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FINAL
SITE INSPECTION PRIORITIZATION REPORT
FINCH PRUYN
QUEENSBURY, NEW YORK

Volume 2 of 2

CERCLIS ID No.: NYD980508279

21 August 1995

Work Order No.: 04200-022-081-0079

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I
4th Floor
Raritan Center
Edison, New Jersey 08837

REFERENCE NO. 28

NUS CORPORATION AND SUBSIDIARIES	**TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
02-9008-26	9/28/90	10:30 AM

DISTRIBUTION:

Finch Pruyn File

BETWEEN:	OF:	PHONE:
Bob Swinburne	Warren Co. Tax Assessors	(518)

AND:

Lois Adams (NUS)

DISCUSSION:

Location of Finch Pruyn Block & Lot.

Sect 52
Block 2
Lot 2, 4, 5.1, 18

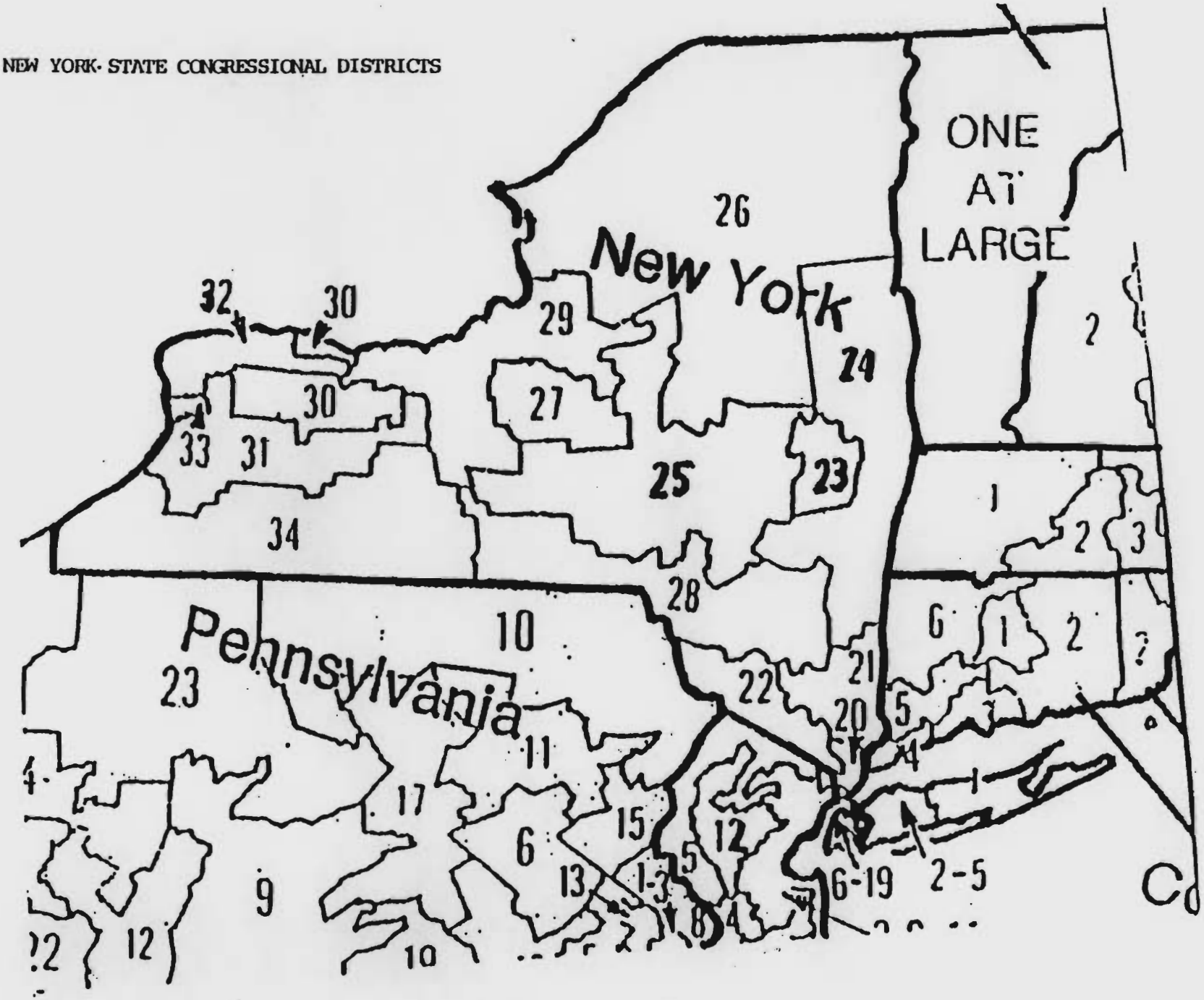
ACTION ITEMS:

Lois K Adams

312

REFERENCE NO. 29

NEW YORK· STATE CONGRESSIONAL DISTRICTS



NEW YORK

Congressional District Identification—Continued

Table 1A. COUNTY SUBDIVISIONS --Continued

County subdivision	County	Congressional district
TER BAY TOWN	NASSAU	3,4
ATTINE TOWN	MONTGOMERY	.25
ERMO TOWN	OSWEGO	.29
YRA TOWN	WAYNE	.29
ELIA TOWN	JEFFERSON	.26
IS TOWN	ONEIDA	.25
ISH TOWN	OSWEGO	.29
ISHVILLE TOWN	ST. LAWRENCE	.26
HA TOWN	MONROE	.30
TERSON TOWN	PUTNAM	.21
ILION TOWN	GENESEE	.30
LING TOWN	DUTCHESS	.21
HAM TOWN	WESTCHESTER	.20
BROKE TOWN	GENESEE	.30
DLETON TOWN	NIAGARA	.32
FIELD TOWN	MONROE	.29
IPTON TOWN	MONROE	.30
RY TOWN	WYOMING	.31
RYSBURG TOWN	CATTARAUGUS	.34
SIA TOWN	CATTARAUGUS	.31
TH TOWN	FULTON	.28
U TOWN	CLINTON	.26
ENSBURG TOWN	RENSSELAER	.24
NSALIA TOWN	CHENANGO	.25
LPS TOWN	ONTARIO	.31
LADELPHIA TOWN	JEFFERSON	.26
LIPSTOWN TOWN	PUTNAM	.21
RCEFIELD TOWN	ST. LAWRENCE	.26
RREPORT TOWN	ST. LAWRENCE	.26
E TOWN	WYOMING	.31
CKNEY TOWN	LEWIS	.26
E PLAINS TOWN	DUTCHESS	.21
CAIRN TOWN	ST. LAWRENCE	.26
CHER TOWN	CHENANGO	.25
TSFIELD TOWN	OTSEGO	.25
TSFORD TOWN	MONROE	.30
TSTOWN TOWN	RENSSELAER	.24
INFIELD TOWN	OTSEGO	.25
TTERKILL TOWN	ULSTER	.29
TTSBURGH TOWN	CLINTON	.26
ASANT VALLEY TOWN	DUTCHESS	.21
MOUTH TOWN	CHENANGO	.25
STENKILL TOWN	RENSSELAER	.24
AND TOWN	CHAUTAUQUA	.34
FRET TOWN	CHAUTAUQUA	.34
REY TOWN	ONONDAGA	.27
SPATUCK INDIANS	SUFFOLK	.1
TAGE TOWN	LIVINGSTON	.31
TER TOWN	NIAGARA	.32
TLAND TOWN	CHAUTAUQUA	.34
TVILLE TOWN	CATTARAUGUS	.34
SDAM TOWN	ST. LAWRENCE	.26
TER TOWN	YATES	.34
GHKEEPSIE TOWN	DUTCHESS	.21
ND RIDGE TOWN	WESTCHESTER	.21
TTSBURG TOWN	STEUBEN	.34
TTSVILLE TOWN	GREENE	.22
HLE TOWN	CORTLAND	.25
STON TOWN	CHENANGO	.25
NCETOWN TOWN	SCHENECTADY	.23
VIDENCE TOWN	SARATOGA	.24
TENEY TOWN	STEUBEN	.34
NAM TOWN	WASHINGTON	.24
TNAM VALLEY TOWN	PUTNAM	.21
ENSBURY TOWN	WARREN	.24
APO TOWN	ROCKLAND	.22
OLPH TOWN	CATTARAUGUS	.34
MBONE TOWN	STEUBEN	.34
DING TOWN	SCHUYLER	.34
FIELD TOWN	OSWEGO	.29
HOOK TOWN	DUTCHESS	.21
HOUSE TOWN	CATTARAUGUS	.34
SEN TOWN	ONEIDA	.25
SSELAERVILLE TOWN	ALBANY	.23
HEBECK TOWN	DUTCHESS	.21
HFIELD TOWN	OTSEGO	.25
HFORD TOWN	TIOGA	.28
HLAND TOWN	OSWEGO	.29
HMOND TOWN	ONTARIO	.31
HMONDVILLE TOWN	SCHOHARIE	.25
RIDGEWAY TOWN	ORLEANS	.32
RIGA TOWN	MONROE	.30
RIPLEY TOWN	CHAUTAUQUA	.34
RIVERHEAD TOWN	SUFFOLK	.1
ROCHESTER TOWN	ULSTER	.22
ROCKLAND TOWN	SULLIVAN	.22
ROOMAN TOWN	JEFFERSON	.26
ROMULUS TOWN	SENECA	.29
ROOT TOWN	MONTGOMERY	.25
ROSE TOWN	WAYNE	.29
ROSEBOOM TOWN	OTSEGO	.25
ROSENDALE TOWN	ULSTER	.22
ROSSIE TOWN	ST. LAWRENCE	.26
ROTTERDAM TOWN	SCHENECTADY	.23
ROXBURY TOWN	DELAWARE	.22
ROYALTON TOWN	NIAGARA	.32
RUSH TOWN	MONROE	.30
RUSHFORD TOWN	ALLEGANY	.34
RUSSELL TOWN	ST. LAWRENCE	.26
RUSSIA TOWN	HERKIMER	.22
RUTLAND TOWN	JEFFERSON	.26
RYE TOWN	WESTCHESTER	.20
ST. ARMAND TOWN	ESSEX	.26
ST. JOHNSVILLE TOWN	MONTGOMERY	.25
ST. REGIS INDIANS	FRANKLIN	.26
SALAMANCA TOWN	CATTARAUGUS	.34
SALEM TOWN	WASHINGTON	.24
SALINA TOWN	ONONDAGA	.27
SALISBURY TOWN	HERKIMER	.22
SAND LAKE TOWN	RENSSELAER	.24
SANDY CREEK TOWN	OSWEGO	.29
SANFORD TOWN	BROOME	.22
SANGERFIELD TOWN	ONEIDA	.25
SANTA CLARA TOWN	FRANKLIN	.26
SARANAC TOWN	CLINTON	.26
SARATOGA TOWN	SARATOGA	.20
SARDINIA TOWN	ERIE	.31
SAUGERTIES TOWN	ULSTER	.22
SAVANNAH TOWN	WAYNE	.29
SCARSDALE TOWN	WESTCHESTER	.20
SCHAGHTICOKE TOWN	RENSSELAER	.24
SCHODACK TOWN	RENSSELAER	.24
SCHOHARIE TOWN	SCHOHARIE	.25
SCHROEPPEL TOWN	OSWEGO	.29
SCHROON TOWN	ESSEX	.26
SCHUYLER TOWN	HERKIMER	.22
SCHUYLER FALLS TOWN	CLINTON	.26
SCIO TOWN	ALLEGANY	.34
SCIPIO TOWN	CAYUGA	.29
SCOTT TOWN	CORTLAND	.25
SCRIBA TOWN	OSWEGO	.29
SEMPRONIUS TOWN	CAYUGA	.29
SENECA TOWN	ONTARIO	.31
SENECA FALLS TOWN	SENECA	.29
SENNETT TOWN	CAYUGA	.29
SEWARD TOWN	SCHOHARIE	.25
SHANDAKEN TOWN	ULSTER	.22
SHARON TOWN	SCHOHARIE	.25
SHAWANGUNK TOWN	ULSTER	.22
SHELBY TOWN	ORLEANS	.32
SHELDON TOWN	WYOMING	.31
SHELTER ISLAND TOWN	SUFFOLK	.1
SHERBURNE TOWN	CHENANGO	.25
SHERIDAN TOWN	CHAUTAUQUA	.34
SHERMAN TOWN	CHAUTAUQUA	.34
SHINNECOCK INDIANS	SUFFOLK	.1
SIDNEY TOWN	DELAWARE	.22
SKANEATELES TOWN	ONONDAGA	.27
SMITHFIELD TOWN	MADISON	.27
SMITHTOWN TOWN	SUFFOLK	1,3
SMITHVILLE TOWN	CHENANGO	.25
SMYRNA TOWN	CHENANGO	.25
SODUS TOWN	WAYNE	.29
SOLON TOWN	CORTLAND	.25
SOMERS TOWN	WESTCHESTER	.21
SOMERSET TOWN	NIAGARA	.32
SOUTHAMPTON TOWN	SUFFOLK	.1
SOUTH BRISTOL TOWN	ONTARIO	.31
SOUTHEAST TOWN	PUTNAM	.21
SOUTHOLD TOWN	SUFFOLK	1

D NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	NFA. FLAG	OPRBLE UNIT	EVENT TYPE	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
5861267	FIBERGLASS RESOURCES CORP			00	DS1		05/01/80	EPA (FUND)
	MOTOR AVE				PA1		06/01/80	EPA (FUND)
	SOUTH FARMINGDALE	NY 11735						
	059 NASSAU							
0508279	FINCH PRUYN			00	DS1		04/01/79	EPA (FUND)
	OFF RTE 149				PA1		06/08/87	STATE(FUND)
	QUEENSBURY	NY 12801						
	113 WARREN							
3506514	FISHER CAGE		NFA	00	DS1		06/24/87	EPA (FUND)
	COLTEEN ST				PA1		09/01/87	EPA (FUND)
	WATERTOWN	NY 13601						
	045 JEFFERSON							
0518357	FISHERS ISLAND LF		NFA	00	DS1		06/01/83	EPA (FUND)
	UNKNOWN				PA1		06/01/83	EPA (FUND)
	FISHERS ISLAND	NY 06390			HR1		05/01/83	OTHER
	103 SUFFOLK				SI1	05/01/83	06/01/83	EPA (FUND)
0508287	FISHKILL LF			00	DS1		04/01/80	EPA (FUND)
	GARY RD				PA1		10/01/83	EPA (FUND)
	FISHKILL	NY 12524			SI1	10/01/83	10/01/83	EPA (FUND)
	027 DUTCHESS							
0528574	FITCH FARM		NFA	00	DS1		04/01/80	EPA (FUND)
	SCHENCK RD				PA1		05/30/86	EPA (FUND)
	PERRY	NY 14530						
	121 WYOMING							
9107107	FLINTKOTE PROPERTY		NFA	00	DS1		04/01/80	EPA (FUND)
	CLINTON ST				PA1		09/01/84	STATE(FUND)
	LOCKPORT	NY 14094						
	063 NIAGARA							
0532345	FLUSHING RIVER COKING STATION		NFA	00	DS1		06/01/81	EPA (FUND)
	32ND AVE (NR FLUSHING RIVER)				PA1		12/30/87	EPA (FUND)
	QUEENS	NY 11361						
	081 QUEENS							

REFERENCE NO. 31

NUS CORPORATION

II

0646

be made illegible.

- Include a sketch or map of the site which can be used to locate photo or sample locations. Note landmarks, indicate north, and if possible include an approximate scale. Do not be afraid to use many sketches and maps as necessary.

- Record any other relevant information which would be difficult to generate at a later date.

FINCH PRUYN
02-9008-26
TDD MANAGER - S. ANDERSON
LOGBOOK #0646
SEPTEMBER 12, 1990

interviews. Include names of persons interviewed, the interest group represented, their address and phone number.

GUIDANCE FOR PROPER USE OF LOG BOOKS

Purpose

- Serves to document onsite activities and be understandable to an outside reader.
- Provides the basis for later written reports.
- Used as an evidentiary document and may be used in legal proceedings.

Distribution

- Controlled by the project manager and distributed as appropriate to personnel designated by the project manager.

General Procedures

- Record information in language which is objective and factual.
- Use ink. Waterproof ink is recommended.
- Leave first two pages blank. They serve as space for the table of contents to be added when the log book is complete.
- The first written page identifies the date, time, TDD number, site name, location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- Start on a new page at the start of each day's field activities. This page should identify date, time, TDD number, site name and location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- List all persons leaving or entering the site.
- Information recorded in the log book should be in chronological order.
- Sign and date each page, log all entries using a 24 hour clock. Entries should be time logged every 15 to 30 minutes.
- Corrections are to be lined through and initialed. No erroneous notes are to be made illegible.
- Include a sketch or map of the site which can be used to locate photo or sample locations. Note landmarks, indicate north, and if possible include an approximate scale. Include as many sketches and maps as necessary.
- A person not present when field activities were being documented should read each completed page, and countersign and date when satisfied that the written notes are understandable.

Specific Field Activities To Be Documented

- Record the who, what and where of field activities.
- Indicate sampling and photo locations on a site sketch or map.
- As part of the chain of custody procedure, recorded in-situ sampling information must include sample number, date, time, sampling personnel, sample type, designation of sample as a grab or composite, and any preservative used.
- Information for in-situ measurements must include a sample ID number, the date, time, and personnel taking measurements. Pertinent in-situ measurements include but are not limited to pH, temperature, conductivity, flow measurements, continuous air monitoring measurements, and stack gas analysis. If infield calculations are necessary they must be checked and signed by a second team member.
- Create a photo log to document photos taken in the field. These must include date, time, photographer, sample number, roll number, frame number, photo ID number and description. Indicate if the film is for slides or prints in the column for roll number. Photo ID numbers can be added at the time the photo log is assembled.
- Record onsite health and safety measures used. Describe observed potential hazards to health and safety. Document the level of protection used, decontamination procedure used and specific decontamination solutions.
- When sampling is complete, a summary log is to be completed. It must include date, time, sample number, description, field book reference page, and the number and date of the chain of custody from on which the sample is listed. Indicate whether or not the sample was split.
- Record details regarding relevant information obtained during onsite interviews. Include names of persons interviewed, the interest group represented, their address and phone number.
- Record any other relevant information which would be difficult to generate at a later date.

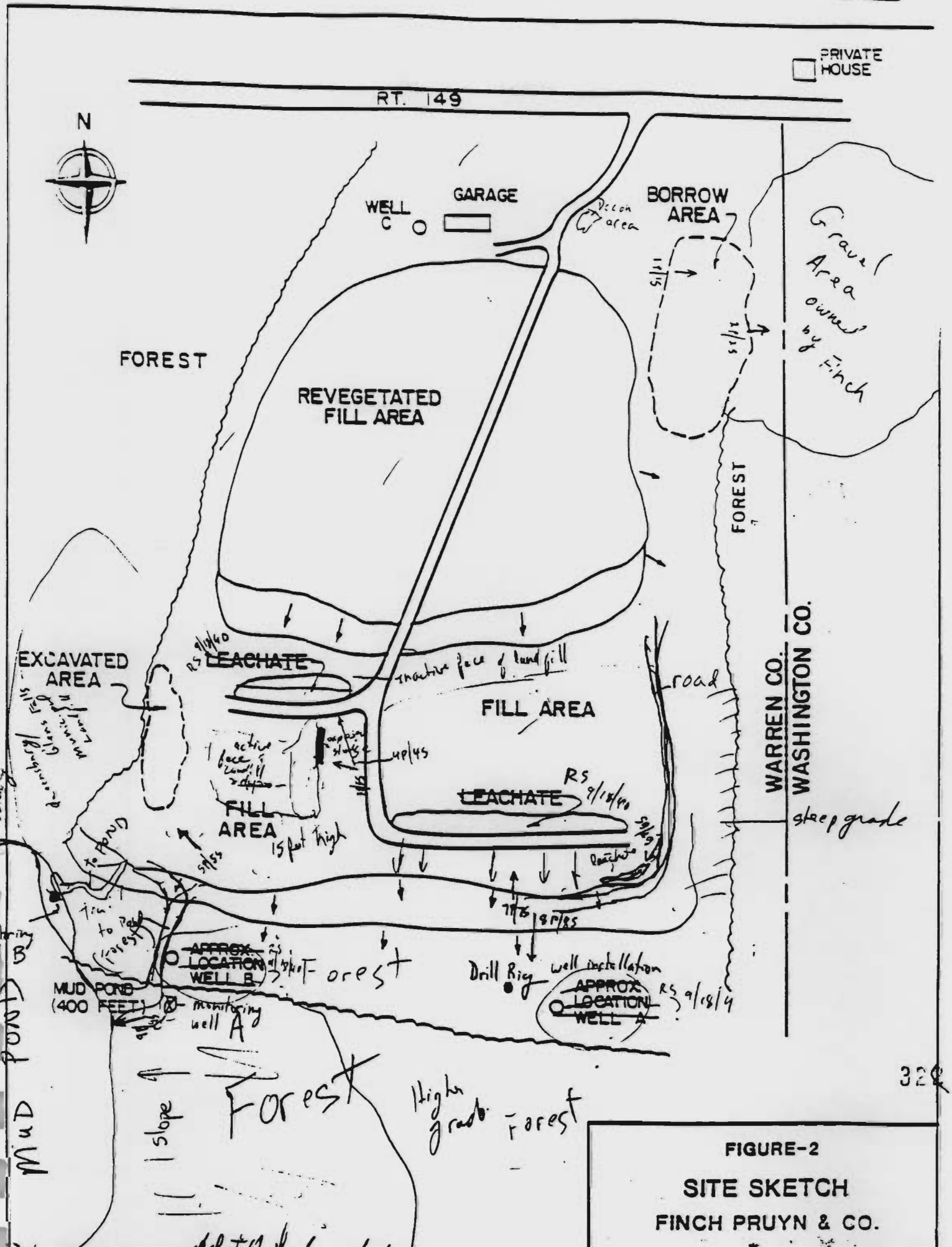


FIGURE-2

SITE SKETCH

FINCH PRUYN & CO.

Philip J. Arthur
Environmental Control Manager
Finch, Pruyn & Company, Inc.
Glens Falls, New York 12801
Telephone: (518) 793-2541

Finch

Date:

Time of

Time of

Robert

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Tom

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Custody of field logbook # 0646
is transferred to Bob Sceeba.
Susan Anderson 9/14/90

Robert A. Sceeba 9/18/90

Finch Pruyn 9/18/90 021-9008-26

On-Site Reconnaissance

Date: 9/18/90

Time of Arrival: 0915

Time of Departure: 1135

NUS Personnel on site		Duties on site
Robert Scerbo	KAS	Site Manager
Mike Gallagher	MGG	Site Safety Officer
Tom Mulder	TMM	Surveillance

Work Plans and QA/QC requirements were discussed with the above-listed personnel.

Weather Conditions: Sunny, High Pressure System, No Clouds, Winds 0-5 mpH out of the NE, Temp 45-50° F

Site Contact: Roger S. Hague Vice President
Philip Arthur, Environmental Manager

Equipment	EPA ID Nos.
OVA	307133
HNu	probe 469753, 469747
mini-rad	469785
camera/w prints	469776
camera/w slides	307128
Compass	

3.5

Robert Scerbo 9/18/90 — 9/19/90

Finch Pruyn 9/18/90 02-9008-26

9:00 Met with Mr. Hague at the Finch Headquarters in Glens Falls. Followed him to the site which is approximately 8 miles away

9:15 arrive on site

9:20 Discussing the boundaries of the landfill with Mr. Hague the landfill is partially closed with the most active portion located on or near the southern boundary

9:25 Setting up decon pad at the entrance of the landfill - Mr. Hague informed me that the site is accessable by vehicle. He stated the entire landfill (active portion) is approximately 40-50 acres.
The landfill is partially used for sludge ~~removal~~ disposal and another portion is used for gravel/fill collection.
Finch sells gravel to outside companys

0930 Mr. Hague informed me that the western border of the landfill is bordered by the Queensbury/Glens Falls municipal landfill.

- The site has been in use since 1971 and is currently preparing to undergo a state approved closure. Closure is estimated to be late 1992 or early 1993.

0935 - The site is generally gravel and fill covered and we will perform a generally walk around recon of the site concentrating on the active portion in the south.

0936 ~~No readings~~ Background on the OVA and HNu 0 ppm
RB 9/18/90 mini-rad 21 cpm

- R. Yount 9/18/90

Jeff Lathrop 9/19/90

Finch Pruyn 9/13/90 02-9008-26

No Readings above background (NRAB)

BS 9/14/90

0940 Preparing to walk around the ~~facility~~ landfill

0955 walking the inactive portion of the landfill
~~Start~~ northeastern corner of the facility Mr. Arthur accompanies us. Mr. Hague leaves the site and returns to his office.

0956 1P/1S Photograph east toward the woods from access road.

1000 observed Gravel area east of inactive portion of the facility (See MAP) Gravel is loaded on Dumps and sold by Finch.

1001 2P/2S Photo looking east of gravel area.

1002 generally the inactive portion is covered with a hand packed fine sand and gravel, No leachate was observed.
BS
The geology in the area seems to be sand and gravel, which would indicate a high permeability

1010 walking to the active southern portion of the landfill In the process of walking

1011 3P/3S Photo of exposed sludge and active face of landfill looking west from flat area of access road.

Robert H. Foote
9/13/90

BS 9/13/90

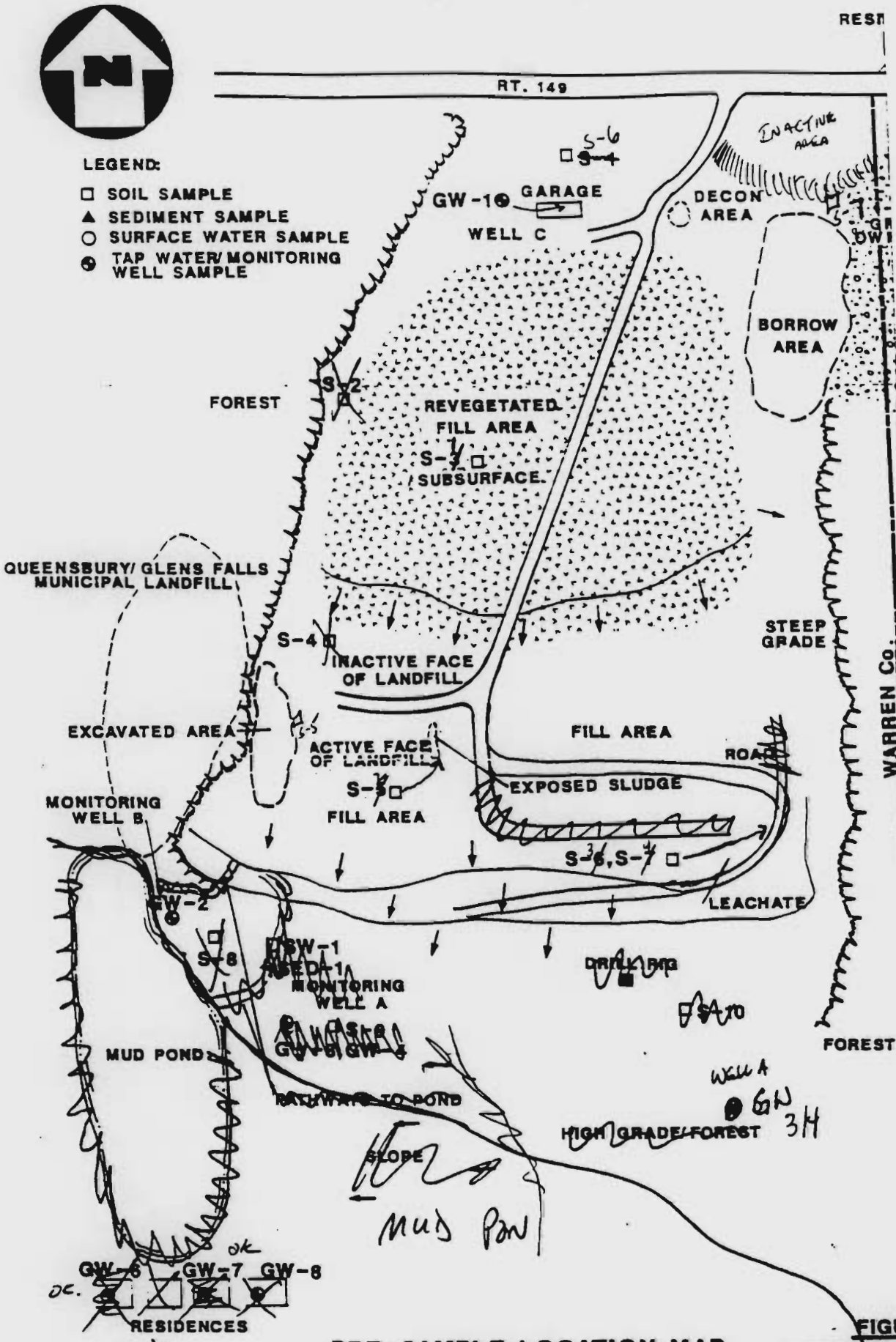
Finch Pruyn 9/18/90 021-9008-26 11

No photo log for the on-site reconnaissance. Photographs could not be developed Robert A. Seaton 9/22/90

This logbook # 0646 is transferred back to Susan Anderson Robert A. Seaton 10/16/90.

302

Phillip J. Arthur
Environmental Control Manager
Finch, Pruyn & Company, Inc.
Glens Falls, New York 12801
Telephone: (518) 793-2541



335

FIGURE 2

PRE-SAMPLE LOCATION MAP
FINCH PRUYN
QUEENSBURY, N.Y.

NOT TO SCALE

NUS CORPORATION

Finch Pruyn 02-9008-26

Custody of field logbook # 0646
is transferred to David Gripp
Susan Anderson 10/12/90

10/18/90

0800 ARRIVED AT FINCH PRUYN OFFICE - MET WITH ROGER HANGER AND PHIL ARTHER. SHOW HIM MY Letter of introduction.
I Asked about the deep monitoring well & found out it is used as a supply well for the Garage area of the landfill. We will take sample from the kitchen tap.

0810 LEFT FOR LANDFILL

835 ARRIVED AT LANDFILL AREA. ALL Personnel sign in at Guard house

840 BEGIN SETUP OF DECON AREA. PHIL ARTHER will show me around the landfill.

0910 Return from getting a tour of the site. There is no odors coming off the landfill. Two monitoring wells are accessible by truck.
- The inactive / revegetated area of landfill is not capped, so we will take a subsurface sample in this area.
- Unable to definitively identify drainage ditch to Mud Pond but we will look again.
- One sample will be of the sludge on the active face of the landfill.
- Noted leachate area indicated on map.

Map in work plan needs changes - see opposite page.

10/18/90 10/22/90

350

1307 Because of wind conditions & large number of dead trees in the area, I have decided to go back to command center to get hard hats, Myself, Dennis & Bob return to command post.

1320 Arrive back at Command post drop off samples GW3 & GW-4, Get hard hats.

1324 Leave to go back to Well B

1330 Arrive at Well B again

1335 Bob & Dennis on level B to purge well.
ON AIR
Start pumping OVA reading 200ppm while pumping
0 ppm in bucket & breathing zone
HNU 0 ppm

1337 Stop ~~well~~ purge well dry. pH 6.0 Approx. 4 gal. in bucket

1340 Start pumping - 2nd time OVA 400 ppm while pumping directly in bucket.
No readings off of water in bucket after shutting pump.

1342 Shut pump. pH 6.0 - No readings on HNu or OVA in bucket after shutting pump.
Appox 3 gal. of water in bucket.

1343 Screen well with OVA & HNu.
HNu - No readings
OVA - approx. 100 ppm directly in well
1.5 ppm at approx 8 inches above well

3 0 2

1346 Start pump - 3rd time

1348 Shut pump. Approx. 200ppm on OVA while pumping and no water coming out. With water coming out approx. 2ppm on OVA, No readings on HNu - pH - 6.0 Approx. 4 gallons in bucket. [signature] 10/18/90 [signature] 10/29/90

1349 OFF AIR

1400 Dennis takes water level measurement - 13' 2" well has sufficiently recharged to sample.
Screen well with OVA & HNu
OVA 100 ppm in well
3" above well 1 ppm
N_2 Readings on HNu.
Well will be sampled on Level B

1410 Bob & Dennis on Air begin sampling well.
Sample Number GW-2
Test pH of water. ≈ 6.0
4 drops HCL used ⇒ 2.0

1412 Start collecting VOA samples
Splitting sample - HALF of each bailer will be put in our jars & half in Finch Pruyn's. All VOA's filled from same bailer.
WATER IS BROWNISH GRAY IN COLOR - VERY TURBID.

1425 Finished collecting Sample GW-2

1426 Capped well, samples off air. Start cleaning up the area.

1432 Area Clean, returning to decon area.

1436 Arrive at Decon area

343

Mark Sutton informs me - one of Finch Pruyn's sample containers broke - GW-3, they don't have another sample bottle so we will give them one of our 32 oz. bottles and provide them with half the sample volume from one of the 80 oz. sampler extractable bottles. The volume of the bottle will be noted on our tasted report. [signature] 10/29/90

10/18/90

1445 Dennis & Bob will begin deconning. I will go into Landfill office building and turn on tap to collect sample for GW1

1448 Turn on tap. Removed aerator from tap. Return to decon Area.

1452 Ed, Tom, and Dennis will collect soil sample S-7 on level B while Bob and I collect the sample from the tap. After we're done with these we will collect the tap water samples from the downgradient locations.

1508 Start collecting GW-1 sample, B. Contaxallo collects sample. Sample is collected from the kitchen sink in the landfill office. Water is used for drinking.

1517 Finished collecting GW-1 Return to decon Area.

1542 ED & I go for Tap water samples, ~~are~~

1600 Arrive at Bemis residence. Speak with Nancy Bemis
17 Azure Drive

1605 Turn outside tap on, this tap does not have any treatment. Ed Knyfd will collect sample when tap has been allowed to run for 15-20 minutes.

Mrs. Bemis does not know any specifics on the well. She said she went through all her paper work but she couldn't find anything. She said the house was built in 1979. Mrs. Bemis provided us with the well Survey log that Susan Anderson had sent to her.

1625 E. Knyfd starts collecting GW-6 sample, this is the MS/MSD.

1634 Finished collecting sample GW-6

1640 Give Mrs Bemis a receipt for sample. Go across street to Creeden residence.

[signature] 10/18/90 [signature] 10/29/90

344

1645 SPEAK WITH DAN CREEDAN" Homeowner at 14 ASURA DRIVE
Water has softner, We can sample at the pump, however we are unable to get sample bottles underneath the spigout. There is only 3-4 inches of clearance. Therefore we will sample from the outside spigot, this is most likely after water treatment. Water treatment just consists of the addition of Morton Salt. Sample will be collected from a hose because the outside spigot is below the deck.
1650 Turn on SPIGOT
1705 Start sampling GW-5 - E KNIFE collecting sample from hose

1710 Ed finished collecting sample GW-5

1715 Mr. Creedan filled out the well survey form as best as he could but he didn't really know specifics on the well. House was built in 1979.
I gave Mr. Creedan a receipt for sample & gave him Ben Conetta's phone number for a copy of results
Returning to command post.

1724 Arrive back at decon area
The only two tap water samples off site that will be collected are GW-5 and GW-6. We don't have access to others and since the upgradient well on-site is used for drinking, it is not necessary to collect an additional upgradient private well sample.

1730 Rick Setting is finishing packaging samples.
Area has been basically packed up except for sample coolers.

345

[signature] 10/18/90 Edward C. Kuykendall 10/20/90

1140 The following samples were collected today
7 soil samples (including duplicate).
4 onsite groundwater samples (including the duplicate)
2 downgradient residential well samples

The following samples were not collected:

The surface water and sediment sample from the drainage swale to Mud Pond. These were not collected because they would not be representative of migration from the site. The soil is very sandy therefore most runoff from the site infiltrates very quickly into the soil; and runoff from the landfill would infiltrate before reaching this drainage swale. There was also no aqueous material in the swale; therefore, the only possible sample would have been a soil sample since it was dry.

Two additional residential wells (one upgradient and one down) because we did not have access and were unable to get access. It was also determined that they weren't necessary because the upgradient on-site well is used for drinking and 2 downgradient samples had been collected.

The two soil samples on the east side of the landfill were eliminated because there ~~were~~ was no indication of wastes being present along the east side.

The soil sample the was supposed to be collected between the 2 downgradient monitoring wells was also eliminated because it would not have been representative of wastes on site.

340

1200 Leave site - Phil Arthur locks up.
[signature] 10/18/90 Edmund Kryboly [signature] 10/29/90

SITE SUMMARY:

We met Mr. Roger HAGUE and Phil Arthur at the Finch Pruyn main office on Glen street in Glen Falls. Mr. Hague registered and I provided him with a copy of my letter of introduction. He asked how long we would be onsite and I told him all day. He said that the landfill closed at 4:00 P.M. I told him we would try to finish by then. I informed him that in addition to the on-site samples, we would also be collecting two off-site tap samples from private residences. I told him I was aware we were supposed to split samples with them, and if they were prepared to split these off-site samples. I was informed that they were only prepared to split on-site samples and that they wouldn't be able to get the necessary glassware to split the off-site samples. I told him that we would go ahead and collect these samples and I would provide him with the addresses so they could make their own arrangements for collecting these samples at a later date. I also inquired as to how Finch Pruyn had normally sampled the deep on-site well, and if there was a pump already in the well. Phil Arther checked with his laboratory and found out that there is a pump in the well, and it is used as a drinking water supply well on the landfill site. I was also informed that Phil Arthur or another Finch Pruyn employee would be accompanying us during the day. I told them that we would be using a split crew to collect samples, one to collect groundwater samples and one to collect soil samples.

347

Phil Arthur showed us to the landfill which is located approximately 7-8 miles north of the main office. While the NUS crew set up the decon area Phil Arthur showed me around the landfill so I could familiarize myself

10/24/90 10/29/90

with it. I asked if the revegetated/inactive portion of the landfill was capped and he told me it wasn't at this time but would be during closure of the landfill. He informed me that they were beginning closure requirements for the landfill and were in the process of getting approval for a new site for sludge disposal, which is where the sludge will be disposed of when the present landfill is closed. Phil showed me active face of the landfill, each of the GW monitoring well locations, and the locations of new wells being installed as part of the closure. These wells have not received approval for use yet. I asked if all that was disposed of in this landfill was sludge and he said it was, and was the sludge after secondary wastewater treatment.

After arriving back at the command post I took Ed Kingfield out to show him the soil sample locations. The first one was located in the inactive/revegetated area and would be a subsurface sample. The second was a sample of the sludge material on the active face of the landfill. The third and fourth (environmental duplicates) were from a leachate seep/drainage path in the southeast corner along the access road. The fifth was a composite surface sample of a large leachate/stained soil area on the western portion of the active portion of the landfill. The sixth sample was a background sample located in the wooded area behind the landfill office/garage. The seventh soil sample was from an inactive portion located in the northeast portion of the site. The sample was collected in a drainage ditch with large areas of discolored soil and leachate. 348

The crew was split with E. Kingfield and T. Beauregard collecting soil samples and D. Foerter, D. Krupp, and B. Cantagallo collecting the groundwater samples. Following collection of all samples on site E. Kingfield and D. Krupp went to collect two off site residential well samples downgradient of the site.

D. Krupp 10/24/90 Edward Kingfield 10/29/90

Both residential samples were collected from outside taps. These residents were located at 17 and 14 Ashure Drive.

Following collection and packaging of all samples receipt for sample forms were filled out by R. Setting and given to Phil Arthur.

Samples were dropped off at the Federal Express office off of Wolf Rd, in Albany New York at approximately 1930 hours.

10/24/90

0915 Logbook transferred back to Sue Anderson from D Gemp.

349

[signature] 10/24/90 [signature] 10/29/90

NUS CORPORATION

II

0665

FINCH PRUYN
02-9008-26
TDD MANAGER-S. ANDERSON
LOGBOOK #0665
OCTOBER 12, 1990

GUIDANCE FOR PROPER USE OF LOG BOOKS

Purpose

- Serves to document onsite activities and be understandable to an outside reader.
- Provides the basis for later written reports.
- Used as an evidentiary document and may be used in legal proceedings.

Distribution

- Controlled by the project manager and distributed as appropriate to personnel designated by the project manager.

General Procedures

- Record information in language which is objective and factual.
- Use ink. Waterproof ink is recommended.
- Leave first two pages blank. They serve as space for the table of contents to be added when the log book is complete.
- The first written page identifies the date, time, TDD number, site name, location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- Start on a new page at the start of each day's field activities. This page should identify date, time, TDD number, site name and location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- List all persons leaving or entering the site.
- Information recorded in the log book should be in chronological order.
- Sign and date each page, log all entries using a 24 hour clock. Entries should be time logged every 15 to 30 minutes.
- Corrections are to be lined through and initialed. No erroneous notes are to be made illegible.
- Include a sketch or map of the site which can be used to locate photo or sample locations. Note landmarks, indicate north, and if possible include an [illegible]. Include as many sketches and maps as necessary.
- A person not present when field activities were being documented should read each completed page, and countersign and date when satisfied that the written notes are understandable.

Specific Field Activities To Be Documented

- Record the who, what and where of field activities.
- Indicate sampling and photo locations on a site sketch or map
- As part of the chain of custody procedure, recorded in-situ sampling information must include sample number, date, time, sampling personnel, sample type, designation of sample as a grab or composite, and any preservative used.
- Information for in-situ measurements must include a sample ID number, the date, time, and personnel taking measurements. Pertinent in-situ measurements include but are not limited to pH, temperature, conductivity, flow measurements, continuous air monitoring measurements, and stack gas analysis. If infield calculations are necessary they must be checked and signed by a second team member.
- Create a photo log to document photos taken in the field. These must include date, time, photographer, sample number, roll number, frame number, photo ID number and description. Indicate if the film is for slides or prints in the column for roll number. Photo ID numbers can be added at the time the photo log is assembled.
- Record onsite health and safety measures used. Describe observed potential hazards to health and safety. Document the level of protection used, decontamination procedure used and specific decontamination solutions.
- When sampling is complete, a summary log is to be completed. It must include date, time, sample number, description, field book reference page, and the number and date of the chain of custody form on which the sample is listed. Indicate whether or not the sample was split.
- Record details regarding relevant information obtained during onsite interviews. Include names of persons interviewed, the interest group represented, their address and phone number.
- Record any other relevant information which would be difficult to generate at a later date.

Finch Pruyn

02-9008-26

Custody of field logbook #0665 is transferred to David Grupp.
Susan Anderson 10/12/90

10/18/90 1000 Turn logbook over to E. Kynett for documentation of soil sampling.
10/18/90

1015 - Drive around with Dave Grupp to locate samples.

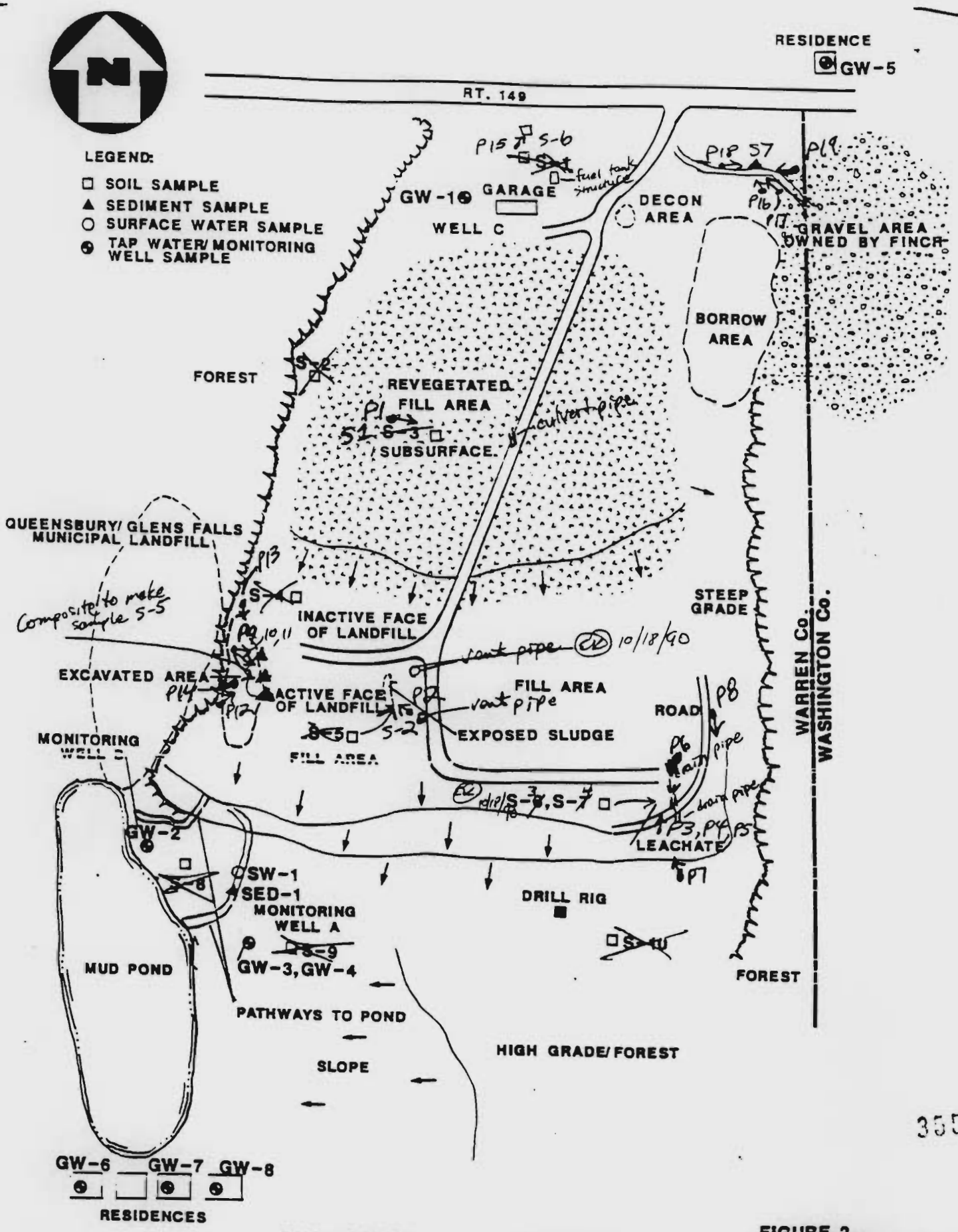
1045 - Returns to Lyon area

1055 - Arrive at location of soil sample S1, which will be located at a bearing of 255° and 100 feet west of culvert pipe opening along the road.
Lyon area 10/18/90

1115 - Collecting subsurface soil sample is hindered by rocks. Have to try new auger holes.

35

Edward Kynett 10/23/90 10/24/90



355

PRE-SAMPLE LOCATION MAP
FINCH PRUYN
QUEENSBURY, N.Y.

FIGURE 2

NUS CORPORATION

Ecko Pruyn

4

02-9008-26

10/18/90

1125- Tim Beauregard collecting soil sample (subsurface) S-1.

2-81, S1

The soil is a medium to large grained sand, brown, alternating to a grayish color. Sample collected at a depth of 2 feet.

1145- Drop off samples S1 to the decon area and proceed to collect sample S2.

Sample S1 yielded 5-14 ppm readings in the hole on the OVA, no readings on the HNu.

1200- Arrive at location of soil sample (sludge material) S2. The material is a gray/black color and fibrous and clustery in nature.

1200- Tim and Ed (EB) 10/18/90

Upgrade to level C because of wind conditions, dusty, heavy equipment operating, and venting of the landfill. noticable H_2S odor from landfill venting.

3:56

Edward Kybal 2.

10/24/90

Fmch - Pruyn 02-9008-26 5

10/18/90

(EK) 10/18/90

1210

~~1200~~ - 2-P2,S2 Tim Beauregard collecting surface soil sample S2

OVA-M will not light up; HNu still working okay.

HNu did not yield readings above background

Sample S2 is located at a bearing of 281° and 67.1 feet from a vault pipe near the "Y" in the main landfill road.

1220 - ~~Tim and Ed remove cartridge respirators.~~ (EK) 10/18/90

1225 Proceeding to sample locations S3 and S4 (duplicates).

1235 At location of samples S3 and S4 duplicates to be collected from a drainage ditch along the main access road and at the edge of the landfill. The sample is a mix of leachate and sand material. sand is coarse-grained and light brown to pale yellow in color

1245 -

2-P3,S3 Tim Beauregard collecting duplicate soil samples S3 and S4.

No readings above background on the HNu.

357

Elaine Kruyff 10/23/90 10/24/90

Finch-Pruyn 02-9008-26 10/18/90

1250 - 2-P4,S4 Photo looking northeast along access road at location of soil samples S3 and S4 collected from leachate in drainage ditch.

1305 - 2-P5,S5 Photo looking north at leachate in drainage ditch by sample locations S3 and S4

1305 2-P6,S6 Photo looking southwest at drain pipe opening, directing leachate southeast under access road.

1310 2-P7,S7 Photo looking north at drain pipe opening on southeast side of access road which directs leachate into drainage ditch.

1310 2-P8,S8 Photo looking southeast at boulder lined drainage ditch on southeast side of access road

Edward Kuzel Jr. 10/19/90 10/24/90

1315 - Head to decon area to drop off samples and get sampling equipment and bottles for sample locations 55, 56, and 57

1335 - Leave decon area to go to sample location 55.

1340 - Arrive at sample location 55, located on the western side of the active landfill face. Tim and EQ put on cartridge respirators.

1355 - Tim Beauregard compositing sample 55 from three leachate streams.

2-P9, 10, 11
2-S9, 10, 11

The leachate color varies from a yellowish-white to gray and black.

1405 - 2-P12, S12 Tim Beauregard collecting composited soil sample 55, composited from three leachate streams.

1415 - 2-P13, S13 Photo looking south at slope of landfill and leachate near sample location 55

359

Edward Kopolyi 10/23/90

10/24/90

1415 2+P14,514 Photo looking southwest and across the access road from sample location S5 at installation of two monitoring wells.

1415- Tim and Ed remove cartridge respirators.

1420 - Return to decon area and drop off sample S5.

1430 - Leave decon area to collect background sample S6.

1432 - Arrive at location of sample S6, located north of landfill garage and office.

1445 - 2-P15,515 Tim Beauregard collecting soil sample S6 at a bearing of 356° and 132 feet from the outside fuel tank structure.

1450 - Return to decon area to drop off samples and get sample containers for sample S7.

300

Edward Kybal Jr. 10/23/90 10/24/90

Tim, Ed, and Dennis Foerter go on level B. 10/19/90

1515 At the location of soil sample S7.

This sample is being collected from a drainage ditch running approximately east-west along a southern edge of a portion of the landfill. (Currently inactive?)

The leachate varies in color from a light gray/yellow to dark grey and black. Gases escaping from the soil and leachate were observed bubbling through water/leachate in the ditch.

1530 2-P16,S16 Tim Beaudgard collecting soil sample S7 at a bearing of 244° and approximately 500 feet east of the landfill office. 67°
EJK 10/19/90
OVA = 100-150 ppm disturbed soil

1532 Tim and Dennis off air, return to decon area 10/19/90

1545 2-P17,S17 Picture of bubbling leachate in a drainage ditch along the southern slope of the northern portion of the landfill; located approximately 500 feet east of the landfill office.

Edward Kyzalg. 10/23/90 10/24/90

1550 2-P18,S18 Photo looking ~~east~~ west (EK) 10/18/90 along the drainage ditch showing leachate streams from the south facing landfill slope; located approximately 500 feet east of the landfill office.

1550 2-P19,S19 Photo looking ~~east~~ west (EK) 10/18/90 along the drainage ditch showing leachate streams from the south facing landfill slope; located approximately 500 feet east of the landfill office.

1551 ~~SR off air~~

1600 Arrive back at decon area and drop off samples.

Will go with Dave Krupp to collect two downgradient tapwater samples from private residential wells.

10/24/90

0845 Logbook transferred from E. Knopf To D. Krupp

0915 Logbook transferred back to Sue Anderson from D Krupp

3 of 2

Edward Knopf 10/24/90

FINCH PYNN 02-9008-26 10/18/90

Photo log Photo's taken by D GRupp

1-P-1	Monitoring well A location. Viewing towards	1145
3-P-1	MUD POND ~~west~~? South (DG) 10/24/90	
1-P-2	B. Cantygallo & D. Forster collecting groundwater	12:00
3-P-2	Samples GW-3 and Duplicate GW 4	
1-P-3	Photo of Monitoring well B location	12:45
3-P-3		
1-P-4	Photo of B. Cantygallo & D. Forster	1415
3-P-4	collecting GW2	
1-P-5	B. Cantygallo collecting GW-1 sample	1515
3-P-5	from kitchen tap in Landfill office	
1-P-6	EJ, Tim, & Dennis ~~cutter~~ at S-7 soil location	1527
3-P-6		
1-P-7	EJ KNYFD collecting tap water sample	1630
3-P-7	from downgradient private well (Bemis House)	
2-S-20		
1-P-8	E. KNYFD Collecting tapwater sample	1708
2-S-21	from downgradient private well (Creeden Residence)	

DGRupp 10/18/90

M J Gallagher 10/19/90

Photos taken by Ed Kyle

P-1, S1 Jim Beauregard collecting soil sample (Subsurface) S-1 1105

P-2, S2 Jim Beauregard collecting surface soil sample S-2 1210

P-3, S3 Jim Beauregard collecting duplicate soil samples S-3 and S-4 1245

P-4, S4 Photo looking northeast along access road at location of soil samples S3 and S4 collected from leachate in drainage ditch. 1250

P-5, S5 Photo looking south at leachate in drainage ditch by sample locations S3 and S4 1305

P-6, S6 Photo looking southeast at drainage opening, directing leachate southeast under access road. 1305

P-7, S7 Photo looking north at drain pipe opening on southeast side of access road which directs leachate into drainage ditch. 1310

P-8, S8 Photo looking southeast at boulder lined drainage ditch on southeast side of access road 1310

Josephine Brown 1/7/91 9/17/91 Ed Gallagher 10/19/90

2-P9,10,11 Jim Beauregard compositing sample S-5 from three leachate streams 1355

2-P12,S12 Jim Beauregard collecting composited soil sample S-5, composited from three leachate streams. 1405

2-P13,S13 Photo looking south at slope of landfill and leachate near sample location S-5 1415

2-P14,S14 Photo looking southwest and across the access road from sample location S-5 at installation of two monitoring wells 1415

2-P15,S15 Jim Beauregard collecting soil sample S-6 at a bearing of 356° and 132 feet from the fuel tank structure 1445

2-P16,S16 Jim Beauregard collecting soil sample S-7 at a bearing of 67° and approximately 300 feet east of the landfill office 1530

2-P17,S17 Picture of bubbling leachate in a drainage ditch along the southern slope of the northern portion of the landfill located approximately 300 feet east of the landfill office 1545

Josephine Braun 1/7/91

M J Gallagher 10/14/91

12, S18	Photo looking west along the drainage ditch showing leachate stream from the south facing landfill slope, located approximately 500 feet east of the landfill office	1550
13, S19	Photo looking west along the drainage ditch showing leachate stream from the south facing landfill slope, located approximately 500 feet east of the landfill office	1550

Josephine Brown 11/7/91 — M. J. Gallagher 10/15/90

REFERENCE NO. 32

STATE OF NEW YORK
DEPARTMENT OF CONSERVATION
WATER POWER AND CONTROL COMMISSION

THE GROUND-WATER RESOURCES OF WASHINGTON COUNTY NEW YORK

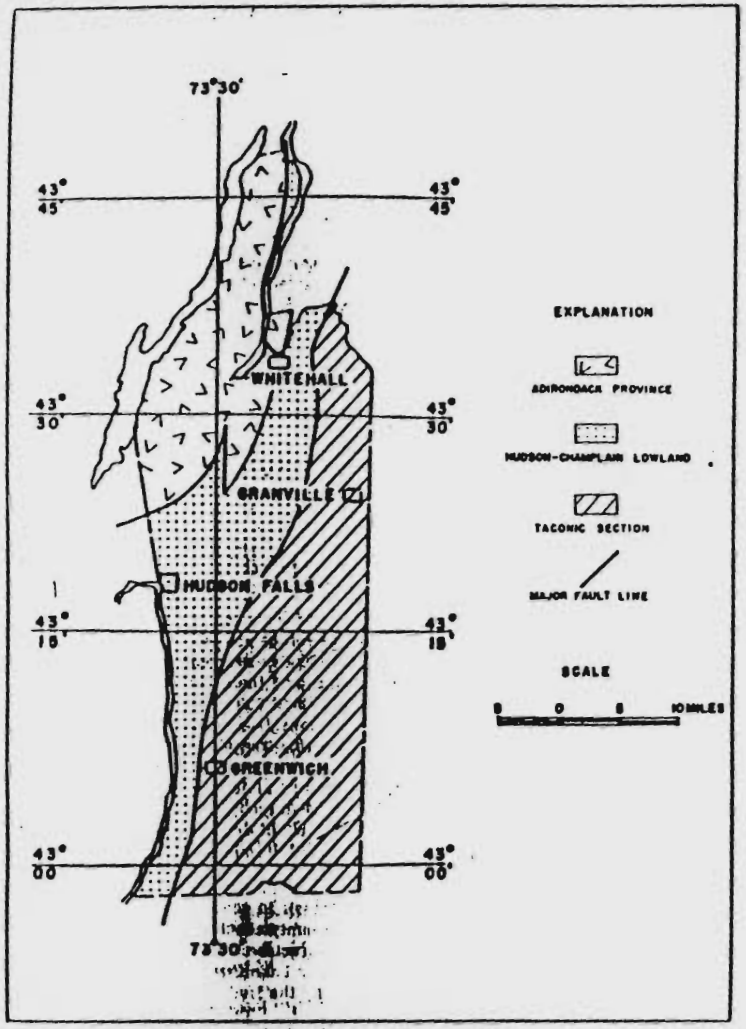


Figure 2.—Map of physiographic divisions in Washington County.

most the entire drainage basin of Wood Creek is included in the area. South of the divide the Hudson River emerges from the Adirondack Mountains and turns south at Hudson Falls to form the western boundary of the County. It receives drainage through two large tributaries on the east, Batten Kill and the Hoosic River. Batten Kill rises in Vermont, enters the County east of Cambridge, flows westward, and discharges into the Hudson River at Clarks Mills (pl. 1). Westward from Greenwich the river skirts the edge of a triangular mass of sand and gravel which represents a delta built by the Batten Kill into Lake Albany (pl. 3), the body of water that occupied the Hudson Valley in late Pleistocene time. The Hoosic River drains the southern part of the County, forming part of the southern boundary.

There has been derangement of the preglacial drainage pattern in some sections of Washington County, as indicated by the reversed courses of some streams. The normal pattern of preglacial and present-day streamflow is to the south or west. Originally Batten Kill probably flowed southwest through the present Owl Kill valley, but the upper part of the stream valley between Shushan and Cambridge was later filled with drift or ice and the river was forced to turn to the northwest. The low divide that separates Owl Kill from Batten Kill and the narrow steep-sided valley of Batten Kill below Shushan are further evidence that the river formerly drained through the partly buried valley at Cambridge. Similarly, the northward-flowing Poultney River in Washington County probably once flowed southwestward from Poultney, Vt., and entered the Mettawee River valley near Raceville. (See pl. 1.)

Most of the present lakes of the region were formed at the close of Pleistocene time. They occupy channels or depressions carved out by the erosive action of the ice which later dammed on one or more sides by Pleistocene deposits. Cossayuna Lake and Summit Lake, the two largest in the County, were formed in this manner.

In cooperation with the New York Department of Public Works and other State agencies, the U. S. Geological measures streamflow at about 200 stations on large and small streams throughout the State. Table 1 lists the stream-gaging stations in or near Washington County and the duration of the records. A listing for the entire State is given in Geological Survey Circular 138 (1950).

Table 1.—Location of stream-gaging stations in or near Washington County and the record available

Stream	Drainage area (sq. miles)	Years of record available
Glens Falls feeder at Glens Falls (canal season only)	—	1927-
Glens Falls feeder at Dunham Basin (canal season only)	—	1945-
Bond Brook at Dunham Basin	14.7	1947-
Batten Kill at Arlington, Vt.	152	1929-
Batten Kill at Battenville	394	1923-
Hoosic River near Eagle Bridge	510	1910-21; 1923-
Walloomsac River at North Bennington, Vt.	111	1931-
Lake George outlet at Ticonderoga	234	1904-5; 1942-
Schroon River at Riverbank	527	1908-

CLIMATE

The climatic conditions prevailing in Washington County are those of a humid continental climate characterized by a wide range in temperatures, by heavy snowfall during the winter, and by a moderately heavy total annual precipitation. Although no detailed records are available for the upland areas, weather conditions appear to be quite uniform in all parts of the County.

Table 3.—Geologic formations in Washington County and their water-bearing properties

Age: System	Age: Series	Geologic formation	Maximum thickness (feet)	Character of material	Water-bearing properties
Quaternary	Recent	Alluvium	20	Clay, silt, sand, and gravel.	Yields moderate supplies of good-quality water to a few dug and driven wells.
	Pleistocene	Wisconsin drift	200+	Outwash—interbedded sand and gravel deposited by streams.	Yields moderately large supplies to driven wells and springs; could probably be developed to a much greater extent.
			200	Lacustrine deposits—clay and silt deposited in glacial Lake Albany.	Generally not water bearing.
			130	Delta deposits—fine gravel and sand deposited as deltas in standing bodies of water.	Yields moderately large supplies to driven wells and springs; could probably be developed to a much greater extent.
			25	Till—heterogeneous mixture of gravel, sand, and clay with a predominance of clay.	Yields small supplies of water to many shallow dug wells for domestic and stock use.
Ordovician	Middle Ordovician	Snake Hill formation	600	Black to green argillaceous shale possessing a glazed appearance due to metamorphism.	Yields small supplies of ground water to many drilled wells averaging 125 feet in depth; average yield 5 gallons per minute (gpm). Water is quite hard and may contain hydrogen sulfide. Mineral waters in Washington County may be obtained from this formation.
	Middle and Lower Ordovician	Walloomsac slate	Unknown	Greenish-gray to black slate and schist showing considerable metamorphism.	Supplies a few springs but is relatively unimportant as a source of ground water.
		Trenton group and Beekmantown limestone	1,100	Dark-blue fine-grained thin- to thick-bedded limestone and dolomite locally containing beds of sandstone and chert; shaly partings in upper 50 feet.	Yields moderately large supplies to many drilled wells which encounter fractures or joints; average yield is 12 gpm; very few dry holes reported. Water is moderately mineralized and quite hard.
Ordovician and Cambrian		Taconic sequence of rocks	3,000	Consists of the Rensselaer grit, Bomoseen slate, Schodack formation, and Normanskill shale. Reddish grit; black, gray-green, and purple slate and shale with interbedded limestone and white-weathering chert; metamorphosed to varying degrees.	Yields small but reliable supplies of ground water to drilled wells averaging 120 feet in depth; average yield is 5 gpm. Water is moderately hard and contains some iron, but is generally satisfactory. Only small supplies can be developed from slate.
Cambrian	Upper Cambrian	Potsdam sandstone and associated dolomite	400	Coarse- to fine-grained almost pure sandstone, grains well cemented. Grades upward into alternating sandstone and dolomite beds.	Yields very small supplies to a few drilled wells but is relatively unimportant as a source of ground water. Water is quite hard and may contain some iron.
Pre-Cambrian		Grenville series and associated igneous rocks	Unknown	Crystalline metamorphic rocks intruded by syenite and granite masses.	Supplies small springs but is unimportant as a source of ground water. Water is soft.

The sandstone, dolomite, and limestone of the Hudson-Champlain lowland, because of their compactness and their more westerly position, have resisted the forces causing folding and crumpling. Instead, the pressure was taken up by breaking along joint planes. The two principal sets of joints trend approximately N. 50° W. and N. 40° E., respectively. Thus, the joints form a pattern of two sets of parallel vertical planes intersecting at approximately right angles. Joints trending in other directions exist but are not prominent. The joints decrease in number and size of opening with depth and are believed to become closed at depths below 200 to 300 feet.

The rocks of the Taconic sequence exhibit the most intricate structure. Because of their more easterly position and physical character, they have taken up most of the compressive force from the east. They are highly folded and faulted, and the mapping of the smaller structural details is beyond the scope of this report. They are cut by numerous cleavage and joint planes which intersect at various angles and divide the rock into very small blocks. The compressive forces have further moved the crumpled mass as a unit in a westerly direction along extensive low-angle faults called "thrusts". An almost continuous thrust plane, extending the length of the County from south of Greenwich to north of Whitehall, marks the western limit of the rocks of the Taconic sequence. These rocks now overlie the rocks of the valley in the vicinity of the thrust fault. It is probable that the rocks of the Taconic sequence are relatively thin in the vicinity of the fault and that deep drilling might pass through them and penetrate the relatively undeformed valley rocks beneath.

STRATIGRAPHY

All the formations that crop out in Washington County are utilized to some extent as sources of water supply. Table 3 summarizes the lithologic and hydrologic properties of these aquifers. Their distribution within the County is shown on plate 2 (bedrock geology) and plate 3 (surficial geology).

Pre-Cambrian Rocks

The pre-Cambrian rocks of the Grenville series consist of schist and gneiss formed by the alteration of older sedimentary rocks by intruding magmas during periods of mountain building. Subsequent intrusions by magmas of different composition have resulted in the formation of irregular bodies of syenite, granite, and gabbro. More than one-fifth of the County is underlain by these crystalline rocks, which are exposed throughout Dresden Township, nearly all of Putnam Township, and parts of Fort Ann and Whitehall Townships.

Syenite is the most common of the crystalline rocks in Washington County. It has a coarse-grained appearance, exhibits a gneissic structure, and is intimately mixed with the schist and gneiss of the Grenville series. The rock is hard and well drillers refer to it as "granite". In most places it crops out at the surface, there being but a thin covering of glacial till over the crystalline area and almost no residual or disintegrated rock. Intersecting sets of nearly vertical joints are common and the openings are of irregular size and distribution.

Cambrian and Ordovician Systems

The Potsdam sandstone of Cambrian age is well exposed in the valley of Wood Creek from Whitehall to Fort Ann and in smaller outcrops in the vicinity of West Fort Ann. It is a medium-grained massive sandstone composed of angular to subrounded grains of quartz sand of red, yellow, gray, and grayish-white colors. The grains are well cemented by silica, giving the rock, in most places, the appearance of a quartzite. Individual beds vary in thickness from a few inches to several feet, and the bedding planes are well defined. The formation becomes more calcareous and slightly more porous toward the top, grading up into a series of alternating beds of light-colored sandstone and blue sandy dolomite. These beds have been called the "passage beds" of the Theresa formation (Cushing and others, p. 64-66), but as there is

records were collected is 2.8 gpm. One well, W 103, was abandoned at a depth of 490 feet without encountering a water-bearing joint or fracture. The average depth of the wells in Mettawee slate is 188 feet.

SPRINGS

Several municipal ground-water supplies and a few of the domestic supplies in Washington County are obtained from springs. In addition, the village of Schuylerville, in Saratoga County, obtains its water from a spring in Washington County (W 23Sp). The larger springs are found in areas underlain by unconsolidated deposits, whereas small springs are numerous in the hilly area in the eastern section of the County underlain by shale. Representative records are given in table 6.

The springs flow under the force of gravity from openings in the rocks and are in effect an outcrop of the water table. They are seeps which percolate from the small openings in porous open material, such as a sand or gravel, or tiny streams which flow from joints or fractures in the rocks.

Many fracture springs occur in the Adirondack and Taconic areas, in places where ground water circulates along these crevices in the bedrock and finds its way to the surface. They furnish small quantities of water, generally less than 3 gpm. Lick Spring (W 3Sp), one of this type, flows out from an opening in the Schodack formation. The water has a strong disagreeable taste and odor resulting from entrained hydrogen sulfide gas, a decomposition product of the pyrite in the shale beds of the Schodack formation.

Many of the springs in the County are contact springs in that they issue from the contact of an impermeable material with an overlying permeable material. Such springs occur on the outer slopes of the glacial delta of the Batten Kill where beds of clay underlie sand and gravel and prevent further downward percolation of the ground water (W 5Sp, W 6Sp, W 23Sp). One of these, W 23Sp, has an estimated yield of greater than 150 gpm. Other springs of this type occur in the Taconic area, where they issue from the contact of relatively impermeable shale with overlying glacial till (W 11Sp, W 18Sp). The springs in the Taconic and Hudson Falls area have small yields, available records showing flows of less than 10 gpm. Most of them supply ample water for domestic needs. In contrast to these small springs are the larger springs that occur at an outcrop of the water table in outwash materials; for example, spring W 12Sp. It actually consists of several springs which flow out from the base of a depression, which extends below the water table in permeable sand and gravel. The depression is situated at the north end of the Owl Kill valley and the springs furnish water for the municipal supply at Cambridge. When measured on August 29, 1946, the yield was about 475 gpm and the temperature of the water was 48° F. Other springs of this type furnish the municipal supply for Hudson Falls (W 1Sp) and Granville Water District 1 (W 14Sp). Water from seepage springs in Washington County varies in chemical character, but it generally contains fewer dissolved solids and is softer than most well water in the area. Analyses of water from 3 springs are given in table 7.

UTILIZATION

The average daily withdrawal of ground water in Washington County is estimated to be 4 million gallons. Slightly more than half this amount is pumped for public-supply systems. Other principal users of ground water are industrial and commercial establishments, farms, and rural homes.

Municipal Supplies

Nine municipalities in Washington County have public water supplies. Of these, five use wells or springs as a source of supply. The average daily consumption of ground water at these

Table 6.—Records of selected springs in Washington County

Location: For explanation of location symbols see section "Methods of investigation".
Altitude: Approximate altitude of land surface as noted from topographic map.
Use: Dom, domestic; Med, medicinal; PWS, public water supply.

Spring number	Location	Owner	Altitude above sea level (ft)	Topography	Water-bearing formation	Yield (gpm)	Temperature (°F)	Use	Remarks
W 1Sp	7T, 13.1S, 3.3E	Hudson Falls Water Co.	280	Hillside	Pleistocene gravel	..	50	PWS	Twenty-two springs at this location.*
W 2Sp	7T, 13.7S, 10.7E	George Newton	150	Valley	Pleistocene sand and clay	..	..	Farm	
W 3Sp	8T, 4.2S, 12.1E	James Hall	200	Hillside	Taconic sequence	1	48	Med	Water has strong hydrogen sulfide odor.
W 4Sp	8T, 7.3S, 10.3E	James Ellis	280	do.	Pleistocene gravel	..	..	Farm	Three springs at this location.
W 5Sp	8T, 10.3S, 3.3E	Mary Munroe	130	Valley	Pleistocene clay	..	..	Farm	
W 6Sp	8T, 11.0S, 3.2E	A. E. Coffin	130	do.	do.	..	..	Farm	
W 7Sp	8T, 11.8S, 3.0E	Waldo Booth	140	do.	do.	..	..	Farm	
W 8Sp	8T, 12.3S, 3.0E	M. V. Dixon	140	do.	do.	..	..	Farm	
W 9Sp	8T, 12.8S, 3.0E	Ernest Booth	140	do.	do.	..	..	Farm	
W 10Sp	8T, 12.8S, 3.0E	Wesley Coffin	110	do.	do.	..	..	Farm	
W 11Sp	8Z, 4.3S, 3.1E	Kilburn & Sons	740	Upland	Pleistocene till	5	..	Farm	
W 12Sp	8Z, 13.0S, 7.9E	Cambridge Water Works	500	Valley	Pleistocene gravel	475	48	PWS	(a)
W 13Sp	8Z, 2.2S, 3.6E	K. W. Reed	480	do.	Pleistocene till	5	..	Dom	Spring supplies 20 homes.
W 14Sp	7Z, 3.5S, 6.8E	Granville Water District 1	300	do.	Pleistocene gravel	25	..	PWS	(a)
W 15Sp	8Z, 3.7N, 3.4E	G. F. [illegible]	214	Hillside	Pleistocene clay	..	..	Farm	
W 16Sp	7Z, 2.2N, 4.5E	[illegible] Bros.	302	do.	Granville series	½	52	Farm	Water deposits iron.
W 17Sp	7Z, 1.2N, 4.4E	Walter [illegible]	190	do.	do.	2	52	Dom	Spring also supplies restaurant.
W 18Sp	7Z, 3.0S, 3.4E	Leon Carpenter	280	do.	Pleistocene clay	..	40	Farm	Spring reported never dry
W 19Sp	7Z, 2.0S, 0.5W	[illegible]	293	do.	Granville series	..	54	Farm	do.
W 20Sp	7Z, 3.7S, 0.6W	H. [illegible]	273	do.	Recent alluvium	..	47	Farm	
W 21Sp	7Z, 4.8S, 8.1W	J. S. Wood	250	Valley	Beekmantown limestone	4	48	Farm	Spring supplies 30 head of stock
W 22Sp	7Z, 1.0N, 0.5W	McCabe	400	Hillside	Granville series	6	43	Dom	Spring supplies drinking fountain.
W 23Sp	8T, 10.0S, 5.8E	Village of Schuylerville	230	Valley	Pleistocene sand	150+	..	PWS	Three springs at this location. Pipe line crosses Hudson River to Schuylerville in Saratoga County
W 24Sp	8Z, 8.6S, 4.2E	Ronald Gregory	440	Valley	Potsdam sandstone	4	47	Dom	Spring reported very low in summer of 19[illegible]

* For chemical analysis see table 7.

Table 8.—Comparison of mineral waters of Washington County with some typical mineral waters of the Saratoga Springs district

[Dissolved constituents given in parts per million]

	Saratoga Springs[1]				Washington County[2]			
	Geyser	Kathan No. 1	Old Red	Gurn Spring	W 155	W 156	W 61
Dissolved solids	7,850	8,330	2,570	4,220	2,020	2,060	2,150
Bicarbonate	2,760	2,340	1,430	2,190	1,770	2,560	1,060
Sulfate	Trace	Trace	Trace	Trace	0	7	1,250
Chloride	1,700	2,560	573	736	230	430	210
Total hardness (as $CaCO_3$)	1,760	2,230	976	1,205	566	650	1,700
Total alkalinity (as $CaCO_3$)	3,060	2,860	1,170	1,790	1,450	2,100	870
Date of collection	1923	1923	1923	———	2-6-46	2-6-46	12-14-45

[1] Report of the Saratoga Springs Commission to the Legislature, New York Leg. Doc. 70, 1930, p. 184.

[2] Analyses by New York State Department of Health.

that it has a high concentration of chloride and bicarbonate, and practically no sulfate. It also has considerable uncombined carbon dioxide, the quantities of which were not determined. Of the three Washington County waters, all are moderately high in chloride and bicarbonate. Samples from wells W 155 and W 156 have very little sulfate, whereas a sample from well W 61 has considerable sulfate. The water from wells W 155 and W 156 is generally similar to that from the Old Red Spring at Saratoga Springs and from Gurn Spring about 6½ miles northeast of Saratoga Springs.

The mineral springs of the Saratoga region are along or close to normal faults. Cushing and Ruedemann have mapped a large fault trending northeastward through Gurn Spring. This fault may continue northeastward and pass near wells W 155 and W 156. The two wells are close together, and the analyses of their water show similar chemical concentrations. Thus they probably obtain water from the same source, and perhaps from the same source as the Saratoga water. Several widely different theories have been presented to account for the origin of the Saratoga Springs water (Kemp, 1912; Cushing and Ruedemann, 1914; Colony, 1930; Strock, 1944). Only two points are generally agreed upon: (1) the water probably originates as meteoric water and obtains most of its mineral content in deep zones, and (2) the water is more dilute the farther northeast of Saratoga Springs it occurs. The Saratoga water apparently comes from the Little Falls dolomite, whereas wells W 61, W 155, and W 156 tap the overlying Snake Hill formation.

SUMMARY

The occurrence, quantity, and quality of ground water available in Washington County are controlled largely by the geologic formations of the area. These consist of consolidated rock, overlain nearly everywhere by a cover of unconsolidated deposits of varying thickness. Both the structure and character of these rocks and deposits in large part affect the movement and amount of ground water that may be recovered by means of wells.

Stratified deposits of sand and gravel offer the best possibilities for the development of large supplies. The average yield of properly constructed wells penetrating sand and gravel probably is about 100 gallons per minute, and it is believed relatively shallow wells in these materials will yield much larger quantities if modern methods of well construction and development are used. The principal areas of stratified deposits are the West Granville area, the Hudson Falls area, the Salem area, the Cambridge area, and the Batten Kill delta area. In some of these areas the permeable deposits are thin or, as in the Cambridge area, they may contain considerable clay which may make them less permable. Additional exploration in the form of test drilling and pumping tests is needed to determine proper locations for wells.

In contrast to the unconsolidated deposits, ground water in the bedrock in Washington County is contained primarily in joints and cleavage cracks rather than in the pore spaces of the rock. Although the bedrock, in general, yields only small supplies of ground water, water of satisfactory quality and of sufficient quantity for domestic and farm use can be obtained almost anywhere in the County from drilled wells penetrating the bedrock. The water from the Ordovician limestones is hard and may contain iron, hydrogen sulfide, and other minerals in troublesome amounts but is generally satisfactory. The joints in massive limestones are better developed than in the other rock types and are commonly enlarged by solution. Consequently, wells in limestones have larger yields than those in other bedrock formations, averaging about 12 gallons per minute.

An estimated 4 million gallons of ground water is withdrawn daily in Washington County. Approximately half the total amount of ground water withdrawn is used for public supply, five of the nine municipalities that have public systems using wells or springs as a source. The amount of ground water pumped by industries and commercial establishments in the County is relatively small and the principal use, other than for public supply, is for farms and rural homes.

REFERENCE NO. 33

Inorganic Rev. #1

- COPY OF CLP DATA

(REDLINED AND MARKED)

- COMPUTER QA'd PRINTOUT

SITE NAME: Finch Pruyn

CASE# AND/OR SAS#: 15130

BRICS#: NYML

TDD#: 02-9008-26

Finch Pruyn
TCC Nyml
TCI Nyml

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH91

Lab Name: CHEMICAL INNER & SHERMAN LABS. Contract: 68-D0-0089

Lab Code: CHEMIN Case No.: 11130 SAS No.: SDG No.: MBDDL7

Matrix (soil/water): SOIL Lab Sample ID: 10176-10S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 87.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3400.00			P
7440-36-0	Antimony	6.00	U	N J	P
7440-38-2	Arsenic	1.40	B		F
7440-39-3	Barium	17.40	B		P
7440-41-7	Beryllium	0.20	U		P
7440-41-7	Cadmium	0.60	U		P
7440-70-2	Calcium	49600.00			P
7440-47-3	Chromium	5.40			P
7440-48-4	Cobalt	4.00	B		P
7440-50-8	Copper	7.00		J	P
7439-89-6	Iron	9610.00			P
7439-92-1	Lead	~~1.90~~		~~N*~~	F
7439-95-4	Magnesium	13300.00			P
7439-96-5	Manganese	~~162.00~~		~~N*~~	P
7439-97-6	Mercury	0.09 ~~0.13~~ KOF 11/19/90	U		CV
7440-02-0	Nickel	6.50	B	J	P
7440-09-7	Potassium	380.00	B	J	P
7782-49-2	Selenium	0.41	U		F
7440-22-4	Silver	1.00	U		P
7440-23-5	Sodium	110.00	B	J	P
7440-28-0	Thallium	0.41	U	NW J	F
7440-62-2	Vanadium	8.90	B	J	P
7440-66-6	Zinc	~~27.70~~			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

375

000012

U. S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH91

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-04-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-113

Level (low/med): LOW Date Received: 10/19/90

% Solids: 84.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3600.00			P
7440-36-0	Antimony	6.60	U	NJ	P
7440-38-2	Arsenic	2.00	B		F
7440-39-3	Barium	17.90	B		P
7440-41-7	Beryllium	0.22	U		P
7440-41-7	Cadmium	0.66	U		P
7440-70-2	Calcium	59700.00			P
7440-47-3	Chromium	4.20			P
7440-48-4	Cobalt	27.70			P
7440-50-8	Copper	14.70		J	P
7439-89-6	Iron	7890.00			P
7439-92-1	Lead	~~1.90~~		~~N*~~	F
7439-95-4	Magnesium	20300.00			P
7439-96-5	Manganese	~~2550.00~~		~~N*~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	28.30		-	P
7440-09-7	Potassium	242.00	B		P
7782-49-2	Selenium	0.45	U		F
7440-22-4	Silver	1.10	U		P
7440-23-5	Sodium	77.10	B	J	P
7440-28-0	Thallium	0.45	U	NWJ	F
7440-62-2	Vanadium	7.20	B	J	P
7440-66-6	Zinc	~~47.30~~			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

376

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130
LAB NAME: SKINNER & SHERMAN

INORGANICS Sample ID No. Traffic Report No. Matrix Units	NYML-GW1 MBDH66 WATER ug/L	NYML-GW2 MBDH67 WATER ug/L	NYML-GW3 MBDH81 WATER ug/L	NYML-GW4(DUP) MBDH82 WATER ug/L	NYML-GW5 MBDH83 WATER ug/L	NYML-GW6(MS/MSD) MBDH84 WATER ug/L	NYML-S1(MS/MSD) MBDH89 SOIL mg/kg	NYML-S2 MBDH90 SOIL mg/kg	NYML-S3 MBDH91 SOIL mg/kg	NYML-S4(DUP) MBDH92 SOIL mg/kg	NYML-S5 MBDH93 SOIL mg/kg
Aluminum	J	62700	6930	8790			3130	3440 E	3400	3600	3380
Antimony											
Arsenic		11.6	J	J		J	2.7	J	J	J	2.3
Barium	J	394 E	J	J		J	48	J	J	J	J
Beryllium		J	J	J							
Cadmium											
Calcium	47000	406000	108000	115000	J	60600	61500	36500 E	49600	59700	49000
Chromium	J	232	28.3 E	18.8 E			4	10.9 E	5.4	4.2	5
Cobalt		68.5	J	J			J		J	27.7	J
Copper	48	174	32.4	32.1	J	J	8.7 E	21.1 E	7 E	14.7 E	5.4
Iron	J	129000 E	18200 E	19700 E	600 E	2190 E	7890	3450 E	9610	7890	8610
Lead	J	74.4	14.7 E	17.6 E	4.2 E	J	6.1 E	5.9 E	R	R	R
Magnesium	17100	144000	25300	28500	J	23800	17100	J	13300	20300	12000
Manganese	J	R	R	R	J	R	R	R	R	R	R
Mercury					0.44						
Nickel		132	52.8	58.4	J		J	J	J	28.3 E	J
Potassium	J	10200	J	J	J	J	J	J	J	J	J
Selenium											
Silver											
Sodium	J	7860 E	J	J	180000 E	6230 E	J	J	J	J	J
Thallium											
Vanadium		128	J	J			J	J	J	J	J
Zinc	R	R	R	R	R	R	R	R	R	R	R

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

- COPY OF CLP DATA

(REDLINED AND MARKED)

- COMPUTER QA'd PRINTOUT

SITE NAME: Finch Pruyn

CASE# AND/OR SAS#: 15130

BRICS#: NYML

TDD#: 02-9008-26

SITE NAME: PINCH POINT
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

VOLATILES											
Sample ID No.	NYML-GW1	NYML-GW2	NYML-GW3	NYML-GW4(DUP)	NYML-GW5	NYML-GW6(MS/MSD)	NYML-S1(MS/MSD)	NYML-S2	NYML-S3	NYML-S4(DUP)	NYML-S5
Traffic Report No.	BFC14	BFC15	BFC16	BFC17	BFC18	BFC19	BFC24	BFC25	BFC26	BFC27	BFC28
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor	1	1	1	1	1	1	1	5	1	1	1
Percent Moisture	--	--	--	--	--	--	7	68	13	13	16
Chloromethane	R					R		R			
Bromomethane	R					R		R			
Vinyl Chloride	R					R		R			
Chloroethane	R					R		R			
Methylene Chloride	R					R		R			
Acetone	R					R		R		160	250
Carbon Disulfide	R					R		R			8
1,1-Dichloroethene	R					R		R			
1,1-Dichloroethane	R					R		R			
Trans-1,2-Dichloroethene (total)	R					R		R			
Chloroform	R					R		R			
1,2-Dichloroethane	R					R		R			
2-Butanone	R					R		R			
1,1,1-Trichloroethane	R					R		R			
Carbon Tetrachloride	R					R		R			
Vinyl Acetate	R					R		R			
Bromodichloromethane	R					R		R			
1,2-Dichloropropane	R					R		R			
cis-1,3-Dichloropropene	R					R		R			
Trichloroethene	R					R		R			
Dibromochloromethane	R					R		R			
1,1,2-Trichloroethane	R					R		R			
Benzene	R					R		R			
trans-1,3-Dichloropropene	R					R		R			
Bromoform	R					R		R			
4-Methyl-2-Pentanone	R					R		R			
2-Hexanone	R					R		R			
Tetrachloroethene	R					R		R			
Toluene	R					R		R			
1,1,2,2-Tetrachloroethane	R					R		R			
Chlorobenzene	R					R		R			
Ethylbenzene	R					R		R			
Styrene	R					R		R			
Xylenes (Total)	R					R		R			

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

VOLATILES								
Sample ID No.	NYML-S6	NYML-S7	NYML-RIN1	NYML-RIN2	NYML-RIN3	NYML-RIN4	NYML-TBLK1	
Traffic Report No.	BFC29	BFC30	BFC34	BFC35	BFC36	BFC37	BFC38	
Matrix	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER	
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L	
Dilution Factor	5	1	1	1	1	1	1	
Percent Moisture	16	11	--	--	--	--	--	
Chloromethane	R				R		R	
Bromomethane	R				R		R	
Vinyl Chloride	R				R		R	
Chloroethane	R				R		R	
Methylene Chloride	R				R		R	
Acetone	R	190			R		R	
Carbon Disulfide	R	15			R		R	
1,1-Dichloroethene	R				R		R	
1,1-Dichloroethane	R				R		R	
Trans-1,2-Dichloroethene (total)	R				R		R	
Chloroform	R		5	J	J	J	6	E
1,2-Dichloroethane	R				R		R	
2-Butanone	R	38			R		R	
1,1,1-Trichloroethane	R				R		R	
Carbon Tetrachloride	R				R		R	
Vinyl Acetate	R				R		R	
Bromodichloromethane	R				R		R	
1,2-Dichloropropane	R				R		R	
cis-1,3-Dichloropropene	R				R		R	
Trichlbroethene	R				R		R	
Dibromochloromethane	R				R		R	
1,1,2-Trichloroethane	R				R		R	
Benzene	R				R		R	
trans-1,3-Dichloropropene	R				R		R	
Bromoform	R				R		R	
4-Methyl-2-Pentanone	R				R		R	
2-Hexanone	R				R		R	
Tetrachloroethene	R				R		R	
Toluene	R				R		R	
1,1,2,2-Tetrachloroethane	R				R		R	
Chlorobenzene	R				R		R	
Ethylbenzene	R				R		R	
Styrene	R				R		R	
Xylenes (Total)	R				R		R	

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

PESTICIDES	NYML-GW1	NYML-GW2	NYML-GW3	NYML-GW4(DUP)	NYML-GW5	NYML-GW6(MS/MSD)	NYML-S1(MS/MSD)	NYML-S2	NYML-S3	NYML-S4(DUP)	NYML-S5
Sample ID No.	BFC14	BFC15	BFC16	BFC17	BFC18	BFC19	BFC24	BFC25	BFC26	BFC27	BFC28
Traffic Report No.	WATER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
Matrix	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Units	1	1	1	1	1	1	1	1	1	1	1
Dilution Factor/GPC Cleanup (Y)	--	--	--	--	--	--	7	68	13	13	16
Percent Moisture											
alpha-BHC											
beta-BHC											
delta-BHC											
gamma-BHC (Lindane)											
Heptachlor											
Aldrin											
Heptachlor epoxide											
Endosulfan I											
Dieldrin											
4,4'-DDE											
Endrin											
Endosulfan II											
4,4'-DDD											
Endosulfan sulfate											
4,4'-DDT											
Methoxychlor											
Endrin ketone											
alpha-Chlordane											
gamma-Chlordane											
Toxaphene											
Aroclor-1016											
Aroclor-1221											
Aroclor-1232											
Aroclor-1242											
Aroclor-1248											
Aroclor-1254											
Aroclor-1260											

NOTES:
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E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

PESTICIDES	NYML-S6	NYML-S7	NYML-RIN1	NYML-RIN2	NYML-RIN3	NYML-RIN4	NYML-TBLK1
Sample ID No.	BFC29	BFC30	BFC34	BFC35	BFC36	BFC37	BFC38
Traffic Report No.	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Matrix	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Units	1	1	1	1	1	1	N/A
Dilution Factor/GPC Cleanup (Y)	16	12	--	--	--	--	N/A
alpha-BHC							NR
beta-BHC							NR
delta-BHC							NR
gamma-BHC (Lindane)							NR
Heptachlor							NR
Aldrin							NR
Heptachlor epoxide							NR
Endosulfan I							NR
Dieldrin							NR
4,4'-DDE							NR
Endrin							NR
Endosulfan II							NR
4,4'-DDD							NR
Endosulfan sulfate							NR
4,4'-DDT							NR
Methoxychlor							NR
Endrin ketone							NR
alpha-Chlordane							NR
gamma-Chlordane							NR
Toxaphene							NR
Aroclor-1016							NR
Aroclor-1221							NR
Aroclor-1232							NR
Aroclor-1242							NR
Aroclor-1248							NR
Aroclor-1254							NR
Aroclor-1260							NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

SEMI-VOLATILES											
Sample ID No.	NYML-GW1	NYML-GW2	NYML-GW3	NYML-GW4(DUP)	NYML-GW5	NYML-GW6(MS/MSD)	NYML-S1(MS/MSD)	NYML-S2	NYML-S3	NYML-S4(DUP)	NYML-S5
Traffic Report No.	BFC14	BFC15	BFC16	BFC17	BFC18	BFC19	BFC24	BFC25	BFC26	BFC27	BFC28
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	7	68	13	13	16
Phenol											
bis(2-Chloroethyl)ether											
2-Chlorophenol											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
Benzyl alcohol											
1,2-Dichlorobenzene											
2-Methylphenol											
bis(2-Chloroisopropyl)ether											
4-Methylphenol											
N-Nitroso-di-n-dipropylamine											
Hexachloroethane											
Nitrobenzene											
Isophorone											
2-Nitrophenol											
2,4-Dimethylphenol											
Benzoic acid											
bis(2-Chloroethoxy)methane											
2,4-Dichlorophenol											
1,2,4-Trichlorobenzene											
Naphthalene											
4-Chloroaniline											
Hexachlorobutadiene											
4-Chloro-3-Methylphenol											
2-Methylnaphthalene											
Hexachlorocyclopentadiene											
2,4,6-Trichlorophenol											
2,4,5-Trichlorophenol											
2-Chloronaphthalene											
2-Nitroaniline											
Dimethylphthalate											
Acenaphthylene											
2,6-Dinitrotoluene											
3-Nitroaniline											
Acenaphthene											
2,4-Dinitrophenol											
4-Nitrophenol											
Dibenzofuran											
2,4-Dinitrotoluene											
Diethylphthalate											
4-Chlorophenyl-phenyl ether											
Fluorene											
4-Nitroaniline											
4,6-Dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-Bromophenyl-phenyl ether											
Hexachlorobenzene											

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

SEMI-VOLATILES											
Sample ID No.	NYML-GW1	NYML-GW2	NYML-GW3	NYML-GW4(DUP)	NYML-GW5	NYML-GW6(MS/MSD)	NYML-S1(MS/MSD)	NYML-S2	NYML-S3	NYML-S4(DUP)	NYML-S5
Traffic Report No.	BFC14	BFC15	BFC16	BFC17	BFC18	BFC19	BFC24	BFC25	BFC26	BFC27	BFC28
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	--	--	--	--	--	--	7	68	13	13	16
Pentachlorophenol											
Phenanthrene											
Anthracene											
Di-n-butylphthalate											
Fluoranthene											
Pyrene											
Butylbenzylphthalate											
3,3'-Dichlorobenzidine											
Benzo(a)anthracene											
Chrysene											
bis(2-Ethylhexyl)phthalate											
Di-n-octylphthalate											
Benzo(b)fluoranthene											
Benzo(k)fluoranthene											
Benzo(a)pyrene											
Indeno(1,2,3-cd)pyrene											
Dibenz(a,h)anthracene											
Benzo(g,h,i)perylene											

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

SEMI-VOLATILES							
Sample ID No.	NYML-S6	NYML-S7	NYML-RIN1	NYML-RIN2	NYML-RIN3	NYML-RIN4	NYML-TBLK1
Traffic Report No.	BFC29	BFC30	BFC34	BFC35	BFC36	BFC37	BFC38
Matrix	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	N/A
Percent Moisture	16	12	--	--	--	--	N/A
Phenol							NR
bis(2-Chloroethyl)ether							NR
2-Chlorophenol							NR
1,3-Dichlorobenzene							NR
1,4-Dichlorobenzene							NR
Benzyl alcohol							NR
1,2-Dichlorobenzene							NR
2-Methylphenol							NR
bis(2-Chloroisopropyl)ether							NR
4-Methylphenol							NR
N-Nitroso-di-n-dipropylamine							NR
Hexachloroethane							NR
Nitrobenzene							NR
Isophorone							NR
2-Nitrophenol							NR
2,4-Dimethylphenol							NR
Benzoic acid							NR
bis(2-Chloroethoxy)methane							NR
2,4-Dichlorophenol							NR
1,2,4-Trichlorobenzene							NR
Naphthalene							NR
4-Chloroaniline							NR
Hexachlorobutadiene							NR
4-Chloro-3-Methylphenol							NR
2-Methylnaphthalene							NR
Hexachlorocyclopentadiene							NR
2,4,6-Trichlorophenol							NR
2,4,5-Trichlorophenol							NR
2-Chloronaphthalene							NR
2-Nitroaniline							NR
Dimethylphthalate							NR
Acenaphthylene							NR
2,6-Dinitrotoluene							NR
3-Nitroaniline							NR
Acenaphthene							NR
2,4-Dinitrophenol							NR
4-Nitrophenol							NR
Dibenzofuran							NR
2,4-Dinitrotoluene							NR
Diethylphthalate							NR
4-Chlorophenyl-phenyl ether							NR
Fluorene							NR
4-Nitroaniline							NR
4,6-Dinitro-2-methylphenol							NR
N-nitrosodiphenylamine							NR
4-Bromophenyl-phenyl ether							NR
Hexachlorobenzene							NR

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130 LAB: ANAMETRIX, INC.

SEMI-VOLATILES							
Sample ID No.	NYML-S6	NYML-S7	NYML-RIN1	NYML-RIN2	NYML-RIN3	NYML-RIN4	NYML-TBLK1
Traffic Report No.	BFC29	BFC30	BFC34	BFC35	BFC36	BFC37	BFC38
Matrix	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	N/A
Percent Moisture	16	12	--	--	--	--	N/A
Pentachlorophenol							NR
Phenanthrene							NR
Anthracene							NR
Di-n-butylphthalate							NR
Fluoranthene							NR
Pyrene							NR
Butylbenzylphthalate							NR
3,3'-Dichlorobenzidine							NR
Benzo(a)anthracene							NR
Chrysene							NR
bis(2-Ethylhexyl)phthalate							NR
Di-n-octylphthalate							NR
Benzo(b)fluoranthene							NR
Benzo(k)fluoranthene							NR
Benzo(a)pyrene							NR
Indeno(1,2,3-cd)pyrene							NR
Dibenz(a,h)anthracene							NR
Benzo(g,h,i)perylene							NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130
LAB NAME: SKINNER & SHERMAN

INORGANICS Sample ID No. Traffic Report No. Matrix Units	NYML-GW1 MBDH66 WATER ug/L	NYML-GW2 MBDH67 WATER ug/L	NYML-GW3 MBDH81 WATER ug/L	NYML-GW4(DUP) MBDH82 WATER ug/L	NYML-GW5 MBDH83 WATER ug/L	NYML-GW6(MS/MSD) MBDH84 WATER ug/L	NYML-S1(MS/MSD) MBDH89 SOIL mg/kg	NYML-S2 MBDH90 SOIL mg/kg	NYML-S3 MBDH91 SOIL mg/kg	NYML-S4(DUP) MBDH92 SOIL mg/kg	NYML-S5 MBDH93 SOIL mg/kg
Aluminum	J	62700	6930	8790			3130	3440 E	3400	3600	3360
Antimony											
Arsenic		11.6	J	J		J	2.7	J	J	J	2.3
Barium	J	394 E	J	J		J	48	J	J	J	J
Beryllium		J	J	J							
Cadmium											
Calcium	47000	406000	108000	115000	J	60600	61500	36500 E	49600	59700	49000
Chromium	J	232	28.3 E	18.8 E			4	10.9 E	5.4	4.2	5
Cobalt		68.5	J	J			J		J	27.7 E	J
Copper	48	174	32.4	32.1	J	J	8.7 E	21.1 E	7 E	14.7 E	5.4
Iron	J	129000 E	18200 E	19700 E	600 E	2190 E	7890	3450 E	9610	7890	8610
Lead	J	74.4	14.7 E	17.6 E	4.2 E	J	6.1 E	5.9 E	R	R	R
Magnesium	17100	144000	25300	28500	J	23800	17100	J	13300	20300	12000
Manganese	J	R	R	R	J	R	R	R	R	R	R
Mercury					0.44						
Nickel		132	52.8	58.4	J		J	J	J	28.3 E	J
Potassium	J	10200	J	J	J	J	J	J	J	J	J
Selenium											
Silver											
Sodium	J	7860 E	J	J	180000 E	6230 E	J	J	J	J	J
Thallium											
Vanadium		128	J	J			J	J	J	J	J
Zinc	R	R	R	R	R	R	R	R	R	R	R

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

SITE NAME: FINCH PRUYN
TDD#: 02-9008-26
SAMPLING DATE: 10/18/90
EPA CASE NO.: 15130
LAB NAME: SKINNER & SHERMAN

INORGANICS	NYML-S6	NYML-S7	NYML-RIN1	NYML-RIN2	NYML-RIN3	NYML-RIN4	NYML-TBLK1
Sample ID No.	MBDH94	MBDH95	MBDH99	MBDW01	MBDW02	MBDD17	N/A
Traffic Report No.	SOIL	SOIL	WATER	WATER	WATER	WATER	N/A
Matrix	mg/kg	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Units							
Aluminum	9130	3670	J				NR
Antimony							NR
Arsenic	3.5	2.4					NR
Barium	108	J					NR
Beryllium							NR
Cadmium							NR
Calcium	1710	24900	J	J	J	J	NR
Chromium	13.6	5.6					NR
Cobalt	J	J					NR
Copper	5.8	6.6 E				J	NR
Iron	13800	9280					NR
Lead	R	R	3.2 E	J			NR
Magnesium	1820	9420					NR
Manganese	R	R	J	J	J	J	NR
Mercury							NR
Nickel	11.7	J				J	NR
Potassium	J	J					NR
Selenium	R	J				J	NR
Silver							NR
Sodium	J	J					NR
Thallium							NR
Vanadium	19.1 E	J					NR
Zinc	R	R	R	R	R	R	NR

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

SAMPLING TRIP REPORT

SITE NAME: Finch Pruyn

TDD NO.: 02-9008-26

SAMPLING DATE: October 18, 1990

EPA CASE NO.: 15130

1. Site Location: See Figure 1

2. Sample Locations: See Figures 2 and 3

3. Sample Descriptions: See Table 1

4. Laboratories Receiving Samples:

Sample Type	Name and Address of Laboratory
Organic	Anametrix, Inc. 1961 Concourse Drive Suite E San Jose, CA 95131
Inorganic	Skinner & Sherman, Inc. 300 Second Avenue Waltham, MA 02254

5. **Sample Dispatch Data:**

A total of 7 soil and 11 aqueous samples for organic analysis were shipped by FIT 2 personnel via Federal Express under Airbill No. 7821825605 to Anametrix, Inc. October 18, 1990 at approximately 1930 hours.

A total of 7 soil and 10 aqueous samples for inorganic analysis were shipped by FIT 2 personnel via Federal Express under Airbill No. 7821825616 to Skinner & Sherman, Inc. on October 18, 1990 at approximately 1930 hours.

6. Sampling Personnel:

Name	Organization	Duties on Site
David Grupp	NUS Corporation, FIT 2	Site Manager, Written and Photographic Documentation/ Site Safety Officer for Groundwater Crew
Ed Knyfd	NUS Corporation, FIT 2	Site Safety Officer/ Documentation of Soil Sampling
Rich Settino	NUS Corporation, FIT 2	Sample Management Officer
Robert Cantagallo	NUS Corporation, FIT 2	Sampler
Tim Beauregard	NUS Corporation, FIT 2	Sampler
Dennis Foerter	NUS Corporation, FIT 2	Sampler

Other On-Site Personnel:

Philip J. Arthur, Environmental ControlManager	Finch Pruyn	Observation
Don Bovair	Finch Pruyn	Observation

7. Weather Conditions:

Overcast, temperature approximately 55° to 60°, slight wind from the southwest. Wind picked up during the day.

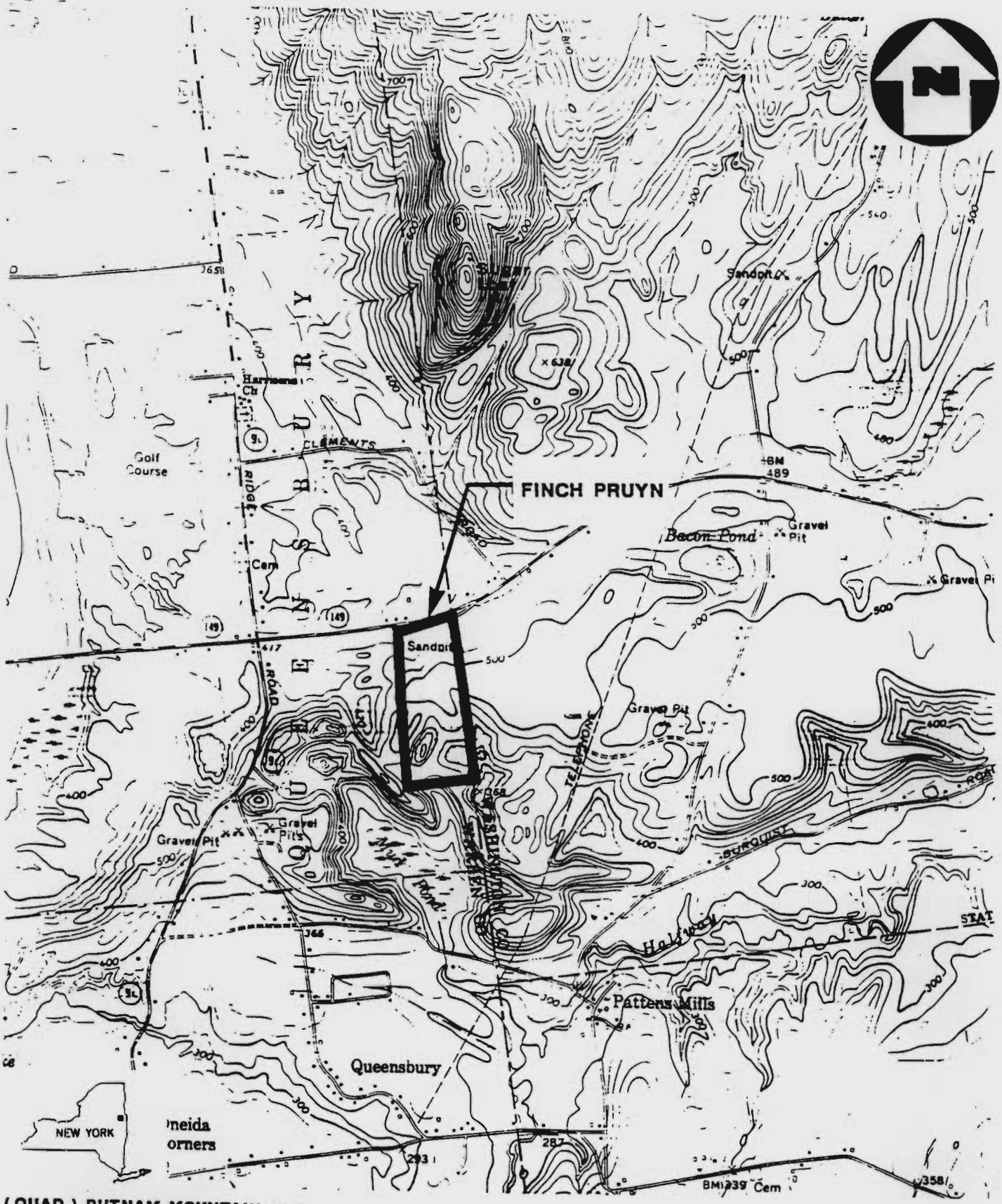
8. Additional Comments:

All samples will be analyzed for Target Compound List (TCL) organic compounds and TCL inorganic compounds, excluding cyanide, with the exception of the trip blank which will be analyzed for volatile organic compounds only.

Three groundwater samples were collected from on-site monitoring wells, one groundwater sample was collected from an on-site tap, and two groundwater samples were collected from off-site residential wells. One subsurface soil and six surface soil samples were collected from the site.

9. Report Prepared By: Susan Anderson Date: November 2, 1990

10. Approved By: Ron Naman Date: 11/15/90



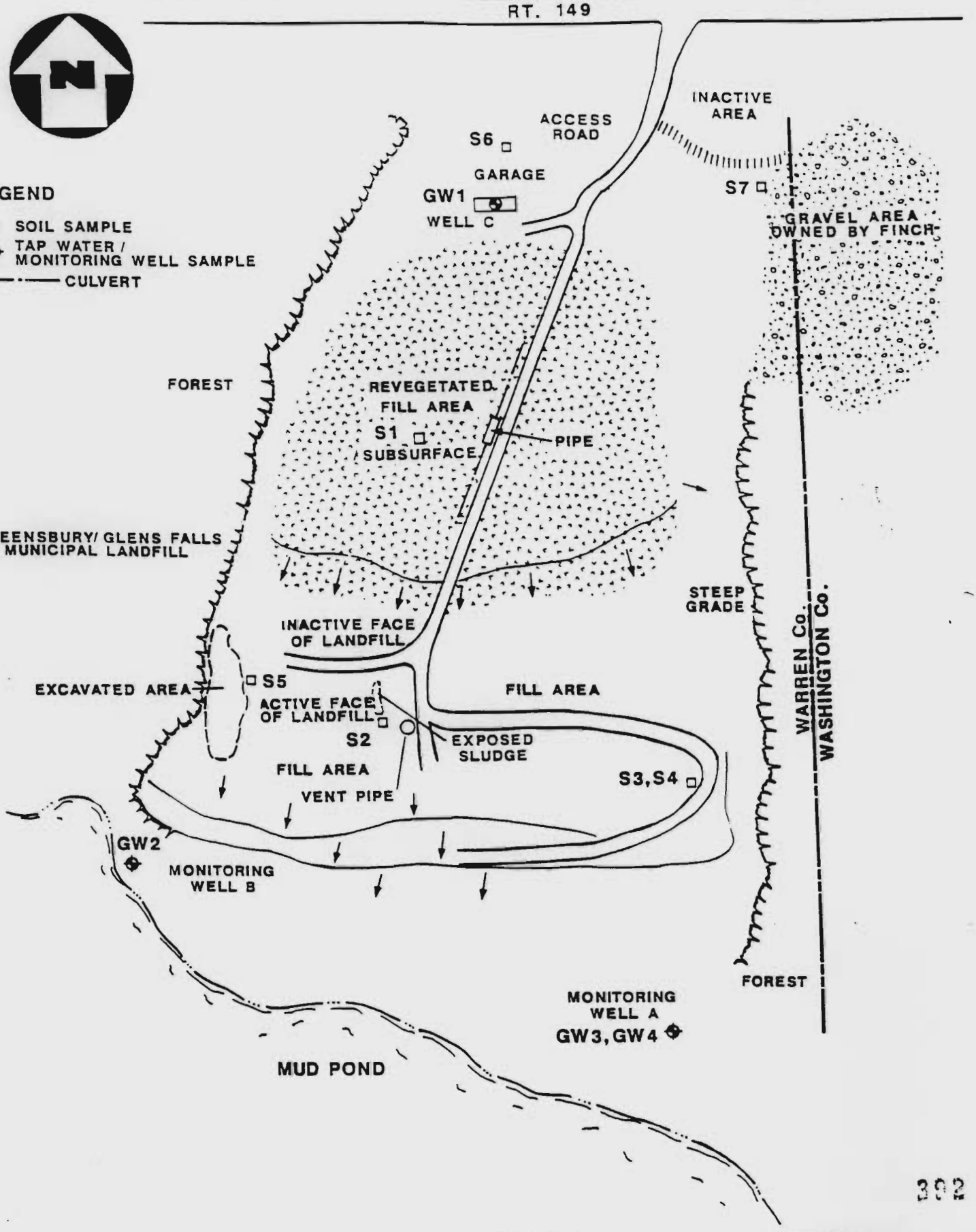
(QUAD) PUTNAM MOUNTAIN, N.Y.

FIGURE 1

SITE LOCATION MAP

FINCH PRUYN, QUEENSBURY, N.Y.

NUS CORPORATION



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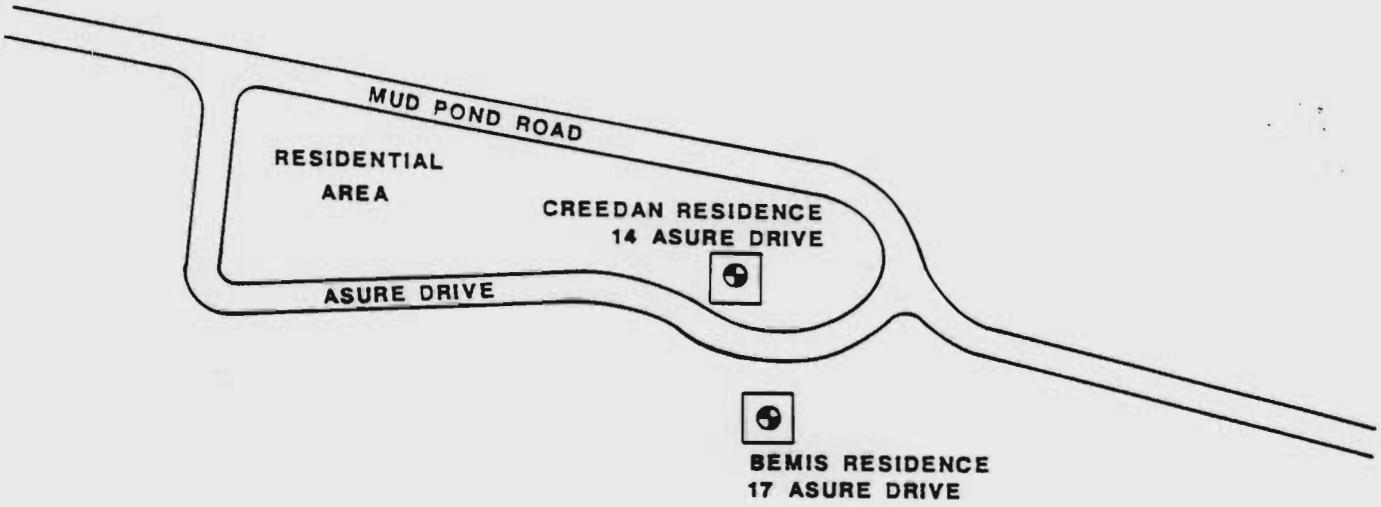
SAMPLE LOCATION MAP

FINCH PRUYN, QUEENSBURY, N.Y.

FIGURE 2

NUS



LEGEND

TAP WATER SAMPLE

OFF-SITE SAMPLE LOCATION MAP

FINCH PRUYN, QUEENSBURY, N.Y.

NOT TO SCALE

FIGURE 3

NUS CORPORATION

TABLE I
SAMPLE DESCRIPTIONS
FINCH PRUYN
QUEENSBURY, NEW YORK
CASE NO. 15130

NUS Sample Number	CLP Organic Sample Number	CLP Inorganic Sample Number	Collection Time	Sample Type	Sample Location
NYML-GW1	BFC-14	MBDH-66	1508	Aqueous	Groundwater sample collected from a tap located in the office building on site.
NYML-GW2	BFC-15	MBDH-67	1412	Aqueous	Groundwater sample collected from downgradient monitoring well MW-B. Located on the southwest portion of the landfill near Mud Pond.
NYML-GW3	BFC-16	MBDH-81	1200	Aqueous	Groundwater sample collected from downgradient monitoring well MW-A . Located on the southeast portion of the landfill near Mud Pond.
NYML-GW4**	BFC-17	MBDH-82	1200	Aqueous	Environmental duplicate sample collected at the same location as NYML-GW3.
NYML-GW5	BFC-18	MBDH-83	1705	Aqueous	Tap water sample collected from a private well located at 14 Asure Drive (Creedan residence).
NYML-GW6*	BFC-19	MBDH-84	1625	Aqueous	Tap water sample collected from a private well located at 17 Asure Drive (Bemis residence).

* MS/MSD - Indicates that additional sample volume was collected and shipped to the laboratory for matrix spike (MS) and matrix spike duplicate (MSD) analysis.

** Duplicate- Indicates that a sample was collected as an enviromental duplicate.

TABLE I (CONT'D)
SAMPLE DESCRIPTIONS
FINCH PRUYN
QUEENSBURY, NEW YORK
CASE NO. 15130

NUS Sample Number	CLP Organic Sample Number	CLP Inorganic Sample Number	Collection Time	Sample Type	Sample Location
NYML-SI*	BFC-24	MBDH-89	1125	Soil	Subsurface soil sample collected from the inactive revegetated fill area. Located at a bearing of 255° and a distance of 100 feet west of the culvert pipe opening along the access road. Sample collected at an interval of approximately 12 to 24 inches.
NYML-S2	BFC-25	MBDH-90	1210	Soil	Surface soil sample collected from the active face of the landfill. Located at a bearing of 281° and a distance of 67.1 feet from a vent pipe near the "Y" in the main landfill road. Sample collected at an interval of approximately 0 to 6 inches.
NYML-S3	BFC-26	MBDH-91	1245	Soil	Surface soil sample collected from the southeast portion of the landfill. Located in a drainage ditch along the main access road and at the edge of the landfill. Sample collected at on interval of approximately 0 to 6 inches.
NYML-S4**	BFC-27	MBDH-92	1245	Soil	Environmental duplicate sample collected at the same location as NYML-S3.

* MS/MSD - Indicates that additional sample volume was collected and shipped to the laboratory for matrix spike (MS) and matrix spike duplicate (MSD) analysis.

** Duplicate- Indicates that a sample was collected as an environmental duplicate.

TABLE 1 (CONT'D)
SAMPLE DESCRIPTIONS
FINCH PRUYN
QUEENSBURY, NEW YORK
CASE NO. 15130

NUS Sample Number	Organic Sample Number	Inorganic Sample Number	Collection Time	Sample Type	Sample Location
NYML-S5	BFC-28	MBDH-93	1405	Soil	Soil sample collected from the western side of the active landfill face. Sample collected was a composite of three leachate streams. Each portion of the composite was collected at an interval of approximately 0 to 6 inches.
NYML-S6	BFC-29	MBDH-94	1445	Soil	Surface soil sample collected north of the landfill garage and office. Located at a bearing of 356° and a distance of 132 feet from the outside fuel tank structures. Soil sample collected at an interval of approximately 0 to 6 inches.
NYML-S7	BFC-30	MBDH-95	1530	Soil	Soil sample collected from a drainage ditch accepting leachate from the inactive northeast portion of the landfill. Located at a bearing of 67° and a distance of approximately 500 feet from the east side of the office building. Sample collected at an interval of approximately 0 to 6 inches.
NYML-RIN1	BFC-34	MBDH-99	1211	Aqueous	Trowel rinsate blank collected in the field.
NYML-RIN2	BFC-35	MBDW-01	1232	Aqueous	Bowl rinsate blank collected in the field.

TABLE 1 (CONT'D)
SAMPLE DESCRIPTIONS
FINCH PRUYN
QUEENSBURY, NEW YORK
CASE NO. 15130

NUS Sample Number	Organic Sample Number	Inorganic Sample Number	Collection Time	Sample Type	Sample Location
NYML-RIN3	BFC-36	MBDW-02	1045	Aqueous	Auger rinsate blank collected in the field.
NYML-RIN4	BFC-37	MBDD-17	1135	Aqueous	Bailer rinsate blank collected in the field.
NYML-TBLK1	BFC-38	N/A	N/A	Aqueous	Trip blank; analyte-free water obtained from NUS Region 2 FIT, Edison, New Jersey.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.2: Data Assessment Narrative

Date: Feb. 1990
Number: HW-2
Revision: 10

Case# 15130 Site FINCH PRUYN Matrix: Soil 7

SDG# MBDD17 Lab SKINER Water 10

Contractor NUS FIT-2 Reviewer JOHN BULICH Other —

A.2.1 The case description and exceptions, if any, are noted below with reason(s) for rejection or qualification as estimated value(s) J.

1) Correlation coefficient for Se calibration standards was 0.985, Pb was 0.994 and Tl was 0.993. Flag the following samples as estimated (J): Se → MBDH 90,99
Pb → MBDH 66,81-84,89,90,99, MBDW01,02 MBDD17
Tl → MBDH 66,67,81,82,84,89-95,99, MBDW01,02 MBDD17

2) CROL Std - Cr has recovery between 121-150%. Flag the following samples as estimated (J): Cr → MBDH 66,81,82
Zn has recovery >150%. Reject (red-line) the following samples:
Zn → MBDD17, MBDH 83,99, MBDW01,02

3) Pb would be flagged in samples MBDH 66,83,84,99 & MBDW01 due to CRA % Recovery between 121-150% but was previously flagged as per statement #1.

3) Soil Spiked Sample Recovery — Sb and Pb have recoveries between 10-74%. Flag the following samples as estimated (J):
Sb → MBDH 89-95 ~~Pb → MBDH 94~~
Tl would be flagged as estimated (J) in samples MBDH 89-95 because soil spike sample rec. fell between 10-74%, but was previously flagged as per statement 1.

A.2.1 (continuation) Pb would be flagged as est. (J) in samples MBDH 89 & 90 due to soil spike sample rec. between 10-74% but was previously flagged as per statement 1.

Mn has recovery less than 10%. Reject (red-line) the following samples: Mn → MBDH 89-95

4) ICP ICS — Sodium is not expected to be found in the ICS solution, it is considered a false positive value (> IDL) & therefore associated positive results should be flagged est. (J) in samples MBDH 66, 67, 81-84, 89-95

5) Field Duplicates (Soil) — Ni and Co have differences > 2 x CRDL. Flag the following samples as est. (J): Ni, Co → MBDH 91, 92

6) ICP Serial Dilution — Ba(H_2O), Fe(H_2O), Cu (soil), K (soil) & V (soil) have differences > 10% and are > 10 x IDL. Flag the following samples as est. (J):

Ba (H_2O) → MBDH 67, 81, 82, 84 Fe (H_2O) MBDH 67, 81-84

Cu (soil) → MBDH 89-92, 95 K (soil) → MBDH 89-91, 93-95

V (soil) → MBDH 89, 91-95

Mn (H_2O) & Zn (H_2O & soil) have differences > 100% and are > 10 x IDL. Reject (red-line) the following samples:

Mn (H_2O) → MBDH 67, 81, 82, 84 Zn (H_2O) → MBDH 66, 67, 81, 82, 84

Zn (soil) → MBDH 89-95

7) MSA — Correlation coefficient is < 0.990. Reject (red-line) the following sample: Se (soil) → MBDH 94

A.2.1 (continuation)

8) Field Blanks — Pb is > CRDL. Reject (red-line) the following samples: Pb → MBDH 91-93, 94, 95

9) % solids — Sample MBDH 90 has solids content < 50%. Flag as estimated (J) the following analytes: Al, As, Ba, Be, Cd, Ca, Cr, Co, Fe, Mg, Hg, Ni, Ag & V.

A.2.2 Contract-Problems/Non-Compliance

1) Spike Added (SA) concentrations on Form 5As should be reported to one decimal place not two.
2) All times on ICP instrument run log do not match times in raw data.
3) Samples were diluted beyond contract requirements and the dilutions were not noted on Form I's! MBDH83 Tl(5x) MBDH67 Se(5x) MBDH67 Pb(2x) MBDH94 Pb(10x)

MMB Reviewer: _____ Date: _____
Signature

Contractor Reviewer: John Bulich Date: Dec. 27, 1990
Signature

Verified by: _____ Date: 1-24-91

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0068

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDW17

SOW No.: 7/88

EPA Sample No.	Lab Sample ID.
MBDW02	10176-17S

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

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 hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirk Johnson Name: Kirk D. Johnson

Date: 11/19/90 Title: Inorganic Data Auditor

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

IW No.: 7/88

EPA Sample No.	Lab Sample ID.
MBDD17	10176-01S
MBDH66	10176-02S
MBDH67	10176-03S
MBDH81	10176-04S
MBDH82	10176-05S
MBDH83	10176-06S
MBDH84	10176-07S
MBDH84D	10176-07S2
MBDH84S	10176-07DS
MBDH89	10176-08S
MBDH89D	10176-08S2
MBDH89S	10176-08DS
MBDH90	10176-09S
MBDH91	10176-10S
MBDH92	10176-11S
MBDH93	10176-12S
MBDH94	10176-13S
MBDH95	10176-14S
MBDH99	10176-15S
MBDW01	10176-16S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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 hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirk Johnson Name: Kirk D. Johnson

Date: 11/19/90 Title: Inorganic Data Auditor

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH66

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-02S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	165.00	B		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	14.00	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	47000.00			P
7440-47-3	Chromium	5.40	B		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	48.00			P
7439-89-6	Iron	71.50	B	E	P
7439-92-1	Lead	3.00	B		F
7439-95-4	Magnesium	17100.00			P
7439-96-5	Manganese	1.40	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	785.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	2820.00	B		P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~184.00~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

404

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH67

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0033

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-03S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	62700.00			P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	11.60			F
7440-39-3	Barium	394.00		E	P
7440-41-7	Beryllium	3.60	B		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	406000.00			P
7440-47-3	Chromium	232.00			P
7440-48-4	Cobalt	68.50			P
7440-50-8	Copper	174.00			P
7439-89-6	Iron	129000.00		E	P
7439-92-1	Lead	74.40			F
7439-95-4	Magnesium	144000.00			P
7439-96-5	Manganese	~~3320.00~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	132.00			P
7440-09-7	Potassium	10200.00			P
7782-49-2	Selenium	10.00	U	MW	F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	7860.00		E	P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	128.00			P
7440-66-6	Zinc	~~332.00~~			P
	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: BROWN Clarity After: OPAQUE Artifacts:

Comments:

405

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH81

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-04S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6930.00			P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	5.20	B		F
7440-39-3	Barium	65.20	B	J	P
7440-41-7	Beryllium	1.60	B		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	108000.00			P
7440-47-3	Chromium	28.30		J	P
7440-48-4	Cobalt	12.70	B		P
7440-50-8	Copper	32.40			P
7439-89-6	Iron	18200.00		E	P
7439-92-1	Lead	14.70			F
7439-95-4	Magnesium	25300.00			P
7439-96-5	Manganese	~~725.00~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	52.80			P
7440-09-7	Potassium	2200.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	2000.00	B		P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	18.40	B		P
7440-66-6	Zinc	~~97.70~~			P
	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: BROWN Clarity After: OPAQUE Artifacts:

Comments:

406

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1 EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MBDH82

Lab Name: SKINNER & SHEPMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-05S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8790.00			P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	6.40	B		F
7440-39-3	Barium	76.60	B		P
7440-41-7	Beryllium	1.20	B		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	115000.00			P
7440-47-3	Chromium	18.80			P
7440-48-4	Cobalt	13.30	B		P
7440-50-8	Copper	32.10			P
7439-89-6	Iron	19700.00		E	P
7439-92-1	Lead	17.60			F
7439-95-4	Magnesium	28500.00			P
7439-96-5	Manganese	~~802.00~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	58.40			P
7440-09-7	Potassium	2850.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	2220.00	B		P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	21.20	B		P
7440-66-6	Zinc	~~101.00~~			P
	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: BROWN Clarity After: OPAQUE Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH83

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D0-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-06S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.00	U		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	2.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	346.00	B		P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	16.40	B		P
7439-89-6	Iron	600.00		E	P
7439-92-1	Lead	4.20			F
7439-95-4	Magnesium	191.00	B		P
7439-96-5	Manganese	5.40	B		P
7439-97-6	Mercury	0.44			CV
7440-02-0	Nickel	6.60	B		P
7440-09-7	Potassium	164.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	180000.00			P
7440-28-0	Thallium	10.00	U	W	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	47.00			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1 EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MBDH84

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-03-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-07S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.00	U		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.30	B		F
7440-39-3	Barium	26.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	60600.00			P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	6.00	B		P
7439-89-6	Iron	2190.00		E	P
7439-92-1	Lead	2.10	B		F
7439-95-4	Magnesium	23800.00			P
7439-96-5	Manganese	~~60.60~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	1200.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	6230.00			P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~196.00~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

409

EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH89

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-085

Level (low/med): LOW Date Received: 10/19/90

% Solids: 93.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3130.00			P
7440-36-0	Antimony	5.70	U	N J	P
7440-38-2	Arsenic	2.70			F
7440-39-3	Barium	48.00			P
7440-41-7	Beryllium	0.19	U		P
7440-41-7	Cadmium	0.57	U		P
7440-70-2	Calcium	61500.00			P
7440-47-3	Chromium	4.00			P
7440-48-4	Cobalt	4.20	B		P
7440-50-8	Copper	8.70		J	P
7439-89-6	Iron	7890.00			P
7439-92-1	Lead	6.10		N* J	F
7439-95-4	Magnesium	17100.00			P
7439-96-5	Manganese	~~309.00~~		~~N*~~	F
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	6.20	B		P
7440-09-7	Potassium	297.00	B	J	P
7782-49-2	Selenium	0.38	U		F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium	64.20	B	J	P
7440-28-0	Thallium	0.38	U	NW J	F
7440-62-2	Vanadium	8.60	B	J	P
7440-66-6	Zinc	~~19.10~~			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ROOTS

410

000010

EPA

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH90

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0080

Lab Code: SKINER Case No.: 19130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-09S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 30.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3440.00			P
7440-36-0	Antimony	17.60	U	N	P
7440-38-2	Arsenic	1.50	B		F
7440-39-3	Barium	77.30	B		P
7440-41-7	Beryllium	0.59	U		P
7440-41-7	Cadmium	1.80	U		P
7440-70-2	Calcium	36500.00			P
7440-47-3	Chromium	10.90			P
7440-48-4	Cobalt	4.10	U		P
7440-50-8	Copper	21.10			P
7439-89-6	Iron	3450.00			P
7439-92-1	Lead	5.90		N*	F
7439-95-4	Magnesium	1650.00	B		P
7439-96-5	Manganese	~~859.00~~		N*	P
7439-97-6	Mercury	0.28	U		CV
7440-02-0	Nickel	9.60	B		P
7440-09-7	Potassium	2100.00	B		P
7782-49-2	Selenium	1.10	U	W	F
7440-22-4	Silver	2.90	U		P
7440-23-5	Sodium	677.00	B		P
7440-28-0	Thallium	1.10	U	NW	F
7440-62-2	Vanadium	7.10	B		P
7440-66-6	Zinc	~~82.90~~			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: FINE

Color After: BLACK Clarity After: Artifacts: YES

Comments:

MOLDY. ROTTING PAPER

411

000011

FORM I - IN 7/88

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MBDH91

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0038

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-10S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 87.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3400.00			P
7440-36-0	Antimony	6.00	U	NJ	P
7440-38-2	Arsenic	1.40	B		F
7440-39-3	Barium	17.40	B		P
7440-41-7	Beryllium	0.20	U		P
7440-41-7	Cadmium	0.60	U		P
7440-70-2	Calcium	49600.00			P
7440-47-3	Chromium	5.40			P
7440-48-4	Cobalt	4.00	B	J	P
7440-50-8	Copper	7.00		J	P
7439-89-6	Iron	9610.00			P
7439-92-1	Lead	~~1.90~~		~~N*~~	F
7439-95-4	Magnesium	13300.00			P
7439-96-5	Manganese	~~162.00~~		~~N*~~	P
7439-97-6	Mercury	0.09 ~~0.10~~	U		CV
7440-02-0	Nickel	KDF 11/14/90 6.50	B	J	P
7440-09-7	Potassium	380.00	B	J	P
7782-49-2	Selenium	0.41	U		F
7440-22-4	Silver	1.00	U		P
7440-23-5	Sodium	110.00	B	J	P
7440-28-0	Thallium	0.41	U	NW	F
7440-62-2	Vanadium	8.90	B	J	P
7440-66-6	Zinc	~~27.70~~		J	P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

412

000012

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH92

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-04-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-113

Level (low/med): LOW Date Received: 10/19/90

% Solids: 84.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3600.00			P
7440-36-0	Antimony	6.60	U	NJ	P
7440-38-2	Arsenic	2.00	B		F
7440-39-3	Barium	17.90	B		P
7440-41-7	Beryllium	0.22	U		P
7440-41-7	Cadmium	0.66	U		P
7440-70-2	Calcium	59700.00			P
7440-47-3	Chromium	4.20			P
7440-48-4	Cobalt	27.70		J	P
7440-50-8	Copper	14.70		J	P
7439-89-6	Iron	7890.00			P
7439-92-1	Lead	~~1.90~~		~~N*~~	F
7439-95-4	Magnesium	20300.00			P
7439-96-5	Manganese	~~2550.00~~		~~N*~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	28.30		J	P
7440-09-7	Potassium	242.00	B		P
7782-49-2	Selenium	0.45	U		F
7440-22-4	Silver	1.10	U		P
7440-23-5	Sodium	77.10	B		P
7440-28-0	Thallium	0.45	U	NW	F
7440-62-2	Vanadium	7.20	B		P
7440-66-6	Zinc	~~47.30~~			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

413

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH93

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-12S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 81.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3360.00			P
7440-36-0	Antimony	5.80	U	NJ	P
7440-38-2	Arsenic	2.30			F
7440-39-3	Barium	25.50	B		P
7440-41-7	Beryllium	0.19	U		P
7440-41-7	Cadmium	0.58	U		P
7440-70-2	Calcium	49000.00			P
7440-47-3	Chromium	5.00			P
7440-48-4	Cobalt	4.40	B		P
7440-50-8	Copper	5.40			P
7439-89-6	Iron	8610.00			P
7439-92-1	Lead	~~2.60~~		~~N*~~	F
7439-95-4	Magnesium	12000.00			P
7439-96-5	Manganese	~~303.00~~		~~N*~~	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.70	B		P
7440-09-7	Potassium	474.00	B	J	P
7782-49-2	Selenium	0.38	U		F
7440-22-4	Silver	0.97	U		P
7440-23-5	Sodium	74.60	B	J	P
7440-28-0	Thallium	0.38	U	NWJ	F
7440-62-2	Vanadium	8.20	B		P
7440-66-6	Zinc	~~20.80~~			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

414

000014

EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH94

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D0-0028

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-13S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 83.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9130.00			P
7440-36-0	Antimony	6.60	U	N	P
7440-38-2	Arsenic	3.50			F
7440-39-3	Barium	108.00			P
7440-41-7	Beryllium	0.22	U		P
7440-41-7	Cadmium	0.66	U		P
7440-70-2	Calcium	1710.00			P
7440-47-3	Chromium	13.60			P
7440-48-4	Cobalt	6.30	B		P
7440-50-8	Copper	5.30			P
7439-89-6	Iron	13800.00			P
7439-92-1	Lead	~~24.80~~		~~N*~~	F
7439-95-4	Magnesium	1820.00			P
7439-96-5	Manganese	~~930.00~~		~~N*~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	11.70			P
7440-09-7	Potassium	353.00	B	J	P
7782-49-2	Selenium	~~0.92~~	~~B~~		F
7440-22-4	Silver	1.10	U		P
7440-23-5	Sodium	31.30	B	J	P
7440-28-0	Thallium	0.44	U	N	F
7440-62-2	Vanadium	19.10		J	P
7440-66-6	Zinc	~~45.10~~			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ROOTS

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MBDH95

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D0-0038

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): SOIL Lab Sample ID: 10176-14S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 84.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3670.00			P
7440-36-0	Antimony	5.60	U	NJ	P
7440-38-2	Arsenic	2.40			F
7440-39-3	Barium	20.10	B		P
7440-41-7	Beryllium	0.19	U		P
7440-41-7	Cadmium	0.56	U		P
7440-70-2	Calcium	24900.00			P
7440-47-3	Chromium	5.60			P
7440-48-4	Cobalt	4.80	B		P
7440-50-8	Copper	6.60		J	P
7439-89-6	Iron	9280.00			P
7439-92-1	Lead	~~2.80~~		~~N*~~	F
7439-95-4	Magnesium	9420.00			P
7439-96-5	Manganese	~~310.00~~		~~N*~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	6.30	B		P
7440-09-7	Potassium	368.00	B	J	P
7782-49-2	Selenium	- 0.43	B	W	F
7440-22-4	Silver	0.94	U		P
7440-23-5	Sodium	78.20	B	J	P
7440-28-0	Thallium	0.40	U	NWJ	F
7440-62-2	Vanadium	8.70	B	J	P
7440-66-6	Zinc	~~18.30~~		--	P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: FINE

Color After: BLACK Clarity After: Artifacts: YES

Comments:

ROCKS

416

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDH99

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBD017

Matrix (soil/water): WATER Lab Sample ID: 10176-15S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.90	B		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	2.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	29.20	B		P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	3.00	U		P
7439-89-6	Iron	10.00	U	E	P
7439-92-1	Lead	3.20		J	F
7439-95-4	Magnesium	64.00	U		P
7439-96-5	Manganese	2.80	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	134.00	U		P
7782-49-2	Selenium	2.00	U	J	F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	48.00	U		P
7440-28-0	Thallium	2.00	U	J	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~61.50~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

417

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDW01

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-16S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.00	U		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	2.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	38.20	B		P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	3.00	U		P
7439-89-6	Iron	10.00	U	E	P
7439-92-1	Lead	3.00	B		F
7439-95-4	Magnesium	64.00	U		P
7439-96-5	Manganese	2.80	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	134.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	48.00	U		P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~67.20~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

418

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDW02

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-09-0088

Lab Code: SKINER Case No.: 15130 SAS No.: SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-17S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.00	U		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	2.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	20.20	B		P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	3.00	U		P
7439-89-6	Iron	10.00	U	E	P
7439-92-1	Lead	2.00	U	J	F
7439-95-4	Magnesium	64.00	U		P
7439-96-5	Manganese	2.60	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	134.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	48.00	U		P
7440-28-0	Thallium	2.00	U	J	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~44.60~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

4.9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBDD17

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0088

Lab Code: SKINER Case No.: 15130 SAS No. SDG No.: MBDD17

Matrix (soil/water): WATER Lab Sample ID: 10176-01S

Level (low/med): LOW Date Received: 10/19/90

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.00	U		P
7440-36-0	Antimony	30.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	2.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	49.40	B		P
7440-47-3	Chromium	5.00	U		P
7440-48-4	Cobalt	7.00	U		P
7440-50-8	Copper	9.50	B		P
7439-89-6	Iron	10.00	U	E	P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	64.00	U		P
7439-96-5	Manganese	2.60	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.10	B		P
7440-09-7	Potassium	134.00	U		P
7782-49-2	Selenium	3.50	B	W	F
7440-22-4	Silver	5.00	U		P
7440-23-5	Sodium	48.00	U		P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	~~61.00~~			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ATTACHMENT 1
SOP NO. HW-6

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TOTAL REVIEW

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organics Analysis

Case No. 15130 SDG No. BFC14 LABORATORY ~~Anamebrix~~ SITE Finch Pensyn

DATA ASSESSMENT:

The current functional guidelines (1988) for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "U" (non-detects), "R" (unusable),or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Reviewer's Signature: Dorothy Marian Ponte Date: 12/12/1990

Verified By: Susan Lewczyk Date: 12/14/1990

ATTACHMENT 1
SOP NO. HW-6

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DATA ASSESSMENT:

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

VOA-soil- due to professional judgement, no action was taken for holding time exceedence for samples BFC24, 25, 26, 28, 29, 27, 30. Holding time had been exceeded by 1 day for these samples.

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ATTACHMENT 1
SOP NO. HW-6

DATA ASSESSMENT:

2. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip field, rinse and water blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross- contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for the common contaminants), the analytes are qualified as non- detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method blank contamination

VOA-soil- methylene chloride was flagged non detected 'U' in sample BFC25, 26, 27, 28, BFC30, (This analyte was rejected later in sample BFC29 due to bubbles in both the VOA vials)

B) Field or rinse blank contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

C) Trip blank contamination

ATTACHMENT 1
SOP NO. HW-6

DATA ASSESSMENT:

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl- phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable, "R".

DATA ASSESSMENT:

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) RESPONSE FACTOR:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be $\geq$ 0.05 in both the initial and continuing calibrations. A value $<$ 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected ("R").

ATTACHMENT 1
SOP NO. HW-6

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DATA ASSESSMENT:

5. CALIBRATION:

A) PERCENT RELATIVE STANDARD DEVIATION '%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ" (if %D or RSD >50%). If there is a gross deviation of %RSD and %D, the non-detects may be rejected ("R").

For the PCB/PESTICIDE fraction, %RSD for aldrin, endrin, DDT, and dibutylchlorendate must not exceed 10%. Percent D must be within 15% on the quantitation column.

VOA-soil- the %D for cis-1,3-dichloropropane was greater than 50% but <90% in samples BFC 24,26,27,28,29,30 The analyte was qualified estimated 'J' in these samples. (This analyte was later rejected in sample BFC29 due to bubbles in VOA vials).

-water- the %D for trans-1,3-dichloropropane was greater than 50% but <90% in sample BFC18. The analyte was qualified estimated 'J' in this sample.

- the %D for chloromethane was >50% but <90% in samples BFC 14,15,16,17,19,34,35,36,37,38. The analyte was qualified estimated 'J' in these samples. (This analyte was later rejected in samples BFC14,19 due to bubbles in VOA vials).

- the %D for bromomethane was >50% but <90% in samples BFC 14,15,16,17,19,34,35,36,37,38. The analyte was qualified 'J' estimated in these samples. (This analyte was later rejected in samples BFC14,19 due to bubbles in the VOA vials).

BNA-soil- the %D for 4-Nitrophenol was greater than 50% but <90% in samples BFC 27,28,29,30. The analyte was qualified estimated 'J' in these samples.

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VOA-water- the %D for Trans-1,3-dichloropropene was >50% but <90% in sample BFC18. The analyte was qualified estimated 'J' in these samples.

ATTACHMENT
SOP NO. HW-6

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DATA ASSESSMENT:

6. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

BNA-soil- all analytes in sample BFC24 were qualified estimated 'J' due to two base neutral surrogates outside QC limits.
-The lab reported Si-nitrobenzene-d5 2& 23 (within QC limits), however the calculated value for this surrogate came to ~20.2.

DATA ASSESSMENT:

7. INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

VOA-soil- chlorobenzene-d5 (internal standard # 3) was < Q.A/QC criteria in sample BFC25. The analytes associated with this internal standard were previously flagged due to soil % moisture exceedance., therefore no further action was taken.

DATA ASSESSMENT:

8. COMPOUND IDENTIFICATION:

A) VOLATILE AND SEMI-VOLATILE FRACTIONS:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

B) PESTICIDE FRACTION:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract.

DATA ASSESSMENT:

9. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data.

ATTACHMENT 1
SOP NO. HW-6

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DATA ASSESSMENT:

10. OTHER QC DATA OUT OF SPECIFICATION:

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT (continued on next page if necessary):

VOA-soil- sample BFC25 -this surface soil semple contained more than 50% water. All analytes were flagged estimated 'J'.

VOA- due to air bubbles contained in both vials all analytes were ~~flagged~~ rejected in samples BFC14,19,25,29

BNA- soil- sample BFC25 contained more than 50% water. All analytes were flagged estimated 'J'.

Pest- soil- sample BFC25 contained more than 50% water. All analytes were flagged estimated 'J'.

12. CONTRACT PROBLEMS____NON-COMPLIANCE:

VOA- GC/MS Tuning and Mass Form 5A - the lab reported incorrect values on Form 5A for BFB injection date 10/18/90, time 10:10 and BFB injection date 10/29/90, time 10:55 The %RA were within limits.

VOA- continuing calibration Check %D calculation were off by more than + or - 10%

VOA - There was a high acetone hit & a non detect ~~to~~ showing in the field duplicate samples.

13. This package contains re-extraction, re-analysis or dilution. Upon reviewing the QA results, the following form I(s) are identified to be used.

VOA-soil- sample BFC25 was reanalyzed due to one internal standard outside of QC limits. Use BFC25, do not use BFC25RE.

- a dilution reanalysis of sample BFC28 was done. Use samples BFC28, , do no use BFC28DL,

- a reanalysis of sample BFC29 was performed, use sample BFC29RE DP 12/04/90, do not use BFC29RE

DATA ASSESSMENT:

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT (continued):

(No. of Compounds/No. of Fractions (Samples)) Date: February 1989

Type of Review: Total Date: December 12, 1990 Case #: 15130

Project: Finch Pruyn Lab Name: Anamet

Reviewer's Initials: DP Number of Samples: 18

...ted ...all VOA ...als.

Analytes Rejected Due to Exceeding Review Criteria:

	Surrogates	Holding Time	Calibration	Contamination	ID	Other	Total # Samples	Total # Rejected/ Total # in all Samples
...ids (15)							17	0/255
...l (50)							17	0/850
...A (35)				6/6			18	6/630
...ST (20)							17	0/340
...l (7)							17	0/119
...D (1)							—	—

Analytes Estimated Due to Exceeding Review Criteria for:

			%D			% moisture >50% for soil		
...ids (15)			4/4				17	4/255
...l (50)							17	0/850
...A (35)			23/15			35/1	18	58/630
...ST (20)							17	0/340
...l (7)							17	0/119
...D (1)							—	—

DPO: [ ] ACTION [ ] FYI

Region 2

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO. 15130 LABORATORY Anamet

SDG NO. BFC14 DATA USER FIT 2

SOW _____ REVIEW COMPLETION DATE December 12, 1990

NO. OF SAMPLES 11 WATER 7 SOIL _____ OTHER

REVIEWER [ ] ESD [ ] ESAT [ ] OTHER. CONTRACT/CONTRACTOR _____

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	O	O	O	
2. GC-MS TUNE/ GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	O	O	O	
4. CONTINUING CALIBRATIONS	X	X	O	
5. FIELD BLANKS ("F" = not applicable)	O	O	O	
6. LABORATORY BLANKS	O	O	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC ("F" = not applicable)	F	F	F	
10. INTERNAL STANDARDS	O	O		
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	X	X	O	
14. OVERALL ASSESSMENT	X	X	O	

O = No problems or minor problems that do not affect data usability.
X = No more than *about* 5% of the data points are qualified as either estimated or unusable.
M = More than *about* 5% of the data points are qualified as estimated.
Z = More than *about* 5% of the data points are qualified as unusable.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: Bubbles and headspace were detected in VOA vials. This is indicative of poor sampling techniques.

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(TO, FROM, DATE, TIME, SUBJECT, SUMMARY OF COMMUNICATION, CONCLUSIONS, ACTION TAKEN OR REQUIRED, INFORMATION COPIES TO)

TO: GEORGE KARRAS

FROM: RSCC/ESAT

DATE: 11/28/90

TIME:

SUBJECT: CLP Organic Data Packages for Quality Assurance Review

SUMMARY OF COMMUNICATION:

Attached are the following CLP Organic/SAS Data Packages to be reviewed for Quality Assurance.

SITE	CASE/SAS NO.	LABORATORY	MATRIX	NO. of SAMPLES
FINCH PRUYN FITN/SI	15130	ANAMET	WATER	11
			SOIL	7

CONCLUSIONS, ACTION TAKEN OR REQUIRED:

435

INFORMATION COPIES TO:

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CASE NARRATIVE

Lab Name:	ANAMETRIX, INC.	Case No.:	15130
Contract No.:68-W8-0041		SDG No.:	BFC14
		SAS No.:	5511HQ

SDG Sample No's:	BFC14	BFC15	BFC16	BFC17
	BFC18	BFC19	BFC24	BFC25
	BFC26	BFC27	BFC28	BFC29
	BFC30	BFC34	BFC35	BFC36
	BFC37	BFC38		

Billable Re-analyses: BFC25

Reason: Sample BFC25 had one internal standard outside of QC limits for the volatile analysis. The sample was reanalyzed, but the internal standard was still outside of QC limits.

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 hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sarah Schoen
Laboratory Manager

11-20-90
Date

/4098

001

QUALITY CONTROL PROBLEMS:

VOA: The 58 ion was used to quantitate 4-methyl-2-pentanone, instead of the 43 ion, because of coelution with 2-chloroethylvinylether, a non-TCL compound.

Bromofluorobenzene was quantitated by ion 174, instead of ion 95, because of interference from 1,1,2,2-tetrachloroethane.

One internal standard area was outside of the limits for Sample BFC25. The sample was reanalyzed and the limits were again exceeded.

BNA: The water method blank was contaminated with diethylphthalate at 94 µg/L. According to the SOW, all samples associated with the blank should be re-extracted and reanalyzed. Because the extraction hold time had been exceeded by a large amount of time, no reextraction was performed. Anametrix does not feel as though the data reported for these samples was compromised because no diethylphthalate was detected in any sample.

Pesticides:

A mega-bore capillary column, DB-608, was used for the primary analysis.

Sarah Schoen 11-20-90
Sarah Schoen Date
Laboratory Manager

Larry Kent 11-20-90
Larry Kent Date
Quality Assurance Manager

\4098

002

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC14

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3ER10247V01

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	UJR
74-83-9	BROMOMETHANE	10.	UJR
75-01-4	VINYL CHLORIDE	10.	UR
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	UR

Both VOA vials contain bubbles

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC15

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3ER10247V02

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

[illegible] COMPOUNDS

BFC16

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3ER10247V03

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC17

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V04

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC18

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V05

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/25/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY

EPA SAMPLE NO.

BFC19

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3ER10247V06

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q

CAS NO.	COMPOUND	UG/L	Q
74-87-3	CHLOROMETHANE	10.	UJ R
74-83-9	BROMOMETHANE	10.	UJ R
75-01-4	VINYL CHLORIDE	10.	U R
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U R

All 6 VOA vials contain bubble

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC24

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1EU10247V07

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 7. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	11.	U
74-83-9	BROMOMETHANE	11.	U
75-01-4	VINYL CHLORIDE	11.	U
75-00-3	CHLOROETHANE	11.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	11.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	11.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	11.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	11.	U
591-78-6	2-HEXANONE	11.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC25

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 1EU10247U08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Use this one		
74-87-3	CHLOROMETHANE	160.	U J R
74-83-9	BROMOMETHANE	160.	U J R
75-01-4	VINYL CHLORIDE	160.	U J R
75-00-3	CHLOROETHANE	160.	U J R
75-09-2	METHYLENE CHLORIDE	78 ~~32~~	~~B~~ U J R
67-64-1	ACETONE	160.	U J R
75-15-0	CARBON DISULFIDE	78.	U
75-35-4	1,1-DICHLOROETHENE	78.	U
75-34-3	1,1-DICHLOROETHANE	78.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	78.	U
67-66-3	CHLOROFORM	78.	U
107-06-2	1,2-DICHLOROETHANE	78.	U
78-93-3	2-BUTANONE	160.	U
71-55-6	1,1,1-TRICHLOROETHANE	78.	U
56-23-5	CARBON TETRACHLORIDE	78.	U
108-05-4	VINYL ACETATE	160.	U
75-27-4	BROMODICHLOROMETHANE	78.	U
78-87-5	1,2-DICHLOROPROPANE	78.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	78.	U
79-01-6	TRICHLOROETHENE	78.	U
124-48-1	DIBROMOCHLOROMETHANE	78.	U
79-00-5	1,1,2,-TRICHLOROETHANE	78.	U
71-43-2	BENZENE	78.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	78.	U
75-25-2	BROMOFORM	78.	U
108-10-1	4-METHYL-2-PENTANONE	160.	U
591-78-6	2-HEXANONE	160.	U
127-18-4	TETRACHLOROETHENE	78.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	78.	U
108-88-3	TOLUENE	78.	U
108-90-7	CHLOROBENZENE	78.	U
100-41-4	ETHYLBENZENE	78.	U
100-42-5	STYRENE	78.	U
1330-20-7	XYLENE (TOTAL)	78.	U R

Both VOA vials had head-space

[redacted]1E

ATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC25

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 1EU10247V08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 5.00

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	3.45	100.	J
2.	- -	UNKNOWN	4.15	80.	J
3.	4889-83-2	BICYCLO[3.1.1]HEPT-2-ENE, 3,	15.22	100.	J
4.	- -	UNKNOWN	16.30	60.	J
5.	- -	UNKNOWN	16.83	60.	J
6.	- -	UNKNOWN	17.38	200.	J
7.	- -	UNKNOWN	17.57	60.	J
8.	- -	UNKNOWN	17.62	60.	J
9.	- -	UNKNOWN	17.93	200.	J
10.	- -	UNKNOWN	18.15	100.	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
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30.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC25 RE

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 1ER10247V08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	160.	U
74-83-9	BROMOMETHANE	160.	U
75-01-4	VINYL CHLORIDE	160.	U
75-00-3	CHLOROETHANE	160.	U
75-09-2	METHYLENE CHLORIDE	78.	BJ
67-64-1	ACETONE	160.	U
75-15-0	CARBON DISULFIDE	78.	U
75-35-4	1,1-DICHLOROETHENE	78.	U
75-34-3	1,1-DICHLOROETHANE	78.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	78.	U
67-66-3	CHLOROFORM	78.	U
107-06-2	1,2-DICHLOROETHANE	78.	U
78-93-3	2-BUTANONE	160.	U
71-55-6	1,1,1-TRICHLOROETHANE	78.	U
56-23-5	CARBON TETRACHLORIDE	78.	U
108-05-4	VINYL ACETATE	160.	U
75-27-4	BROMODICHLOROMETHANE	78.	U
78-87-5	1,2-DICHLOROPROPANE	78.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	78.	U
79-01-6	TRICHLOROETHENE	78.	U
124-48-1	DIBROMOCHLOROMETHANE	78.	U
79-00-5	1,1,2,-TRICHLOROETHANE	78.	U
71-43-2	BENZENE	78.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	78.	U
75-25-2	BROMOFORM	78.	U
108-10-1	4-METHYL-2-PENTANONE	160.	U
591-78-6	2-HEXANONE	160.	U
127-18-4	TETRACHLOROETHENE	78.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	78.	U
108-88-3	TOLUENE	78.	U
108-90-7	CHLOROBENZENE	78.	U
100-41-4	ETHYLBENZENE	78.	U
100-42-5	STYRENE	78.	U
1330-20-7	XYLENE (TOTAL)	78.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC26

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1EU10247V09

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 13. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	11.	U
74-83-9	BROMOMETHANE	11.	U
75-01-4	VINYL CHLORIDE	11.	U
75-00-3	CHLOROETHANE	11.	U
75-09-2	METHYLENE CHLORIDE	6 ~~5~~.	~~BJ~~ U
67-64-1	ACETONE	11.	U
75-15-0	CARBON DISULFIDE	6.	U
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	11.	U
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	11.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	U
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2,-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	11.	U
591-78-6	2-HEXANONE	11.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC27

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247V10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1EU10247V10

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	11.	U
74-83-9	BROMOMETHANE	11.	U
75-01-4	VINYL CHLORIDE	11.	U
75-00-3	CHLOROETHANE	11.	U
75-09-2	METHYLENE CHLORIDE	5.	B U
67-64-1	ACETONE	160.	
75-15-0	CARBON DISULFIDE	6.	U
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	11.	U
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	11.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	U
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2,-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	11.	U
591-78-6	2-HEXANONE	11.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

1E-

ORGANICS ANALYSIS DATA SHEET
QUELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC27

Contract: 68-W8-0041

Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

ater) SOIL

Lab Sample ID: 9010247U10

ol: 5.0 (g/mL) G

Lab File ID: 1EU10247U10

low/med) LOW

Date Received: 10/19/90

ture: not dec. 12.

Date Analyzed: 10/29/90

n: (pack/cap) CAP

Dilution Factor: 1.00

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

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	3.57	5.	JN
2.	535-77-3	BENZENE, 1-METHYL-3-(1-METHY	17.08	7.	JN
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC28

b Name: ANAMET Contract: 68-W8-0041

ab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

trix: (soil/water) SOIL Lab Sample ID: 9010247-11

ample wt/vol: 5.0 (g/mL) G Lab File ID: 1EU10247U11

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 16. Date Analyzed: 10/29/90

olumn: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG		Q
74-87-3	CHLOROMETHANE		12.	U
74-83-9	BROMOMETHANE		12.	U
75-01-4	VINYL CHLORIDE		12.	U
75-00-3	CHLOROETHANE		12.	U
75-09-2	METHYLENE CHLORIDE		6 ~~6~~.	~~U~~ U
67-64-1	ACETONE	250	~~260~~.	~~E~~
75-15-0	CARBON DISULFIDE		8.	
75-35-4	1,1-DICHLOROETHENE		6.	U
75-34-3	1,1-DICHLOROETHANE		6.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)		6.	U
67-66-3	CHLOROFORM		6.	U
107-06-2	1,2-DICHLOROETHANE		6.	U
78-93-3	2-BUTANONE		12.	U
71-55-6	1,1,1-TRICHLOROETHANE		6.	U
56-23-5	CARBON TETRACHLORIDE		6.	U
108-05-4	VINYL ACETATE		12.	U
75-27-4	BROMODICHLOROMETHANE		6.	U
78-87-5	1,2-DICHLOROPROPANE		6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE		6.	U
79-01-6	TRICHLOROETHENE		6.	U
124-48-1	DIBROMOCHLOROMETHANE		6.	U
79-00-5	1,1,2,-TRICHLOROETHANE		6.	U
71-43-2	BENZENE		6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE		6.	U
75-25-2	BROMOFORM		6.	U
108-10-1	4-METHYL-2-PENTANONE		12.	U
591-78-6	2-HEXANONE		12.	U
127-18-4	TETRACHLOROETHENE		6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE		6.	U
108-88-3	TOLUENE		6.	U
108-90-7	CHLOROBENZENE		6.	U
100-41-4	ETHYLBENZENE		6.	U
100-42-5	STYRENE		6.	U
1330-20-7	XYLENE (TOTAL)		6.	U

Use these data

Analyte value transferred from BFC28DL dilution analysis.

ORGANICS ANALYSIS DATA SHEET
TIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC28

Contract: 68-W8-0041

NAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Lab Sample ID: 9010247-11

(oil/water) SOIL

Lab File ID: 1EU10247V11

Est/Vol: 5.0 (g/mL) G

(low/med) LOW

Date Received: 10/19/90

isture: not dec. 16.

Date Analyzed: 10/29/90

umn: (pack/cap) CAP

Dilution Factor: 1.00

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

umber TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	3.60	10.	JN
2.	- -	UNKNOWN	15.68	8.	JN
3.	535-77-3	BENZENE, 1-METHYL-3-(1-METHY	17.08	20.	JN
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: BFC28 DL

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-11

Sample wt/vol: 2.5 (g/mL) G Lab File ID: 1ER10247V11

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 2.00

12/07/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	CHLOROMETHANE	24.	U	
74-83-9	BROMOMETHANE	24.	U	
75-01-4	VINYL CHLORIDE	24.	U	
75-00-3	CHLOROETHANE	24.	U	
75-09-2	METHYLENE CHLORIDE	11.	BJ	D
67-64-1	ACETONE	250.		D
75-15-0	CARBON DISULFIDE	12.	U	
75-35-4	1,1-DICHLOROETHENE	12.	U	
75-34-3	1,1-DICHLOROETHANE	12.	U	
540-59-0	1,2-DICHLOROETHENE (TOTAL)	12.	U	
67-66-3	CHLOROFORM	12.	U	
107-06-2	1,2-DICHLOROETHANE	12.	U	
78-93-3	2-BUTANONE	24.	U	
71-55-6	1,1,1-TRICHLOROETHANE	12.	U	
56-23-5	CARBON TETRACHLORIDE	12.	U	
108-05-4	VINYL ACETATE	24.	U	
75-27-4	BROMODICHLOROMETHANE	12.	U	
78-87-5	1,2-DICHLOROPROPANE	12.	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	12.	U	
79-01-6	TRICHLOROETHENE	12.	U	
124-48-1	DIBROMOCHLOROMETHANE	12.	U	
79-00-5	1,1,2,-TRICHLOROETHANE	12.	U	
71-43-2	BENZENE	12.	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	12.	U	
75-25-2	BROMOFORM	12.	U	
108-10-1	4-METHYL-2-PENTANONE	24.	U	
591-78-6	2-HEXANONE	24.	U	
127-18-4	TETRACHLOROETHENE	12.	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	12.	U	
108-88-3	TOLUENE	12.	U	
108-90-7	CHLOROBENZENE	12.	U	
100-41-4	ETHYLBENZENE	12.	U	
100-42-5	STYRENE	12.	U	
1330-20-7	XYLENE (TOTAL)	12.	U	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC29

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 1EU10247V12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 5.00

Use these data

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	60.	U R
74-83-9	BROMOMETHANE	60.	U
75-01-4	VINYL CHLORIDE	60.	U
75-00-3	CHLOROETHANE	60.	U R
75-09-2	METHYLENE CHLORIDE	31.	X R
67-64-1	ACETONE	60.	R
75-15-0	CARBON DISULFIDE	30.	U
75-35-4	1,1-DICHLOROETHENE	30.	U
75-34-3	1,1-DICHLOROETHANE	30.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	30.	U
67-66-3	CHLOROFORM	30.	U
107-06-2	1,2-DICHLOROETHANE	30.	U
78-93-3	2-BUTANONE	60.	U
71-55-6	1,1,1-TRICHLOROETHANE	30.	U
56-23-5	CARBON TETRACHLORIDE	30.	U
108-05-4	VINYL ACETATE	60.	U
75-27-4	BROMODICHLOROMETHANE	30.	U
78-87-5	1,2-DICHLOROPROPANE	30.	U R
10061-01-5	CIS-1,3-DICHLOROPROPENE	30.	U R
79-01-6	TRICHLOROETHENE	30.	U R
124-48-1	DIBROMOCHLOROMETHANE	30.	U
79-00-5	1,1,2,2-TRICHLOROETHANE	30.	U
71-43-2	BENZENE	30.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	30.	U
75-25-2	BROMOFORM	30.	U
108-10-1	4-METHYL-2-PENTANONE	60.	U
591-78-6	2-HEXANONE	60.	U
127-18-4	TETRACHLOROETHENE	30.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	30.	U
108-88-3	TOLUENE	30.	U
108-90-7	CHLOROBENZENE	30.	U
100-41-4	ETHYLBENZENE	30.	U
100-42-5	STYRENE	30.	U
1330-20-7	XYLENE (TOTAL)	30.	U R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC29 RE

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1ER10247V12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
	Do not Use these data.		
74-87-3	CHLOROMETHANE	12.	U
74-83-9	BROMOMETHANE	12.	U
75-01-4	VINYL CHLORIDE	12.	U
75-00-3	CHLOROETHANE	12.	U
75-09-2	METHYLENE CHLORIDE	6.	U
67-64-1	ACETONE	12.	U
75-15-0	CARBON DISULFIDE	6.	U
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	12.	U
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	12.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	U
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2,-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	12.	U
591-78-6	2-HEXANONE	12.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC30

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1EU10247V13

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 11. Date Analyzed: 10/29/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	11.	U
74-83-9	BROMOMETHANE	11.	U
75-01-4	VINYL CHLORIDE	11.	U
75-00-3	CHLOROETHANE	11.	U
75-09-2	METHYLENE CHLORIDE	6.	BU
67-64-1	ACETONE	190.	
75-15-0	CARBON DISULFIDE	15.	
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	38.	
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	11.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	UJ
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2,-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	11.	U
591-78-6	2-HEXANONE	11.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC34

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-14

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V14

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC35

b Name: ANAMET Contract: 68-W8-0041

o Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

trix: (soil/water) WATER Lab Sample ID: 9010247-15

mple wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V15

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 100. Date Analyzed: 10/26/90

lumn: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	J
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC36

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V16

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	UR
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	J
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	UR

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC37

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V17

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	4.	J
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

EPA SAMPLE NO.

BFC37

ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 68-W8-0041

Lab Name: [illegible] Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V17

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	HEXANE (DOT)	3.83	10.	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC38

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-18

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 3EU10247V18

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. Date Analyzed: 10/26/90

GC Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U R
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	5.	U
67-64-1	ACETONE	10.	U
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
540-59-0	1,2-DICHLOROETHENE (TOTAL)	5.	U R
67-66-3	CHLOROFORM	6.	
107-06-2	1,2-DICHLOROETHANE	5.	U R
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U R

2 VOA vials has bubble.

1B

S ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC14

Contract: 68-W8-0041

5130 SAS No.: 5511HQ SDG No.: BFC14

Lab Sample ID: 9010247-01

L) ML

Lab File ID: 2EU10247C01

Date Received: 10/19/90

c. 0.

Date Extracted: 10/22/90

PF

Date Analyzed: 11/ 8/90

7.5

Dilution Factor: 1.00

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

Q

OETHYL)ETHER	20.	U
NOL	20.	U
ROBENZENE	20.	U
OBENZENE	20.	U
HOL	20.	U
OBENZENE	20.	U
NOL	20.	U
ISOPROPYL)ETHER	20.	U
OL	20.	U
I-N-PROPYLAMINE	20.	U
HANE	20.	U
	20.	U
	20.	U
HENOL	20.	U
	20.	U
THOXY)METHANE	100.	U
HENOL	20.	U
ROBENZENE	20.	U
	20.	U
E	20.	U
DIENE	20.	U
THYLPHENOL	20.	U
ALENE	20.	U
PENTADIENE	20.	U
OPHENOL	20.	U
OPHENOL	20.	U
LENE	100.	U
	20.	U
ATE	100.	U
	20.	U
ENE	20.	U
	20.	U

SV-1

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1/87 Rev.

EPA SAMPLE NO.

BFC14

8-0041

HQ SDG No.: BFC14

Sample ID: 9010247-01

File ID: 2EU10247C01

Received: 10/19/90

e Extracted: 10/22/90

e Analyzed: 11/ 8/90

lution Factor: 1.00

ATION UNITS:
ug/Kg) UG/L

Q

	100.	U
	20.	U
	100.	U
	100.	U
	20.	U
	20.	U
	20.	U
HER	20.	U
	20.	U
	100.	U
ENOL	100.	U
(1)	20.	U
HER	20.	U
	20.	U
	100.	U
	20.	U
	20.	U
	20.	U
	20.	U
	20.	U
	20.	U
IE	40.	U
	20.	U
	20.	U
HALATE	20.	U
	20.	U
IE	20.	U
NE	20.	U
	20.	U
ENE	20.	U
NE	20.	U
IE	20.	U

ylamine

-2

0000 0 0352

1/87 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC14

) Name: ANAMET Contract: 68-W8-0041

) Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

trix: (soil/water) WATER Lab Sample ID: 9010247-01

mple wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C01

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

C Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

umber TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.65	8.	~~B~~ J
2.	123-79-5	HEXANEDIOIC ACID, DIOCTYL ES	26.87	8.	~~B~~ J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC15

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-02

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C02

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

BFC15

Contract: 68-W8-0041

Lab Name: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-02

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C02

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BFC15

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-02

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C02

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.65	8.	JOR
2.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC16

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-03

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C03

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC16

Contract: 68-W8-0041

[redacted] NAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-03

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C03

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC16

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

rix: (soil/water) WATER Lab Sample ID: 9010247-03

le wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C03

el: (low/med) LOW Date Received: 10/19/90

oisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

raction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

mber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.65	8.	JBR
2.					
3.					
4.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC17

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 3511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-04

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C04

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

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1C

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC17

Contract: 68-W8-0041

Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

(Soil/water) WATER Lab Sample ID: 9010247-04

Conc/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C04

Soil: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 8/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
99-09-2	3-NITROANILINE	50.	U	
83-32-9	ACENAPHTHENE	10.	U	
51-28-5	2,4-DINITROPHENOL	50.	U	
100-02-7	4-NITROPHENOL	50.	U	
132-64-9	DIBENZOFURAN	10.	U	
121-14-2	2,4-DINITROTOLUENE	10.	U	
84-66-2	DIETHYLPHTHALATE	10.	U	
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U	
86-73-7	FLUORENE	10.	U	
100-01-6	4-NITROANILINE	50.	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U	
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U	
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U	
118-74-1	HEXACHLOROBENZENE	10.	U	
87-86-5	PENTACHLOROPHENOL	50.	U	
85-01-8	PHENANTHRENE	10.	U	
120-12-7	ANTHRACENE	10.	U	
84-74-2	DI-N-BUTYLPHTHALATE	10.	U	
206-44-0	FLUORANTHENE	10.	U	
129-00-0	PYRENE	10.	U	
85-68-7	BUTYLBENZYLPHTHALATE	10.	U	
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U	
56-55-3	BENZO(A)ANTHRACENE	10.	U	
218-01-9	CHRYSENE	10.	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U	
117-84-0	DI-N-OCTYLPHTHALATE	10.	U	
205-99-2	BENZO(B)FLUORANTHENE	10.	U	
207-08-9	BENZO(K)FLUORANTHENE	10.	U	
50-32-8	BENZO(A)PYRENE	10.	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U	
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U	
191-24-2	BENZO(G,H,I)PERYLENE	10.	U	

(1) - Cannot be separated from diphenylamine

472

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC18

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

rix: (soil/water) WATER Lab Sample ID: 9010247-05

ple wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C05

vel: (low/med) LOW Date Received: 10/19/90

oisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

raction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

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TILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC18

NAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

trix: (soil/water) WATER Lab Sample ID: 9010247-05

ple wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C05

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

PC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ(A,H)ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BFC18

lame: ANAMET Contract: 68-W8-0041

ode: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

x: (soil/water) WATER Lab Sample ID: 9010247-05

le wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C05

l: (low/med) LOW Date Received: 10/19/90

isture: not dec. 100. dec. 0. Date Extracted: 10/22/90

action: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

mber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.73	20.	BOR
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC19

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-06

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C06

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC19

Lab: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-06

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C06

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET
TIVELY IDENTIFIED COMPOUNDS

BFC19

Contract: 68-W8-0041

AET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

(oil/water) WATER Lab Sample ID: 9010247-06

t/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C06

(low/med) LOW Date Received: 10/19/90

isture: not dec. 100. dec. 0. Date Extracted: 10/22/90

raction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

C Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

mber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.70	20.	B J R
2.					
3.					
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47

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC24

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C07

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 7. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	360.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	360.	U
95-57-8	2-CHLOROPHENOL	360.	U
541-73-1	1,3-DICHLOROBENZENE	360.	U
106-46-7	1,4-DICHLOROBENZENE	360.	U
100-51-6	BENZYL ALCOHOL	360.	U
95-50-1	1,2-DICHLOROBENZENE	360.	U
95-48-7	2-METHYLPHENOL	360.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	360.	U
106-44-5	4-METHYLPHENOL	360.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	360.	U
67-72-1	HEXACHLOROETHANE	360.	U
98-95-3	NITROBENZENE	360.	U
78-59-1	ISOPHORONE	360.	U
88-75-5	2-NITROPHENOL	360.	U
105-67-9	2,4-DIMETHYLPHENOL	360.	U
65-85-0	BENZOIC ACID	1800.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	360.	U
120-83-2	2,4-DICHLOROPHENOL	360.	U
120-82-1	1,2,4-TRICHLOROBENZENE	360.	U
91-20-3	NAPHTHALENE	360.	U
106-47-8	4-CHLOROANILINE	360.	U
87-68-3	HEXACHLOROBUTADIENE	360.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	360.	U
91-57-6	2-METHYLNAPHTHALENE	360.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	360.	U
88-06-2	2,4,6-TRICHLOROPHENOL	360.	U
95-95-4	2,4,5-TRICHLOROPHENOL	1800.	U
91-58-7	2-CHLORONAPHTHALENE	360.	U
88-74-4	2-NITROANILINE	1800.	U
131-11-3	DIMETHYLPHTHALATE	360.	U
208-96-8	ACENAPHTHYLENE	360.	U
606-20-2	2,6-DINITROTOLUENE	360.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC24

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C07

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 7. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	1800.	U J
83-32-9	ACENAPHTHENE	360.	U
51-28-5	2,4-DINITROPHENOL	1800.	U
100-02-7	4-NITROPHENOL	1800.	U
132-64-9	DIBENZOFURAN	360.	U
121-14-2	2,4-DINITROTOLUENE	360.	U
84-66-2	DIETHYLPHTHALATE	360.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	360.	U
86-73-7	FLUORENE	360.	U
100-01-6	4-NITROANILINE	1800.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1800.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	360.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	360.	U
118-74-1	HEXACHLOROBENZENE	360.	U
87-86-5	PENTACHLOROPHENOL	1800.	U
85-01-8	PHENANTHRENE	360.	U
120-12-7	ANTHRACENE	360.	U
84-74-2	DI-N-BUTYLPHTHALATE	360.	U
206-44-0	FLUORANTHENE	360.	U
129-00-0	PYRENE	360.	U
85-68-7	BUTYLBENZYLPHTHALATE	360.	U
91-94-1	3,3'-DICHLOROBENZIDINE	710.	U
56-55-3	BENZO(A)ANTHRACENE	360.	U
218-01-9	CHRYSENE	360.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	360.	U
117-84-0	DI-N-OCTYLPHTHALATE	360.	U
205-99-2	BENZO(B)FLUORANTHENE	360.	U
207-08-9	BENZO(K)FLUORANTHENE	360.	U
50-32-8	BENZO(A)PYRENE	360.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	360.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	360.	U
191-24-2	BENZO(G,H,I)PERYLENE	360.	U J

(1) - Cannot be separated from diphenylamine

480

1F

EPA SAMPLE NO.

[redacted] TILE ORGANICS ANALYSIS DATA SHEET
[redacted] ENTATIVELY IDENTIFIED COMPOUNDS

BFC24

[redacted] AMET Contract: 68-W8-0041

[redacted] NAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

[redacted] oil/water) SOIL Lab Sample ID: 9010247-07

[redacted] t/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C07

[redacted] (low/med) LOW Date Received: 10/19/90

[redacted] isture: not dec. 7. dec. 0. Date Extracted: 10/25/90

[redacted] traction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

[redacted] C Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.78	1000.	~~B~~ R A
2.	- -	UNKNOWN	6.57	4000.	~~B~~ J R A
3.	- -	UNKNOWN	8.08	700.	~~B~~ J
4.	- -	UNKNOWN	8.80	1000.	J N
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC25

ab Name: ANAMET Contract: 68-W8-0041

b Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

atrix: (soil/water) SOIL Lab Sample ID: 9010247-08

mple wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C08

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 68. dec. 0. Date Extracted: 10/25/90

traction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

PC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	1000.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	1000.	U
95-57-8	2-CHLOROPHENOL	1000.	U
541-73-1	1,3-DICHLOROBENZENE	1000.	U
106-46-7	1,4-DICHLOROBENZENE	1000.	U
100-51-6	BENZYL ALCOHOL	1000.	U
95-50-1	1,2-DICHLOROBENZENE	1000.	U
95-48-7	2-METHYLPHENOL	1000.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1000.	U
106-44-5	4-METHYLPHENOL	1000.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1000.	U
67-72-1	HEXACHLOROETHANE	1000.	U
98-95-3	NITROBENZENE	1000.	U
78-59-1	ISOPHORONE	1000.	U
88-75-5	2-NITROPHENOL	1000.	U
105-67-9	2,4-DIMETHYLPHENOL	1000.	U
65-85-0	BENZOIC ACID	5200.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1000.	U
120-83-2	2,4-DICHLOROPHENOL	1000.	U
120-82-1	1,2,4-TRICHLOROBENZENE	1000.	U
91-20-3	NAPHTHALENE	1000.	U
106-47-8	4-CHLOROANILINE	1000.	U
87-68-3	HEXACHLOROBUTADIENE	1000.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	1000.	U
91-57-6	2-METHYLNAPHTHALENE	1000.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	1000.	U
88-06-2	2,4,6-TRICHLOROPHENOL	1000.	U
95-95-4	2,4,5-TRICHLOROPHENOL	5200.	U
91-58-7	2-CHLORONAPHTHALENE	1000.	U
88-74-4	2-NITROANILINE	5200.	U
131-11-3	DIMETHYLPHTHALATE	1000.	U
208-96-8	ACENAPHTHYLENE	1000.	U
606-20-2	2,6-DINITROTOLUENE	1000.	U

48

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC25

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
99-09-2	3-NITROANILINE	5200.	U	J
83-32-9	ACENAPHTHENE	1000.	U	
51-28-5	2,4-DINITROPHENOL	5200.	U	
100-02-7	4-NITROPHENOL	5200.	U	
132-64-9	DIBENZOFURAN	1000.	U	
121-14-2	2,4-DINITROTOLUENE	1000.	U	
84-66-2	DIETHYLPHTHALATE	1000.	U	
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	1000.	U	
86-73-7	FLUORENE	1000.	U	
100-01-6	4-NITROANILINE	5200.	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	5200.	U	
86-30-6	N-NITROSODIPHENYLAMINE (1)	1000.	U	
101-55-3	4-BROMOPHENYL-PHENYLETHER	1000.	U	
118-74-1	HEXACHLOROBENZENE	1000.	U	
87-86-5	PENTACHLOROPHENOL	5200.	U	
85-01-8	PHENANTHRENE	1000.	U	
120-12-7	ANTHRACENE	1000.	U	
84-74-2	DI-N-BUTYLPHTHALATE	1000.	U	
206-44-0	FLUORANTHENE	1000.	U	
129-00-0	PYRENE	1000.	U	
85-68-7	BUTYLBENZYLPHTHALATE	1000.	U	
91-94-1	3,3'-DICHLOROBENZIDINE	2100.	U	
56-55-3	BENZO(A)ANTHRACENE	1000.	U	
218-01-9	CHRYSENE	1000.	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1000.	U	
117-84-0	DI-N-OCTYLPHTHALATE	1000.	U	
205-99-2	BENZO(B)FLUORANTHENE	1000.	U	
207-08-9	BENZO(K)FLUORANTHENE	1000.	U	
50-32-8	BENZO(A)PYRENE	1000.	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1000.	U	
53-70-3	DIBENZ[A,H]ANTHRACENE	1000.	U	
191-24-2	BENZO(G,H,I)PERYLENE	1000.	U	J

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BFC25

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.00

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.80	7000.	B R A
2.	- -	UNKNOWN	6.10	7000.	J N
3.	- -	UNKNOWN	6.57	20000.	B R A
4.	98-00-0	2-FURANMETHANOL	6.80	10000.	J N
5.	97-53-0	PHENOL, 2-METHOXY-4-(2-PROPE	15.77	10000.	J
6.	3891-98-3	DODECANE, 2,6,10-TRIMETHYL-	15.90	2000.	J
7.	- -	UNKNOWN HYDROCARBON	16.22	2000.	J
8.	10544-50-0	SULFUR, MOL. (S8)	17.95	2000.	J
9.	6627-88-9	PHENOL, 2,6-DIMETHOXY-4-(2-P	18.95	4000.	J
10.	629-78-7	HEPTADECANE	19.98	4000.	J
11.	57-10-3	HEXADECANOIC ACID	22.88	9000.	J
12.	19407-28-4	PHENANTHRENE, 1,2,3,4,4A,9,1	24.18	20000.	J
13.	- -	UNKNOWN	24.50	20000.	J
14.	1454-85-9	1-HEPTADECANOL	25.98	9000.	J
15.	- -	UNKNOWN	26.45	5000.	J
16.	661-19-8	1-DOCOSANOL	27.72	9000.	J
17.	- -	UNKNOWN ALCHOL	29.33	4000.	J
18.	- -	UNKNOWN	33.62	3000.	J
19.	111-63-7	OCTADECANOIC ACID, ETHENYL E	36.25	5000.	J
20.	- -	UNKNOWN	22.77	3000.	J N
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC26

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C09

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 13. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	380.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	380.	U
95-57-8	2-CHLOROPHENOL	380.	U
541-73-1	1,3-DICHLOROBENZENE	380.	U
106-46-7	1,4-DICHLOROBENZENE	380.	U
100-51-6	BENZYL ALCOHOL	380.	U
95-50-1	1,2-DICHLOROBENZENE	380.	U
95-48-7	2-METHYLPHENOL	380.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	380.	U
106-44-5	4-METHYLPHENOL	380.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	380.	U
67-72-1	HEXACHLOROETHANE	380.	U
98-95-3	NITROBENZENE	380.	U
78-59-1	ISOPHORONE	380.	U
88-75-5	2-NITROPHENOL	380.	U
105-67-9	2,4-DIMETHYLPHENOL	380.	U
65-85-0	BENZOIC ACID	1900.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	380.	U
120-83-2	2,4-DICHLOROPHENOL	380.	U
120-82-1	1,2,4-TRICHLOROBENZENE	380.	U
91-20-3	NAPHTHALENE	380.	U
106-47-8	4-CHLOROANILINE	380.	U
87-68-3	HEXACHLOROBUTADIENE	380.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	380.	U
91-57-6	2-METHYLNAPHTHALENE	380.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	380.	U
88-06-2	2,4,6-TRICHLOROPHENOL	380.	U
95-95-4	2,4,5-TRICHLOROPHENOL	1900.	U
91-58-7	2-CHLORONAPHTHALENE	380.	U
88-74-4	2-NITROANILINE	1900.	U
131-11-3	DIMETHYLPHTHALATE	380.	U
208-96-8	ACENAPHTHYLENE	380.	U
606-20-2	2,6-DINITROTOLUENE	380.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC26

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C09

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 13. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	1900.	U
83-32-9	ACENAPHTHENE	380.	U
51-28-5	2,4-DINITROPHENOL	1900.	U
100-02-7	4-NITROPHENOL	1900.	U
132-64-9	DIBENZOFURAN	380.	U
121-14-2	2,4-DINITROTOLUENE	380.	U
84-66-2	DIETHYLPHTHALATE	380.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	380.	U
86-73-7	FLUORENE	380.	U
100-01-6	4-NITROANILINE	1900.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1900.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	380.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	380.	U
118-74-1	HEXACHLOROBENZENE	380.	U
87-86-5	PENTACHLOROPHENOL	1900.	U
85-01-8	PHENANTHRENE	380.	U
120-12-7	ANTHRACENE	380.	U
84-74-2	DI-N-BUTYLPHTHALATE	380.	U
206-44-0	FLUORANTHENE	380.	U
129-00-0	PYRENE	380.	U
85-68-7	BUTYLBENZYLPHTHALATE	380.	U
91-94-1	3,3'-DICHLOROBENZIDINE	760.	U
56-55-3	BENZO(A)ANTHRACENE	380.	U
218-01-9	CHRYSENE	380.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	380.	U
117-84-0	DI-N-OCTYLPHTHALATE	380.	U
205-99-2	BENZO(B)FLUORANTHENE	380.	U
207-08-9	BENZO(K)FLUORANTHENE	380.	U
50-32-8	BENZO(A)PYRENE	380.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	380.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	380.	U
191-24-2	BENZO(G,H,I)PERYLENE	380.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

BFC26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C09

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 13. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.78	2000.	B R A
2.	- -	UNKNOWN	6.57	6000.	B R A
3.	- -	UNKNOWN	8.80	1000.	B
4.	18641-71-9	3-HEPTANONE, 2,4-DIMETHYL-	9.68	400.	J N
5.	10544-50-0	SULFUR, MOL. (S8)	17.95	800.	J
6.	57-10-3	HEXADECANOIC ACID	22.80	400.	J
7.	- -	UNKNOWN	24.27	800.	J
8.	- -	UNKNOWN HYDROCARBON	29.43	400.	J
9.	- -	UNKNOWN HYDROCARBON	36.47	400.	J N
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11.					
12.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC27

b Name: ANAMET Contract: 68-W8-0041

b Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

trix: (soil/water) SOIL Lab Sample ID: 9010247-10

mple wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C10

evel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

traction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

PC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	380.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	380.	U
95-57-8	2-CHLOROPHENOL	380.	U
541-73-1	1,3-DICHLOROBENZENE	380.	U
106-46-7	1,4-DICHLOROBENZENE	380.	U
100-51-6	BENZYL ALCOHOL	380.	U
95-50-1	1,2-DICHLOROBENZENE	380.	U
95-48-7	2-METHYLPHENOL	380.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	380.	U
106-44-5	4-METHYLPHENOL	380.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	380.	U
67-72-1	HEXACHLOROETHANE	380.	U
98-95-3	NITROBENZENE	380.	U
78-59-1	ISOPHORONE	380.	U
88-75-5	2-NITROPHENOL	380.	U
105-67-9	2,4-DIMETHYLPHENOL	380.	U
65-85-0	BENZOIC ACID	1900.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	380.	U
120-83-2	2,4-DICHLOROPHENOL	380.	U
120-82-1	1,2,4-TRICHLOROBENZENE	380.	U
91-20-3	NAPHTHALENE	380.	U
106-47-8	4-CHLOROANILINE	380.	U
87-68-3	HEXACHLOROBUTADIENE	380.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	380.	U
91-57-6	2-METHYLNAPHTHALENE	380.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	380.	U
88-06-2	2,4,6-TRICHLOROPHENOL	380.	U
95-95-4	2,4,5-TRICHLOROPHENOL	1900.	U
91-58-7	2-CHLORONAPHTHALENE	380.	U
88-74-4	2-NITROANILINE	1900.	U
131-11-3	DIMETHYLPHTHALATE	380.	U
208-96-8	ACENAPHTHYLENE	380.	U
606-20-2	2,6-DINITROTOLUENE	380.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC27

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C10

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	1900.	U
83-32-9	ACENAPHTHENE	380.	U
51-28-5	2,4-DINITROPHENOL	1900.	U
100-02-7	4-NITROPHENOL	1900.	U
132-64-9	DIBENZOFURAN	380.	U
121-14-2	2,4-DINITROTOLUENE	380.	U
84-66-2	DIETHYLPHTHALATE	380.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	380.	U
86-73-7	FLUORENE	380.	U
100-01-6	4-NITROANILINE	1900.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1900.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	380.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	380.	U
118-74-1	HEXACHLOROBENZENE	380.	U
87-86-5	PENTACHLOROPHENOL	1900.	U
85-01-8	PHENANTHRENE	380.	U
120-12-7	ANTHRACENE	380.	U
84-74-2	DI-N-BUTYLPHTHALATE	380.	U
206-44-0	FLUORANTHENE	380.	U
129-00-0	PYRENE	380.	U
85-68-7	BUTYLBENZYLPHTHALATE	380.	U
91-94-1	3,3'-DICHLOROBENZIDINE	760.	U
56-55-3	BENZO(A)ANTHRACENE	380.	U
218-01-9	CHRYSENE	380.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	380.	U
117-84-0	DI-N-OCTYLPHTHALATE	380.	U
205-99-2	BENZO(B)FLUORANTHENE	380.	U
207-08-9	BENZO(K)FLUORANTHENE	380.	U
50-32-8	BENZO(A)PYRENE	380.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	380.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	380.	U
191-24-2	BENZO(G,H,I)PERYLENE	380.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BFC27

...e: ANAMET Contract: 68-W8-0041

...de: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

...x: (soil/water) SOIL Lab Sample ID: 9010247-10

...e wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C10

...: (low/med) LOW Date Received: 10/19/90

...sture: not dec. 12. dec. 0. Date Extracted: 10/25/90

...ction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

...ber TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	- -	UNKNOWN	5.93	2000.	BJRA
	- -	UNKNOWN	6.70	7000.	BJRA
3.	- -	UNKNOWN	8.18	1000.	BJR
	- -	UNKNOWN	8.88	2000.	JN
	18641-71-9	3-HEPTANONE, 2,4-DIMETHYL-	9.77	1000.	J
6.	10544-50-0	SULFUR, MOL. (S8)	18.03	1000.	J
7.	57-10-3	HEXADECANOIC ACID	22.87	800.	J
	- -	UNKNOWN	24.35	800.	JN
0.					
3.					
4.					
7.					
0.					

490

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC28

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C11

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	400.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	400.	U
95-57-8	2-CHLOROPHENOL	400.	U
541-73-1	1,3-DICHLOROBENZENE	400.	U
106-46-7	1,4-DICHLOROBENZENE	400.	U
100-51-6	BENZYL ALCOHOL	400.	U
95-50-1	1,2-DICHLOROBENZENE	400.	U
95-48-7	2-METHYLPHENOL	400.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	400.	U
106-44-5	4-METHYLPHENOL	400.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	400.	U
67-72-1	HEXACHLOROETHANE	400.	U
98-95-3	NITROBENZENE	400.	U
78-59-1	ISOPHORONE	400.	U
88-75-5	2-NITROPHENOL	400.	U
105-67-9	2,4-DIMETHYLPHENOL	400.	U
65-85-0	BENZOIC ACID	2000.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	400.	U
120-83-2	2,4-DICHLOROPHENOL	400.	U
120-82-1	1,2,4-TRICHLOROBENZENE	400.	U
91-20-3	NAPHTHALENE	400.	U
106-47-8	4-CHLOROANILINE	400.	U
87-68-3	HEXACHLOROBUTADIENE	400.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	400.	U
91-57-6	2-METHYLNAPHTHALENE	400.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	400.	U
88-06-2	2,4,6-TRICHLOROPHENOL	400.	U
95-95-4	2,4,5-TRICHLOROPHENOL	2000.	U
91-58-7	2-CHLORONAPHTHALENE	400.	U
88-74-4	2-NITROANILINE	2000.	U
131-11-3	DIMETHYLPHTHALATE	400.	U
208-96-8	ACENAPHTHYLENE	400.	U
606-20-2	2,6-DINITROTOLUENE	400.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC28

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C11

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	2000.	U
83-32-9	ACENAPHTHENE	400.	U
51-28-5	2,4-DINITROPHENOL	2000.	U
100-02-7	4-NITROPHENOL	2000.	U J
132-64-9	DIBENZOFURAN	400.	U
121-14-2	2,4-DINITROTOLUENE	400.	U
84-66-2	DIETHYLPHTHALATE	400.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	400.	U
86-73-7	FLUORENE	400.	U
100-01-6	4-NITROANILINE	2000.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	2000.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	400.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	400.	U
118-74-1	HEXACHLOROBENZENE	400.	U
87-86-5	PENTACHLOROPHENOL	2000.	U
85-01-8	PHENANTHRENE	400.	U
120-12-7	ANTHRACENE	400.	U
84-74-2	DI-N-BUTYLPHTHALATE	400.	U
206-44-0	FLUORANTHENE	400.	U
129-00-0	PYRENE	400.	U
85-68-7	BUTYLBENZYLPHTHALATE	400.	U
91-94-1	3,3'-DICHLOROBENZIDINE	790.	U
56-55-3	BENZO(A)ANTHRACENE	400.	U
218-01-9	CHRYSENE	400.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	400.	U
117-84-0	DI-N-OCTYLPHTHALATE	400.	U
205-99-2	BENZO(B)FLUORANTHENE	400.	U
207-08-9	BENZO(K)FLUORANTHENE	400.	U
50-32-8	BENZO(A)PYRENE	400.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	400.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	400.	U
191-24-2	BENZO(G,H,I)PERYLENE	400.	U

(1) - Cannot be separated from diphenylamine

[redacted] 1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
BFC28

[redacted] ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C11

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.90	2000.	~~BJ~~ RA
2.	- -	UNKNOWN	6.68	9000.	~~BJ~~ A
3.	- -	UNKNOWN	8.17	1000.	~~BJ~~
4.	- -	UNKNOWN	8.87	2000.	J N
5.	10544-50-0	SULFUR, MOL. (S8)	18.03	2000.	J
6.	57-10-3	HEXADECANOIC ACID	22.88	1000.	J
7.	- -	UNKNOWN	24.33	400.	J
8.	- -	UNKNOWN	32.85	800.	J
9.	- -	UNKNOWN	35.87	400.	J N
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BFC29

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	400.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	400.	U
95-57-8	2-CHLOROPHENOL	400.	U
541-73-1	1,3-DICHLOROBENZENE	400.	U
106-46-7	1,4-DICHLOROBENZENE	400.	U
100-51-6	BENZYL ALCOHOL	400.	U
95-50-1	1,2-DICHLOROBENZENE	400.	U
95-48-7	2-METHYLPHENOL	400.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	400.	U
106-44-5	4-METHYLPHENOL	400.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	400.	U
67-72-1	HEXACHLOROETHANE	400.	U
98-95-3	NITROBENZENE	400.	U
78-59-1	ISOPHORONE	400.	U
88-75-5	2-NITROPHENOL	400.	U
105-67-9	2,4-DIMETHYLPHENOL	400.	U
65-85-0	BENZOIC ACID	2000.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	400.	U
120-83-2	2,4-DICHLOROPHENOL	400.	U
120-82-1	1,2,4-TRICHLOROBENZENE	400.	U
91-20-3	NAPHTHALENE	400.	U
106-47-8	4-CHLOROANILINE	400.	U
87-68-3	HEXACHLOROBUTADIENE	400.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	400.	U
91-57-6	2-METHYLNAPHTHALENE	400.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	400.	U
88-06-2	2,4,6-TRICHLOROPHENOL	400.	U
95-95-4	2,4,5-TRICHLOROPHENOL	2000.	U
91-58-7	2-CHLORONAPHTHALENE	400.	U
88-74-4	2-NITROANILINE	2000.	U
131-11-3	DIMETHYLPHTHALATE	400.	U
208-96-8	ACENAPHTHYLENE	400.	U
606-20-2	2,6-DINITROTOLUENE	400.	U

1C

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC29

Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	2000.	U
83-32-9	ACENAPHTHENE	400.	U
51-28-5	2,4-DINITROPHENOL	2000.	U
100-02-7	4-NITROPHENOL	2000.	U J
132-64-9	DIBENZOFURAN	400.	U
121-14-2	2,4-DINITROTOLUENE	400.	U
84-66-2	DIETHYLPHTHALATE	400.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	400.	U
86-73-7	FLUORENE	400.	U
100-01-6	4-NITROANILINE	2000.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	2000.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	400.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	400.	U
118-74-1	HEXACHLOROBENZENE	400.	U
87-86-5	PENTACHLOROPHENOL	2000.	U
85-01-8	PHENANTHRENE	400.	U
120-12-7	ANTHRACENE	400.	U
84-74-2	DI-N-BUTYLPHTHALATE	400.	U
206-44-0	FLUORANTHENE	400.	U
129-00-0	PYRENE	400.	U
85-68-7	BUTYLBENZYLPHTHALATE	400.	U
91-94-1	3,3'-DICHLOROBENZIDINE	800.	U
56-55-3	BENZO(A)ANTHRACENE	400.	U
218-01-9	CHRYSENE	400.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	400.	U
117-84-0	DI-N-OCTYLPHTHALATE	400.	U
205-99-2	BENZO(B)FLUORANTHENE	400.	U
207-08-9	BENZO(K)FLUORANTHENE	400.	U
50-32-8	BENZO(A)PYRENE	400.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	400.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	400.	U
191-24-2	BENZO(G,H,I)PERYLENE	400.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC29

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.00

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.90	2000.	BJR A
2.	- -	UNKNOWN	6.68	6000.	BJR A
3.	- -	UNKNOWN	8.17	800.	BJR
4.	- -	UNKNOWN	8.87	800.	JN
5.	19641-71-9	3-HEPTANONE, 2,4-DIMETHYL-	9.75	800.	J
6.	103-82-2	BENZENEACETIC ACID	14.12	800.	J
7.	57-10-3	HEXADECANOIC ACID	22.88	1000.	J
8.	- -	UNKNOWN HYDROCARBON	26.82	800.	J
9.	629-99-2	PENTACOSANE	29.33	400.	J
10.	- -	UNKNOWN HYDROCARBON	30.98	1000.	J
11.	- -	UNKNOWN HYDROCARBON	33.23	1000.	J
12.	- -	UNKNOWN HYDROCARBON	33.45	1000.	J
13.	- -	UNKNOWN	36.27	400.	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC30

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C13

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	PHENOL	380.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	380.	U
95-57-8	2-CHLOROPHENOL	380.	U
541-73-1	1,3-DICHLOROBENZENE	380.	U
106-46-7	1,4-DICHLOROBENZENE	380.	U
100-51-6	BENZYL ALCOHOL	380.	U
95-50-1	1,2-DICHLOROBENZENE	380.	U
95-48-7	2-METHYLPHENOL	380.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	380.	U
106-44-5	4-METHYLPHENOL	380.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	380.	U
67-72-1	HEXACHLOROETHANE	380.	U
98-95-3	NITROBENZENE	380.	U
78-59-1	ISOPHORONE	380.	U
88-75-5	2-NITROPHENOL	380.	U
105-67-9	2,4-DIMETHYLPHENOL	380.	U
65-85-0	BENZOIC ACID	1900.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	380.	U
120-83-2	2,4-DICHLOROPHENOL	380.	U
120-82-1	1,2,4-TRICHLOROBENZENE	380.	U
91-20-3	NAPHTHALENE	380.	U
106-47-8	4-CHLOROANILINE	380.	U
87-68-3	HEXACHLOROBUTADIENE	380.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	380.	U
91-57-6	2-METHYLNAPHTHALENE	380.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	380.	U
88-06-2	2,4,6-TRICHLOROPHENOL	380.	U
95-95-4	2,4,5-TRICHLOROPHENOL	1900.	U
91-58-7	2-CHLORONAPHTHALENE	380.	U
88-74-4	2-NITROANILINE	1900.	U
131-11-3	DIMETHYLPHTHALATE	380.	U
208-96-8	ACENAPHTHYLENE	380.	U
606-20-2	2,6-DINITROTOLUENE	380.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC30

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C13

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-NITROANILINE	1900.	U
83-32-9	ACENAPHTHENE	380.	U
51-28-5	2,4-DINITROPHENOL	1900.	U
100-02-7	4-NITROPHENOL	1900.	U
132-64-9	DIBENZOFURAN	380.	U
121-14-2	2,4-DINITROTOLUENE	380.	U
84-66-2	DIETHYLPHTHALATE	380.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	380.	U
86-73-7	FLUORENE	380.	U
100-01-6	4-NITROANILINE	1900.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1900.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	380.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	380.	U
118-74-1	HEXACHLOROBENZENE	380.	U
87-86-5	PENTACHLOROPHENOL	1900.	U
85-01-8	PHENANTHRENE	380.	U
120-12-7	ANTHRACENE	380.	U
84-74-2	DI-N-BUTYLPHTHALATE	380.	U
206-44-0	FLUORANTHENE	380.	U
129-00-0	PYRENE	380.	U
85-68-7	BUTYLBENZYLPHTHALATE	380.	U
91-94-1	3,3'-DICHLOROBENZIDINE	760.	U
56-55-3	BENZO(A)ANTHRACENE	380.	U
218-01-9	CHRYSENE	380.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	380.	U
117-84-0	DI-N-OCTYLPHTHALATE	380.	U
205-99-2	BENZO(B)FLUORANTHENE	380.	U
207-08-9	BENZO(K)FLUORANTHENE	380.	U
50-32-8	BENZO(A)PYRENE	380.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	380.	U
53-70-3	DIBENZ(A,H)ANTHRACENE	380.	U
191-24-2	BENZO(G,H,I)PERYLENE	380.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET
ENTATIVELY IDENTIFIED COMPOUNDS

BFC30

NAMET

Contract: 68-W8-0041

ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

(soil/water) SOIL Lab Sample ID: 9010247-13

wt/vol: 30.0 (g/mL) G Lab File ID: 2EU10247C13

el: (low/med) LOW Date Received: 10/19/90

isture: not dec. 12. dec. 0. Date Extracted: 10/25/90

raction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/12/90

C Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

mber TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	5.93	2000.	BJR A
2.	- -	UNKNOWN	6.65	5000.	BJR A
3.	- -	UNKNOWN	8.22	800.	BJR
4.	- -	UNKNOWN	8.88	1000.	JN
5.	18641-71-9	3-HEPTANONE, 2,4-DIMETHYL-	9.75	800.	J
6.	10544-50-0	SULFUR, MOL. (S8)	18.03	1000.	J
7.	544-63-8	TETRADECANOIC ACID	20.70	400.	J
8.	- -	UNKNOWN	24.33	400.	J
9.	301-02-0	9-OCTADECENAMIDE, (Z)-	30.08	400.	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC34

ame: ANAMET Contract: 68-W8-0041

ode: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

x: (soil/water) WATER Lab Sample ID: 9010247-14

e wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C14

l: (low/med) LOW Date Received: 10/19/90

sture: not dec. 100. dec. 0. Date Extracted: 10/22/90

ction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC34

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C14

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

50

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC34

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-14

Sample wt/vol: 1000.0 (g/mL) ML , Lab File ID: 2EU10247C14

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.70	10.	BJ N
2.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC35

Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C15

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC35

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C15

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

50

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC35

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C15

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.68	20.	BJ N
2.					
3.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC36

b Name: ANAMET Contract: 68-W8-0041

Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

trix: (soil/water) WATER Lab Sample ID: 9010247-16

mple wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C16

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

PC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC36

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-16

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C16

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ(A,H)ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC36

ab Name: ANAMET Contract: 68-W8-0041

b Code: ANAMET Case No.: 15130 SAS No.: 5511HG SDG No.: BFC14

atrix: (soil/water) WATER Lab Sample ID: 9010247-16

mple wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C16

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

PC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.70	20.	BJN
2.					
3.					
4.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC37

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C17

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	PHENOL	10.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	U
95-57-8	2-CHLOROPHENOL	10.	U
541-73-1	1,3-DICHLOROBENZENE	10.	U
106-46-7	1,4-DICHLOROBENZENE	10.	U
100-51-6	BENZYL ALCOHOL	10.	U
95-50-1	1,2-DICHLOROBENZENE	10.	U
95-48-7	2-METHYLPHENOL	10.	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	U
106-44-5	4-METHYLPHENOL	10.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	U
67-72-1	HEXACHLOROETHANE	10.	U
98-95-3	NITROBENZENE	10.	U
78-59-1	ISOPHORONE	10.	U
88-75-5	2-NITROPHENOL	10.	U
105-67-9	2,4-DIMETHYLPHENOL	10.	U
65-85-0	BENZOIC ACID	50.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	U
120-83-2	2,4-DICHLOROPHENOL	10.	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	U
91-20-3	NAPHTHALENE	10.	U
106-47-8	4-CHLOROANILINE	10.	U
87-68-3	HEXACHLOROBUTADIENE	10.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	U
91-57-6	2-METHYLNAPHTHALENE	10.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	U
91-58-7	2-CHLORONAPHTHALENE	10.	U
88-74-4	2-NITROANILINE	50.	U
131-11-3	DIMETHYLPHTHALATE	10.	U
208-96-8	ACENAPHTHYLENE	10.	U
606-20-2	2,6-DINITROTOLUENE	10.	U

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1C

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

BFC37

Lab: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C17

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-NITROANILINE	50.	U
83-32-9	ACENAPHTHENE	10.	U
51-28-5	2,4-DINITROPHENOL	50.	U
100-02-7	4-NITROPHENOL	50.	U
132-64-9	DIBENZOFURAN	10.	U
121-14-2	2,4-DINITROTOLUENE	10.	U
84-66-2	DIETHYLPHTHALATE	10.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	U
86-73-7	FLUORENE	10.	U
100-01-6	4-NITROANILINE	50.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	U
118-74-1	HEXACHLOROBENZENE	10.	U
87-86-5	PENTACHLOROPHENOL	50.	U
85-01-8	PHENANTHRENE	10.	U
120-12-7	ANTHRACENE	10.	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	U
206-44-0	FLUORANTHENE	10.	U
129-00-0	PYRENE	10.	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	U
56-55-3	BENZO(A)ANTHRACENE	10.	U
218-01-9	CHRYSENE	10.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	U
205-99-2	BENZO(B)FLUORANTHENE	10.	U
207-08-9	BENZO(K)FLUORANTHENE	10.	U
50-32-8	BENZO(A)PYRENE	10.	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BFC37

Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 2EU10247C17

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 9/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.70	20.	BJ N
2.					
3.					
4.					
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FORM I SV-TIC 1/87 Rev.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC14

ab Name: ANAMET Contract: 68-W8-0041

b Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

atrix: (soil/water) WATER Lab Sample ID: 9010247-01

mple wt/vol: 1000. (g/mL)ML Lab File ID: 10247B01

vel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

PC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: BFC15

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-02

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B02

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC16

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-03

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B03

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC17

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-04

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B04

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC18

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-05

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B05

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: BFC19

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-06

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B06

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC24

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-07

Sample wt/vol: 30. (g/mL) G Lab File ID: 102478-7

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 7. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/13/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.6	U
319-85-7	beta-BHC	8.6	U
319-86-8	delta-BHC	8.6	U
58-89-9	gamma-BHC	8.6	U
76-44-8	Heptachlor	8.6	U
309-00-2	Aldrin	8.6	U
1024-57-3	Hept. epoxide	8.6	U
959-98-8	Endosulfan I	8.6	U
60-57-1	Dieldrin	17.	U
72-55-9	4,4'-DDE	17.	U
72-20-8	Endrin	17.	U
33213-65-9	Endosulfan II	17.	U
72-54-8	4,4'-DDD	17.	U
1031-07-8	Endo.sulfate	17.	U
50-29-3	4,4'-DDT	17.	U
72-43-5	Methoxychlor	86.	U
53494-70-5	Endrin ketone	17.	U
5103-71-9	a. Chlordane	86.	U
5103-74-2	g. Chlordane	86.	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	86.	U
11104-28-2	Aroclor-1221	86.	U
11141-16-5	Aroclor-1232	86.	U
53469-21-9	Aroclor-1242	86.	U
12672-29-6	Aroclor-1248	86.	U
11097-69-1	Aroclor-1254	170.	U
11096-82-5	Aroclor-1260	170.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC25

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-08

Sample wt/vol: 30. (g/mL) G Lab File ID: 10247B08

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 68. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q.
319-84-6	alpha-BHC	25.	U
319-85-7	beta-BHC	25.	U
319-86-8	delta-BHC	25.	U
58-89-9	gamma-BHC	25.	U
76-44-8	Heptachlor	25.	U
309-00-2	Aldrin	25.	U
1024-57-3	Hept. epoxide	25.	U
959-98-8	Endosulfan I	25.	U
60-57-1	Dieldrin	50.	U
72-55-9	4,4'-DDE	50.	U
72-20-8	Endrin	50.	U
33213-65-9	Endosulfan II	50.	U
72-54-8	4,4'-DDD	50.	U
1031-07-8	Endo.sulfate	50.	U
50-29-3	4,4'-DDT	50.	U
72-43-5	Methoxychlor	250.	U
53494-70-5	Endrin ketone	50.	U
5103-71-9	a. Chlordane	250.	U
5103-74-2	g. Chlordane	250.	U
8001-35-2	Toxaphene	500.	U
12674-11-2	Aroclor-1016	250.	U
11104-28-2	Aroclor-1221	250.	U
11141-16-5	Aroclor-1232	250.	U
53469-21-9	Aroclor-1242	250.	U
12672-29-6	Aroclor-1248	250.	U
11097-69-1	Aroclor-1254	500.	U
11096-82-5	Aroclor-1260	500.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC26

ab Name: ANAMET Contract: 68-W8-0041

ab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

trix: (soil/water) SOIL Lab Sample ID: 9010247-09

ample wt/vol: 30. (g/mL) G Lab File ID: 10247B09

evel: (low/med) LOW Date Received: 10/19/90

Moisture: not dec. 13. dec. 0. Date Extracted: 10/25/90

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

PC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.2	U
319-85-7	beta-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	gamma-BHC	9.2	U
76-44-8	Heptachlor	9.2	U
309-00-2	Aldrin	9.2	U
1024-57-3	Hept. epoxide	9.2	U
959-98-8	Endosulfan I	9.2	U
60-57-1	Dieldrin	18.	U
72-55-9	4,4'-DDE	18.	U
72-20-8	Endrin	18.	U
33213-65-9	Endosulfan II	18.	U
72-54-8	4,4'-DDD	18.	U
1031-07-8	Endo.sulfate	18.	U
50-29-3	4,4'-DDT	18.	U
72-43-5	Methoxychlor	92.	U
53494-70-5	Endrin ketone	18.	U
5103-71-9	a. Chlordane	92.	U
5103-74-2	g. Chlordane	92.	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	92.	U
11104-28-2	Aroclor-1221	92.	U
11141-16-5	Aroclor-1232	92.	U
53469-21-9	Aroclor-1242	92.	U
12672-29-6	Aroclor-1248	92.	U
11097-69-1	Aroclor-1254	92.	U
11096-82-5	Aroclor-1260	180.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC27

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-10

Sample wt/vol: 30. (g/mL) G Lab File ID: 10247B10

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.1	U
319-85-7	beta-BHC	9.1	U
319-86-8	delta-BHC	9.1	U
58-89-9	gamma-BHC	9.1	U
76-44-8	Heptachlor	9.1	U
309-00-2	Aldrin	9.1	U
1024-57-3	Hept. epoxide	9.1	U
959-98-8	Endosulfan I	9.1	U
60-57-1	Dieldrin	18.	U
72-55-9	4,4'-DDE	18.	U
72-20-8	Endrin	18.	U
33213-65-9	Endosulfan II	18.	U
72-54-8	4,4'-DDD	18.	U
1031-07-8	Endo.sulfate	18.	U
50-29-3	4,4'-DDT	18.	U
72-43-5	Methoxychlor	91.	U
53494-70-5	Endrin ketone	18.	U
5103-71-9	a. Chlordane	91.	U
5103-74-2	g. Chlordane	91.	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	91.	U
11104-28-2	Aroclor-1221	91.	U
11141-16-5	Aroclor-1232	91.	U
53469-21-9	Aroclor-1242	91.	U
12672-29-6	Aroclor-1248	91.	U
11097-69-1	Aroclor-1254	180.	U
11096-82-5	Aroclor-1260	180.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC28

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-11

Sample wt/vol: 30. (g/mL) G Lab File ID: 10247B11

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.5	U
319-85-7	beta-BHC	9.5	U
319-86-8	delta-BHC	9.5	U
58-89-9	gamma-BHC	9.5	U
76-44-8	Heptachlor	9.5	U
309-00-2	Aldrin	9.5	U
1024-57-3	Hept. epoxide	9.5	U
959-98-8	Endosulfan I	9.5	U
60-57-1	Dieldrin	19.	U
72-55-9	4,4'-DDE	19.	U
72-20-8	Endrin	19.	U
33213-65-9	Endosulfan II	19.	U
72-54-8	4,4'-DDD	19.	U
1031-07-8	Endo.sulfate	19.	U
50-29-3	4,4'-DDT	19.	U
72-43-5	Methoxychlor	95.	U
53494-70-5	Endrin ketone	19.	U
5103-71-9	a. Chlordane	95.	U
5103-74-2	g. Chlordane	95.	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	95.	U
11104-28-2	Aroclor-1221	95.	U
11141-16-5	Aroclor-1232	95.	U
53469-21-9	Aroclor-1242	95.	U
12672-29-6	Aroclor-1248	95.	U
11097-69-1	Aroclor-1254	95.	U
11096-82-5	Aroclor-1260	190.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: BFC29

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-12

Sample wt/vol: 30. (g/mL) G Lab File ID: 10247B12

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 16. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.5	U
319-85-7	beta-BHC	9.5	U
319-86-8	delta-BHC	9.5	U
58-89-9	gamma-BHC	9.5	U
76-44-8	Heptachlor	9.5	U
309-00-2	Aldrin	9.5	U
1024-57-3	Hept. epoxide	9.5	U
959-98-8	Endosulfan I	9.5	U
60-57-1	Dieldrin	19.	U
72-55-9	4,4'-DDE	19.	U
72-20-8	Endrin	19.	U
33213-65-9	Endosulfan II	19.	U
72-54-8	4,4'-DDD	19.	U
1031-07-8	Endo.sulfate	19.	U
50-29-3	4,4'-DDT	19.	U
72-43-5	Methoxychlor	95.	U
53494-70-5	Endrin ketone	19.	U
5103-71-9	a. Chlordane	95.	U
5103-74-2	g. Chlordane	95.	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	95.	U
11104-28-2	Aroclor-1221	95.	U
11141-16-5	Aroclor-1232	95.	U
53469-21-9	Aroclor-1242	95.	U
12672-29-6	Aroclor-1248	95.	U
11097-69-1	Aroclor-1254	190.	U
11096-82-5	Aroclor-1260	190.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: BFC30

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) SOIL Lab Sample ID: 9010247-13

Sample wt/vol: 30. (g/mL) G Lab File ID: 10247B13

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec. 12. dec. 0. Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.0	U
319-85-7	beta-BHC	9.0	U
319-86-8	delta-BHC	9.0	U
58-89-9	gamma-BHC	9.0	U
76-44-8	Heptachlor	9.0	U
309-00-2	Aldrin	9.0	U
1024-57-3	Hept. epoxide	9.0	U
959-98-8	Endosulfan I	9.0	U
60-57-1	Dieldrin	18.	U
72-55-9	4,4'-DDE	18.	U
72-20-8	Endrin	18.	U
33213-65-9	Endosulfan II	18.	U
72-54-8	4,4'-DDD	18.	U
1031-07-8	Endo.sulfate	18.	U
50-29-3	4,4'-DDT	18.	U
72-43-5	Methoxychlor	90.	U
53494-70-5	Endrin ketone	18.	U
5103-71-9	a. Chlordane	90.	U
5103-74-2	g. Chlordane	90.	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	90.	U
11104-28-2	Aroclor-1221	90.	U
11141-16-5	Aroclor-1232	90.	U
53469-21-9	Aroclor-1242	90.	U
12672-29-6	Aroclor-1248	90.	U
11097-69-1	Aroclor-1254	180.	U
11096-82-5	Aroclor-1260	180.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC34

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-14

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B14

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC35

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-15

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B15

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC36

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-16

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B16

Level: (low/med) LOW Date Received: 10/19/90

% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFC37

Lab Name: ANAMET Contract: 68-W8-0041

Lab Code: ANAMET Case No.: 15130 SAS No.: 5511HQ SDG No.: BFC14

Matrix: (soil/water) WATER Lab Sample ID: 9010247-17

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 10247B17

Level: (low/med) LOW Date Received: 10/19/90

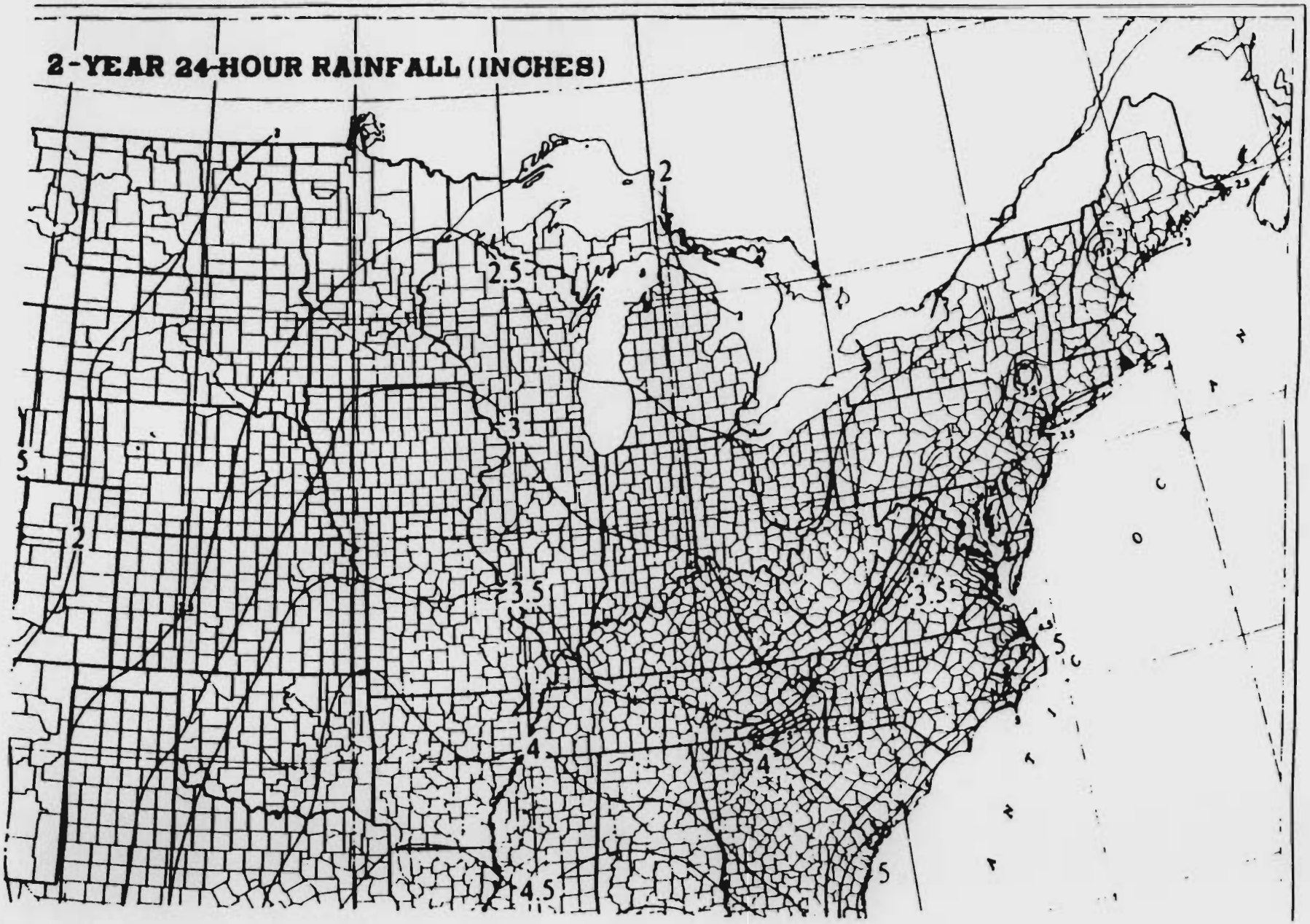
% Moisture: not dec.100. dec. 0. Date Extracted: 10/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/ 6/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC	.050	U
76-44-8	Heptachlor	.050	U
309-00-2	Aldrin	.050	U
1024-57-3	Hept. epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.100	U
72-55-9	4,4'-DDE	.100	U
72-20-8	Endrin	.100	U
33213-65-9	Endosulfan II	.100	U
72-54-8	4,4'-DDD	.100	U
1031-07-8	Endo.sulfate	.100	U
50-29-3	4,4'-DDT	.100	U
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.100	U
5103-71-9	a. Chlordane	.50	U
5103-74-2	g. Chlordane	.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

REFERENCE NO. 34


2-YEAR 24-HOUR RAINFALL (INCHES)
2
2.5
3
3.5
4
4.5
5

REFERENCE NO. 35

OBS	STATE	NAME		LATNUM	LONNUM	NETPREC
1926	30	CORTLAND		42.36	76.11	20.7838
1927	30	PENN YAN 2 SW		42.39	77.05	12.5077
1928	30	COOPERSTOWN		42.42	74.55	18.8574
1929	30	MOUNT MORRIS 2 W		42.44	77.54	10.4639
1930	30	ALBANY WSO	R	42.45	73.48	15.9544
1931	30	GRAFTON		42.47	73.28	22.0022
1932	30	HEMLOCK		42.47	77.37	11.9324
1933	30	CHERRY VALLEY 2 NNE		42.49	74.44	20.2273
1934	30	CANANDAIGUA 3 S		42.51	77.17	12.7669
1935	30	GENEVA RESEARCH FARM		42.53	77.02	13.9284
1936	30	BUFFALO WSO	//R	42.56	78.44	17.7174
1937	30	BATAVIA		43.00	78.11	13.6542
1938	30	GLOVERSVILLE		43.02	74.21	21.0367
1939	30	LITTLE FALLS CITY RES		43.04	74.52	20.7002
1940	30	SYRACUSE WSO	R	43.07	76.07	17.6763
1941	30	ROCHESTER WSO	//R	43.07	77.40	13.6956
1942	30	UTICA FAA AP		43.09	75.23	22.2934
1943	30	SALEM		43.10	73.19	18.9243
1944	30	LOCKPORT 2 NE		43.11	78.39	16.1722
1945	30	SODUS CENTER	//	43.12	77.01	16.8156
1946	30	BROCKPORT 2 NW		43.15	77.58	11.2999
1947	30	GLENS FALLS FAA AP		43.21	73.37	16.5423
1948	30	BOONVILLE 2 SSW		43.27	75.21	36.1207
1949	30	OSWEGO EAST	//	43.28	76.30	20.3430
1950	30	WHITEHALL		43.33	73.24	16.8594
1951	30	INDIAN LAKE 2 SW		43.45	74.17	21.2865
1952	30	LOWVILLE		43.48	75.30	20.7264
1953	30	STILLWATER RESERVOIR		43.53	75.02	25.4735
1954	30	WATERTOWN		43.58	75.52	20.9289
1955	30	WANAKENA RANGER SCHOOL	//	44.09	74.54	21.7079
1956	30	ELIZABETHTOWN		44.13	73.35	15.8559
1957	30	TUPPER LAKE SUNMOUNT		44.14	74.26	18.9485
1958	30	LAKE PLACID CLUB		44.17	73.59	19.0324
1959	30	GOUVERNEUR		44.20	75.29	18.7478
1960	30	PERU 2 WSW		44.34	73.34	11.4853
1961	30	CANTON 4 SE		44.34	75.07	16.1006
1962	30	DANNEMORA		44.43	73.43	13.9140
1963	30	OGDENSBURG 3 NE		44.44	75.27	14.0445
1964	30	CHASM FALLS		44.45	74.13	19.9423
1965	30	LAWRENCEVILLE		44.45	74.39	13.3298
1966	30	CHAZY		44.53	73.26	14.3031
1967	30	MASSENA FAA AP		44.56	74.51	15.1585
1968	31	SOUTHPORT 5 N		34.00	78.01	20.0467
1969	31	WILMINGTON WSO	R	34.16	77.54	17.0337
1970	31	WILLARD 4 SW		34.39	78.02	18.0505
1971	31	LUMBERTON 6 NW		34.42	79.04	14.5491
1972	31	MOREHEAD CITY 2 WNW		34.44	76.44	17.6482
1973	31	SLOAN 3 S		34.47	77.49	20.0112
1974	31	LAURINBURG		34.47	79.27	15.5062
1975	31	MAYSVILLE 6 SW		34.50	77.18	22.4726
1976	31	HAMLET		34.54	79.42	17.2670
1977	31	WADESBORO		34.57	80.04	16.8853
1978	31	MONROE 4 SE		34.58	80.30	17.2467
1979	31	HIGHLANDS 2 S		35.01	83.12	54.9816
1980	31	COWEETA EXP STATION		35.02	83.26	45.1349