroethylene (F001, F002)	0.054	6.0
Trichloromonofluoromethane (F002)	0.020	30	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

CALIFORNIA LIST TREATMENT STANDARDS--40CFR 268.32,40 CFR 268.42 and RCRA Section 3004(d)

A waste must first be designated as a US EPA Hazardous waste before the waste can be subject to the California List restrictions.

Restricted waste description	Prohibition	Treatment Standard
Liquid* or nonliquid wastes containing Halogenated Organic Compounds listed in 40 CFR 268, Appendix III	Liquid* wastes: Greater than or equal to 1,000 mg/l Nonliquid wastes: Greater than or equal to 1,000 mg/kg	40 CFR 268.42(a)(2) - INCIN or FSUBS
Liquid* wastes containing Poly Chlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40CFR 268.42(a)(1) - INCIN or FSUBS Also see 40 CFR 761.60 and .70
Liquid* wastes containing Metals Note: Hazardous wastes containing As, Cd, Cr, Hg, Pb, or Se must be evaluated if not characteristically hazardous for that metal	One or more of the following metals (or elements) at concentrations greater than or equal to the following: Nickel and/or compounds as Ni: 134mg/l Thalium and/or compounds as Th: 130mg/l	RCRA Section 3004(d)

* - For the definition "liquid" refer to Method 9095, the Paint Filter Liquids Test from EPA manual SW-846

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in non CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory, that are managed in CWA/CWA equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SDWA systems.

PRESS HARD—You Are Writing Through Eight Copies
(See Reverse Side for Instructions)

8-14-1 (3/89)—7f

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. / Manifest Document No.: WYD002244911 / 198014

2. Page 1 of 1 — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
LUCAS AEROSCALE
211 SEWARD AVE
UTICA, NY 13502-5749

4. Generator's Phone: 315 793-1241

A. State Manifest Document No.: NY B 570761 1

B. Generator's ID: SAME

5. Transporter 1 (Company Name): BUFFALO FUEL CORP

6. US EPA ID Number: NYR000045724

C. State Transporter's ID: 25884D NY

D. Transporter's Phone: 800 677-8002

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 BALMER RD.
MODEL CITY NY 14107

10. US EPA ID Number: WYD049836679

G. State Facility's ID

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F001, F002)	001	CM	00020	T	EPA F001 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. CG 9391 F002
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
AETS EMERGENCY RESPONSE NUMBER (888) 353-2387
SR# 417793-3

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MICHAEL GLOSKA — Signature: [signature] — Mo. 02 Day 26 Year 98

TRANSPORTER

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: LEON GUILIANI — Signature: [signature] — Mo. 02 Day 06 Year 98

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Mo. Day Year

NYSDEC COPY

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPA on 02/13/98 as described on Hazardous Waste Manifest number NYG0681579 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148190801
CWM Unit #: 1*0
Disposal Date: 02/13/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106917
02/17/98

For questions please call our Customer Service Dept at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPAC on 02/13/98 as described on Hazardous Waste Manifest number NYG0681525 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148190901
CWM Unit #: 1*0
Disposal Date: 02/13/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106918
02/17/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPACE on 02/12/98 as described on Hazardous Waste Manifest number NYG0681561 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148186501
CWM Unit #: 1*0
Disposal Date: 02/12/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106870
02/17/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N.Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPACE on 02/12/98 as described on Hazardous Waste Manifest number NYG0681516 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148186801
CWM Unit #: 1*0
Disposal Date: 02/12/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106873
02/17/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/09/98 as described on Hazardous Waste Manifest number NYB4310064 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148175801
CWM Unit #: 1*0
Disposal Date: 02/09/98

I certify, on behalf of the above listed treatment facility, that to the b... of my knowledge, the above-described waste was managed in compliance with ... applicable laws, regulations, permits and licenses on the date listed abo...

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106684
02/10/98

For questions please c...
our Customer Service D...
at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/06/98 as described on Hazardous Waste Manifest number NYB4310046 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148169401
CWM Unit #: 1*0
Disposal Date: 02/06/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106473
02/06/98

For questions please call our Customer Service Dept. at (800) 343-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/06/98 as described on Hazardous Waste Manifest number NYB5707611 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148172901
CWM Unit #: 1*0
Disposal Date: 02/06/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106662
02/10/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/06/98 as described on Hazardous Waste Manifest number NYB5663529 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148173001
CWM Unit #: 1*0
Disposal Date: 02/06/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106663
02/10/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/06/98 as described on Hazardous Waste Manifest number NYB4187286 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148173101
CWM Unit #: 1*0
Disposal Date: 02/06/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106664
02/10/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/06/98 as described on Hazardous Waste Manifest number NYB5663412 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148173201
CWM Unit #: 1*0
Disposal Date: 02/06/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106665
02/10/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste mate[illegible] LUCAS AEROSP[illegible]
on 02/05/98 as described on Hazardous Waste Manifes[illegible] NYB5022999
Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148168401
CWM Unit #: 1*0
Disposal Date: 02/05/98

I certify, on behalf of the above listed treatment [illegible], that to the [illegible]
of my knowledge, the above-described waste was mana[illegible]ompliance with
applicable laws, regulations, permits and licenses [illegible]ate listed abo[illegible]

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106463
02/06/98

[illegible]stions pleas[illegible]
[illegible]tomer Servic[illegible]
843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste mate[illegible] from LUCAS AEROSPA[illegible] on 02/05/98 as described on Hazardous Waste Manifes[illegible]umber NYB4310028 Sequence number 01.

[illegible]ofile Number: CG9391
[illegible] Tracking ID: 8148168601
CWM Unit #: 1*0
[illegible]isposal Date: 02/05/98

[illegible]ertify, on behalf of the above listed treatment [illegible]ity, that to the [illegible] [illegible]y knowledge, the above-described waste was mana[illegible] in compliance with [illegible] applicable laws, regulations, permits and licenses [illegible] the date listed abo[illegible]

Gill Knickerbocker

GILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106465
02/06/98

[illegible] questions pl[illegible]ase [illegible] [illegible] Customer Ser[illegible]ice [illegible] [illegible] (800) 843-360[illegible]

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107
Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/05/98 as described on Hazardous Waste Manifest number NYB4310055 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148168701
CWM Unit #: 1*0
Disposal Date: 02/05/98

I certify, on behalf of the above listed treat... ...lity, that to ... ... in compliance ... ... ne date liste... ab...
of my knowledge, the above-described waste was
applicable laws, regulations, permits and lice...

Gill Knickerbocker

...questions plea...
Customer Ser...
(800) 843-360...

GILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106466
02/06/98

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/05/98 as described on Hazardous Waste Manifest number NYB4310019 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148168901
CWM Unit #: 1*0
Disposal Date: 02/05/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106468
2/06/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022972 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148162601
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106212
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107
Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022954 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148162701
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106210
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107
Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022981 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148163101
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106207
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022936 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148162801
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106211
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107
Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022945 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148162901
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106209
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc.
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DESTRUCTION

CWM Chemical Services, Inc. has received waste material from LUCAS AEROSPACE on 02/04/98 as described on Hazardous Waste Manifest number NYB5022963 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8148163001
CWM Unit #: 1*0
Disposal Date: 02/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Jill Knickerbocker

JILL KNICKERBOCKER
TECHNICAL MANAGER
Certificate # 106208
02/05/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc. Phone 716/754-8231
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPACE on 09/04/98 as described on Hazardous Waste Manifest number NYB4310118 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8149230801
CWM Unit #: 1*0
Disposal Date: 09/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Michele a.P. Foulke

MICHELE FOULKE
RECORDS DEPT. SUPERVISOR
Certificate # 125343
09/08/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc. Phone 716/754-8231
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
(D002244911
11 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

WM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPACE n 09/04/98 as described on Hazardous Waste Manifest number NYB4187277 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8149230601
CWM Unit #: 1*0
Disposal Date: 09/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all pplicable laws, regulations, permits and licenses on the date listed above.

Michele a.P. Foulke

ICHELE FOULKE
ECORDS DEPT. SUPERVISOR
Certificate # 125342
09/08/98

For questions please call our Customer Service Dept. at (800) 843-3604

Waste Management, Inc.

CWM Chemical Services, Inc. Phone 716/754-8231
1550 Balmer Rd.
P.O. Box 200
Model City, N. Y. 14107

Federal EPA ID: NYD049836679

LUCAS AEROSPACE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT
NYD002244911
211 SEWARD AVE
UTICA NY 13502-5749

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from LUCAS AEROSPACE on 09/04/98 as described on Hazardous Waste Manifest number NYB4310127 Sequence number 01.

Profile Number: CG9391
CWM Tracking ID: 8149230501
CWM Unit #: 1*0
Disposal Date: 09/04/98

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Michele a.P. Foulke

MICHELE FOULKE
RECORDS DEPT. SUPERVISOR
Certificate # 125341
09/08/98

For questions please call our Customer Service Dept. at (800) 843-3604

Appendix C
Analytical Data

Profile Analytical

REVISED SAMPLE ANALYSIS REPORT

9800408
LSL Project No.

Reviewed By

01/27/98
Date

ERM - Northeast

Project No. 937.008

Folder Name Analytical

JB

LIFE SCIENCE LABORATORIES, INC.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Fax: (315) 445-1301

-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

A copy of this report was mailed to: Waste Management
Sherry

Sample ID: LUC B98-012398

Project No.: 939.008
Source: Lucas, Utica
LSL Sample ID: 9800408-001
Sample Matrix: SHW,24HR

Authorization:
LSL Project No.: 9800408
Date Sampled: 1/23/98
Revised Report Date: 1/27/98
Original Report Date: 1/26/98

Analytical Method / Parameter(s)	Results	Units	Analysis Date	Comment
EPA 8082 PCB's				
Arochlor-1016	<0.2	mg/kg	1/26/98	
Arochlor-1221	<0.2	mg/kg	1/26/98	
Arochlor-1232	<0.2	mg/kg	1/26/98	
Arochlor-1242	<0.2	mg/kg	1/26/98	
Arochlor-1248	<0.2	mg/kg	1/26/98	
Arochlor-1254	1.3	mg/kg	1/26/98	(20)
(20) This target analyte appears to be biologically degraded and/or environmentally weathered.				
Arochlor-1260	<0.2	mg/kg	1/26/98	
EPA 8260B TCL Volatiles				
Acetone	<1000	ug/kg	1/26/98	
Benzene	<500	ug/kg	1/26/98	
Bromodichloromethane	<500	ug/kg	1/26/98	
Bromoform	<500	ug/kg	1/26/98	
Bromomethane	<500	ug/kg	1/26/98	
2-Butanone (MEK)	<1000	ug/kg	1/26/98	
Carbon disulfide	<500	ug/kg	1/26/98	
Carbon tetrachloride	<500	ug/kg	1/26/98	
Chlorobenzene	<500	ug/kg	1/26/98	
Chloroethane	<500	ug/kg	1/26/98	
Chloroform	<500	ug/kg	1/26/98	
Chloromethane	<500	ug/kg	1/26/98	
Dibromochloromethane	<500	ug/kg	1/26/98	
1,1-Dichloroethane	2800	ug/kg	1/26/98	
1,2-Dichloroethane	<500	ug/kg	1/26/98	
1,1-Dichloroethene	<500	ug/kg	1/26/98	
1,2-Dichloroethene, Total	<500	ug/kg	1/26/98	

-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

A copy of this report was mailed to: Waste Management
Sherry

Sample ID: LUC B98-012398

Project No.: 939.008
Source: Lucas, Utica
LSL Sample ID: 9800408-001
Sample Matrix: SHW,24HR

Authorization:
LSL Project No.: 9800408
Date Sampled: 1/23/98
Revised Report Date: 1/27/98
Original Report Date: 1/26/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
1,2-Dichloropropane	<500	ug/kg	1/26/98	
cis-1,3-Dichloropropene	<500	ug/kg	1/26/98	
trans-1,3-Dichloropropene	<500	ug/kg	1/26/98	
Ethyl benzene	610	ug/kg	1/26/98	
2-Hexanone	<1000	ug/kg	1/26/98	
Methylene chloride	<1000	ug/kg	1/26/98	
4-Methyl-2-pentanone (MIBK)	<1000	ug/kg	1/26/98	
Styrene	<500	ug/kg	1/26/98	
1,1,2,2-Tetrachloroethane	<500	ug/kg	1/26/98	
Tetrachloroethene	590	ug/kg	1/26/98	
Toluene	1400	ug/kg	1/26/98	
1,1,1-Trichloroethane	<500	ug/kg	1/26/98	
1,1,2-Trichloroethane	<500	ug/kg	1/26/98	
Trichloroethene	2900	ug/kg	1/26/98	
Vinyl chloride	<500	ug/kg	1/26/98	
Xylenes (Total)	2500	ug/kg	1/26/98	
1,1,2-Trichloro-1,2,2-trifluoroethane	<500	ug/kg	1/26/98	

Life Science Laboratories, Inc.

5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Telefax: (315) 445-1301

NYS DOH ELAP No. 10248

LSL 5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: FRM Phone # 445-2554

Address: 5788 Widewaters Telefax # 445-2543
DeWitt, NY 13214

Authorization:

Contact Person: Jim Brown

LSL Project #: 9800.408

Client's Site I.D.: Lucas Utica

Client's Project I.D.: 939.008

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
~~B98-1~~	~~Luc98~~										
	Luc B98-01 2398	1/23/98	2:30PM	X		Soil	—	1	glass	EPA 8260 TCL + 1,1,2 Trichloro-1,2,2 Trifluoroethane	
	"	"	"	X		Soil	—	1	glass	PCB's	

Notes and Hazard identifications:

24 HR TAT

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: JVB Received By:	14:30	1/23/98
Relinquished By: Received By:		
Relinquished By: Received for Lab By:	1/23/98	14:30

Shipment Method: Samples Received Intact: Y N

Confirmation Analytical

MEMORANDUM

TO: **Jim Brown**
ERM

FROM: **Dave Prichard**
LSL

DATE: **2/11/98**

RE: **Results for trans-1,2-Dichloroethene in project # 939.008**

Please refer to the attached table for the concentrations of trans-1,2-Dichloroethene in the samples previously taken in your project #939.008. The concentrations of trans-1,2-Dichloroethene will be added to the bottom of the 8260 results in the current project that is in house. If you should need any further clarification please do not hesitate to call me at (315) 445-1105.

Submitter	Client Project#	SampleID	Source	Collect Date	TestID	ReportedResult	Units	AnalysisDate	TestGroupID	Lab#
ERM	939.008	LUC B98-012398	Lucas, Utica	1/23/98	1,2-DCE	<500	ug/kg	1/26/98	8260_SHW_TCL	9800408-001
					trans-1,2-DCE	**<500**	ug/kg	1/26/98		
ERM	939.008	LUC-A2-FL-12' (2/98)	Lucas - Utica, NY	2/3/98	1,2-DCE	86	ug/kg	2/3/98	8260_SHW_TCL	9800575-001
					trans-1,2-DCE	**<20**	ug/kg	2/3/98		
ERM	939.008	LUC-A2-SWALL (2/98)	Lucas - Utica, NY	2/3/98	1,2-DCE	180	ug/kg	2/3/98	8260_SHW_TCL	9800575-002
					trans-1,2-DCE	**<10**	ug/kg	2/3/98		
ERM	939.008	LUC-A2-WWALL (2/98)	Lucas - Utica, NY	2/3/98	1,2-DCE	6300	ug/kg	2/3/98	8260_SHW_TCL	9800575-003
					trans-1,2-DCE	**<200**	ug/kg	2/3/98		
ERM	939.008	LUC-A2-NWALL (2/98)	Lucas - Utica, NY	2/3/98	1,2-DCE	19	ug/kg	2/3/98	8260_SHW_TCL	9800575-004
					trans-1,2-DCE	**<5**	ug/kg	2/3/98		
ERM	939.008	LUC-A2EWALL (2/98)	Lucas - Utica, NY	2/4/98	1,2-DCE	<20	ug/kg	2/5/98	8260_SHW_TCL	9800612-001
					trans-1,2-DCE	**<20**	ug/kg	2/5/98		
ERM	939.008	LUC-A3WWALL 2/98	Lucas	2/5/98	1,2-DCE	<20	ug/kg	2/6/98	8260_SHW_TCL	9800634-001
					trans-1,2-DCE	**<20**	ug/kg	2/6/98		
ERM	939.008	LUC-A3NWALL 2/98	Lucas	2/5/98	1,2-DCE	<20	ug/kg	2/6/98	8260_SHW_TCL	9800634-002
					trans-1,2-DCE	**<20**	ug/kg	2/6/98		
ERM	939.008	LUC-A3SWALL 2/98	Lucas	2/5/98	1,2-DCE	<20	ug/kg	2/6/98	8260_SHW_TCL	9800634-003
					trans-1,2-DCE	**<20**	ug/kg	2/6/98		
ERM	939.008	LUC-A3EWALL 2/98	Lucas	2/5/98	1,2-DCE	<5	ug/kg	2/6/98	8260_SHW_TCL	9800634-004
					trans-1,2-DCE	**<5**	ug/kg	2/6/98		
ERM	939.008	LUC-A3BOTTOM 2/98	Lucas	2/5/98	1,2-DCE	<5	ug/kg	2/6/98	8260_SHW_TCL	9800634-005
					trans-1,2-DCE	**<5**	ug/kg	2/6/98		

SAMPLE ANALYSIS REPORT

9800525
LSL Project No.

Reviewed By QDO

02/04/98
Date

LIFE SCIENCE LABORATORIES, INC.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Fax: (315) 445-1301

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800575
Report Date: 2/4/98

Sample ID: LUC-A2-FL-12' (2/98)

Source: Lucas - Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800575-001
Date Sampled: 2/3/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<40	ug/kg	2/3/98	
Benzene	<20	ug/kg	2/3/98	
Bromodichloromethane	<20	ug/kg	2/3/98	
Bromoform	<20	ug/kg	2/3/98	
Bromomethane	<20	ug/kg	2/3/98	
2-Butanone (MEK)	<40	ug/kg	2/3/98	
Carbon disulfide	<20	ug/kg	2/3/98	
Carbon tetrachloride	<20	ug/kg	2/3/98	
Chlorobenzene	<20	ug/kg	2/3/98	
Chloroethane	<20	ug/kg	2/3/98	
Chloroform	<20	ug/kg	2/3/98	(11)
(11) This result has been blank corrected.				
Chloromethane	<20	ug/kg	2/3/98	
Dibromochloromethane	<20	ug/kg	2/3/98	
1,1-Dichloroethane	25	ug/kg	2/3/98	
1,2-Dichloroethane	<20	ug/kg	2/3/98	
1,1-Dichloroethene	<20	ug/kg	2/3/98	
1,2-Dichloroethene, Total	86	ug/kg	2/3/98	
1,2-Dichloropropane	<20	ug/kg	2/3/98	
cis-1,3-Dichloropropene	<20	ug/kg	2/3/98	
trans-1,3-Dichloropropene	<20	ug/kg	2/3/98	
Ethyl benzene	<20	ug/kg	2/3/98	
2-Hexanone	<40	ug/kg	2/3/98	
Methylene chloride	<40	ug/kg	2/3/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008 | **LSL Project No.: 9800575**
Authorization: 939.008 | **Report Date: 2/4/98**

4-Methyl-2-pentanone (MIBK)	<40	ug/kg	2/3/98
Styrene	<20	ug/kg	2/3/98
1,1,2,2-Tetrachloroethane	<20	ug/kg	2/3/98
Tetrachloroethene	29	ug/kg	2/3/98
Toluene	<20	ug/kg	2/3/98
1,1,1-Trichloroethane	110	ug/kg	2/3/98
1,1,2-Trichloroethane	<20	ug/kg	2/3/98
Trichloroethene	78	ug/kg	2/3/98
Vinyl chloride	<20	ug/kg	2/3/98
Xylenes (Total)	<20	ug/kg	2/3/98

Sample ID: LUC-A2-SWALL (2/98)

Source: Lucas - Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800575-002
Date Sampled: 2/3/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<20	ug/kg	2/3/98	
Benzene	<10	ug/kg	2/3/98	
Bromodichloromethane	<10	ug/kg	2/3/98	
Bromoform	<10	ug/kg	2/3/98	
Bromomethane	<10	ug/kg	2/3/98	
2-Butanone (MEK)	<20	ug/kg	2/3/98	
Carbon disulfide	<10	ug/kg	2/3/98	
Carbon tetrachloride	<10	ug/kg	2/3/98	
Chlorobenzene	<10	ug/kg	2/3/98	
Chloroethane	<10	ug/kg	2/3/98	
Chloroform	<10	ug/kg	2/3/98	
Chloromethane	<10	ug/kg	2/3/98	
Dibromochloromethane	<10	ug/kg	2/3/98	
1,1-Dichloroethane	13	ug/kg	2/3/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008 | **LSL Project No.: 9800575**
Authorization: 939.008 | **Report Date: 2/4/98**

1,2-Dichloroethane	<10	ug/kg	2/3/98
1,1-Dichloroethene	<10	ug/kg	2/3/98
1,2-Dichloroethene, Total	180	ug/kg	2/3/98
1,2-Dichloropropane	<10	ug/kg	2/3/98
cis-1,3-Dichloropropene	<10	ug/kg	2/3/98
trans-1,3-Dichloropropene	<10	ug/kg	2/3/98
Ethyl benzene	<10	ug/kg	2/3/98
2-Hexanone	<20	ug/kg	2/3/98
Methylene chloride	<20	ug/kg	2/3/98
4-Methyl-2-pentanone (MIBK)	<20	ug/kg	2/3/98
Styrene	<10	ug/kg	2/3/98
1,1,2,2-Tetrachloroethane	<10	ug/kg	2/3/98
Tetrachloroethene	<10	ug/kg	2/3/98
Toluene	<10	ug/kg	2/3/98
1,1,1-Trichloroethane	<10	ug/kg	2/3/98
1,1,2-Trichloroethane	<10	ug/kg	2/3/98
Trichloroethene	130	ug/kg	2/3/98
Vinyl chloride	<10	ug/kg	2/3/98
Xylenes (Total)	<10	ug/kg	2/3/98

Sample ID: LUC-A2-WWALL (2/98)
Source: Lucas - Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800575-003
Date Sampled: 2/3/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<400	ug/kg	2/3/98	
Benzene	<200	ug/kg	2/3/98	
Bromodichloromethane	<200	ug/kg	2/3/98	
Bromoform	<200	ug/kg	2/3/98	
Bromomethane	<200	ug/kg	2/3/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800575
Report Date: 2/4/98

2-Butanone (MEK)	<400	ug/kg	2/3/98
Carbon disulfide	<200	ug/kg	2/3/98
Carbon tetrachloride	<200	ug/kg	2/3/98
Chlorobenzene	<200	ug/kg	2/3/98
Chloroethane	<200	ug/kg	2/3/98
Chloroform	<200	ug/kg	2/3/98
Chloromethane	<200	ug/kg	2/3/98
Dibromochloromethane	<200	ug/kg	2/3/98
1,1-Dichloroethane	1500	ug/kg	2/3/98
1,2-Dichloroethane	<200	ug/kg	2/3/98
1,1-Dichloroethene	<200	ug/kg	2/3/98
1,2-Dichloroethene, Total	6300	ug/kg	2/3/98
1,2-Dichloropropane	<200	ug/kg	2/3/98
cis-1,3-Dichloropropene	<200	ug/kg	2/3/98
trans-1,3-Dichloropropene	<200	ug/kg	2/3/98
Ethyl benzene	<200	ug/kg	2/3/98
2-Hexanone	<400	ug/kg	2/3/98
Methylene chloride	<400	ug/kg	2/3/98
4-Methyl-2-pentanone (MIBK)	<400	ug/kg	2/3/98
Styrene	<200	ug/kg	2/3/98
1,1,2,2-Tetrachloroethane	<200	ug/kg	2/3/98
Tetrachloroethene	1600	ug/kg	2/3/98
Toluene	<200	ug/kg	2/3/98
1,1,1-Trichloroethane	1900	ug/kg	2/3/98
1,1,2-Trichloroethane	<200	ug/kg	2/3/98
Trichloroethene	1300	ug/kg	2/3/98
Vinyl chloride	<200	ug/kg	2/3/98
Xylenes (Total)	<200	ug/kg	2/3/98

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800575
Report Date: 2/4/98

Sample ID: LUC-A2-NWALL (2/98)

Source: Lucas - Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800575-004
Date Sampled: 2/3/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	89	ug/kg	2/3/98	
Benzene	<5	ug/kg	2/3/98	
Bromodichloromethane	<5	ug/kg	2/3/98	
Bromoform	<5	ug/kg	2/3/98	
Bromomethane	<5	ug/kg	2/3/98	
2-Butanone (MEK)	<10	ug/kg	2/3/98	
Carbon disulfide	<5	ug/kg	2/3/98	
Carbon tetrachloride	<5	ug/kg	2/3/98	
Chlorobenzene	<5	ug/kg	2/3/98	
Chloroethane	<5	ug/kg	2/3/98	
Chloroform	<5	ug/kg	2/3/98	
Chloromethane	<5	ug/kg	2/3/98	
Dibromochloromethane	<5	ug/kg	2/3/98	
1,1-Dichloroethane	22	ug/kg	2/3/98	
1,2-Dichloroethane	<5	ug/kg	2/3/98	
1,1-Dichloroethene	<5	ug/kg	2/3/98	
1,2-Dichloroethene, Total	19	ug/kg	2/3/98	
1,2-Dichloropropane	<5	ug/kg	2/3/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/3/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/3/98	
Ethyl benzene	<5	ug/kg	2/3/98	
2-Hexanone	<10	ug/kg	2/3/98	
Methylene chloride	<10	ug/kg	2/3/98	(11)

(11) This result has been blank corrected.

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008 **LSL Project No.: 9800575**
Authorization: 939.008 **Report Date: 2/4/98**

4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/3/98	
Styrene	<5	ug/kg	2/3/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/3/98	
Tetrachloroethene	<5	ug/kg	2/3/98	(11)
(11) This result has been blank corrected.				
Toluene	18	ug/kg	2/3/98	
1,1,1-Trichloroethane	<5	ug/kg	2/3/98	
1,1,2-Trichloroethane	<5	ug/kg	2/3/98	
Trichloroethene	<5	ug/kg	2/3/98	
Vinyl chloride	39	ug/kg	2/3/98	
Xylenes (Total)	6.1	ug/kg	2/3/98	

Lancaster Laboratories, Inc.
LSL 5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: ERM Phone # 445-2554

Address: 5788 W. GENESEE PKWY Telefax # 445-2543

Contact Person: JIM BROWN

LSL Project #: 980057 ~~7~~ 5

Client's Site I.D.: LUCAS UTICA, N.Y.

Authorization: 939.008

Client's Project I.D.: 939.008

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
001	LUC-A2-FL-12'(2/98)	2/3/98	11:00	✓		SOIL	ICE	1	4oz JAR	EPA 8260 VOC	
002	LUC-A2-SWALL(2/98)	↓	12:20	↓		↓	↓	↓	↓	↓	
003	LUC-A2-WWALL(2/98)		12:25								
004	LUC-A2-NWALL(2/98)		12:30								

Notes and Hazard identifications:

24 HR T.A.T.

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: J.M. Stang Received By:	2/3/98	
Relinquished By: J.M. Stang Received By:	2/3/98	1240
Relinquished By: Received for Lab By:	2/3/98	1450

Shipment Method: Samples Received Intact: Y N

SAMPLE ANALYSIS REPORT

9800612
LSL Project No.

Reviewed By

02/06/98
Date

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-A2EWALL (2/98)

Project No.: 939.008
Source: Lucas - Utica, NY
LSL Sample ID: 9800612-001
Sample Matrix: SHW,24HR

Authorization: 939.008
LSL Project No.: 9800612
Date Sampled: 2/4/98
Report Date: 2/6/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
EPA 8260B TCL Volatiles				
Acetone	<40	ug/kg	2/5/98	
Benzene	<20	ug/kg	2/5/98	
Bromodichloromethane	<20	ug/kg	2/5/98	
Bromoform	<20	ug/kg	2/5/98	
Bromomethane	<20	ug/kg	2/5/98	
2-Butanone (MEK)	<40	ug/kg	2/5/98	
Carbon disulfide	<20	ug/kg	2/5/98	
Carbon tetrachloride	<20	ug/kg	2/5/98	
Chlorobenzene	<20	ug/kg	2/5/98	
Chloroethane	<20	ug/kg	2/5/98	
Chloroform	<20	ug/kg	2/5/98	
Chloromethane	<20	ug/kg	2/5/98	
Dibromochloromethane	<20	ug/kg	2/5/98	
1,1-Dichloroethane	<20	ug/kg	2/5/98	
1,2-Dichloroethane	<20	ug/kg	2/5/98	
1,1-Dichloroethene	<20	ug/kg	2/5/98	
1,2-Dichloroethene, Total	<20	ug/kg	2/5/98	
1,2-Dichloropropane	<20	ug/kg	2/5/98	
cis-1,3-Dichloropropene	<20	ug/kg	2/5/98	
trans-1,3-Dichloropropene	<20	ug/kg	2/5/98	
Ethyl benzene	<20	ug/kg	2/5/98	
2-Hexanone	<40	ug/kg	2/5/98	
Methylene chloride	<40	ug/kg	2/5/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<40	ug/kg	2/5/98	
Styrene	<20	ug/kg	2/5/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-A2EWALL (2/98)

Project No.: 939.008
Source: Lucas - Utica, NY
LSL Sample ID: 9800612-001
Sample Matrix: SHW,24HR

Authorization: 939.008
LSL Project No.: 9800612
Date Sampled: 2/4/98
Report Date: 2/6/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
1,1,2,2-Tetrachloroethane	<20	ug/kg	2/5/98	
Tetrachloroethene	<20	ug/kg	2/5/98	(11)
(11) This result has been blank corrected.				
Toluene	<20	ug/kg	2/5/98	
1,1,1-Trichloroethane	<20	ug/kg	2/5/98	
1,1,2-Trichloroethane	<20	ug/kg	2/5/98	
Trichloroethene	25	ug/kg	2/5/98	
Vinyl chloride	<20	ug/kg	2/5/98	
Xylenes (Total)	<20	ug/kg	2/5/98	(06)
(06) Elevated detection limit due to matrix interference.				

LSL
5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: EEM Phone # 445-2554

Address: 5788 WIDEWATERS PKWY Telefax # 445-2343

DE WITT, NY.

Authorization: 939.008

Contact Person: JIM BROWN

LSL Project #: 9800612

Client's Site I.D.: LUCAS UTICA, N.Y.

Client's Project I.D.: 939.008

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
001	LVC-A2EWALL(2/4/98)	2/4/98	11:10	✓		SOIL	ICE	1	4oz JAR	EPA 8260 VOC	

Notes and Hazard identifications:
24 HR T.A.T.

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: J.P. Storey Received By:	2/4/98	
Relinquished By: J.P. Storey Received By:		11:10
Relinquished By: Received for Lab By:	2/5/98	10:20

Shipment Method: Samples Received Intact: Y N

SAMPLE ANALYSIS REPORT

9800634
LSL Project No.

Reviewed By

02/06/98
Date

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By Client's acceptance and/or use of this report, Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect Client as regards to the results contained in this report. Client further agrees that the only remedy available to Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to Client.

The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without the express prior written consent of Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

Sample ID: LUC-A3WWALL 2/98

Source: Lucas
Sample Matrix: SHW,24HR

LSL Sample ID: 9800634-001
Date Sampled: 2/5/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<40	ug/kg	2/6/98	
Benzene	<20	ug/kg	2/6/98	
Bromodichloromethane	<20	ug/kg	2/6/98	
Bromoform	<20	ug/kg	2/6/98	
Bromomethane	<20	ug/kg	2/6/98	
2-Butanone (MEK)	<40	ug/kg	2/6/98	
Carbon disulfide	<20	ug/kg	2/6/98	
Carbon tetrachloride	<20	ug/kg	2/6/98	
Chlorobenzene	<20	ug/kg	2/6/98	
Chloroethane	<20	ug/kg	2/6/98	
Chloroform	<20	ug/kg	2/6/98	
Chloromethane	<20	ug/kg	2/6/98	
Dibromochloromethane	<20	ug/kg	2/6/98	
1,1-Dichloroethane	<20	ug/kg	2/6/98	
1,2-Dichloroethane	<20	ug/kg	2/6/98	
1,1-Dichloroethene	<20	ug/kg	2/6/98	
1,2-Dichloroethene, Total	<20	ug/kg	2/6/98	
1,2-Dichloropropane	<20	ug/kg	2/6/98	
cis-1,3-Dichloropropene	<20	ug/kg	2/6/98	
trans-1,3-Dichloropropene	<20	ug/kg	2/6/98	
Ethyl benzene	<20	ug/kg	2/6/98	
2-Hexanone	<40	ug/kg	2/6/98	
Methylene chloride	<40	ug/kg	2/6/98	(11)

(11) This result has been blank corrected.

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

4-Methyl-2-pentanone (MIBK)	<40	ug/kg	2/6/98	
Styrene	<20	ug/kg	2/6/98	
1,1,2,2-Tetrachloroethane	<20	ug/kg	2/6/98	
Tetrachloroethene	110	ug/kg	2/6/98	(11)

(11) This result has been blank corrected.

Toluene	<20	ug/kg	2/6/98	
1,1,1-Trichloroethane	<20	ug/kg	2/6/98	
1,1,2-Trichloroethane	<20	ug/kg	2/6/98	
Trichloroethene	<20	ug/kg	2/6/98	
Vinyl chloride	<20	ug/kg	2/6/98	
Xylenes (Total)	<20	ug/kg	2/6/98	

Sample ID: LUC-A3NWALL 2/98

Source: Lucas
Sample Matrix: SHW,24HR

LSL Sample ID: 9800634-002
Date Sampled: 2/5/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	260	ug/kg	2/6/98	
Benzene	<20	ug/kg	2/6/98	
Bromodichloromethane	<20	ug/kg	2/6/98	
Bromoform	<20	ug/kg	2/6/98	
Bromomethane	<20	ug/kg	2/6/98	
2-Butanone (MEK)	<40	ug/kg	2/6/98	
Carbon disulfide	<20	ug/kg	2/6/98	
Carbon tetrachloride	<20	ug/kg	2/6/98	
Chlorobenzene	<20	ug/kg	2/6/98	
Chloroethane	<20	ug/kg	2/6/98	
Chloroform	<20	ug/kg	2/6/98	
Chloromethane	<20	ug/kg	2/6/98	
Dibromochloromethane	<20	ug/kg	2/6/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
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Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

1,1-Dichloroethane	<20	ug/kg	2/6/98	
1,2-Dichloroethane	<20	ug/kg	2/6/98	
1,1-Dichloroethene	<20	ug/kg	2/6/98	
1,2-Dichloroethene, Total	<20	ug/kg	2/6/98	
1,2-Dichloropropane	<20	ug/kg	2/6/98	
cis-1,3-Dichloropropene	<20	ug/kg	2/6/98	
trans-1,3-Dichloropropene	<20	ug/kg	2/6/98	
Ethyl benzene	<20	ug/kg	2/6/98	
2-Hexanone	<40	ug/kg	2/6/98	
Methylene chloride	<40	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<40	ug/kg	2/6/98	
Styrene	<20	ug/kg	2/6/98	
1,1,2,2-Tetrachloroethane	<20	ug/kg	2/6/98	
Tetrachloroethene	<20	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
Toluene	<20	ug/kg	2/6/98	
1,1,1-Trichloroethane	<20	ug/kg	2/6/98	
1,1,2-Trichloroethane	<20	ug/kg	2/6/98	
Trichloroethene	<20	ug/kg	2/6/98	
Vinyl chloride	<20	ug/kg	2/6/98	
Xylenes (Total)	<20	ug/kg	2/6/98	

Sample ID: LUC-A3SWALL 2/98

Source: Lucas
Sample Matrix: SHW,24HR

LSL Sample ID: 9800634-003
Date Sampled: 2/5/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<40	ug/kg	2/6/98	
Benzene	<20	ug/kg	2/6/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
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Attn: Mr. Jim Brown
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Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

Bromodichloromethane	<20	ug/kg	2/6/98	
Bromoform	<20	ug/kg	2/6/98	
Bromomethane	<20	ug/kg	2/6/98	
2-Butanone (MEK)	<40	ug/kg	2/6/98	
Carbon disulfide	<20	ug/kg	2/6/98	
Carbon tetrachloride	<20	ug/kg	2/6/98	
Chlorobenzene	<20	ug/kg	2/6/98	
Chloroethane	<20	ug/kg	2/6/98	
Chloroform	<20	ug/kg	2/6/98	
Chloromethane	<20	ug/kg	2/6/98	
Dibromochloromethane	<20	ug/kg	2/6/98	
1,1-Dichloroethane	<20	ug/kg	2/6/98	
1,2-Dichloroethane	<20	ug/kg	2/6/98	
1,1-Dichloroethene	<20	ug/kg	2/6/98	
1,2-Dichloroethene, Total	<20	ug/kg	2/6/98	
1,2-Dichloropropane	<20	ug/kg	2/6/98	
cis-1,3-Dichloropropene	<20	ug/kg	2/6/98	
trans-1,3-Dichloropropene	<20	ug/kg	2/6/98	
Ethyl benzene	<20	ug/kg	2/6/98	
2-Hexanone	<40	ug/kg	2/6/98	
Methylene chloride	<40	ug/kg	2/6/98	(11)

(11) This result has been blank corrected.

4-Methyl-2-pentanone (MIBK)	<40	ug/kg	2/6/98	
Styrene	<20	ug/kg	2/6/98	
1,1,2,2-Tetrachloroethane	<20	ug/kg	2/6/98	
Tetrachloroethene	<20	ug/kg	2/6/98	
Toluene	<20	ug/kg	2/6/98	
1,1,1-Trichloroethane	<20	ug/kg	2/6/98	
1,1,2-Trichloroethane	<20	ug/kg	2/6/98	
Trichloroethene	<20	ug/kg	2/6/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
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Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

Vinyl chloride	<20	ug/kg	2/6/98	
Xylenes (Total)	<20	ug/kg	2/6/98	(06)

(06) Elevated detection limit due to matrix interference.

Sample ID: LUC-A3EWALL 2/98

Source: Lucas
Sample Matrix: SHW,24HR

LSL Sample ID: 9800634-004
Date Sampled: 2/5/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/6/98	
Benzene	<5	ug/kg	2/6/98	
Bromodichloromethane	<5	ug/kg	2/6/98	
Bromoform	<5	ug/kg	2/6/98	
Bromomethane	<5	ug/kg	2/6/98	
2-Butanone (MEK)	<10	ug/kg	2/6/98	
Carbon disulfide	<5	ug/kg	2/6/98	
Carbon tetrachloride	<5	ug/kg	2/6/98	
Chlorobenzene	<5	ug/kg	2/6/98	
Chloroethane	<5	ug/kg	2/6/98	
Chloroform	<5	ug/kg	2/6/98	
Chloromethane	<5	ug/kg	2/6/98	
Dibromochloromethane	<5	ug/kg	2/6/98	
1,1-Dichloroethane	<5	ug/kg	2/6/98	
1,2-Dichloroethane	<5	ug/kg	2/6/98	
1,1-Dichloroethene	<5	ug/kg	2/6/98	
1,2-Dichloroethene, Total	<5	ug/kg	2/6/98	
1,2-Dichloropropane	<5	ug/kg	2/6/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/6/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/6/98	
Ethyl benzene	<5	ug/kg	2/6/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
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FAX: (315) 445-2543

Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

2-Hexanone	<10	ug/kg	2/6/98	
Methylene chloride	<10	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/6/98	
Styrene	<5	ug/kg	2/6/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/6/98	
Tetrachloroethene	<5	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
Toluene	<5	ug/kg	2/6/98	
1,1,1-Trichloroethane	<5	ug/kg	2/6/98	
1,1,2-Trichloroethane	<5	ug/kg	2/6/98	
Trichloroethene	<5	ug/kg	2/6/98	
Vinyl chloride	<5	ug/kg	2/6/98	
Xylenes (Total)	<5	ug/kg	2/6/98	

Sample ID: LUC-A3BOTTOM 2/98

Source: Lucas
Sample Matrix: SHW,24HR

LSL Sample ID: 9800634-005
Date Sampled: 2/5/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/6/98	
Benzene	<5	ug/kg	2/6/98	
Bromodichloromethane	<5	ug/kg	2/6/98	
Bromoform	<5	ug/kg	2/6/98	
Bromomethane	<5	ug/kg	2/6/98	
2-Butanone (MEK)	<10	ug/kg	2/6/98	
Carbon disulfide	<5	ug/kg	2/6/98	
Carbon tetrachloride	<5	ug/kg	2/6/98	
Chlorobenzene	<5	ug/kg	2/6/98	
Chloroethane	<5	ug/kg	2/6/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization:

LSL Project No.: 9800634
Report Date: 2/6/98

Chloroform	<5	ug/kg	2/6/98	
Chloromethane	<5	ug/kg	2/6/98	
Dibromochloromethane	<5	ug/kg	2/6/98	
1,1-Dichloroethane	<5	ug/kg	2/6/98	
1,2-Dichloroethane	<5	ug/kg	2/6/98	
1,1-Dichloroethene	<5	ug/kg	2/6/98	
1,2-Dichloroethene, Total	<5	ug/kg	2/6/98	
1,2-Dichloropropane	<5	ug/kg	2/6/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/6/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/6/98	
Ethyl benzene	<5	ug/kg	2/6/98	
2-Hexanone	<10	ug/kg	2/6/98	
Methylene chloride	<10	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/6/98	
Styrene	<5	ug/kg	2/6/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/6/98	
Tetrachloroethene	<5	ug/kg	2/6/98	(11)
(11) This result has been blank corrected.				
Toluene	<5	ug/kg	2/6/98	
1,1,1-Trichloroethane	<5	ug/kg	2/6/98	
1,1,2-Trichloroethane	<5	ug/kg	2/6/98	
Trichloroethene	<5	ug/kg	2/6/98	
Vinyl chloride	<5	ug/kg	2/6/98	
Xylenes (Total)	<5	ug/kg	2/6/98	

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

Client: ERM-NORTHEAST Phone # 315/445-2554

Address: 5788 WIDEWATERS PARKWAY
DEWITT, NY 13214

Telefax #

Authorization:

Contact Person: TIM BROWN

LSL Project #: 100 980034

Client's Site I.D.: LUCAS

Client's Project I.D.: 939.008

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
001	(3) LUC-A3WWALL2/98	2/5/98	1535	✓		SOIL	N/A	1	4oz.	EPA 8260 VOC	
002	(2) LUC-A3NWALL2/98	↓	1540	✓		SOIL	N/A	1	4oz.	↓	
003	(5) LUC-A3SWALL2/98		1545	✓		SOIL	N/A	1	4oz.		
004	(4) LUC-A3EWALL2/98		1530	✓		SOIL	N/A	1	4oz.		
005	(1) LUC-A3BOTTOM2/98	↓	1550	✓		SOIL	N/A	1	4oz.	↓	

Notes and Hazard identifications:

24 hr TAT

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: BRIAN NEUMANN Received By: Jan B.	8:00AM	2/6/98
Relinquished By: Jan B. Received By:		
Relinquished By: Received for Lab By: N. Dralot	2/6/98	0845

Shipment Method: Samples Received Intact: (Y) N

SAMPLE ANALYSIS REPORT

9800721
LSL Project No.

Reviewed By

02/12/98
Date

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-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

Sample ID: LUC-A1WWALL (2/98)

Source: Lucas, Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800721-001
Date Sampled: 2/11/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/11/98	
Benzene	<5	ug/kg	2/11/98	
Bromodichloromethane	<5	ug/kg	2/11/98	
Bromoform	<5	ug/kg	2/11/98	
Bromomethane	<5	ug/kg	2/11/98	
2-Butanone (MEK)	<10	ug/kg	2/11/98	
Carbon disulfide	<5	ug/kg	2/11/98	
Carbon tetrachloride	<5	ug/kg	2/11/98	
Chlorobenzene	<5	ug/kg	2/11/98	
Chloroethane	<5	ug/kg	2/11/98	
Chloroform	<5	ug/kg	2/11/98	
Chloromethane	<5	ug/kg	2/11/98	
Dibromochloromethane	<5	ug/kg	2/11/98	
1,1-Dichloroethane	<5	ug/kg	2/11/98	
1,2-Dichloroethane	<5	ug/kg	2/11/98	
1,1-Dichloroethene	<5	ug/kg	2/11/98	
1,2-Dichloroethene, Total	<5	ug/kg	2/11/98	
1,2-Dichloropropane	<5	ug/kg	2/11/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/11/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/11/98	
Ethyl benzene	<5	ug/kg	2/11/98	
2-Hexanone	<10	ug/kg	2/11/98	
Methylene chloride	<10	ug/kg	2/11/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
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Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

Styrene	<5	ug/kg	2/11/98
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/11/98
Tetrachloroethene	27	ug/kg	2/11/98
Toluene	<5	ug/kg	2/11/98
1,1,1-Trichloroethane	11	ug/kg	2/11/98
1,1,2-Trichloroethane	<5	ug/kg	2/11/98
Trichloroethene	30	ug/kg	2/11/98
Vinyl chloride	<5	ug/kg	2/11/98
Xylenes (Total)	<5	ug/kg	2/11/98
trans-1,2-Dichloroethene	<5	ug/kg	2/11/98

Sample ID: LUC-A1SWALL (2/98)

Source: Lucas, Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800721-002
Date Sampled: 2/11/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/11/98	
Benzene	<5	ug/kg	2/11/98	
Bromodichloromethane	<5	ug/kg	2/11/98	
Bromoform	<5	ug/kg	2/11/98	
Bromomethane	<5	ug/kg	2/11/98	
2-Butanone (MEK)	<10	ug/kg	2/11/98	
Carbon disulfide	<5	ug/kg	2/11/98	
Carbon tetrachloride	<5	ug/kg	2/11/98	
Chlorobenzene	<5	ug/kg	2/11/98	
Chloroethane	<5	ug/kg	2/11/98	
Chloroform	<5	ug/kg	2/11/98	
Chloromethane	<5	ug/kg	2/11/98	
Dibromochloromethane	<5	ug/kg	2/11/98	
1,1-Dichloroethane	<5	ug/kg	2/11/98	
1,2-Dichloroethane	<5	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
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Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

1,1-Dichloroethene	<5	ug/kg	2/11/98	
1,2-Dichloroethene, Total	6.0	ug/kg	2/11/98	
1,2-Dichloropropane	<5	ug/kg	2/11/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/11/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/11/98	
Ethyl benzene	<5	ug/kg	2/11/98	
2-Hexanone	<10	ug/kg	2/11/98	
Methylene chloride	<10	ug/kg	2/11/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/11/98	
Styrene	<5	ug/kg	2/11/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/11/98	
Tetrachloroethene	31	ug/kg	2/11/98	
Toluene	<5	ug/kg	2/11/98	
1,1,1-Trichloroethane	34	ug/kg	2/11/98	
1,1,2-Trichloroethane	<5	ug/kg	2/11/98	
Trichloroethene	19	ug/kg	2/11/98	
Vinyl chloride	<5	ug/kg	2/11/98	
Xylenes (Total)	<5	ug/kg	2/11/98	
trans-1,2-Dichloroethene	<5	ug/kg	2/11/98	

Sample ID: LUC-A1FLOOR (2/98)

Source: Lucas, Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800721-003
Date Sampled: 2/11/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/11/98	
Benzene	<5	ug/kg	2/11/98	
Bromodichloromethane	<5	ug/kg	2/11/98	
Bromoform	<5	ug/kg	2/11/98	
Bromomethane	<5	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

2-Butanone (MEK)	<10	ug/kg	2/11/98	
Carbon disulfide	<5	ug/kg	2/11/98	
Carbon tetrachloride	<5	ug/kg	2/11/98	
Chlorobenzene	<5	ug/kg	2/11/98	
Chloroethane	<5	ug/kg	2/11/98	
Chloroform	<5	ug/kg	2/11/98	
Chloromethane	<5	ug/kg	2/11/98	
Dibromochloromethane	<5	ug/kg	2/11/98	
1,1-Dichloroethane	18	ug/kg	2/11/98	
1,2-Dichloroethane	<5	ug/kg	2/11/98	
1,1-Dichloroethene	<5	ug/kg	2/11/98	
1,2-Dichloroethene, Total	68	ug/kg	2/11/98	
1,2-Dichloropropane	<5	ug/kg	2/11/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/11/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/11/98	
Ethyl benzene	<5	ug/kg	2/11/98	
2-Hexanone	<10	ug/kg	2/11/98	
Methylene chloride	<10	ug/kg	2/11/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/11/98	
Styrene	<5	ug/kg	2/11/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/11/98	
Tetrachloroethene	150	ug/kg	2/11/98	
Toluene	<5	ug/kg	2/11/98	
1,1,1-Trichloroethane	94	ug/kg	2/11/98	
1,1,2-Trichloroethane	<5	ug/kg	2/11/98	
Trichloroethene	400	ug/kg	2/11/98	
Vinyl chloride	<5	ug/kg	2/11/98	
Xylenes (Total)	<5	ug/kg	2/11/98	
trans-1,2-Dichloroethene	<5	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

Sample ID: LUC-A1EWALL (2/98)

Source: Lucas, Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800721-004
Date Sampled: 2/11/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/11/98	
Benzene	<5	ug/kg	2/11/98	
Bromodichloromethane	<5	ug/kg	2/11/98	
Bromoform	<5	ug/kg	2/11/98	
Bromomethane	<5	ug/kg	2/11/98	
2-Butanone (MEK)	<10	ug/kg	2/11/98	
Carbon disulfide	<5	ug/kg	2/11/98	
Carbon tetrachloride	<5	ug/kg	2/11/98	
Chlorobenzene	<5	ug/kg	2/11/98	
Chloroethane	<5	ug/kg	2/11/98	
Chloroform	<5	ug/kg	2/11/98	
Chloromethane	<5	ug/kg	2/11/98	
Dibromochloromethane	<5	ug/kg	2/11/98	
1,1-Dichloroethane	<5	ug/kg	2/11/98	
1,2-Dichloroethane	<5	ug/kg	2/11/98	
1,1-Dichloroethene	<5	ug/kg	2/11/98	
1,2-Dichloroethene, Total	9.8	ug/kg	2/11/98	
1,2-Dichloropropane	<5	ug/kg	2/11/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/11/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/11/98	
Ethyl benzene	<5	ug/kg	2/11/98	
2-Hexanone	<10	ug/kg	2/11/98	
Methylene chloride	11	ug/kg	2/11/98	(52)
(52) This result has been blank corrected. Laboratory contamination is suspected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

Styrene	<5	ug/kg	2/11/98
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/11/98
Tetrachloroethene	55	ug/kg	2/11/98
Toluene	<5	ug/kg	2/11/98
1,1,1-Trichloroethane	25	ug/kg	2/11/98
1,1,2-Trichloroethane	<5	ug/kg	2/11/98
Trichloroethene	51	ug/kg	2/11/98
Vinyl chloride	<5	ug/kg	2/11/98
Xylenes (Total)	<5	ug/kg	2/11/98
trans-1,2-Dichloroethene	<5	ug/kg	2/11/98

Sample ID: LUC-A1NWALL (2/98)

Source: Lucas, Utica, NY
Sample Matrix: SHW,24HR

LSL Sample ID: 9800721-005
Date Sampled: 2/11/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	2/11/98	
Benzene	<5	ug/kg	2/11/98	
Bromodichloromethane	<5	ug/kg	2/11/98	
Bromoform	<5	ug/kg	2/11/98	
Bromomethane	<5	ug/kg	2/11/98	
2-Butanone (MEK)	<10	ug/kg	2/11/98	
Carbon disulfide	<5	ug/kg	2/11/98	
Carbon tetrachloride	<5	ug/kg	2/11/98	
Chlorobenzene	<5	ug/kg	2/11/98	
Chloroethane	<5	ug/kg	2/11/98	
Chloroform	<5	ug/kg	2/11/98	
Chloromethane	<5	ug/kg	2/11/98	
Dibromochloromethane	<5	ug/kg	2/11/98	
1,1-Dichloroethane	16	ug/kg	2/11/98	
1,2-Dichloroethane	<5	ug/kg	2/11/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.008
Authorization: 939.008

LSL Project No.: 9800721
Report Date: 2/12/98

1,1-Dichloroethene	<5	ug/kg	2/11/98	
1,2-Dichloroethene, Total	300	ug/kg	2/11/98	
1,2-Dichloropropane	<5	ug/kg	2/11/98	
cis-1,3-Dichloropropene	<5	ug/kg	2/11/98	
trans-1,3-Dichloropropene	<5	ug/kg	2/11/98	
Ethyl benzene	<5	ug/kg	2/11/98	
2-Hexanone	<10	ug/kg	2/11/98	
Methylene chloride	<10	ug/kg	2/11/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	2/11/98	
Styrene	<5	ug/kg	2/11/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	2/11/98	
Tetrachloroethene	64	ug/kg	2/11/98	
Toluene	<5	ug/kg	2/11/98	
1,1,1-Trichloroethane	45	ug/kg	2/11/98	
1,1,2-Trichloroethane	<5	ug/kg	2/11/98	
Trichloroethene	630	ug/kg	2/11/98	
Vinyl chloride	<5	ug/kg	2/11/98	
Xylenes (Total)	<5	ug/kg	2/11/98	
trans-1,2-Dichloroethene	<5	ug/kg	2/11/98	

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5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

Client: ERM Phone # 445-2554
Address: 5788 WIDEWATERS PKWY Telefax # 445 2543
Authorization: 939.008

Contact Person: JIM BROWN

LSL Project #: 9800721
Client's Site I.D.: LUCAS UTICA, N.Y.
Client's Project I.D.: 939.008

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
001	LUC-A1WWALL(2/98)	2/11/98	1550	✓		SOIL	ICE	1	4oz JAR	EPA 8260 VOC *	
002	LUC-A1SWALL(2/98)		1555					1			
003	LUC-A1 FLOOR (2/98)		1600					1			
004	LUC-A1EWALL(2/98)		1605					1			
005	LUC-A1NWALL(2/98)		1630					1			

Notes and Hazard identifications:
24 HR TURN AROUND TIME
Sampling date should be 2/10/98 as per Jim Brown
2/11/98 LB
* ADD TCLP's - 1,2-DCE TO 8260 AS PER JIM BROWN
ADD 2/11/98 DJP

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: ~~JEFF~~ Jeff Story Received By:	2/11/98	16.30
Relinquished By: Received By:		
Relinquished By: Jeff Story Received for Lab By: A Becherer	2/11/98	~~1848~~ 0802

Shipment Method: ERM Samples Received Intact: Y N

Additional Investigation Analytical

SAMPLE ANALYSIS REPORT

980162
LSL Project No.

Reviewed By

3/16/98
Date

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- - LABORATORY ANALYSIS REPORT - -

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-RSB-6 (3/98)

Project No.: 939.009
Source: Lucas, Utica, NY
LSL Sample ID: 9801162-001
Sample Matrix: SHW

Authorization: 939.009
LSL Project No.: 9801162
Date Sampled: 3/4/98
Report Date: 3/16/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	3/6/98	
Benzene	<5	ug/kg	3/6/98	
Bromodichloromethane	<5	ug/kg	3/6/98	
Bromoform	<5	ug/kg	3/6/98	
Bromomethane	<5	ug/kg	3/6/98	
2-Butanone (MEK)	<10	ug/kg	3/6/98	
Carbon disulfide	<5	ug/kg	3/6/98	
Carbon tetrachloride	<5	ug/kg	3/6/98	
Chlorobenzene	<5	ug/kg	3/6/98	
Chloroethane	<5	ug/kg	3/6/98	
Chloroform	<5	ug/kg	3/6/98	
Chloromethane	<5	ug/kg	3/6/98	
Dibromochloromethane	<5	ug/kg	3/6/98	
1,1-Dichloroethane	<5	ug/kg	3/6/98	
1,2-Dichloroethane	<5	ug/kg	3/6/98	
1,1-Dichloroethene	<5	ug/kg	3/6/98	
1,2-Dichloroethene, Total	14	ug/kg	3/6/98	
1,2-Dichloropropane	<5	ug/kg	3/6/98	
cis-1,3-Dichloropropene	<5	ug/kg	3/6/98	
trans-1,3-Dichloropropene	<5	ug/kg	3/6/98	
Ethyl benzene	<5	ug/kg	3/6/98	
2-Hexanone	<10	ug/kg	3/6/98	
Methylene chloride	<10	ug/kg	3/6/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	3/6/98	
Styrene	<5	ug/kg	3/6/98	

Life Science Laboratories, Inc.

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NYS DOH ELAP No. 10248

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-RSB-6 (3/98)

Project No.: 939.009
Source: Lucas, Utica, NY
LSL Sample ID: 9801162-001
Sample Matrix: SHW

Authorization: 939.009
LSL Project No.: 9801162
Date Sampled: 3/4/98
Report Date: 3/16/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
1,1,2,2-Tetrachloroethane	<5	ug/kg	3/6/98	
Tetrachloroethene	<5	ug/kg	3/6/98	
Toluene	<5	ug/kg	3/6/98	
1,1,1-Trichloroethane	<5	ug/kg	3/6/98	
1,1,2-Trichloroethane	<5	ug/kg	3/6/98	
Trichloroethene	11	ug/kg	3/6/98	
Vinyl chloride	<5	ug/kg	3/6/98	
Xylenes (Total)	<5	ug/kg	3/6/98	

Life Science Laboratories, Inc.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Telefax: (315) 445-1301
NYS DOH ELAP No. 10248

LSL Environmental Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

Client: ERM Phone # 445-2554

Address: 5788 WIDEWATERS PKWY Telefax # 445-2543

DEWITT N.Y.

Authorization: 939.009

Contact Person: JIM BROWN

LSL Project #: 9801162

Client's Site I.D.: LUCAS UTICA, N.Y.

Client's Project I.D.: 939.009

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
0901	LUC-RSB-6 (3/4/98)	3/4/98	1335	✓		SOIL	ICE	1	4oz JAR	EPA 8260 (VOC)	

Notes and Hazard identifications:

Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: T. Story Received By:	3/4/98	1335
Relinquished By: Received By:		
Relinquished By: T. Story Received for Lab By:	3/5/98	0900

Shipment Method: ERM Samples Received Intact: Y N

SAMPLE ANALYSIS REPORT

9801086
LSL Project No.

QDO
Reviewed By

03/06/98
Date

LIFE SCIENCE LABORATORIES, INC.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Fax: (315) 445-1301

- - LABORATORY ANALYSIS REPORT - -

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-RSB-2 (3/98)

Project No.: 939.009
Source: Lucas, Utica, NY
LSL Sample ID: 9801086-001
Sample Matrix: SHW

Authorization:
LSL Project No.: 9801086
Date Sampled: 3/2/98
Report Date: 3/6/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
EPA 8260B TCL Volatiles				
Acetone	<20	ug/kg	3/4/98	
Benzene	<10	ug/kg	3/4/98	
Bromodichloromethane	<10	ug/kg	3/4/98	
Bromoform	<10	ug/kg	3/4/98	
Bromomethane	<10	ug/kg	3/4/98	
2-Butanone (MEK)	<20	ug/kg	3/4/98	
Carbon disulfide	<10	ug/kg	3/4/98	
Carbon tetrachloride	<10	ug/kg	3/4/98	
Chlorobenzene	<10	ug/kg	3/4/98	
Chloroethane	<10	ug/kg	3/4/98	
Chloroform	<10	ug/kg	3/4/98	
Chloromethane	<10	ug/kg	3/4/98	
Dibromochloromethane	<10	ug/kg	3/4/98	
1,1-Dichloroethane	14	ug/kg	3/4/98	
1,2-Dichloroethane	<10	ug/kg	3/4/98	
1,1-Dichloroethene	<10	ug/kg	3/4/98	
1,2-Dichloroethene, Total	74	ug/kg	3/4/98	
1,2-Dichloropropane	<10	ug/kg	3/4/98	
cis-1,3-Dichloropropene	<10	ug/kg	3/4/98	
trans-1,3-Dichloropropene	<10	ug/kg	3/4/98	
Ethyl benzene	<10	ug/kg	3/4/98	
2-Hexanone	<20	ug/kg	3/4/98	
Methylene chloride	<20	ug/kg	3/4/98	
4-Methyl-2-pentanone (MIBK)	<20	ug/kg	3/4/98	
Styrene	<10	ug/kg	3/4/98	
1,1,2,2-Tetrachloroethane	<10	ug/kg	3/4/98	

-- LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Jim Brown
Phone: (315) 445-2554
FAX: (315) 445-2543

Sample ID: LUC-RSB-2 (3/98)

Project No.: 939.009
Source: Lucas, Utica, NY
LSL Sample ID: 9801086-001
Sample Matrix: SHW

Authorization:
LSL Project No.: 9801086
Date Sampled: 3/2/98
Report Date: 3/6/98

Analytical Method Parameter(s)	Results	Units	Analysis Date	Comment
Tetrachloroethene	<10	ug/kg	3/4/98	
Toluene	<10	ug/kg	3/4/98	
1,1,1-Trichloroethane	11	ug/kg	3/4/98	
1,1,2-Trichloroethane	<10	ug/kg	3/4/98	
Trichloroethene	58	ug/kg	3/4/98	
Vinyl chloride	<10	ug/kg	3/4/98	
Xylenes (Total)	<10	ug/kg	3/4/98	

Life Science Laboratories, Inc.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Telefax: (315) 445-1301
NYS DOH ELAP No. 10248

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

Client: ERM Phone # 445-2554
Address: 5788 WIDEWATERS PKWY Telefax # 445-2543
DeWITT, NY, 13214
Authorization:

Contact Person: JIM BROWN

LSL Project #: 9801086

Client's Site I.D.: LUCAS UTICA, N.Y.

Client's Project I.D.: 939.009

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv. Check
~~Jeff Story~~	LUC-RSB-1(3/98)	3-2-98	11:25	✓		SOIL	COOL	1	4 oz JAR	EPA 8260 VOC	
COOL	LUC-RSB-2(3/98)	3-2-98	12:20	✓		SOIL	COOL	1	4 oz JAR	EPA 8260 VOC	

Notes and Hazard identifications:

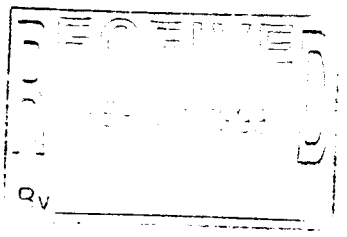
Custody Transfers

	Date	Time
Containers Sent By: Date:		
Containers Received by:		
Sampled By: Jeff Story Received By:	3/2/98	12:20
Relinquished By: Received By:		
Relinquished By: Jeff Story Received for Lab By: J. Bechtel	3/3/98	09:30

Shipment Method: ERM Samples Received Intact: (Y) N

LSL

Revised
Laboratory Analysis Report



LSL Project Number: 9805595

09/15/97

Reviewed By **Date**

Life Science Laboratories, Inc.

5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Telefax: (315) 445-1301

NYS DOH ELAP No. 10248

-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Sean Pepling
Phone: (315) 445-2554
FAX: (315) 445-2543

LSL Project No.: 9805595
Project No.: 939.010
Revised Report Date: 9/18/98
Authorization: 939.010
Original Report Date: 9/16/98

Sample ID: LUC-AZA-WWALL090298

Source: Lucas, Utica
LSL Sample ID: 9805595-001
Sample Matrix: SHW
Date Sampled: 9/2/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
Benzene	<5	ug/kg	9/9/98	
Bromodichloromethane	<5	ug/kg	9/9/98	
Bromoform	<5	ug/kg	9/9/98	
Bromomethane	<5	ug/kg	9/9/98	
2-Butanone (MEK)	<10	ug/kg	9/9/98	
Carbon disulfide	<5	ug/kg	9/9/98	
Carbon tetrachloride	<5	ug/kg	9/9/98	
Chlorobenzene	<5	ug/kg	9/9/98	
Chloroethane	<5	ug/kg	9/9/98	
Chloroform	<5	ug/kg	9/9/98	
Chloromethane	<5	ug/kg	9/9/98	
Dibromochloromethane	<5	ug/kg	9/9/98	
1,1-Dichloroethane	<5	ug/kg	9/9/98	
1,2-Dichloroethane	<5	ug/kg	9/9/98	
1,1-Dichloroethene	<5	ug/kg	9/9/98	
cis-1,2-Dichloroethene	13	ug/l	9/9/98	
trans-1,2-Dichloroethene	<5	ug/l	9/9/98	
1,2-Dichloropropane	<5	ug/kg	9/9/98	
cis-1,3-Dichloropropene	<5	ug/kg	9/9/98	
trans-1,3-Dichloropropene	<5	ug/kg	9/9/98	
Ethyl benzene	<5	ug/kg	9/9/98	
2-Hexanone	<10	ug/kg	9/9/98	
Methylene chloride	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	9/9/98	
Styrene	<5	ug/kg	9/9/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	9/9/98	

Life Science Laboratories, Inc.

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NYS DOH ELAP No. 10248

- - REVISED LABORATORY ANALYSIS REPORT - -

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Sean Pepling
Phone: (315) 445-2554
FAX: (315) 445-2543

LSL Project No.: 9805595
Project No.: 939.010
Revised Report Date: 9/18/98
Authorization: 939.010
Original Report Date: 9/16/98

Tetrachloroethene	<5	ug/kg	9/9/98
Toluene	<5	ug/kg	9/9/98
1,1,1-Trichloroethane	<5	ug/kg	9/9/98
1,1,2-Trichloroethane	<5	ug/kg	9/9/98
Trichloroethene	19	ug/kg	9/9/98
Vinyl chloride	<5	ug/kg	9/9/98
Xylenes (Total)	<5	ug/kg	9/9/98

Sample ID: LUC-AZA-SWALL090298

Source: Lucas, Utica
LSL Sample ID: 9805595-002
Sample Matrix: SHW
Date Sampled: 9/2/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	9/9/98	
Benzene	<5	ug/kg	9/9/98	
Bromodichloromethane	<5	ug/kg	9/9/98	
Bromoform	<5	ug/kg	9/9/98	
Bromomethane	<5	ug/kg	9/9/98	
2-Butanone (MEK)	<10	ug/kg	9/9/98	
Carbon disulfide	<5	ug/kg	9/9/98	
Carbon tetrachloride	<5	ug/kg	9/9/98	
Chlorobenzene	<5	ug/kg	9/9/98	
Chloroethane	<5	ug/kg	9/9/98	
Chloroform	<5	ug/kg	9/9/98	
Chloromethane	<5	ug/kg	9/9/98	
Dibromochloromethane	<5	ug/kg	9/9/98	
1,1-Dichloroethane	5.3	ug/kg	9/9/98	
1,2-Dichloroethane	<5	ug/kg	9/9/98	
1,1-Dichloroethene	<5	ug/kg	9/9/98	
cis-1,2-Dichloroethene	81	ug/l	9/9/98	
trans-1,2-Dichloroethene	<5	ug/l	9/9/98	
1,2-Dichloropropane	<5	ug/kg	9/9/98	
cis-1,3-Dichloropropene	<5	ug/kg	9/9/98	
trans-1,3-Dichloropropene	<5	ug/kg	9/9/98	

Life Science Laboratories, Inc.
5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Telefax: (315) 445-1301
NYS DOH ELAP No. 10248

-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Sean Pepling
Phone: (315) 445-2554
FAX: (315) 445-2543

LSL Project No.: 9805595
Project No.: 939.010 **Revised Report Date: 9/18/98**
Authorization: 939.010 **Original Report Date: 9/16/98**

Ethyl benzene	<5	ug/kg	9/9/98	
2-Hexanone	<10	ug/kg	9/9/98	
Methylene chloride	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	9/9/98	
Styrene	<5	ug/kg	9/9/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	9/9/98	
Tetrachloroethene	<5	ug/kg	9/9/98	
Toluene	<5	ug/kg	9/9/98	
1,1,1-Trichloroethane	8.9	ug/kg	9/9/98	
1,1,2-Trichloroethane	<5	ug/kg	9/9/98	
Trichloroethene	84	ug/kg	9/9/98	
Vinyl chloride	<5	ug/kg	9/9/98	
Xylenes (Total)	<5	ug/kg	9/9/98	

Sample ID: LUC-AZA-NWALL090298

Source: Lucas, Utica **LSL Sample ID: 9805595-003**
Sample Matrix: SHW **Date Sampled: 9/2/98**

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
Benzene	<5	ug/kg	9/9/98	
Bromodichloromethane	<5	ug/kg	9/9/98	
Bromoform	<5	ug/kg	9/9/98	
Bromomethane	<5	ug/kg	9/9/98	
2-Butanone (MEK)	<10	ug/kg	9/9/98	
Carbon disulfide	<5	ug/kg	9/9/98	
Carbon tetrachloride	<5	ug/kg	9/9/98	
Chlorobenzene	<5	ug/kg	9/9/98	
Chloroethane	<5	ug/kg	9/9/98	
Chloroform	<5	ug/kg	9/9/98	
Chloromethane	<5	ug/kg	9/9/98	
Dibromochloromethane	<5	ug/kg	9/9/98	

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-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Sean Pepling
Phone: (315) 445-2554
FAX: (315) 445-2543

Project No.: 939.010
Authorization: 939.010

LSL Project No.: 9805595
Revised Report Date: 9/18/98
Original Report Date: 9/16/98

1,1-Dichloroethane	<5	ug/kg	9/9/98	
1,2-Dichloroethane	<5	ug/kg	9/9/98	
1,1-Dichloroethene	<5	ug/kg	9/9/98	
cis-1,2-Dichloroethene	11	ug/l	9/9/98	
trans-1,2-Dichloroethene	<5	ug/l	9/9/98	
1,2-Dichloropropane	<5	ug/kg	9/9/98	
cis-1,3-Dichloropropene	<5	ug/kg	9/9/98	
trans-1,3-Dichloropropene	<5	ug/kg	9/9/98	
Ethyl benzene	<5	ug/kg	9/9/98	
2-Hexanone	<10	ug/kg	9/9/98	
Methylene chloride	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	9/9/98	
Styrene	<5	ug/kg	9/9/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	9/9/98	
Tetrachloroethene	<5	ug/kg	9/9/98	
Toluene	<5	ug/kg	9/9/98	
1,1,1-Trichloroethane	<5	ug/kg	9/9/98	
1,1,2-Trichloroethane	<5	ug/kg	9/9/98	
Trichloroethene	8.4	ug/kg	9/9/98	
Vinyl chloride	<5	ug/kg	9/9/98	
Xylenes (Total)	<5	ug/kg	9/9/98	

Sample ID: LUC-AZA-FLOOR090298

Source: Lucas, Utica
Sample Matrix: SHW

LSL Sample ID: 9805595-004
Date Sampled: 9/2/98

Analytical Method

Parameter(s)	*Results*	*Units*	*Analysis Date*	*Comment*
EPA 8260B TCL Volatiles				
Acetone	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
Benzene	<5	ug/kg	9/9/98	
Bromodichloromethane	<5	ug/kg	9/9/98	
Bromoform	<5	ug/kg	9/9/98	
Bromomethane	<5	ug/kg	9/9/98	

-- REVISED LABORATORY ANALYSIS REPORT --

ERM - Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Mr. Sean Pepling
Phone: (315) 445-2554
FAX: (315) 445-2543

LSL Project No.: 9805595
Project No.: 939.010 — Revised Report Date: 9/18/98
Authorization: 939.010 — Original Report Date: 9/16/98

2-Butanone (MEK)	<10	ug/kg	9/9/98	
Carbon disulfide	<5	ug/kg	9/9/98	
Carbon tetrachloride	<5	ug/kg	9/9/98	
Chlorobenzene	<5	ug/kg	9/9/98	
Chloroethane	<5	ug/kg	9/9/98	
Chloroform	<5	ug/kg	9/9/98	
Chloromethane	<5	ug/kg	9/9/98	
Dibromochloromethane	<5	ug/kg	9/9/98	
1,1-Dichloroethane	<5	ug/kg	9/9/98	
1,2-Dichloroethane	<5	ug/kg	9/9/98	
1,1-Dichloroethene	<5	ug/kg	9/9/98	
cis-1,3-Dichloropropene	<5	ug/kg	9/9/98	
trans-1,3-Dichloropropene	<5	ug/kg	9/9/98	
1,2-Dichloropropane	<5	ug/kg	9/9/98	
Ethyl benzene	<5	ug/kg	9/9/98	
2-Hexanone	<10	ug/kg	9/9/98	
Methylene chloride	<10	ug/kg	9/9/98	(11)
(11) This result has been blank corrected.				
4-Methyl-2-pentanone (MIBK)	<10	ug/kg	9/9/98	
Styrene	<5	ug/kg	9/9/98	
1,1,2,2-Tetrachloroethane	<5	ug/kg	9/9/98	
Tetrachloroethene	<5	ug/kg	9/9/98	
Toluene	<5	ug/kg	9/9/98	
1,1,1-Trichloroethane	<5	ug/kg	9/9/98	
1,1,2-Trichloroethane	<5	ug/kg	9/9/98	
Trichloroethene	24	ug/kg	9/9/98	
Vinyl chloride	<5	ug/kg	9/9/98	
Xylenes (Total)	<5	ug/kg	9/9/98	
cis-1,2-Dichloroethene	7.2	ug/l	9/9/98	
trans-1,2-Dichloroethene	<5	ug/l	9/9/98	

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LSL

...e Science ...oratories, ...

5854 Butternut Drive
East Syracuse, NY 13057
Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

Client: ERM Phone # 445-2554
Address: 5788 WIDEWATERS PKWY Telefax# 445-2543
DeWITT, N.Y. 13073
Contact Person: SEAN PERLING Authorization: 939.010

LSL Project #: 9805595
Client's Site I.D.: LUCAS UTICA, N.Y.
Client's Project I.D.: 939.010

Turnaround Time (Please circle one)
24 Hr 48 Hr 72 Hr 1 Week 2 Weeks 3 Weeks

Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. ~~Added~~	Containers #	Containers size/type	Analyses	Preserv. Check	LSL ID#
LUC-A2A-WWALL090298	9/2/98	11:30	✓		SOIL	ICE	1	JAR 1-4oz	EPA 8260		001
LUC-A2A-SWALL090298	↓	11:35	↓		↓	↓	↓	↓	↓		002
LUC-A2A-NWALL090298		11:50									003
LUC-A2A-FLOOR090298	↓	13:25	↓		↓	↓	↓	↓	↓		004

Notes and Hazard identifications:

Custody Transfers		Date	Time
Sampled By: Jeff Story	Received By:	9/2/98	1325
Relinquished By:	Received By:		
Relinquished By: Jeff Story	Received for Lab By: MBeckmann	9/2/98	1935
Shipment Method: ERM	Samples Received Intact: Y N	9/3/98	0850

Appendix D
CWM Approval Letter

CONFIRMATION LETTER

January 28, 1998

MR. JIM BESCA cc: Jim Brown
ERM ENVIROCLEAN NORTHEAST
175 FROEHLICH FARM BLVD
WOODBURY, NY 11797-2920

Re: Confirmation Number 4511101

Attention: MR. JIM BESCA

We are pleased to confirm CWM's approval of your waste material as described below. The attached profile for the waste materials was prepared by CWM based upon information provided by you. It is important that no changes be made to the profile without CWM's consent. If the profile meets with your approval, please call 1-800-843-3604 to schedule shipment of your waste materials.

CWM Profile Number:	CG9391 MDC
Approved Mgmt. Facility:	CWM MODEL CITY FACILITY or another CWM or CWM approved facility
Waste Name:	EXCAVATED SOIL
Disposal Method:	Subtitle C Landfill
Disposal Price:	- $144.00 per ton including transportation via roll-offs, liners, taxes and disposal - 17 ton minimum per load - $600.00 per roll-off drop off - $15.00 per day roll-off rental after 2 free days
Transportation Price:	- Included in disposal price
Demurrage:	- $85.00 demurrage per hour after the first free hour of loading time
Waste Approval Fees:	- Waived
Pricing Conditions:	- Incidental liquids in bulk loads = $800.00 per load
Profile Expiration Date:	1/27/00
Special Conditions:	- Waste profile sheet numbers must appear on manifests. - No demurrage will be paid by CWM Chemical Services, Inc., for delays at Model City for on-site acceptance procedures when

January 28. 1998

Re: Confirmation Number 4511101

generator/customer arranges their own transportation.
- Customers who require Certificates of Disposal should place the phrase "Certificate of Disposal Required" in Section 15 of the manifest.
- Special Land Disposal Notification and Certification Form must be properly executed and accompany each shipment of this waste.
- New York State Department of Environmental Conservation (NYSDEC) approved for 600 tons as an event.

Applicable state and local taxes are not included in these disposal prices. All wastes are priced as profiled, invoiced as actually received. Invoices shall be paid no later than thirty (30) days from the date of receipt. All terms are governed by the Agreement previously executed between our companies. The prices quoted above are subject to change by CWM upon thirty (30) days' prior written notice to you unless otherwise specifically provided or per the terms of our Agreement. If we have not previously concluded a Service Agreement with your company, one is enclosed for your convenience. Please sign and return it to us as soon as possible. Also, if 'Signature on File' does not appear on the signature line of the Waste Profile Sheet, please sign and return it before scheduling your material.

If you have any questions or would like to make changes to the profile, please contact your representative. Thank you for this opportunity to be of service.

Sheri Bienduga

SHERI BIENDUGA 630/218-1812

Chemical Waste Management, Inc

Date Printed 01/28/98

Chemical Waste Management, Inc.

GENERATOR'S WASTE PROFILE SHEET

Profile # MDC CG9391

) Check here if this is a Recertification LOCATION OF ORIGINAL CWM MOOSIC CITY FACILITY

GENERAL INFORMATION

1. Generator Name: LUCAS AEROSPACE
   Generator USEPA ID: NYD002244911
   Generator Address: 211 SEWARD AVE
   Billing Address: (_) Same
   ERM ENVIROCLEAN NORTHEAST
   175 PROMELICH FARM BLVD
   UTICA NY 13502-5749
   WOODBURY NY 11797-2920
3. Technical Contact/Phone: JOE BESCA 518/452-1429
4. Alternate Contact/Phone: JIM BROWN 315/445-2554
   Billing Contact/Phone: JUSTINE

PROPERTIES AND COMPOSITION

6. Process Generating Waste: REMOVAL OF VOC-IMPACTED SOILS-EPA WASTE CODES F001 AND F002.
7. Waste Name: EXCAVATED SOIL

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

8. Identify ALL USEPA listed and characteristic waste code numbers (D,P,K,P,U): F001 F002

State Waste Codes: Same as USEPA Codes

9. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to 0%

10A. pH: Range _____ or Not applicable (X) B. Strong Odor (_);describe _____

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range		Unit Description
SOIL	92 to	99	%
PPE, POLYSHEETING, DEBRIS	1 to	5	%
HALOGENATED (VOCS)	0 to	25	PPM
NON-HALOGENATED (VOCS)	0 to	15	PPM
	to		
	to		
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):		104.000000	

12. OTHER: PCBs if yes, concentration _ _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: ROLLOFF Other _____

15. ANTICIPATED ANNUAL VOLUME: 600 Units: TONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION

Sample Tracking Number: 4511101

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): _____

Date Sampled: _____ Sampler's Name/Company: _____

16b. Generator's Agent Supervising Sampling: _____ 17. (X) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile CG9391 (Signature) | DAVID W. WEIR, MGR. MANUF. SERVICES (Name and Title) | 1/15/98 (Date)

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REP #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	F001		X		X		D
2	F002		X		X		D
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil or debris? No: _ Yes, Soil: X Yes, Debris: _

22. Specific Gravity Range: _____ to _____

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional
Phenolics: _ None to _____ _____

24. Identify the waste color BROWN/BLACK , DOT physical state Solid ,

and physical appearance SOIL

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION

	TOTAL	
Beryllium as Be	_____	ppm
Potassium as K	_____	ppm
Sodium as Na	_____	ppm
Bromine as Br	_____	%
Chlorine as Cl	_____	%
Fluorine as F	_____	%
Sulfur as S	_____	%

26. RECLAMATION, FUELS or INCINERATION PARAMETERS
(Provide if information is available)

RANGE

A. Heat Value (Btu/lb): _____-_____

B. Water: _____

C. Viscosity (cps): _____@_____F _ 100 F _ 150 F

D. Ash: _____ %

E. Settleable solids: _____ %

F. Vapor Pressure @ STP (mm/Hg): _____

G. Is this waste a pumpable liquid? Yes _ No _

H. Can this waste be heated to improve flow? Yes _ No _

I. Is this waste soluble in water? Yes _ No _

J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE, SOLID, N.O.S

and Additional Description if required: (F001,F002)

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mat'l I.D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 10 Lb

E. Non-Bulk code 213 Bulk code 240

F. Special Provisions B54 ___ ___ ___ ___ ___

G. Labels Required CLASS 9 _____ _____ _____

28. SPECIAL HANDLING INFORMATION

_____

_____

_____

_____

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

_____

_____

_____

_____

_____

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni							134 mg/l		
Thallium as Tl							130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

12. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Profile #
MDC C09391

aC Constituent	Management Method
Solvent Constituent	Management Method
Carbon tetrachloride	D
Chlorobenzene	D
-Dichlorobenzene	D
Methylene chloride	D
Tetrachloroethylene	D
1,1,1-Trichloroethane	D
1,1,2-Trichloroethane	D
Trichloroethylene	D
Trichloromonofluoromethane	D
1,1,2-Trichloro-1,2,2-trifluoroethane	D

Appendix E

Backfill Material Source Letter

FRED BURROWS TRUCKING & EXCAVATING
5599 LOVERS LANE
ORISKANY, NY 13424
Phone: (315) 736-1971, 736-1444 Fax: (315) 736-3620

March 6, 1998

ERM Northeast
5788 Widewaters Parkway
Dewitt, NY 13214

Attn: Jim Brown

Re: LUCAS AEROSPACE FACILITY
Seward Ave. Utica, NY

Gentlemen:

With regard to the origin of materials delivered to the above noted facility, kindly be advised as follows:

2/2/98 - 2/5/98 180 cy of Sand Fill originated at the Burrows Pit, Route 69, Whitesboro, NY

2/6/98 - 2/11/98 89.46 ton of Crusher Run originated at Benchmark, NY, Oriskany Falls Plant

Be further advised that both types of materials listed above were delivered from a clean, virgin, non-contaminated source.

Very truly yours,

FRED BURROWS TRUCKING & EXCAVATING

By Frederick R. Burrows, Jr.
Partner

FRB:elc

Appendix F

Boring Logs

ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number RSB-1

BORING LOG

Project Name & Location: LUCAS AERO SPACE UTICA, N.Y.	Project Number: 939.009	Date & Time Started: 10945	Date & Time Completed: 11:30 3/2/98
Drilling Company: ERM	Foreman: J. STOREY	Sampler(s): J. STOREY	Sampler Hammer / Drop
Drilling Equipment: ESP	Method	Elevation & Datum	Completion Depth / Rock Depth
Bit Size(s): 1" Ø	Core Barrel(s)	Geologist(s)	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
	LOCATION:				SURFACE DESCRIPTION:	3'-4" EAST OF CSB-11 OVM BACKGROUND @ 0.0
0					↑ CONCRETE ↓	
1			2.9		BROWN SILT AND SAND, LITTLE GRAVEL MOIST TO WET	
2						
3		1	3.1			
4			8.9			
5					GRAY & BROWN SAND & GRAVEL LITTLE SILT MOIST	
6		0.85	4.5		USED THIS CORE SAMPLE TO OBTAINED SAMPLE FOR EPA 8260 VOC	EOB 6.0'
7					ID: LUC-RSB-1 (3/98) ↩	
8					SAMPLE NOT SUBMITTED FOR ANALYSIS	
9						
10						

Page ____ of ____ Signature: Jeff Story Date: 3/2/98

ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number: RSB-2

BORING LOG

Project Name & Location: LUCAS AEROSPACE	Project Number: 939.009	Date & Time Started: 3/2/98 11:35	
		Date & Time Completed: 1225	
Drilling Company: ERM	Foreman: JEFF STOREY	Sampler(s): J. STOREY	Sampler Hammer / Drop
Drilling Equipment: ESP	Method	Elevation & Datum	Completion Depth / Rock Depth
Bit Size(s): 1" Ø	Core Barrel(s)	Geologist(s)	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
	LOCATION:				SURFACE DESCRIPTION:	6'-8" EAST CSB-4 OVM BACKGROUND @ 0.0
0					CONCRETE	
1			2.2		BROWN SAND & GRAVEL	
					SOME SILT WET	
2			1.3			
3						
		1.34'	0.6			
4					BROWN SAND AND SILT	
		~~0~~	3.7		SOME GRAVEL WET	
5						
6		1.93'	7.3		USED THIS CORE SAMPLE TO	EOB 6.0'
					OBTAIN SAMPLE FOR EPA 8260 VOC	
7					ID. LUC-RSB-2 (3/98)	
8						
9						
10						

Page _____ of _____ Signature: Jeff Storey Date: 3/2/98

REV. 6/96

ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number RSB-3

BORING LOG

Project Name & Location: LUCAS AEROSPACE	Project Number: 939.009	Date & Time Started: 1340	Date & Time Completed: 1415 3/2/98
Drilling Company: ERM	Foreman: JEFF STOREY	Sampler(s): J. STOREY	Sampler Hammer / Drop
Drilling Equipment: ESP	Method	Elevation & Datum / Completion Depth / Rock Depth	
Bit Size(s): 1" ∅	Core Barrel(s)	Geologist(s)	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
	LOCATION:				SURFACE DESCRIPTION:	5-0" NORTH RSB-2
0					CONCRETE	
1			1.5		BR SAND & GRAVEL, SOME SILT	
					MOIST	
2						
3		0.8'	1.1			
4			3.2			
5			7.0		REFUSAL @ 5.18'	REFUSAL @ 5.18'
6						
7						
8						
9						
10						

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ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number: RSB-4

BORING LOG

Project Name & Location: LUCAS AEROSPACE	Project Number: 939.009	Date & Time Started: 2/3/98 14:30	Date & Time Completed: 14:40
Drilling Company: ERM	Foreman: JEFF STOREY	Sampler(s): J. STOREY	Sampler Hammer / Drop:
Drilling Equipment: ESP	Method:	Elevation & Datum:	Completion Depth / Rock Depth:
Bit Size(s): 1" ø	Core Barrel(s):	Geologist(s):	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
	LOCATION:				SURFACE DESCRIPTION:	7'-0" SOUTH RSB-2 3'-4" EAST EDGE OF AREA2
0					CRUSHER RUN FILL	
1			39.0		LIGHT GRAY SAND & GRAVEL HEAVY ODOR WET REFUSAL @ 1.2' BG	1.2' REFUSAL
2						
3						
4						
5						
6						
7						
8						
9						
10						

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Signature: Jeff Storey

Date: 3/2/98

ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number RSB-5

BORING LOG

Project Name & Location: LUCAS AEROSPACE	Project Number: 939-009	Date & Time Started: 2/3/98 1430	Date & Time Completed: 1530
Drilling Company: ERM JEFF STOREY	Foreman	Sampler(s): J. STOREY	Sampler Hammer / Drop
Drilling Equipment: ESP	Method	Elevation & Datum	Completion Depth / Rock Depth
Bit Size(s): 1" ø	Core Barrel(s)	Geologist(s)	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	8'-0" SOUTH OF RSB-2 REMARKS
	LOCATION:				SURFACE DESCRIPTION:	
0					CONCRETE	
1			1.0		GRAY SAND & GRAVEL DAMP	
2					BROWN SAND & GRAVEL SOME SILT	
					MOIST	
3						
		1.2'	15.6			
4						
5		0.56'	53.0			E.O.B. REFUSAL @ 5.1' BG
						ESP BROKE
6						
7						
8						
9						
10						

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Signature: [signature] Date: 3/2/98

ERM-Northeast

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number RSB - 6

BORING LOG

Project Name & Location: LUCAS AFB-SPACE	Project Number: 939.009	Date & Time Started: 12:25 3/4/96 Date & Time Completed: 1335	
Drilling Company: ERM	Foreman: JEFF STOREY	Sampler(s): J. STOREY	Sampler Hammer / Drop
Drilling Equipment: ESP	Method	Elevation & Datum	Completion Depth / Rock Depth
Bit Size(s): 1" ø	Core Barrel(s)	Geologist(s)	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
	LOCATION:				SURFACE DESCRIPTION:	BACKGROUND HNU READING 0.1
0					CONCRETE	
1						
			2.8		BROWN SAND AND GRAVEL	
					BROWN SAND AND SILT SOME ~~SPACE~~ GRAVEL MOIST TO WET	
2			4.5			
3		1.97'	1.6			
					BROWN SAND AND SILT MOIST	
4					SOME GRAVEL	
			1.1			
5			3.0		BROWN SILT AND SAND AND GRAVEL	
		1.15	4.2		MOIST	
6					REFUSAL @ 6.0'	
					SAMPLED FOR EPA 8260, FROM THIS SAMPLE TUBE 3.5 TO 6.0'	
7					ID LUC-RSB-6 (3/96)	
8						
9						
10						

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