Columbia Analytical Services INC.
An Employee-Owned Company

April 7, 1999

Mr. John May
NYS DEC
615 Erie Blvd. West
Syracuse, NY 13204

PROJECT: ALMY BROS
CASE #: RH798
SDG #: 0302
SAMPLE #'S: DRUM, TRIP BLANK
Submission #: 9903000075

Dear Mr. May:

Enclosed are the analytical results for the above referenced project. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,
COLUMBIA ANALYTICAL SERVICES

From 8.5

Michael K. Perry
Michael Perry
Laboratory Director

Enc.

cc: Mr. John M, Ryan
NYS DEC
50 Wolf Road, Room 392
Albany, NY 12233

CASE NARRATIVE

COMPANY: NYS DEC - Region 7
PROJECT: Almy Bros.
SUBMISSION #: 9903000075
SDG#: 0302
Case #: RH798

NYS DEC samples were collected on 03/02/99 and received at CAS on 03/03/99 in good condition at a cooler temperature of 2.9 °C. See CAS CLP Batching sheets for a cross reference between Client ID and CAS Job # and analyses requested.

VOLATILE ORGANIC ANALYSIS

One water sample and a Trip Blank were analyzed for Target Compound List (TCL) volatile organics by Method 95-1 from the NYS DEC 1995 ASP.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate compounds were within QC limits for recovery.

Matrix Spike/Matrix Spike Duplicate recoveries for water sample DRUM and the Blank Spike recoveries were all acceptable.

All Laboratory Blanks were free from contamination.

Library Searches against the NBS/EPA library were conducted on all samples, reanalyzes, and blanks. The 30 largest peaks within 10 % of the nearest Internal Standard were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated.

No analytical or QC problems were encountered during the analysis of this SDG.

SEMIVOLATILE ORGANICS

One water sample was analyzed for TCL Semivolatiles by NYSDEC ASP method 95-2.

All DFTPP tuning criteria were within acceptance limits.

The initial calibration criteria were met for all analytes.

The continuing calibration criteria were met for all analytes

The surrogate standard recoveries S6 and S8 for sample DRUM , DRUMMS, and DRUMMSD were outside of QC limits. The recoveries have been flagged with an "*"..

All internal standard areas were within QC limits

0001

Matrix Spike/Matrix Spike Duplicate recoveries for several analytes were outside of QC limits and have been flagged with an "*" The Blank Spike recoveries were all acceptable.

Library Searches against the NBS/EPA library were conducted on all samples, reanalyzes, and blanks for 95-2 analysis. The 30 largest peaks within 10 % of the nearest Internal Standard were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been reported flagged with a "J" as estimated. The Aliphatic Alkane Hydrocarbon peaks detected were excluded from being put on the TIC summary form I but were included with the raw data.

No other analytical or QC problems were encountered.

PESTICIDE/PCB ANALYSIS

One water sample was analyzed for TCL Pesticides and PCBs by NYSDEC Method 95-3. The analysis was performed on one instrument with one injection splitting into a dual column, dual electron capture detector system. The analysis was conducted concurrently on RTx-CLP and RTx-CLP2 capillary columns.

The initial and continuing calibration criteria were met for all analytes.

The surrogate recoveries for TCMX were within QC limits and were outside limits for DCB on both columns. These recoveries were flagged with an "*".

Matrix Spike/Matrix Spike Duplicate recoveries for water sample DRUM and the Blank Spike recoveries were all acceptable.

No other problems occurred during this analysis.

HERBICIDE ANALYSIS

One water sample was analyzed for Herbicides by SW-846 method 8151A. The analysis was performed on one instrument with one injection splitting into a dual column, dual electron capture detector system. The analysis was conducted concurrently on RTx-CLP and RTx-CLP2 capillary columns.

The initial and continuing calibration criteria were met for all analytes.

The surrogate recovery for DCAA was within QC limits for all samples.

Matrix Spike/Matrix Spike Duplicate recoveries for water sample DRUM and the Blank Spike recoveries were all acceptable except for 2,4,5-TP on the Matrix Spike. This recovery was flagged with an "*".

Sample DRUM was analyzed at a dilution to bring target analytes within the calibration range of the method.

No other problems occurred during this analysis.

METALS ANALYSIS

One water sample was analyzed for Total TAL Metals using NYSDEC 1995 ASP protocol. Mercury was analyzed by cold vapor methodology and all other metals were analyzed by ICP.

Matrix Spike/Matrix Spike Duplicate recoveries for water sample DRUM and the Blank Spike recoveries were all acceptable.

No analytical problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry
Laboratory Manager

4/7/99
Date

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

0004

SDG #: 0302 CASE No.: RH798
SUBMISSION 9903000075
CLIENT: NYS DEC - Region 7
CLIENT REP: Michael Perry
PROJECT: ALMY BROS

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y___ N__x__
DATE: 03/09/99
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 4/09/99
PROTOCOL: ASP-B
SHIPPING No.:AIR BORNE
5959721541

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
277172	DRUM	WATER	95-1,95-2,95-3,8151,TAL METALS	3/2/99	3/3/99			
277173	TRIP BLANK	WATER	95-1	3/2/99	3/3/99			
277174	COOLER BLANK	WATER	95-1	3/2/99	3/3/99			

ORGANIC QUALIFIERS

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

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

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

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

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

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

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

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

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

X - As specified in Case Narrative.

10/95

INORGANIC QUALIFIERS

C (Concentration) qualifier - Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for, but not detected, a "U" must be entered.

Q qualifier - Specified entries and their meanings are as follows:

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier - Enter:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed

COLUMBIA ANALYTICAL SERVICES, INC.
1 M rd St., Suite 250, Rochester, NY 14609-6925
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 3/2/99 PAGE 1 OF 1

PROJECT NAME Almy Bros
PROJECT MANAGER/CONTACT John May
COMPANY/ADDRESS NYSDEC 615 Erie Blvd. West, Syr., N.Y. 13204
TEL (315) 426-7551 FAX ( )
SAMPLER'S SIGNATURE John A May

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☐ 624 ☐ 95-1 ☒ 8260	GC/MS SVOA's ☐ 625 ☐ 95-2 ☒ 8270	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☒ 8081 ☐ 608 ☐ 95-3	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	Herbs 24-D 245-T	245-TP Silvex	PRESERVATION pH < 2.0	pH > 12	Other
Drum	3/2	11:00		Water	6	X														
Drum	3/2	11:00		Water	3		X													
Drum	3/2	11:00	277172	Water	3				X											
Drum	3/2	11:00		Water	3									X						
Drum	3/2	11:00		Water	3											X				
TB			277173																	
CB			277174																	

RELINQUISHED BY:
Signature: John A May
Printed Name: John A May
Firm: NYSDEC
Date/Time: 3/2/99 3:00PM

RECEIVED BY:
Signature: Tom Hastings
Printed Name: Tom Hastings
Firm: CAS
Date/Time: 5/3/99 11:30

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
__ Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
__ 3. EPA Level III Validatable Package
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC.

INVOICE INFORMATION:
P.O. #:
Bill To:

SAMPLE RECEIPT:
Shipping Via: airborne
Shipping #:
Temperature: 5.9
Submission No: 3-75

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client NYSDEC Submission Number 3-75

Cooler received on 3/3/99 and opened on 3/3/99 by CM

1.	Were custody seals on outside of cooler?	YES (NO)
	If yes, how many and where?	
2.	Were signature & date correct?	YES NO
3.	Were custody papers properly filled out (ink, signed, etc)?	(YES) NO
4.	Did all bottles arrive in good condition (unbroken)?	(YES) NO
5.	Were all bottle labels complete (*i.e.* analysis, preservation, etc)?	(YES) NO
6.	Did all bottle labels and tags agree with custody papers?	(YES) NO
7.	Were correct bottles used for the tests indicated?	(YES) NO
8.	Were VOA vials checked for absence of air bubbles, and noted if so?	(YES) NO
9.	Where did the bottles originate?	CAS/A CAS/K CAS/S CAS/L CAS/X CAS/J (CAS/R)

10.	Temperature of cooler(s) upon receipt:	5.9				
	Is the temperature within 4 ± 2° C?:	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 3/3/99 11:33

Thermometer ID: #139 **Circle One:** (Temp Blank) Sample Bottle Cooler Temp.

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4					
5-9*	P/PCBs (608 only)					

YES = All samples OK
NO = Samples were preserved at lab as listed
*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

CLIENT NOTIFICATION: _____

74-15-1 (9/97)—q

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13PP Metals
☐ 3. Volatiles—(USEPA 624 GC/MS)
☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS)
☐ 5. Cyanide
☐ 6. Pesticides/PCBs (USEPA 608-GC)
☐ 7. Halogenated Volatiles (USEPA 601 GC)
☐ 8. Aromatic Volatiles USEPA 602 GC)
☐ 9. BOD
☐ 10. pH
☐ 11. COD
☐ 12. TSS
☐ 13. Settleable Solids
☐ 14. TKN
☐ 15. Ammonia
☐ 16. Nitrate/Nitrite
☐ 17. Total Phosphorus
☐ 18. Reactive Phosphorus
☐ 19. Oil/Grease)
☐ 20. TOC
☐ 21. Total Phenols
☐ 22. Other _____
☐ 59. PCBs at 0.065 ug/l
☐ 60. PCBs congener method (ASP 91-11)
☐ 62. CBOD
☐ 64. Total Solids
☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23 (ALL)—Water—Includes 24-28
☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☒ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2)
☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2)
☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1)
☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1)
☒ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3)
☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3)
☒ 27 Metals—23 in Water — Herbs 2,4-D, 2,4,5-T, 2,4,5-TP Silvex
☐ 33. Metals—23 in Soil/Sediments)
☐ 28 Cyanide—Water
☐ 34. Cyanide—Soil/Sediments)
☐ 66 Dioxin-Water (ASP #91-7)
☐ 67. Dioxin-Soil/Sediments (ASP #91-7)
☐ 35 Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity
☐ 37. EP Toxicity (Metals Only)
☐ 38. Ignitability
☐ 39. Corrosivity
☐ 40. VOA—(USEPA 8260 GC/MS)
☐ 41. BNA—(USEPA 8270 GC/MS)
☐ 42. Pesticides/PCBs (USEPA 8081)
☐ 43. TCLP
☐ 44. TCLP (Metals Only)
☐ 45. Reactivity
☐ 46. Dioxin (USEPA 8280)
☐ 47. Appendix IX
☐ 48. Other _____
☐ 63 Percent Solids
☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO.:
John May	315 426 7551	7

CONTRACT LABORATORY:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
Columbia Analytical	Broome	3/2/99	11:00

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other [redacted]

CASE NO.	SDG NO.	SAMPLE NO.	CHECK FOR MS/MD	TYPE OF SAMPLE
RH179	80302	1	☒ This sample	☒ Grab ☐ Composite ☐ Term _____ hours

☐ Check if there will be more samples with this SDG sent in this calendar week.

Report via Category B, unless checked ☐

Check if field duplicate ☐ Outfall Number

Check if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SAMPLING POINT:

SPDES NUMBER/REGISTRY NUMBER

00091

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DRUM

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1241.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Diclethene	10	U
75-09-2	Methylene Chloride	10	U
75-15-0	Carbon Disulfide	10	U
75-34-3	1,1-Diclethane	10	U
78-93-3	2-Butanone	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Diclpropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108383&106423	(m+p) Xylene	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

95-1 0016

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DRUM

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1241.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

95-1
~~300~~ 0017

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277173 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1244.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Diclethene	10	U
75-09-2	Methylene Chloride	10	U
75-15-0	Carbon Disulfide	10	U
75-34-3	1,1-Diclethane	10	U
78-93-3	2-Butanone	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Diclpropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108383&106423	(m+p) Xylene	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

~~3/90~~ 95-1 0018

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277173 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1244.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

3/00 95-1 9 @417

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

cooler blank

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277174 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1245.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Diclethene	10	U
75-09-2	Methylene Chloride	10	U
75-15-0	Carbon Disulfide	10	U
75-34-3	1,1-Diclethane	10	U
78-93-3	2-Butanone	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Diclpropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108383&106423	(m+p) Xylene	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

cooler blank

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277174 1

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1245.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/11/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

951
3/99 00214117

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

cooler blank RE

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277174 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1249.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/12/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
74-83-9	Bromomethane	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Diclethene	10	U
75-09-2	Methylene Chloride	10	U
75-15-0	Carbon Disulfide	10	U
75-34-3	1,1-Diclethane	10	U
78-93-3	2-Butanone	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Diclpropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
124-48-1	Dibromochloromethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
108383&106423	(m+p) Xylene	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

cooler blank RE

Lab Name: CAS-ROC Contract: C003784

Lab Code: 10145 Case No.: RH798 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277174 1.0

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: Q1249.D

Level: (low/med) LOW Date Received: 03/03/99

% Moisture: not dec. _____ Date Analyzed: 03/12/99

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

3/99 0023 @417

EPA SAMPLE NO.

DRUM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Columbia Analytical Services Contract: NYSDEC

Lab Code: 10145 Case No.: RH798 SAS No.: SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172

Sample wt/vol: 900 (g/ml) ML Lab File ID: AA851.D

Level: (low/med) LOW Date Received: 3/3/99

% Moisture: decanted:(Y/N) N Date Extracted: 3/8/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	11	U
111-44-4	bis(-2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	U
95-48-7	2-Methylphenol	11	U
621-24-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
106-44-5	4-Methylphenol	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
111-91-1	bis(-2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	1	J
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	1	J
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	28	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	28	U
208-96-8	Acenaphthylene	11	U
131-11-3	Dimethyl Phthalate	11	U
606-20-2	2,6-Dinitrotoluene	11	U
83-32-9	Acenaphthene	11	U
99-09-2	3-Nitroaniline	28	U
51-28-5	2,4-Dinitrophenol	28	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
100-02-7	4-Nitrophenol	28	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DRUM

Lab Name: Columbia Analytical Services Contract: NYSDEC

Lab Code: 10145 Case No.: RH798 SAS No.: SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172

Sample wt/vol: 900 (g/ml) ML Lab File ID: AA851.D

Level: (low/med) LOW Date Received: 3/3/99

% Moisture: decanted:(Y/N) N Date Extracted: 3/8/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
84-66-2	Diethylphthalate	11	U
100-01-6	4-Nitroaniline	28	U
534-52-1	4,6-Dinitro-2-methylphenol	28	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	28	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
86-74-8	Carbazole	11	U
84-74-2	Di-n-Butylphthalate	2	JB
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butyl benzyl phthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	11	U
117-84-0	Di-n-octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DRUM

Lab Name: Columbia Analytical Services Contract: NYSDEC

Lab Code: 10145 Case No.: RH798 SAS No.: SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172

Sample wt/vol: 900 (g/ml) ML Lab File ID: AA851.D

Level: (low/med) LOW Date Received: 3/3/99

% Moisture: decanted: (Y/N) N Date Extracted: 3/8/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	3.35	3	J A
2.		unknown	3.57	7	J
3.		unknown	4.35	3	J
4.		unknown	4.99	2	J
5.	000611-14-3	Benzene, 1-ethyl-2-methyl-	5.05	7	JN
6.	000095-63-6	Benzene, 1,2,4-trimethyl-	5.12	6	JN
7.	000611-14-3	Benzene, 1-ethyl-2-methyl-	5.27	6	JN
8.	000622-96-8	Benzene, 1-ethyl-4-methyl-	5.75	4	JN
9.	000135-98-8	Benzene, (1-methylpropyl)-	6.02	4	JN
10.	000099-87-6	Benzene, 1-methyl-4-(1-methylet	6.09	9	JN
11.	001074-55-1	Benzene, 1-methyl-4-propyl-	6.20	3	JN
12.	000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	6.31	3	JN
13.		unknown	6.96	3	J
14.	000934-10-1	3-Phenylbut-1-ene	7.12	6	JN
15.		unknown	11.61	5	J B

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DRUM

Lab Name: Columbia Analytical Services Contract: NYSDEC

Lab Code: 10145 Case No.: 9903-075 SAS No.: _____ SDG No.: 0302

Matrix: (soil/water) WATER Lab Sample ID: 277172

Sample wt/vol: 920 (g/ml) ML Lab File ID: DD302.D

% Moisture: _____ decanted:(Y/N) N Date Received: 03/03/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/08/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/11/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.054	U
58-89-9	gamma-BHC (Lindane)	0.054	U
76-44-8	Heptachlor	0.054	U
309-00-2	Aldrin	0.054	U
319-85-7	beta-BHC	0.054	U
319-86-8	delta-BHC	0.054	U
1024-57-3	Heptachlor Epoxide	0.054	U
959-98-8	Endosulfan I	0.054	U
5103-74-2	gamma-Chlordane	0.054	U
5103-71-9	alpha-Chlordane	0.054	U
72-55-9	4,4'-DDE	0.11	U
60-57-1	Dieldrin	0.11	U
72-20-8	Endrin	0.11	U
33213-65-9	Endosulfan II	0.11	U
72-54-8	4,4'-DDD	0.11	U
50-29-3	4,4'-DDT	0.11	U
7421-36-3	Endrin Aldehyde	0.11	U
1031-07-8	Endosulfan Sulfate	0.11	U
72-43-5	Methoxychlor	0.54	U
53494-70-5	Endrin Ketone	0.11	U
12674-11-2	Aroclor-1016	1.1	U
11104-28-2	Aroclor-1221	2.2	U
11141-16-5	Aroclor-1232	1.1	U
53469-21-9	Aroclor-1242	1.1	U
12672-29-6	Aroclor-1248	1.1	U
11097-69-1	Aroclor-1254	1.1	U
11096-82-5	Aroclor-1260	1.1	U
8001-35-2	Toxaphene	5.4	U

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A
Reported: 04/07/99

NYS DEC - Region 7
Project Reference: ALMY BROS
Client Sample ID : DRUM

Date Sampled : 03/02/99 **Order #:** 277172 **Sample Matrix:** WATER
Date Received: 03/03/99 **Submission #:** 9903000075 **Analytical Run:** 35854

ANALYTE		PQL	RESULT	UNITS
DATE EXTRACTED	: 03/08/99			
DATE ANALYZED	: 03/10/99			
ANALYTICAL DILUTION:	2.2			
2,4-D		0.050	0.11 U	UG/L
2,4,5-T		0.050	0.11 U	UG/L
2,4,5-TP (SILVEX)		0.050	1.5	UG/L
SURROGATE RECOVERIES	QC LIMITS			
DCAA	(50 - 150)		88	%

Columbia Analytical Services, Inc.

INORGANIC CLP

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DRUM

Contract: 9903000075

Lab Code: Case No.: RH798 SAS No.: SDG NO.: 0302

Matrix (soil/water): WATER Lab Sample ID: 277172

Level (low/med): LOW Date Received: 03/03/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	991			P
7440-36-0	Antimony	7.7	U		P
7440-38-2	Arsenic	61.8			P
7440-39-3	Barium	48.5	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	28000			P
7440-47-3	Chromium	8.6	B		P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	93.8			P
7439-89-6	Iron	2560			P
7439-92-1	Lead	52.4			P
7439-95-4	Magnesium	4010	B		P
7439-96-5	Manganese	1460			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	7.3	B		P
7440-09-7	Potassium	4180	B		P
7782-49-2	Selenium	7.4			P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	169000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	55.0			P
7440-66-6	Zinc	42.2			P

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

0030

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A
Reported: 04/07/99

Project Reference:
Client Sample ID :

Date Sampled : 03/10/99 **Order #:** 277520 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run:** 35854

ANALYTE		PQL	RESULT	UNITS
DATE EXTRACTED	: 03/08/99			
DATE ANALYZED	: 03/10/99			
ANALYTICAL DILUTION:	2.2			
2,4-D		0.050	0.49	UG/L
2,4,5-T		0.050	0.49	UG/L
2,4,5-TP (SILVEX)		0.050	1.5	UG/L
SURROGATE RECOVERIES	QC LIMITS			
DCAA	(50 - 150)		95	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8151A
Reported: 04/07/99

Project Reference:
Client Sample ID :

Date Sampled : 03/10/99 **Order #:** 277521 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run:** 35854

ANALYTE		PQL	RESULT	UNITS
DATE EXTRACTED	: 03/08/99			
DATE ANALYZED	: 03/10/99			
ANALYTICAL DILUTION:	2.2			
2,4-D		0.050	0.50	UG/L
2,4,5-T		0.050	0.54	UG/L
2,4,5-TP (SILVEX)		0.050	1.9	UG/L
SURROGATE RECOVERIES	QC LIMITS			
DCAA	(50 - 150)		104	%