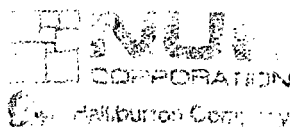




115533



A Halliburton Company



A Halliburton Company

FINAL DRAFT
SITE INSPECTION REPORT
VI CHEMICAL
ST. CROIX, U.S. VIRGIN ISLANDS
VOLUME 2 OF 2

TOP

VOLUME 2 OF 2

FIELD INVESTIGATION TEAM ACTIVITIES AT
UNCONTROLLED HAZARDOUS SUBSTANCES
FACILITIES — ZONE I

NUS CORPORATION
SUPERFUND DIVISION

NUS CORPORATION
SUPERFUND DIVISION

02-9101-04-SI
REV. NO. 0

**FINAL DRAFT
SITE INSPECTION REPORT
VI CHEMICAL
ST. CROIX, U.S. VIRGIN ISLANDS
VOLUME 2 OF 2**

PREPARED UNDER

**TECHNICAL DIRECTIVE DOCUMENT NO. 02-9101-04
CONTRACT NO. 68-01-7346**

FOR THE

**ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY**

SEPTEMBER 4, 1991

**HALLIBURTON NUS ENVIRONMENTAL CORPORATION
SUPERFUND DIVISION**

100574

REFERENCE NO. 9

100575

NUS CORPORATION

II

0725

100576

VI CHEMICAL
02-9101-04
TDD MANAGER-R. SETTINO
LOGBOOK #0725
JANUARY 15, 1991

CONCERN TO US

GUIDANCE FOR PROPER USE OF LOGBOOKS

100577

TABLE OF CONTENTS

-- Recon Questions	p. 4
-- Transfer of Custody	pp 5, 11
-- Off-site Recon	p. 6
-- Off-site Recon Photo Log	pp 9-10
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-- Sampling Inspection Photo Log	p. 27
-- SMO paperwork	rear cover

Thomas Carner 3/19/91

Richard H. [Signature] 3/19/91

[A large diagonal line is drawn across the page, likely indicating a cancellation or a signature.]

Thomas Carver 3/19/91

Richard H. Brown 3/19/91

VI Chemical

02-9101-C

Things to note during recon:

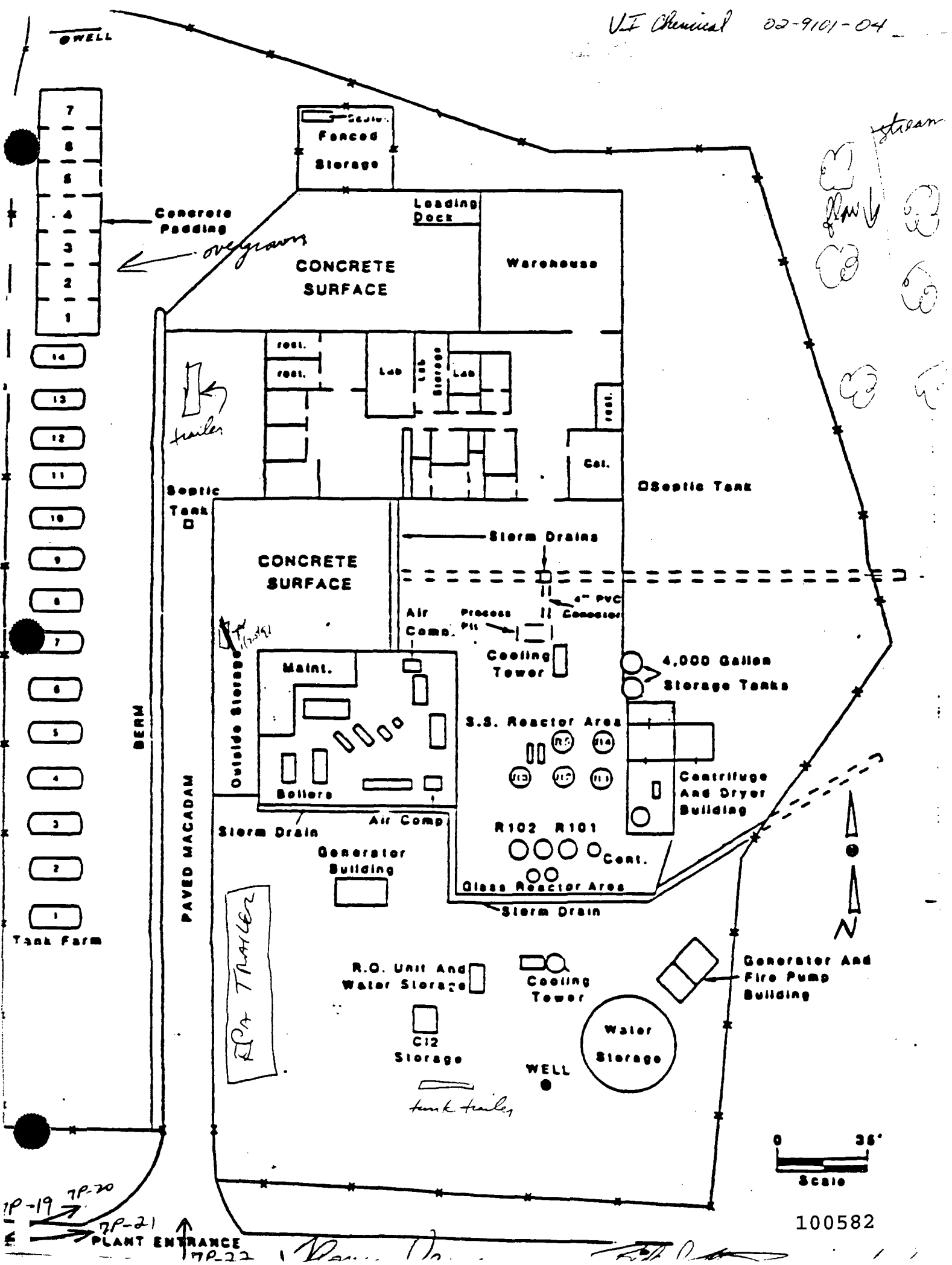
- 1) Are any residences nearby (schools, daycare, etc.)?
 - ↳ Would any of these warrant sampling?
 - ↳ Is someone still living in a trailer on-site?
- 2) Can the drainage "gut" located on the western side of the site be accessed?
 - ↳ Is it too vegetated to sample?
 - ↳ Are there any visual signs of contamination associated with the gut?
 - ↳ Is this gut a viable drainage pathway to Surface Water?
 - ↳ Can the discharge pipe be located?
 - ↳ Are there any upstream industries that could have an effect on the gut?
- 3) Are there any noticeable wetlands / sensitive areas on or near site?
- 4) If possible, please check out route to hospital, noting street names and distances, turns, etc.

Thomas Carner 3/19/91

Triped to 3/19/91

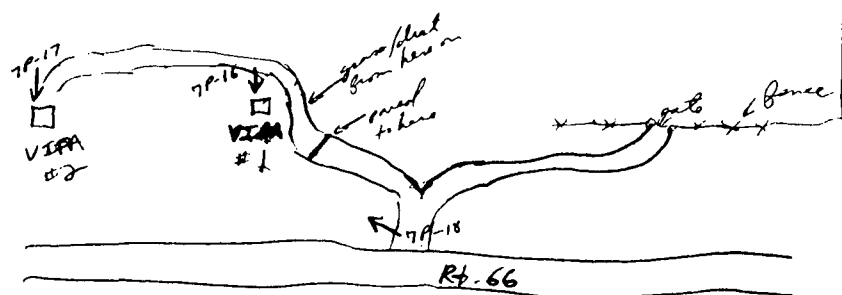
I, RICHARD SETTING, am signing over logbook
No. 0725 to THOMAS VARNER to document field
activities.

Richard A. Setting 1/18/91



100582

↑
N



100583

02-9101-04 V.I. Chemical
St. Croix, U.S.V.I.
January 25, 1991

08:50 arrive at site entrance. paved road leading to VIPA. Well #1 runs right off road leading to site. VIPA #2 is located 100 yards west of VIPA #1. No other appears to be in operation at the moment.
Worker from VIPA just arrived at VIPA #1. He said to call Mr. Henley with VIPA at 778-2400. He thinks this is the right number.

09:02 Site appears inactive. A trailer is near the site entrance. A man at the trailer said EPH is involved with this facility. The area around the site is rural. No residences are visible. A plowed field exists just west of VIPA #2, possibly used by the person. Chain-link fence with barbed wire appears to surround site.

09:12 No processing areas and a large tank are visible. No distinct drainage channel is visible on west side of property where much vegetation (groves, shrubs, small to medium sized trees) exists.

09:22 No discharge pipes are visible. No other structures are located near the site. A small commercial area is located just east of the site. Much heavy vegetation visible behind site. A running stream is visible among the vegetation. It is about 5-6 feet wide and 2-3 inches deep here. is dry
TV 1/25/91

Thomas James 01/25/91 NOT TO SCALE

Field to Station 4/1/91

Thomas James 01/25/91

Field to Station 3/19/91

02-9101-04 V.I. Chemical
St. Croix, U.S. VI
January 25, 1991
No withanda, etc. observed

09:27 Move to intersection of Rt. 66 & Rt. 64
Met USGS employee (Dave Peyton):
River cut at Fair Plains & Golden Grove cut at
Fair Plains run parallel to Rt. 64
and cross Rt. 66 here. Both are dry. A gauging
station is located at the former by Rt. 66 bridge.

→ Alan H. Heekin at USGS (Water Quality Specialist
for USVI) 778-0133
also, Greg Cherry with USGS (knows well info).
There are 8 observation wells here.

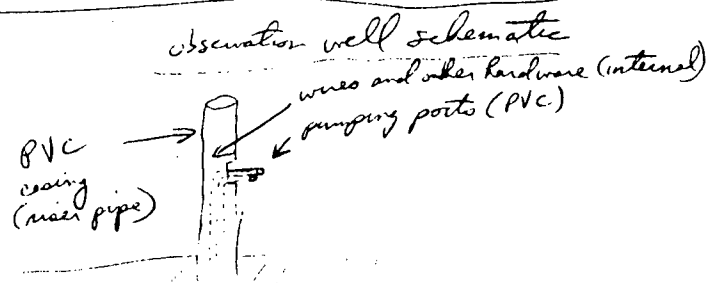
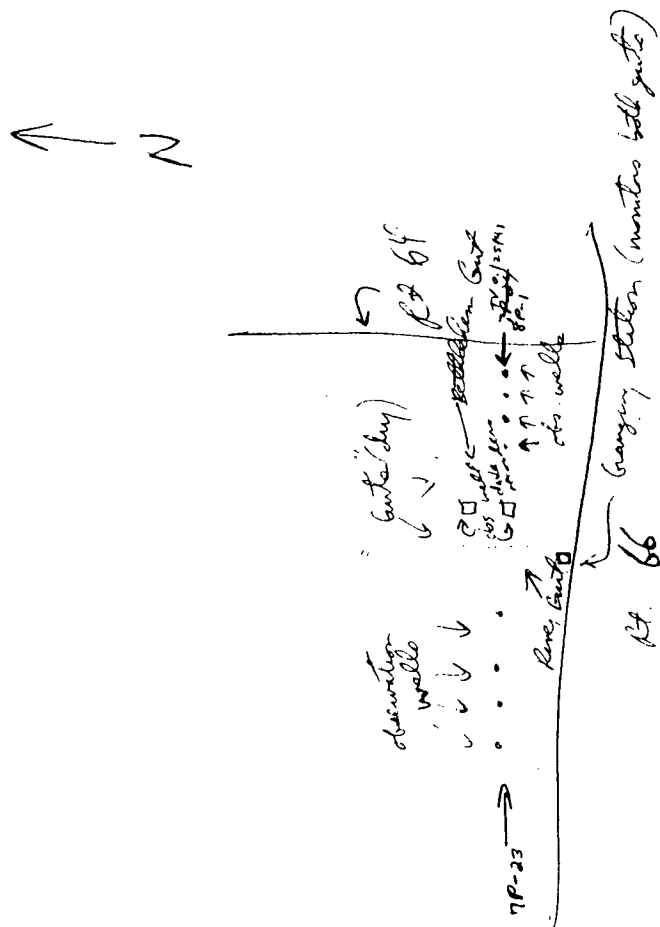
They are being used as part of a ground-
water recharge study. A retaining wall is
currently being installed in path between
cut to see if it will induce recharge.
There are 8 more wells near river. But
observation

at Golden Grove. The wells have PVC
standpipes with two ports sticking out
(horizontally) from which they are pumped
1st John

USGS at St. Thomas contacts:
Judy Steiger (Superior) (809) 774-4307
Richard Foster

USGS at San Juan 749-4346
Juan

10:12 Transducers in obs. wells measure level
and temp every fifteen minutes. Data



100584

Thomas James 01/25/91

Richard H. Steiger 3/19/91

Thomas James 01/25/91

Richard H. Steiger 3/19/91

January 25, 1991

includes the beam data to satellite

which is presumably

10:24 Found Fairbanks #6 well on Rt. 64 (just north of airport) from
Rt. 64. A USGS observation well is located
just across the road from the pump house.
A large water tank is also present here
(presumably)
Pump is running

10:29 Found what is presumably Fairbanks #8 supply
well. It is not currently operating. It
is located approx 300 yds. west of intersection
of Rt. 64 & Rt. 66 on westbound side of
Rt. 66.

10:35 Fairbanks #9 not found. It is not
visible anywhere on Rt. 66. Leave
site.

Thomas Carnes 01/25/91

Robert C. Ebbert 1/19/91

V.I. Chemical
St. Croix, USVI
January 25, 1991

Photograph Log

All photographs taken by D. Gung on 01/25/91

<u>Photo No.</u>	<u>Description</u>	<u>Time</u>
7P-16/75-17	looking south at well ^{TV #1/25/91} No. 1 VIPA #1	08:52
7P-17/75-18	looking south at well VIPA #2.	08:53
7P-18/75-19	looking northwest at ^{TV #1/25/91} VIPA well Nos. 1 and 2.	08:55
7P-19/75-20	looking north (from entrance road) at west side of site.	09:07
7P-20/75-20 ²¹	looking northeast and east at	09:18
7P-21/75-22	the site from entrance road.	
7P-22/75-23	looking north at site entrance.	09:22
7P-23/75-24	looking east at USGS observation	09:39
Damon Carney 01/25/91. Tripod photo 3/19/91		

02-7101-04

S. A. Co. USGS
January 25, 1991

Photograph Log (Cont'd)

Wells on west side of Fair Plains
Gut

8P-1/85-1 Looking at USGS observation wells 09:44
on east side of Bethlehem Gut

8P-2/85-2 Looking east at VIPA well 10:26
^{TV 01/25/91}
~~Fair Plains~~ Fair Plains #6

8P-3/85-3 Looking south at VIPA well 10:33
Fair Plains #8

Thomas Vanner 01/25/91

Richard C. Brown 3/19/91

100587

Custody of this logbook is
transferred to Richard Setters

Thomas Cairnes
8/25/91

Richard Setters 2/28/91

02-9101-04

VI Chemical
St. Croix, USVI

2/28/91

12

SAMPLING INSPECTIONARRIVAL TIME: 0720

<u>NUS PERSONNEL:</u>	<u>TASK</u>	<u>Initials</u>	<u>Date</u>
RICH SETTING	SITE MANAGER	RS	2/28/91
DAVE GRUPP	SSO	DG	2/28/91
CHRISTINE BATER	SIMO	CB	2/28/91
DEWIS FOETER	SAMPLER	DF	2/28/91
GERARD HANWAY	SAMPLER	GH	2/28/91

All above personnel have read and understand the work plan.

Weather Conditions: Sunny, hot
Temp about 90° F
Wind from Southeast 10-20 mph

EQUIPMENT USED:

Monitor 4 -- 469785

HNUA 192920 Field Nady 2/28/91 by CB

QUAJ 469759 On site 2/28/91

CAMERAS SLIDE

PRINT

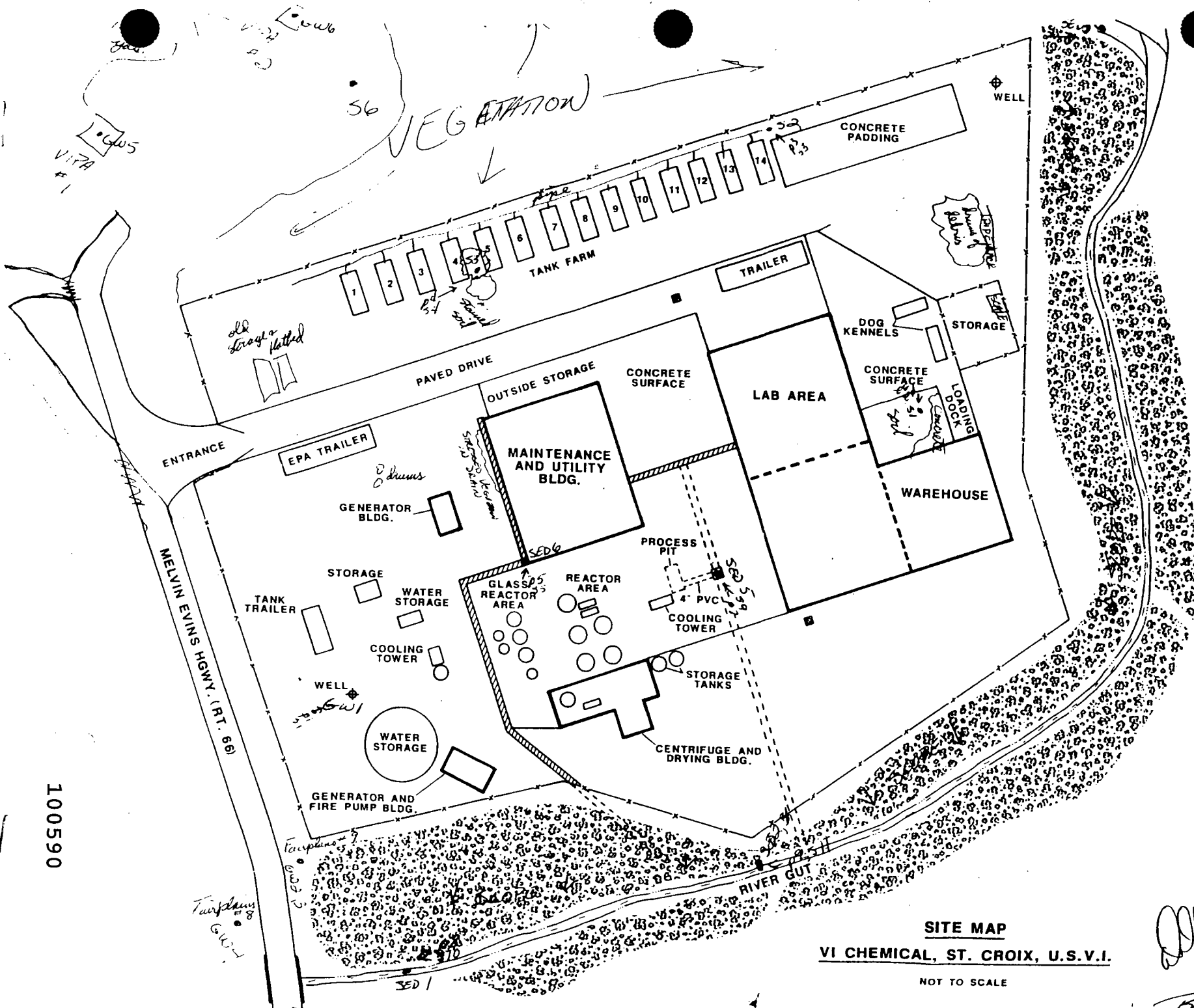
COMPASS

SCBAs -- NOT USED

Richard M. Eddow 2/28/91

On site 3/13/91

100590



LEGEND

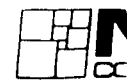
- SEPTIC TANK
- //// STORM DRAINS
- /// VEGETATION

SITE MAP

VI CHEMICAL, ST. CROIX, U.S.V.I.

NOT TO SCALE

Handwritten signature and date: 3/17/76



2/28/91

VI Chemical

02-9101-07 13

0720: Arrive at site. Spoke to guard & told him Mr. Weston had given us permission to sample. He allowed us to enter.

Begin setting up Secor pad. A few workers are on site attempting to recondition some of the machinery.

5:30 2/28/91

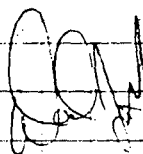
0730: Dave G. filled OVA with hydrogen. Dennis & Gerry begin to Secor equipment. Will use OVA J & HWA.

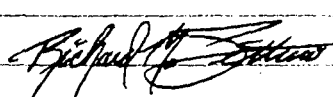
0747: Background on Mini Rad 8 cpm

0755: Met Bill Miller and explained to him what we would be doing. He said that would be fine. He is checking to see if we can bypass the water storage tank and sample right from the well.

0801: OVA will not light. Will let it charge for awhile & try it later.

0806: Bob, Dave, and I walked over to well and Bob showed us how to operate it. We can sample directly from the well through a plastic stopcock.

 3/1/91

 2/28/91

2/28/91

VI Chemical

02-9101-04 14

0817: Dave holds tailgate meeting. All attend.
Nobody from VTHG will accompany us on site;
however, workers will be on site during the day.
(APPROX. 10 WORKERS ON SITE)

0822: Dave, Dennis, Gerry, and I will do a quick
recon to determine sample locations. Don't forget,
latex boots + gloves, and safety glasses.

0825: Stained area on ground between Tank 4
and 5 - 15 ppm on H₂O above disturbed soil

0828: reached concrete pads. Covered with much
debris, drums, old tanks, rear sections overgrown.
No signs of visual contamination.

0833: reached loading dock area. Steel and debris
all around. Drums are no longer present. No
signs of spills or leaks in this area.
E⁺ all in sound condition

0837: 22 drums labeled VTHG Diesel located
between buildings. Storm drain is filled
with sediment. Will use travel to take
a sediment sample. No readings on
H₂O above sediment. Call Chris to tell her not
to do scoop/dredge rinses.

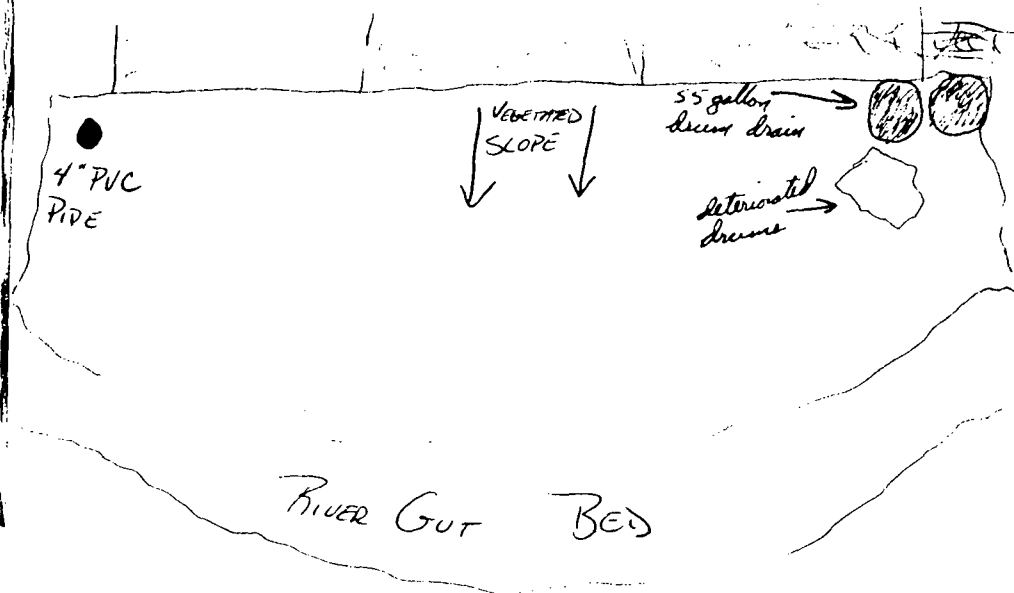
0842: looked at storm drains near maintenance
building - filled with sediment 5 ppm on
H₂O above sediment. Note some stressed vegetation
growing in the drain. No readings above background
in ambient air.

3/13/91

Richard H. [Signature] 2/28/91

Map of Transit Cor.; off site of
the northeast border of site.

NORTH-EAST FENCE OF SITE



0846: A number of salvage drums on concrete pad near maint. building - some full and some empty. Some labelled Hazardous Waste. All are in good condition and show no signs of spills or leaks. Assumed to be from ETH drum removal action; awaiting final removal.

0856: returned to decar pad. EVA still won't light. will try to look at River Cut from Rte 66 and try to walk it back up to the site.

0901: Dave & I leave ~~intersection~~ ^{2/28/91} decar pad and drive east ^{on Rte 66} to Rte 64 and head north on Rte 64. Pass paving facility on west side of 64 along with asphalt facility and adjacent transmission repair facility.

0904: Arrive at asphalt/transmission repair facility to NE of site. Will try to access ^{out} from there.

0907: Can get to gut. Sediment is very soft and muddy. Have located drainage pipe. 4" ^{approx 150 feet} underground PVC. Discharges to the bank ^{back} of the gut.

0911: Walked north along gut. Located at least 3 deteriorated drums near 2 very large discharge pipes. No readings above background or H/V in any area of the gut. Assume these 3 drain pipes to be the ones indicated on Site Map (see pg 5).

100593

Richard H. Brown 2/28/91

Richard H. Brown 3/1/91

Richard H. Brown 2/28/91

2/28/91

VI Chemical

02-9101-04

16

0916: upon closer inspection, discharge pipes are really 2-55 gallon drums underground acting as a drain. No surface water is present in gut.

0941: Drove to downstream location at intersection of Rte 66 & B4. Went to VITA wells to see about upstream -- will be possible there. Walked along western fence line to River Gut -- will take upstream there. of site

0950: Returned to Deon

1005: I tried to call VITA & WAPA to have them meet us there. Mr. Moaler^(WAPA) was out but they said they will call him on the radio & he would probably send someone. Mr. Henley (VITA) was not in. They told me to call back around 1100.

1013: Glorina up. Will take GW1 first. Will be MB/MSD. Chris gets EVA working.

1022: Leave Deon -- go to well in southern portion of site. Will be GW1 (MS/MSD). Well has been running for over an hour so we will not purge for 20 min. Original pH of water is 7. Will add 8 drops of HCl.

[Signature] 3/1/91

[Signature] 2/28/91

2/28/91

VI Chemical

02-9101-04
17

on H₂O or OVA

1027: no readings above background from well water
photo of Dennis collecting GW1
well is located in south corner of site.

1032: finish collecting GW1. return to Leon to get
sample jars and bowls. will collect all on
site soils and sed. SED 55⁵⁴ will be changed to
SED 56 and be collected from a second on
site storm drain.

1042: Arrive at S1 (ms/msd). Will be collected from
old loading dock area where concrete pad
has been removed. No reading above
soil on H₂O or OVA above background.

1043: DF + GH on ATR.

1046: photo of Gerry collecting surface soil S1
located 255° from Northeast corner of lab
building at a distance of 30 feet. Depth: 0-6"

1054: Finish collecting S1. DF + GH off ATR.
Will go to S2 location. S2 will be located
below a pipe that is behind tank 14 but
is connected to all tanks. No readings above
background from pipe on OVA or H₂O.

1058: Arrive at S2. DF + GH on ATR
There is a gate valve at the end of the pipe. The
sample will be collected from soil directly below the
valve opening.

D. J. King 3/1/91

Richard H. Adams 2/28/91

2/28/91

VI Chemical

22-9101-04 18

1100: photo of DF collecting S2 surface soil sample
p5 sample is located directly beneath the pipe connecting
54 the tanks -- Depth: 0-6" ~~Brave~~

1104: finish collecting S2 -- will go to S3
DF + GH off AFR

1106: Arrive at S3 location -- will be taken from
an area of stained soil between tanks T-4
and T-5 of the tank farm. 1 ppm above
background on HXn. 0 ppm above background on
OVA

1107: DF + GH on AFR.

1110: photo of DF collecting surface soil sample S3
p6 sample is located approximately 2 feet to the
55 west of the switch panels between tanks
T-4 and T-5. Depth: 0-6"

1114: Readings above bowl while sniping:
7 ppm OVA
15 ppm HXn

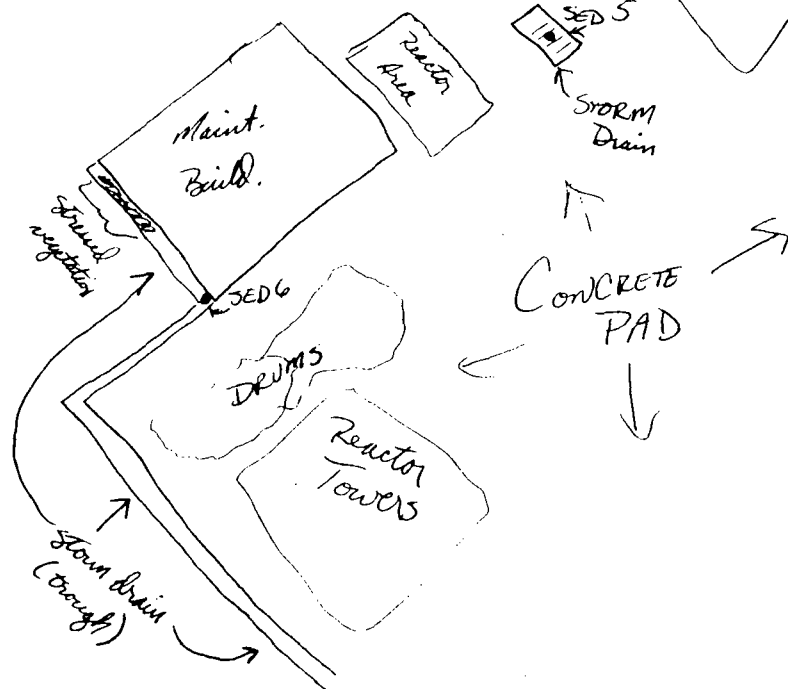
1115: finish collecting S3; DF + GH off AFR

1117: Go back to Decon pad for break -- Decon samples
and give to Chris.

1130: Tried to call Mr. Hanky again but he
was still not in. Will continue to try.

Decon 3/15/91

Richard E. Esten 2/28/91



1152: UG + DF move equipment
Will collect SED 5 and SED 6 next
from on site storm drains.

1142: leave decon + head for SED 6 location
sample will be taken from storm drain approx.
8 feet from southeast corner of maintenance
building ^{2/24/91}

1146: DF + GH on HPR initial reading 1.5 ppm H₂O
above sediment

1148: photo of GH collecting SED 6 located approx
8 feet from ^{south} corner of maint. building
at a bearing of 250°
^{2/24/91}

1151: photo of drainage along southern side of maint.
build. noting stressed vegetation.
^{2/24/91}

1153: Readings above ^{background above} pond while miking:
12 ppm H₂O
4 ppm OVA
No reading above background in breathing
zone.

1155: finish collecting SED 6; DF + GH off HPR
will move to SED 5.

DDA ^{3/13/91}

[Signature] 2/28/91

DDA ^{3/11/91}

[Signature] 2/24/91

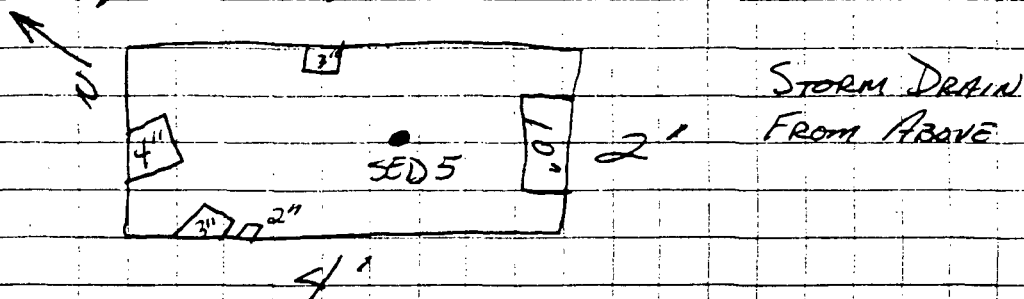
2/28/91

VI Chemical

02-9101-04 20

1158: arrive at SED 5 location -- storm drain grate located in center of concrete pad between 2 buildings

1159: DF & GH on APR lifting grate.
No readings above background above soil
~~2/28/91~~
34 pipes enter drain and one large pipe exits drain.



1205: photo of DF collecting Sed 5; soil wet
~~2/28/91~~ ~~up 96~~ and black - readings above disturbed soil
~~2/28/91~~ ~~59 p9~~ 6 ppm OVA > as micropip in
~~2/28/91~~ ~~59 p7~~ 12 ppm on APR ^{found}
No readings above background in breathing zone.

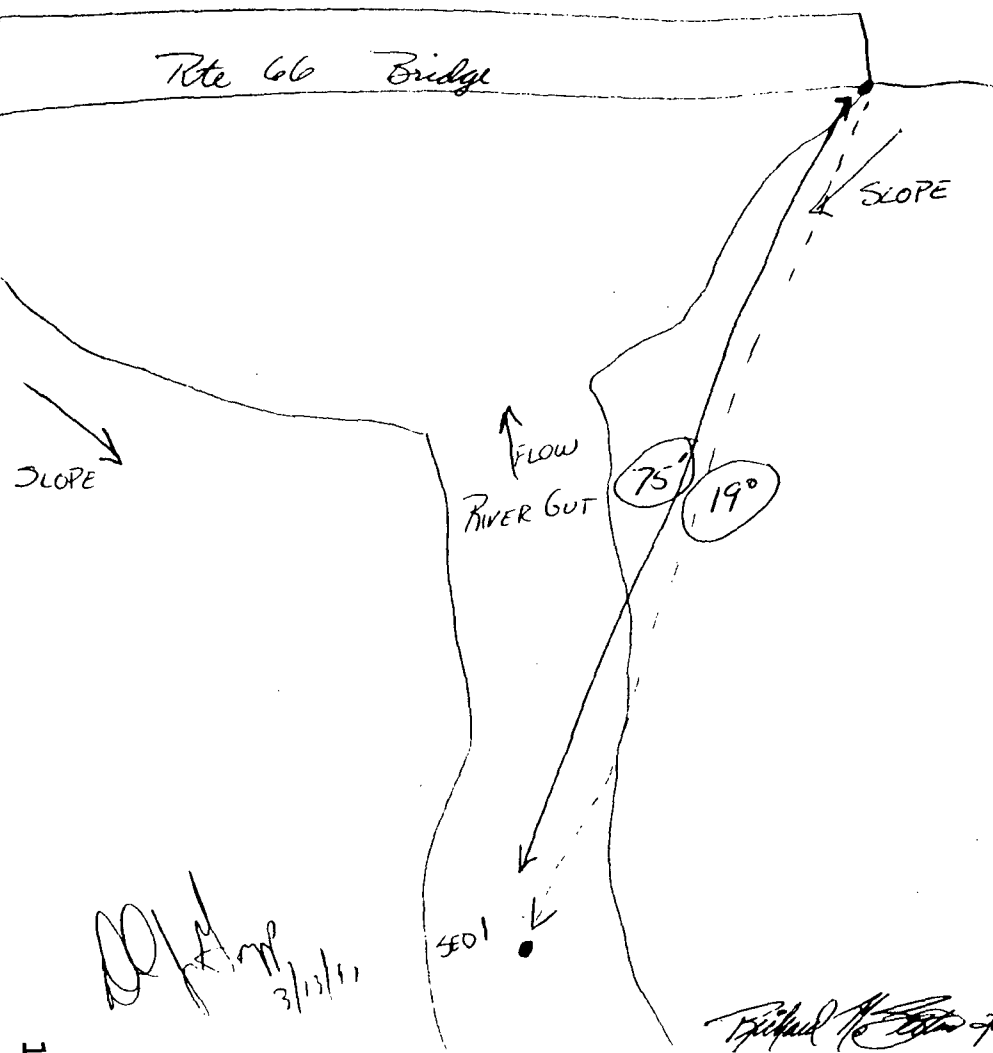
1207: DF & GH off APR return to Leon
+ GH

1209: DF on APR to Leon SED 5 + SED 6

1212: DF & GH off APR will need to Leon more
boulds & barrels for off-site sediment samples.

[Signature] 3/12/91

[Signature] 2/28/91



- 1221: Chris B. has covered back seats of station wagon ^{and floor} so we can drive to the off site sed.
- 1230: Leaving Leon area to drive to off site sed locations
- 1233: arrive at River gut. will take downstream sed first (SED1)
- 1235: arrive at SED1 location - 75 feet at a bearing of 19° from western corner of bridge on Rte 66 that spans River Gut
- 1238: photo of GH collecting SED1 -- size
p10 sediment is very moist ~~at~~ off site
511 sed samples will be collected on level D
sediment is dark black
No readings above background done local while standing on OVA or HVA. No readings along background in breathing zone
- 1243: finish collecting SED1 will drive to SED 2, 3 location
- 1252: Arrive at SED 2, 3 location (Dup.) Sample will be collected approx 25 feet south of drum drain and 75 feet from 4" PVC discharge (see pg 15).
- 1255: photo of DF collecting SED 2, 3 - Depth 0-6"
p11
512
- D. J. Ang 3/15/91* *Richard H. [unclear] 3/15/91*

2/28/91

VI Chemical

02-9101-04
22

1300: SED 4 will be a dup of SED 2 due to a mistake in bottle label. SED 3 will no longer be the dup of SED 2. PICTURE was taken prior to mistake so placard should read SED 2, SED 4.

1311: finish collecting SED 2, SED 4
will drive back to decon pad. GH boots + truck very muddy -- will disrobe and throw both away

1328: Arrive at decon pad. GH & DF will decon sampler well while I try to call VIPA & WAPA again. GH dons new truck and boots before beginning to decon sampler

1330: Spoke with VIPA & WAPA -- both are sending people over to open their wells for us.

1345: Arrive at SED 3 location -- approx. 30 feet from ~~corner~~ North corner of property fence at a bearing of 60° from the fence post. Depth 0-6" Chris calls on radio to tell us WAPA worker is there; asks him to wait 15 minutes until we return.

1347: photo of DF collecting SED 3

p13 No readings above background on OVH
s13 or HAN above disturbed soil

1354: finish collecting SED 3 -- return to decon
Meet with WAPA employee and explain which wells we would like to sample. He says that won't be a problem. I told him we would follow him.

[Signature] 2/28/91

[Signature] 2/28/91

2/28/91

VI Chemical

02-9101-04

23

- 1408: Take sample bottles -- DG, GH + I follow WAPA employees to 1st well -- DF will stay behind to start to breakdown gear + assist CB.
- 1410: Arrive at well: Fairplains #9 -- no pump house
Well runs constantly so we will just sample it
initial pH = 6, will add 8 drops HCl
- 2 more WAPA employees arrive; 1st employee leaves
- 1414: photo of GH -- DG sampling GW2, 3 (WP)
pH well is between 90-100 feet deep
514
- 1421: WAPA employee said ~~there may be~~ some oil may come up in well due to shaft lubrication
This well is scheduled to receive a new pump shortly.
- 1424: finish collecting GW2, 3
will go across street to get GW4 following WAPA employees
- 1426: Arrive at Well Fairplains #8
Well also runs 24 hours so we will sample it directly, initial pH is 7
will add 4 drops of HCl.
- 1430: photo of DG collecting GW4 -- well is enclosed
s/p15 by a pump house
STGFB 2/28/91
- 1436: finish collecting GW4
will return to Decon pad
- 1440: Call DF -- he said no VI Chemical employee has been there yet. I said we would stop on our way back to see if the wells were open yet.

[Signature] 2/28/91

100601

[Signature] 2/28/91

2/28/91

VI Chemical

02-9101-04

24

1446: looked at VIPA Wells #1 & #2; they were unlocked. #1 was running #2 was not so we turned it on and will return back to Leon to drop off samples and get other bottles. Well turned on at 1440.

1453: Arrive at GWS (VIPA #1) There is a pump house, Initial pH = 6, however, well head is located on outside. Will add 8 drops HCl

1456: photo of DG collecting GWS
p17, s16

1502: finish collecting GWS will collect GW6
sopt. Wellhead is outside but power + stopcock are inside of pump house on VIPA #2.

1504: Arrive at VIPA #2; will take GW6 here
Initial pH is 7. Well has been running for 24 minutes. Will add 4 drops HCl

1506: photo of GH collecting GW6
p18
s17

1512: finish collecting GW6 -- shut off power to well. After we finished sampling both well houses were locked again. Will now collect a background soil sample (#6) from this field just north of VIPA #2 to try to establish a normal representative sample of the soil in the area.

Richard H. Sutton 2/28/91

Richard H. Sutton 2/28/91

* Winston after reports the following censuses were taken at the following times:

TROWEL - 1013

BOWL - 1028

TRIP BLANK - 1005

1600: CB + DG load coolers into station →
wagon and leave site to go to Fed EX. DF, GH, +
I continue breaking down decon, packing gear, + loading
van.

1514: Arrive at S6 location, S6 will
be a background sample taken from
the field near V1FA #1 + 2

1516: photo of GH collecting S6 at a distance
of 50 feet and a bearing of 0° from ~~the~~
northern corner of V1FA #2 well house.
Depth: 0-6"

1521: No readings above background above bowl
while mixing on either HVA or DVA

1523: finish collecting S6, will return to
decon.

1526: Returned to decon -- will decon samples
and breakdown decon pad while CB packs samples
and straps coolers.

1720: CB + DG return from fed ex. Report
they dropped samples off at 1700. They
will be shipped Friday (3/1/91.)

1721: Leave site. All dry waste bagged and
left in on-site dumpsters with permission from
David Winston.

100603

Richard H. Egan 2/28/91

Richard H. Egan 2/28/91

Richard H. Egan 2/28/91

Site Summary Notes

VI Chemical 02-9/01-04
26

- While walking along the western fence, the well indicated on the map (p.5.) was observed. It appeared that the well was inoperative and had not been used for several years, as it was disconnected from all hoses and was completely overgrown.
- Facilities surrounding VI Chemical include:
 - To the east: paving co.; asphalt co., small transmission repair facility.
 - To the north: a recycler; asphalt co.
 - none to the west or south
- The background soil was called VI25-\$6 because \$4 and \$5 were previously changed to \$ED5 + \$ED6; in order to avoid confusion with SMO paperwork \$6 was created as an entirely new sample.
- \$ED 4 was switched to be the duplicate of \$ED 2 instead of \$ED 3 being the duplicate of \$ED 2 due to the fact that Dennis mistakenly grabbed the bottles for \$ED 4 and began to fill them. To avoid confusion, sample locations were simply switched.
- Upon review of aerial photos back at NIS office in Edison, it was discovered that \$ED 2, 4 was actually taken from River Gut adjacent to the northeastern edge of the facility, not the southeastern end, as assumed on site. Therefore, the 2 discharge pipes observed were of unknown origin but, however, were still directly linked to the site, most likely the old and new lab drains.
- See SMO paperwork at end of book for CLP - Airbill Nos.

LCF mgp 3/1/91

Richard J. Edman 3/7/91

02-9101-04

VI Chemical

27

PHOTO LOG

* All photos taken on 2/28/91 by R. Ertter.

TIME	ROLL	PICTURE / SLIDE NO.	DESCRIPTION
1027	1	p3/s2	D. Foerster collecting G-W-1
1046	1	p4/s3	G. Hannay collecting surface soil S-1
1100	1	p5/s4	D. Foerster collecting surface soil S-2
1110	1	p6/s5	D. Foerster collecting surface soil S-3
1148	1	p7/s6	G. Hannay collecting SED-6
1151	1	p8/s8	Storm drain along southern side of Maintenance building showing stressed vegetation.
1205	1	p9/s10	D. Foerster collecting SED-5
1238	1	p10/s11	G. Hannay collecting SED-1
1255	1	p11/s12	D. Foerster collecting duplicate sample SED-2, SED-4.
1347	1	p13/s13	D. Foerster collecting SED-3
1414	1	p14/s14	G. Hannay and D. Grupp collecting duplicate sample G-W-2, G-W-3.

C. Grupp

2/10/91

Richard E. Ertter 3/11/91

02-9101-04

VI Chemical

28

Photo Log (cont.)

TIME	ROLL	PICTURE/SLIDE NO.	DESCRIPTION
1430	1	p15/s15	D. Grupp collecting GW-4
1456	1	p17/s16	D. Grupp collecting GW-5
1506	1	p18/s17	G. Hannay collecting GW-6
1516	1	p19/s18	G. Hannay collecting background soil sample S-6.

D. Grupp p15/s15

Richard E. Esten 3/11/91

100606

VI CHEMICAL

CASE # 15933

Compuchem Laboratories
3308 Chapel Hill/Nelson Hwy
P.O. Box 12652

abbrev. COMPUO

RTP NC 27709

Primary contact: Natalie Carter (919)549-8263

Lab type: ORGANICS

Comments:

USDA # 8-3314

Skinner & Sherman, Inc.
300 Second Avenue

abbrev. SKINER

Waltham MA 02254

Primary contact: Antonia Benney (617)890-7200

Lab type: INORGANICS

Comments:

USDA # S-3173

NUS-FIT SAMPLING INFORMATION

DATA RELEASE INFORMATION ONLY

Site Name VI Chemical Shipping Date(s): February 28, 1991
 Case No. 15933 SAS No. _____ Laboratories: Organic CompuChem
 TDD/BRICS 02-9101-04/VI25IS Inorganic Skinner & Sherman
 Sampling Date(s) February 28, 1991 Field SMO: _____
 Signature/Date Christine A. Baxter 2/28/91

<u>Sample Type</u>	<u>NUS Sample No.</u>	<u>Organic CLP No.</u>	<u>Inorganic CLP No.</u>	<u>QC Information</u>	<u>Comments</u>
Groundwater	VI25-GW1	BGL01	MBFA01	MS/MSD	
Groundwater	• GW2	BGL02	MBFA02		
Groundwater	• GW3	BGL03	MBFA03	Dup of GW2	
Groundwater	• GW4	BGL04	MBFA04		
Groundwater	• GW5	BGL05	MBFA05		
Groundwater	• GW6	BGL06	MBFA06		
Sediment	• Sed1	BGL09	MBFA09		
Sediment	• Sed2	BGL10	MBFA10		
Sediment	• Sed3	BGL11	MBFA11		
Sediment	• Sed4	BGL12	MBFA12	Dup of Sed2	
Sediment	• Sed5	BGL17	MBFA17		
Sediment	• Sed6	BGL16	MBFA16		
Soil	• S1	BGL13	MBFA13	MS/MSD	

List samples in the following order: groundwater (GW), surfacewater (SW), sediment (SED), Soils (S), Rinsate
 blanks (RIM) Trip blanks (TRK)

page 1 of 7

100608

Site Name VI Chemical
 Case No. 15933 SAS No. _____
 TDD/BRICS 02.9101.04 / VI25I\$
 Sampling Date(s) February 28, 1991

Shipping Date(s): February 28, 1991
 Laboratories: Organic CompuChem
 Inorganic Skinner + Sherman
 Field SMO: _____
 Signature/Date Christine A. Baxter 2/28/91

<u>Sample Type</u>	<u>NUS Sample No.</u>	<u>Organic CLP No.</u>	<u>Inorganic CLP No.</u>	<u>QC Information</u>	<u>Comments</u>
Soil	VI25-S2	BGL14	MBFA14		
Soil	.S3	BGL15	MBFA15		
Soil	.S6	BGL23	MBFA22		
Rinsate	.Rin1	BGL ⁶⁶ 23 18	MBFA ⁶⁶ 22 18		
Rinsate	.Rin2	BGL19	MBFA19		
Trip Blank	.TBLK1	BGL22	—		

List samples in the following order: groundwater (GW), surfacewater (SW), sediment (SED), Soils (S), Rinsate blanks (RIN), Trip blanks (TBLK)

SITE NAME VI Chemical
 TID/BRICS NO 02 910104 / VI25 IS

DATE 2/28/91
 SIGNATURE Christine Baxter

BOTTLE LOT NO. FORM

NIS Sample Number	No. of 8 oz. jars	Supplier/ Lot No.	No. of 40 ml vials	Supplier/ Lot No.	No. of 80 oz. or 1L amber	Supplier/ Lot No.	No. of 1L Poly Bottles	Supplier/ Lot No.
VI25 - GW1			6	B0212023 ^{IC}	4	X0309013 ^{IC}	3	1029012 ^{IC}
GW2			2		2		1	
GW3			2		2		1	
GW4			2		2		1	
GW5			2		2		1	
GW6			2		2	↓	1	↓
Sed1	2	X0248013 ^{IC}	2	B0212023 ^{IC}				
Sed2	2		2					
Sed3	2		2					
Sed4	2		2					
Sed5	2		2					
Sed6	2		2					
S1	4		4					
S2	2		2					
S3	2		2					
S6	2		2					

100610

IC = I CHEM

EP = Eagle Picher

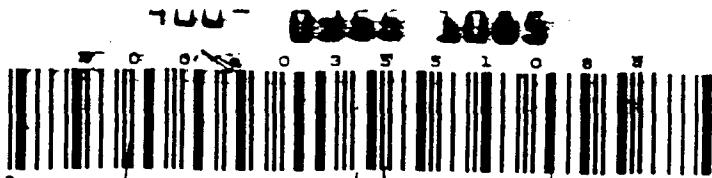
THIRARIC NO 02.9101.04 / VI25IS

SIGNATURE Christine Baxter

BOTTLE LOT NO. FORM

100611

{P = {agle Picher



VI Chem / 02.9101.04 / VI25 IS

Account Number _____ No./TELEX No. (Important) _____

Name _____

(Name) _____

(No P.O. Box Number) _____

Address _____

State/Province _____

ZIP/Postal Code _____

(If Needed First 24 characters will appear on invoice.)

Number for Customs purposes (e.g., IN/VAT/EIN, or as locally required)

2 ☐ Deliver To Address Below 1 ☐ Hold and Notify Telephone Number

Company Name

To (Consignee's Name) Telephone No. / TELEX No. (Important)

Street Address (No P.O. Box Number)

Street Address *organics*

City/Town State/Province

Country ZIP/Postal Code

Destination Customs Broker and Telephone No. / TELEX No.

Identification Number for Customs purposes (e.g., IN/VAT/E.I.N., or as locally required)

*Declared Value Limit U.S. \$100 Priority Mail® ☐ Registered Mail® ☐ Signature Required® ☐ Insured Mail® ☐ Return Receipt® ☐ Signature Confirmation® ☐		These Additional Services Available Between U.S. & Puerto Rico Only
Priority Mail® ☐ Registered Mail® ☐ Signature Required® ☐ Insured Mail® ☐ Return Receipt® ☐ Signature Confirmation® ☐	Priority Mail® ☐ Registered Mail® ☐ Signature Required® ☐ Insured Mail® ☐ Return Receipt® ☐ Signature Confirmation® ☐	30 ☐ Economy Dist. Svc. 60 ☐ Standard 80 ☐ Deferred Heavyweight

Not All Options Available To All Countries

3 ☐ Saturday Delivery 9 ☐ Saturday Pick-Up

4 ☐ Dangerous Goods as per attached Shipper's Declaration

CA ☐ Cargo Aircraft Only

☐ 11 ☐ _____

Options Available To All Countries

Bill Sender 5 ☐ Cash/Check In Advance

☐ Consignee Fill In Fedex Account Number or Credit Card Number Below

Bill Third Party

☐ Credit Card _____ Exp. Date 1

Not All Options Available To All Countries

6 ☐ Bill Sender

7 ☐ Bill Consignee Fill In Fedex Account Number Below

8 ☐ Bill Third Party

EXPORT DECLARATION INFORMATION					No SED Required Sec. 20.5 FTSR	
Country of Ultimate Destination					Parties to Transaction ☐ Related ☒ Non-Related	
Weight ☐ lbs ☒ kgs	Full & Complete Description Of Contents	Declared Value For Customs	Country Of Manufacture	Customs Commodity Code No. (Harmonized Code) REQUIRED if Export Declaration section is completed	Quantity Harmonized Code Units	Export Lic. No. & Exp. Date Gen. Lic. Symbol
Total Weight	Total Declared Value For Carriage	C.I.F. assumed unless indicated below: ☐ C&F ☐ F.O.B.	Total Declared Value For Customs	Specify Currency		

the conditions on the back of this Non-Negotiable Air
all the information contained on this Air Waybill is
Warsaw Convention may apply to this shipment and
damage, loss or delay. Our maximum liability for damage
to U.S. \$100 per shipment or U.S. \$9.07 per pound (U.S.
whichever is greater, and our liability for delay is limited to
our transportation charges or the maximum liability for damage
whichever is greater. However you may declare a higher value, all in
with the terms on the reverse of this Air Waybill.

orders incised by U.S. for ultimate destination must be
"Export Declaration Information". Diversion contrary to U.S.

Received Above Shipment In Good Order And Condition. We Agree To Pay All Charges Including Customs Duties And Taxes As Applicable And To The Conditions Of Contract As Stated On The Reverse Of The Consignee Copy

Consignee Name Printed		100612	
City	State	Zip	Country

[illegible]

VI Chem	02.9101.04	VI2515
---------	------------	--------

2 ☐ Deliver To Address Below 1 ☐ Hold and Notify Telephone Number

Company Name

To (Consignee's Name) Telephone No./TELEX No. (Important)

Street Address (No P.O. Box Number)

Street Address

City/Town State/Province

Country ZIP/Postal Code

Destination Customs Broker and Telephone No./TELEX No.

Identification Number for Customs purposes (e.g., I.N./VAT/E.I.N., or as locally required)

Not All Options Available To All Countries

3 ☐ Saturday Delivery 9 ☐ Saturday Pick-Up

4 ☐ Dangerous Goods as per attached Shipper's Declaration

CA ☐ Cargo Aircraft Only

☐ 11 ☐

Not All Options Available To All Countries

6 ☐ Bill Sender

7 ☐ Bill Consignee: * Fill In Fedex Account Number Below:

8 ☐ Bill Thrd Party

No. of Pkgs		Weight ☒ lbs ☐ kgs	Full & Complete Description Of Contents	Declared Value For Customs	Country Of Manufacture	Customs Commodity Code No. (Harmonized Code) REQUIRED !! Export Declaration section is completed	Quantity Harmonized Code Unit	Export Lic. No. & Exp. Date Gen. Lic. Symbol
1	1							
Total Pkgs.	Total Weight	Total Declared value For Carriage	C.I.F. assumed unless indicated below. ☐ C&F. ☐ F.O.B.	Total Declared Value For Customs	Specify Currency			
1	1				USD			

INVOICE INFORMATION

Country of Export: _____

REPORT DECLARATION INFORMATION

U.S. \$1500 or more declared value for any commodity requiring U.S. SED Required which requires verification of Decl. Information should be entered on the same form as the commodity appropriate information under "Information"

Sec. _____ FTSR

Country of Ultimate Destination: _____ Parties to transaction:
☐ Related ☐ Non-Related

Consignee Name Printed		100613			
Del. Courier Employee #	Date	M	D	Y	Time



United States Environmental Protection Agency
Office of Research and Development
PO Box 816 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Jan. 1981
(For CLP Use Only)

Member 19533

1. Type of Activity (Check one)

☐ BAF ☐ NPLD ☐ RA ☒ SI ☐ STSI
☐ BR ☐ OSM ☐ RD ☐ ST ☐ Other (Specify)
☐ CB ☐ PA ☐ RFS ☐ STPA

Non-Superfund Program

Site Name

VI Chemical

Site Address

Christiansburg, VI

Site City

Site State

ZZ

2. Region Number
2

Sampling Co.
NUSF ITZ

Sampler (Name)
C. Baxter

3. Ship to:
Compuchem Labs
8308 Chapel Hill
Nelson Hwy
RTP, NC 27709
Attn: Natalie Carter

4. Date Shipped
2/28/81

Altitude Number
400-0355-185

Carrier
F

5. Sample Description (Enter in Column A)

1. Surface Water
2. Ground Water
3. Leachate
4. Filtrate
5. Soil/Sediment
6. Oil (SAG)
7. Waste (SAG)
8. Other (SAG) (Specify)

1. Surface Water
2. Ground Water
3. Leachate
4. Filtrate
5. Soil/Sediment
6. Oil (SAG)
7. Waste (SAG)
8. Other (SAG) (Specify)

CLP Sample Number (From label)	(A) Sample Description (From box 9)	(B) Concentration L=low M=med H=high	(C) RAS Analysis			(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number
			VOA	BNA	Peel/PCB				
BGL01	2	L	X	X	X	mslmsd	VI25-GW1	2/28 1021	MBFA 01
BGL02	2	L	X	X	X		GW2	1414	MBFA 02
BGL03	2	L	X	X	X		GW3	1414	MBFA 03
BGL04	2	L	X	X	X		GW4	1430	MBFA 04
BGL05	2	L	X	X	X		GW5	1456	MBFA 05
BGL06	2	L	X	X	X		GW6	1506	MBFA 06
BGL07	1	L	X	X	X		SW		MBFA 07
BGL08	1	L	X	X	X		SW		MBFA 08
BGL09	5	L	X	X	X		Sed1	1238	MBFA 09
BGL10	5	L	X	X	X		Sed2	1256	MBFA 10
BGL11	5	L	X	X	X		Sed3	1247	MBFA 11
BGL12	5	L	X	X	X		Sed4	1256	MBFA 12
BGL13	5	L	X	X	X	mslmsd	S1	1046	MBFA 13
BGL14	5	L	X	X	X		S2	1100	MBFA 14
BGL15	5	L	X	X	X		S3	1110	MBFA 15
BGL16	5	L	X	X	X		S4	1148	MBFA 16
BGL17	5	L	X	X	X		S5	1105	MBFA 17
BGL18	3	L	X	X	X	Rinsate-travel	Rin1	1013	MBFA 18
BGL19	3	L	X	X	X	Rinsate-Bowl	Rin2	1028	MBFA 19
BGL20	3	L	X	X	X		Rin3		MBFA 20

100614

Blue - 8100 Copy Pink - Reaction Copy White - 1 sh Copy for Return to 8100 Yellow - 1 sh Copy

100615



Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-9490 FTS 557-2490

Inorganic Traffic Report

(For CLP Use Only)

Nun
15933

SA (signature)

1. Type of Activity (Check one)		2. Region Number	3. Sampling Co.	4. Date Shipped	5. Alibi Number	6. Sample Description (Enter in Column A)
☐ ENP ☐ NPLD ☐ RA ☒ SI ☐ STS ☐ Other (Specify)		2	NUSFIT2	2/28/91	400-0355-1074	1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (BAS) 7. Waste (SAS) 8. Other (BAS) (Specify)
Non-Superfund Program		Sampler (Name) C. Baxter		Gender F		
Site Name VI Chemical		Ship to: Skinner & Sherman 300 Second Ave Waltham, MA 02154 Attn: Antoinette		Double volume required for matrix split/duplicate aqueous sample. Ship medium and high concentration samples in sealed cans. See reverse for additional instructions.		
City, State Christiansburg, VA						

CLP Sample Number (From label)	Sample Description	Container Type	Reg Analysis	Station Location	Date/Time of Sample Collection	Corresponding Organic Sample Number
MBFA 01	1	L	X	MSL 01	2/28 1027	BGL 01
MBFA 02	2	L	X	GW2	1414	BGL 02
MBFA 03	2	L	X	GW3	1414	BGL 03
MBFA 04	2	L	X	GW4	1430	BGL 04
MBFA 05	2	L	X	GW5	1456	BGL 05
MBFA 06	2	L	X	GW6	1506	BGL 06
MBFA 07	1	L	X	SW1		BGL 07
MBFA 08	1	L	X	SW2		BGL 08
MBFA 09	S	L	X	Sed1	1225 1046	BGL 09
MBFA 10	S	L	X	Sed2	1256	BGL 10
MBFA 11	S	L	X	Sed3	1046	BGL 11
MBFA 12	S	L	X	Sed4	1100	BGL 12
MBFA 13	S	L	X	S1	1046	BGL 13
MBFA 14	S	L	X	S2	1100	BGL 14
MBFA 15	S	L	X	S3	1110	BGL 15
MBFA 16	S	L	X	Sed5	1148	BGL 16
MBFA 17	S	L	X	Sed5	1205	BGL 17
MBFA 18	3	L	X	Rin1	1013	BGL 18
MBFA 19	3	L	X	Rin2	1028	BGL 19
MBFA 20	3	L	X	Rin3		BGL 20

100616

EPA Form 9110-1 (3-88) Replaces EPA Form 2075-6, which may be used. Green - SRSO Copy Pink - Region Copy White - Lab Copy for Return to SRSO Yellow - Lab Copy

IR in Cooler

inorg 2

CHAIN OF CUSTODY RECORD

Airbill No.
400-0355-1014

ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

02 9101-04

Name of Unit and Address:	NUS Corporation 10910 King Georges Post Rd, Suite 1103 Edison, NJ 08837
---------------------------	---

Sample Number	Number of Containers	Description of Samples
MBFA02	1	1 liter poly bottle, low conc, total metals, H ₂ O
MBFA03	1	1 liter poly bottle, low conc, total metals, H ₂ O
MBFA04	1	1 liter poly bottle, low conc, total metals, H ₂ O
MBFA	1	1 liter poly bottle, low conc, total metals, H ₂ O
MBFA	1	1 liter poly bottle, low conc, total metals, H ₂ O
MBFA	1	8 oz jar, total metals, soil, low conc.

Person Assuming Responsibility for Sample:	Christine A. Baxter	Time	Date
		1600	2/28/91

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
see above	C. Baxter				Samples shipped to lab for analysis
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
					100618

T.R. in cooler

CHAIN OF CUSTODY RECORD

mbrg
Airbill No
400 0357 01ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

02-9101-04

Sample Number		Number of Containers	Description of Samples
MBFA18	1	1 liter poly bottle, H ₂ O, low conc., pinstate, total metals	
MBFA19	1	1 liter poly bottle, H ₂ O, low conc., pinstate, total metals	
MBFA01	3	1 liter poly bottles, H ₂ O, low conc., ms/msd, total metals	
MBFA13	2	3 oz glass jars, soil, low conc., ms/msd, total metals	
MBFA14	1	3 oz glass jar, soil, low conc., total metals	
MBFA15	1	3 oz glass jar, soil, low conc., total metals	
MBFA17	1	3 oz glass jar, sediment, low conc., total metals	
MBFA16	1	3 oz glass jar, sediment, low conc., total metals	
MBFA09	1	3 oz glass jar, sediment, low conc., total metals	
MBFA10	1	3 oz glass jar, sediment, low conc., total metals	
MBFA12	1	3 oz glass jar, sediment, low conc., total metals	
MBFA11	1	3 oz glass jar, sediment, low conc., total metals	

Person Assuming Responsibility for Sample:			Time	Date
Christine A. Baxter			10:00	2/23/81

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
See above	C. Baxter				Samples shipped to lab for analysis
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody

100619

T.R. in Cooler

org. 3

1 of 3

CHAIN OF CUSTODY RECORD

Airbill No.

ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

02 9101-04

Name of Unit and Address		NUS Corporation 1090 King George - Post Rd. Suite 1103 Edison, NJ 08817				
Sample Number	Number of Containers	Description of Samples				
BGL09	3	2 VOA vials + 1-8 oz jar, extractable, low conc, Sediment				
BGL10	3	2 VOA vials + 1-8 oz jar, extractable, low conc. Sediment				
BGL12	3	2 VOA vials + 1-8 oz jar, extractable low conc. Sediment				
BGL11	3	2 VOA vials + 1-8 oz jar, extractable, low conc, Sediment				
BGL02	4	2 VOA vials + 2-80 oz chambers, extractable, low conc, H ₂ O				
BGL03	4	2 VOA vials + 2-80 oz chambers, extractable, low conc, H ₂ O				
BGL04	4	2 VOA vials + 2-80 oz chambers, extractable, low conc, H ₂ O				
Person Assuming Responsibility for Sample					Time	Date
Christine A. Baxter					1600	2/28/91
Sample Number	Relinquished By	Received By:	Time	Date	Reason for Change of Custody	
See above	C. Baxter				Samples shipped to lab for analysis	
Sample Number	Relinquished By	Received By:	Time	Date	Reason for Change of Custody	
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody	
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody	
					100620	

1 of 1

T.K. III

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

0192
Air Mail No.
400-0355 1085

02-9101-04

Name of Unit and Address

NUS Corporation
1090 King Georges Post Rd, Suite 1103
Edison, NJ 08837

Sample Number	Number of Containers	Description of Samples
BG-L01	10	6 40 ml VOA vials, ms/msd, low conc, H ₂ O, 4 80 oz ambers, ms/msd, low conc, H ₂ O, Extractables
BG-L17	3	2 40 ml VOA vials, low conc, Sediment 1 8 oz jar, sediment, low conc, extractables
BG-L16	3	2 40 ml VOA vials, low conc, Sediment 1 8 oz jar, sediment, low conc, extractables
BG-L06	4	2 40 ml VOA vials, 2 30 oz ambers, low conc. ext. H ₂ O
BG-L23	3	2 40 ml VOA vials + 1 8 oz jar, extractables, low conc, H ₂ O

Person Assuming Responsibility for Sample:

Christine A. Baxter

Time
1600Date
2/23

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
See above	C. Baxter				Samples shipped to lab for analysis
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
					100621

T.R. in Cooler

CHAIN OF CUSTODY RECORD

Airbill No
4000355-05ENVIRONMENTAL PROTECTION AGENCY - REGION II
Environmental Services Division
EDISON, NEW JERSEY 08817

02 9101-04

Sample Number		Number of Containers	Description of Samples
BGL13	4	2 30 oz ambers, Low Conc., H ₂ O, Rinsate, Extractables	
BGL19	4	2 40 ml VOA Vials, Low Conc., H ₂ O, Rinsate	
BGL14	4	2 30 oz ambers, Low Conc., H ₂ O, Rinsate, Extractables	
BGL14	4	2 40 ml VOA Vials, Low Conc., H ₂ O, Rinsate	
BGL13	6	1 8 oz glass jar, Low Conc., Soil	
BGL15	3	2 8 oz glass jar, Low Conc., Soil, MS/MSD	
BGL22	2	4 40 ml VOA Vials, Low Conc., Soil, MS/MSD	
BGL05	4	2 40 ml VOA Vials, Low Conc., Soil	
		1 8 oz glass jar, Soil, Low Conc.	
		40 ml VOA Vials, H ₂ O, Low Conc., Trip Blank	
		2 40 ml VOA Vials + 2-30 oz ambers, extractable, Low Conc., H ₂ O	

Person Assuming Responsibility for Sample:			Time	Date
Christine A Baxter			1600	2/28/91

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
See above	C. Baxter				Samples shipped to Lab for analysis
	C. Baxter				

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
					100622

RECEIPT FOR SAMPLES AND DOCUMENTS

DATE OF SAMPLE COLLECTION 2/28/91			
NAME OF FACILITY David Weston VIAG Fuels			
FACILITY LOCATION Christiansted, St. Croix			
RECEIPT OF THE DOCUMENT(S) AND/OR SAMPLE(S) DESCRIBED IS HERE BY ACKNOWLEDGED:			
NO.	DESCRIPTION		
3	Soil Samples		
2	Sediment Samples		
1	Groundwater Sample		
TRANSFERRED BY (Signature)		RECIPIENT SIGNATURE	
NAME David Weston		NAME Richard Settino	
TITLE	DATE SIGNED	TITLE	DATE SIGNED
	28/3-6/91	Site Manager	2/28/91

REFERENCE NO. 10

100624

CONTROL NO.:

02-9101-04

DATE:

2/15/91

TIME:

1530

DISTRIBUTION:

- VI Chemical File

BETWEEN:

ANDRES MORALES

OF:

VI
WAPA

PHONE:

(809)773-3775

AND:

RICHARD SETTING

(NUS)

DISCUSSION:

I told him that we would like to sample some public supply wells near the VI Chem site. He said there is a well about 500 - 600 feet from the site, and he said it would be fine to sample it. He said the wells range from about 50 - 100 feet in depth. He said some houses do have private wells but probably none around the site. I told him we would be there on Feb. 28th & that I would call him on the 27th to remind him & to set up a time.

ACTION ITEMS:

2/15/91

100625

REFERENCE NO. 11

100626

CONTROL NO.:

02-9101-04

DATE:

2/13/91

TIME:

0945

DISTRIBUTION:

- VI Chemical Fill

BETWEEN:

DAVID WESTON

OF:

VIAG Fuels
Inc.

PHONE:

4693
(809) 778-4680

AND:

RICHARD SETTIANO

(NUS)

DISCUSSION:

Explained to DW that NUS was contracted by EPA to sample VI Chem. and that I needed his permission to access the property. He said it would be fine for us to take samples at the site. Asked about the well on-site -- pump has power and is in use -- taps are available. Asked about drainage gut -- is easily accessible. VIAG facility is in rebuilding process but is not in production currently. All tanks in farm are empty but 1 has diesel fuel in it. Told DW that I would send him a letter to confirm our March 11 or 12 date.

ACTION ITEMS:

2/13/91

REFERENCE NO. 12

100628

NUS PHOTO I.D.

SITE NAME: VI CHEMICAL

LOCATION: ST. CROIX, CHRISTIANSTED, U.S. V.I.

TDD #: 02-4101-04

DATE: 10/9/89 SCALE: 1"=400 FT

SOURCE: CARIBBEAN AERIAL SURVEYS
SAN JUAN, PUERTO RICO



REFERENCE NO. 13

100630



GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

DEPARTMENT OF PLANNING AND NATURAL RESOURCES

DIVISION OF FISH AND WILDLIFE

LAGOON STREET COMPLEX, ROOM 203, FREDERIKSTED
ST. CROIX, U.S. VIRGIN ISLANDS 00840

14 February 1991

Mr. Richard M. Settino
NUS Corporation
1090 King George Post Road
Suite 1103
Edison, New Jersey 00837

Dear Mr. Settino:

The coastline of the area of concern (one-mile radius around Latitude 17° 42' 35" N and Longitude 64° 47' 27" W) contains a fringing red mangrove/black mangrove wetland and three small ponds, collectively referred to as Manning Bay wetland. Under V.I. Code, Act #5665 - Protection of Indigenous, Endangered and Threatened Fish, Wildlife and Plants, it is the policy of the Territory to prevent a net loss of wetlands and only the Commissioner of the Department of Planning and Natural Resources may issue a permit to cut, prune or remove mangroves.

Fair Plain Gut, an intermittant drainage way which retains water and becomes naturally dammed by beach sediments deposited by longshore wind and wave energy, is located west and south of the sewage treatment plant. This gut receives the flow from an upland watershed of 6,574 acres. Flow rates have been determined at 3.316 cfs (BC and E/CH2M Hill, 1979). Red mangroves line Fair Plain Gut from the Airport Road to the sea. Depending upon the salinity of the water, Fair Plain Gut and adjacent ponds may contain the following fish species: Talapia, white mullet, majarra, tarpon, snook and lady fish.

Power failures at the sewage treatment plant result in the discharge of raw sewage into Fair Plain Gut and, subsequently, Manning Bay wetland and adjacent inshore waters. The resultant fish kill in Fair Plain Gut and Manning Bay wetland is significant. Discharges from the sewage treatment plant and seepage from the municipal landfill into inshore coastal waters adversely impact sensitive seagrass beds and other marine benthic communities, such as coral reefs and algal plains, located both within and seaward of the area of concern.

100631

The coastline in this area is a nesting area for the White-crowned Pigeon (Columba leucocephala), a species of local concern. Other local and migratory birds use this mangrove community. The endangered Brown Pelican (Pelecanus occidentalis) feeds offshore, as will the Least Tern (Sterna antillarum) and Royal Tern (Sterna maxima).

Just outside the circle to the east is Ruth Cay, a nesting area for White-crowned Pigeons and Least Terns. Recently, the Division of Fish and Wildlife introduced the endangered St. Croix ground lizard (Ameiva polops) to this island in an attempt to establish a third population.

Sandy Point Wildlife Refuge, critical habitat for the endangered leather-back seaturtle (as well as nesting habitat for endangered hawksbill and green seaturtles), is located outside the area of concern at St. Croix's extreme southwestern tip.

I trust this information will be of assistance to you. Should you have any questions, please contact me directly.

Sincerely,



William Tobias
Fisheries Biologist

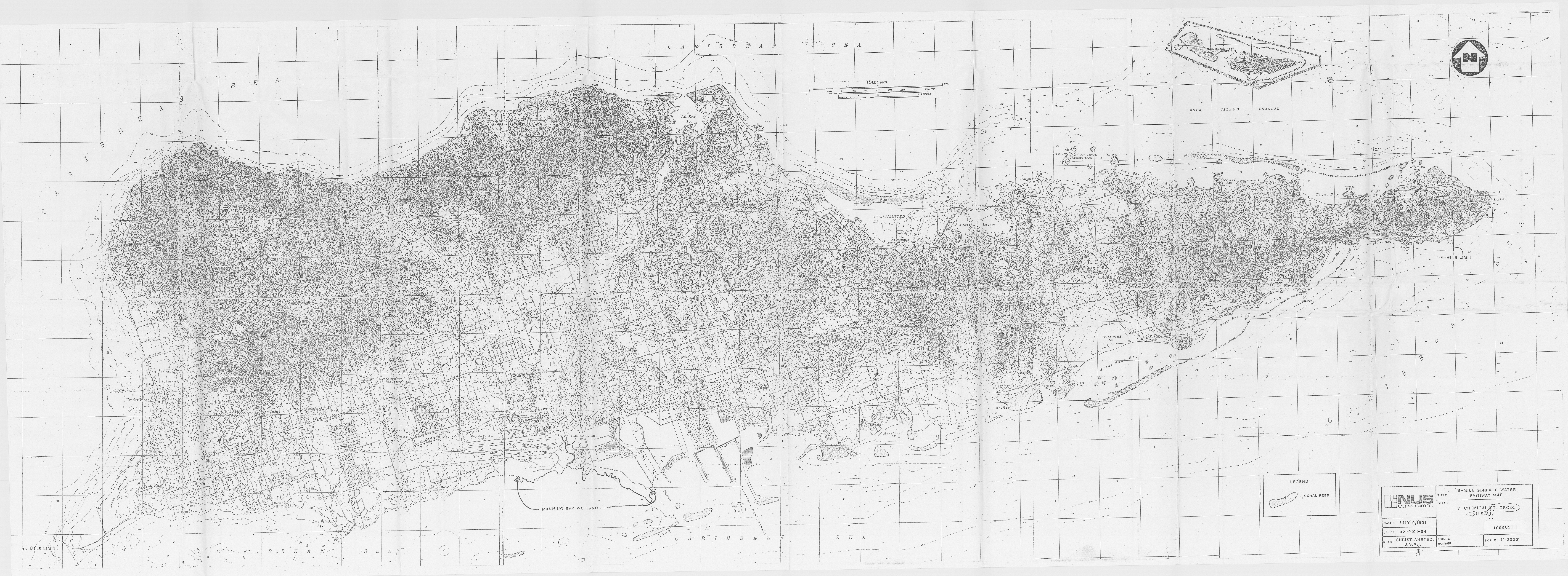
REFERENCE

BC&E-CH2M Hill. 1979. A sediment^e reduction program. Government of the Virgin Islands GN 54000.74 .

WT/cdc

REFERENCE NO. 14

100633



LEGEND
CORAL REEF

	TITLE: 15-MILE SURFACE WATER-PATHWAY MAP	
	SITE: VI CHEMICAL ST. CROIX, U.S.V.I.	
	DATE: JULY 9, 1991	FIGURE NUMBER: 100634
	QUAD: CHRISTIANSTED, U.S.V.I.	SCALE: 1"=2000'

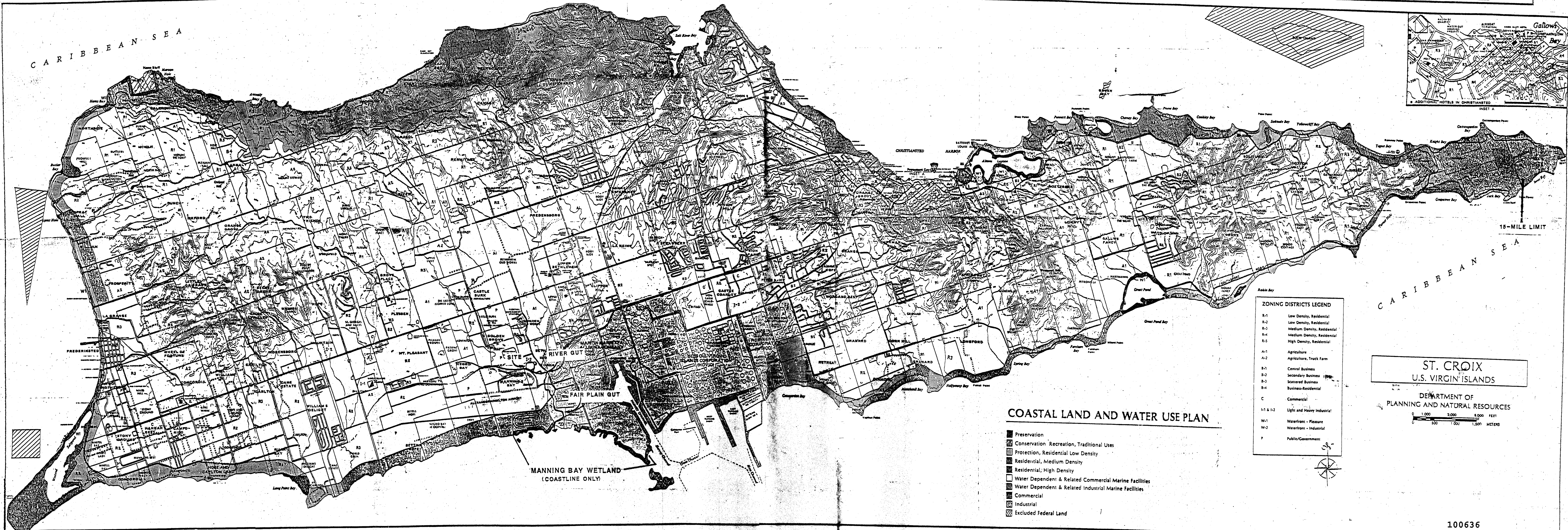
REFERENCE NO. 15

100635



U.S. Virgin Islands Dept. of Planning and Natural Resources Coastal Zone Management Program

Preparation of this map was financed in part under the Coastal Zone Management Act of 1972, administered by the Office of Coastal Zone Management, National Oceanic and Atmospheric Administration.



COASTAL LAND AND WATER USE PLAN

- Preservation
- Conservation Recreation, Traditional Uses
- Protection, Residential Low Density
- Residential, Medium Density
- Residential, High Density
- Water Dependent & Related Commercial Marine Facilities
- Water Dependent & Related Industrial Marine Facilities
- Commercial
- Industrial
- Excluded Federal Land

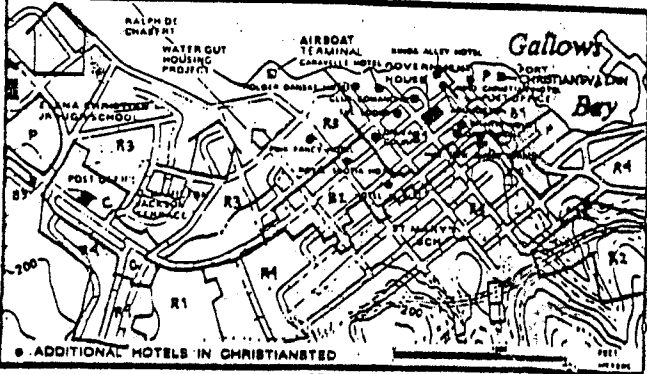
ZONING DISTRICTS LEGEND	
R-1	Low Density, Residential
R-2	Low Density, Residential
R-3	Medium Density, Residential
R-4	Medium Density, Residential
R-5	High Density, Residential
A-1	Agriculture, Truck Farm
A-2	Agriculture, Truck Farm
B-1	Central Business
B-2	Secondary Business
B-3	Scattered Business
B-4	Business-Residential
C	Commercial
I-1 & I-2	Light and Heavy Industrial
W-1	Waterfront - Pleasure
W-2	Waterfront - Industrial
P	Public/Government

ST. CROIX
U.S. VIRGIN ISLANDS

DEPARTMENT OF
PLANNING AND NATURAL RESOURCES

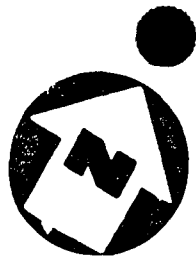
0 1,000 2,000 5,000 FEET
0 500 1,000 1,500 METERS

B-1	Central Business
B-2	Secondary Business
B-3	Scattered Business
B-4	Business-Residential
C	Commercial
I-1 & I-2	Light and Heavy Industrial
W-1	Waterfront - Pleasure
W-2	Waterfront - Industrial
P	Public/Government



REFERENCE NO. 16

100637



GW6
VIPA #2

GW5
VIPA #1

LEGEND

- SEPTIC TANK
- //// STORM DRAINS
- ⊕ VEGETATION
- ⊕ GROUNDWATER SAMPLE
- SEDIMENT SAMPLE
- SOIL SAMPLE

FAIRPLAINS #8
GW4

SAMPLE LOCATION MAP

VI CHEMICAL, ST. CROIX, U.S.V.I.

NOT TO SCALE

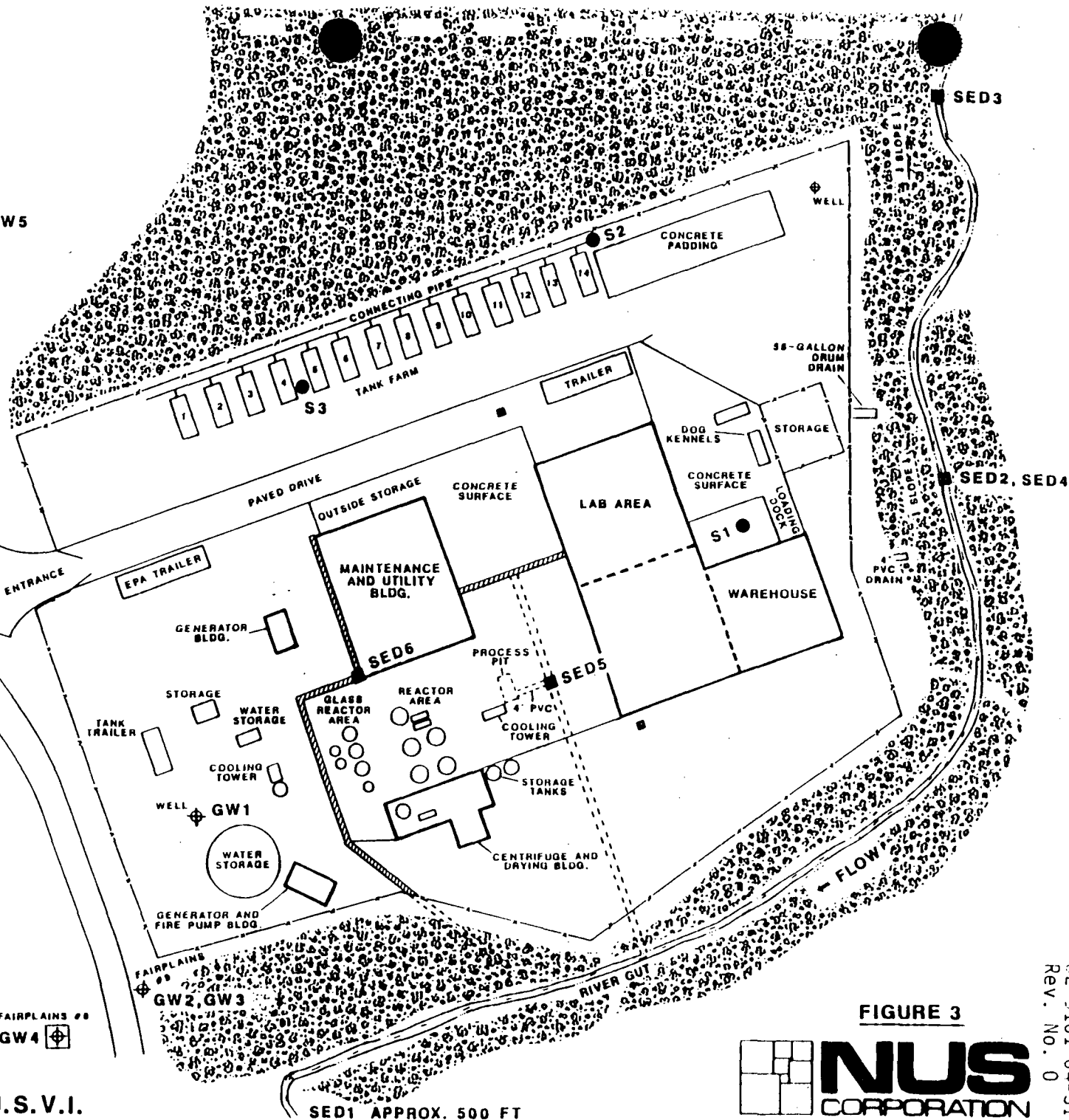


FIGURE 3

NUS
CORPORATION

02-9101-04-S1
Rev. No. 0

100638

TABLE I
SAMPLE DESCRIPTIONS
VI CHEMICAL
ST. CROIX, U.S. VI
CASE NO. 15933

<u>NUS Sample ID Number</u>	<u>CLP Organic Sample Number</u>	<u>CLP Inorganic Sample Number</u>	<u>Collection Time</u>	<u>Sample Type</u>	<u>Sample Location</u>
VI25-GW1**	BGL01	MBFA01	1027	Aqueous	Groundwater sample collected from the production well located in the southern corner of the site.
VI25-GW2	BGL02	MBFA02	1414	Aqueous	Groundwater sample collected from Fairplains No. 9 public supply well.
VI25-GW3*	BGL03	MBFA03	1414	Aqueous	Duplicate groundwater sample collected at the same location as sample VI25-GW2.
VI25-GW4	BGL04	MBFA04	1430	Aqueous	Groundwater sample collected from Fairplains No. 8 public supply well.
VI25-GW5	BGL05	MBFA05	1456	Aqueous	Groundwater sample collected from VIPA No. 1 public supply well.
VI25-GW6	BGL06	MBFA06	1506	Aqueous	Groundwater sample collected from VIPA No. 2 public supply well.
VI25-SED1	BGL09	MBFA09	1238	Sediment	Downstream sediment sample collected from River Gut at a bearing of 19° and a distance of approximately 75 feet from the western corner of the bridge on Route 66 that spans River Gut.

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

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

TABLE I (CONT'D)
SAMPLE DESCRIPTIONS
VI CHEMICAL
ST. CROIX, U.S. VI
CASE NO. 15933

<u>NUS Sample ID Number</u>	<u>CLP Organic Sample Number</u>	<u>CLP Inorganic Sample Number</u>	<u>Collection Time</u>	<u>Sample Type</u>	<u>Sample Location</u>
VI25-SED2	BGL10	MBFA10	1255	Sediment	Sediment sample collected from River Gut on the northeastern side of the site at a distance of approximately 25 feet from the 55-gallon drum drain and approximately 75 feet from the 4-inch PVC discharge pipe.
VI25-SED3	BGL11	MBFA11	1347	Sediment	Upstream sediment sample collected from River Gut at a bearing of 60° and a distance of approximately 30 feet from the fence post located at the north corner of the property.
VI25-SED4*	BGL12	MBFA12	1255	Sediment	Duplicate sediment sample collected at the same location as sample VI25-SED2.
VI25-SED5	BGL17	MBFA17	1205	Sediment	Sediment sample collected from a storm drain located in the center of the concrete pad between the warehouse building and the maintenance building.
VI25-SED6	BGL16	MBFA16	1148	Sediment	Sediment sample collected from a storm drain located at a bearing of 250° and a distance of approximately 8 feet from the south corner of the maintenance building.

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

TABLE I (CONT'D)
SAMPLE DESCRIPTIONS
VI CHEMICAL
ST. CROIX, U.S. VI
CASE NO. 15933

<u>NUS Sample ID Number</u>	<u>CLP Organic Sample Number</u>	<u>CLP Inorganic Sample Number</u>	<u>Collection Time</u>	<u>Sample Type</u>	<u>Sample Location</u>
VI25-S1**	BGL13	MBFA13	1046	Soil	Surface soil sample collected from the loading dock area at a bearing of 255° and a distance of 30 feet from the northeast corner of the warehouse building. Sample depth: 0 to 6 inches.
VI25-S2	BGL14	MBFA14	1100	Soil	Surface soil sample collected from directly below a gate valve at the north end of a pipe connecting the 14 tanks of the tank farm. Sample depth: 0-6 inches.
VI25-S3	BGL15	MBFA15	1110	Soil	Surface soil sample collected from an area of stained soil located approximately 2 feet west of the switch panels between tanks T-4 and T-5. Sample depth: 0 to 6 inches.
VI25-S6	BGL23	MBFA22	1516	Soil	Background surface soil sample collected at a bearing of 0° and a distance of 50 feet from the eastern corner of VIPA No. 2 pump house. Sample depth: 0 to 6 inches.

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

TABLE I (CONT'D)
SAMPLE DESCRIPTIONS
VI CHEMICAL
ST. CROIX, U.S. VI
CASE NO. 15933

<u>NUS Sample ID Number</u>	<u>CLP Organic Sample Number</u>	<u>CLP Inorganic Sample Number</u>	<u>Collection Time</u>	<u>Sample Type</u>	<u>Sample Location</u>
VI25-RIN1	BGL18	MBFA18	1013	Rinsate Blank	Trowel rinsate collected in the field.
VI25-RIN 2	BGL19	MBFA19	1028	Rinsate Blank	Bowl rinsate collected in the field.
VI25-TBLK1	BGL22	-----	1005	Trip Blank	Trip blank; analytefree water obtained from NUS Corp. Region 2 FIT office, Edison, New Jersey.

CLP Data Tracking Form 1 - Revalidation of Case # : 15933
revision 0

Type : Inorganic

CONTRACTOR : FIT REVIEWER : Chris Agnew

TYPE OF ERROR (Crit,Signif,Trans) : No errors

DESCRIPTION : _____

ACTION : _____

TYPE OF ERROR (Crit,Signif,Trans) : _____

DESCRIPTION : _____

ACTION : _____

Critical error = a significant error which effects 2 or more samples
Significant error = categories identified on the Functional Guidelines
Transcription error = can also be considered as major or minor

TOTAL ERRORS - # CRIT : _____ # SIGNIF : _____ # TRANS : _____

TEST REVIEWER : Karen Taylor DATE : 8/14/91

100643

STANDARD OPERATING PROCEDURE

Page 25 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.1: Data Assessment - Contract
Compliance (Total Review - Inorganics)

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

	YES	NO	N/A
A.1.9.17 <u>Form X, XI, XII (Verification of Instrumental Parameters).</u>			
A.1.9.17.1 Is verification report present for:			
Instrument Detection Limits (quarterly)?	☒	__	__
ICP Interelement Correction Factors (annually)?	☒	__	__
ICP Linear Ranges (quarterly)?	☒	__	__
ACTION: If no, contact DPO of the lab.			
A.1.9.17.2 <u>Form X (Instrument Detection Limits)</u> - (Note: IDL is not required for Cyanide.)			
Are IDLs present for:			
all the analytes?	☒	__	__
all the instruments used?	☒	__	__
For both AA and ICP when both are used for same analyte?	☐	__	☒
ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.			
Is IDL greater than CRDL for any analyte?	__	☒	__
If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL?	☐	__	☒
ACTION: If no, flag as estimated all values less than five times IDL of the instrument whose IDL exceeds CRDL.			

100644

STANDARD OPERATING PROCEDURE

Page 26 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.1: Data Assessment - Contract
Compliance (Total Review - Inorganics)

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

	YES	NO	N/A
A.1.9.17.3 <u>Form XI (Linear Ranges)</u>			
Was any sample result higher than high linear range of ICP.	—	☒	—
Was any sample result higher than the highest calibration standard for non-ICP parameters?	—	☒	—
If yes for any of the above, was the sample diluted to obtain the result on Form I?	☐	—	☒
ACTION: If no, flag the result reported on Form I as estimated(J).			
A.1.9.18 <u>Percent Solids of Sediments</u>			
Is soil content in sediment(s) less than 50%?	—	☐	☒
ACTION: If yes, qualify as estimated all data not previously rejected or flagged due to other QC criteria.			

100645

STANDARD OPERATING PROCEDURE

Page 27 of 35

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#	<u>15933</u>	Site	<u>VI Chemical</u>	Matrix:	Soil <u>—</u>
SDG#	<u>MBFA-01</u>	Lab	<u>SKINNER</u>	Water	<u>B</u>
Contractor	<u>NUS-FIT</u>	Reviewer	<u>C. AGNEW</u>	Other	<u>—</u>

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 -

C.C. for the 2-4 Se run was < 0.995 . Associated samples MBFA-2, 3, 4, 5, 6, ¹⁸17, ¹⁹18 are qualified as estimated.

Action:

Estimated $\rightarrow$ Se $\rightarrow$ MBFA-02, 03, 04, 05, 06, ^{18, 19}17, 18

② Coefficient of Correlation for MSA -

C.C. for MSA Sample MBFA 01 and 010 are both less than 0.995. The above samples have been flagged as estimated.

Action: $\rightarrow$ Estimated $\rightarrow$ Se $\rightarrow$ MBFA-01

③ SSR

Spill sample % R for Hg was 137.0 - All positive results for Hg have been flagged as estimated (MBFA-1, 3, 5, 6, 19); % R for TL was 47.2. All associated data has been flagged as estimated (MBFA-1, 2, 3, 4, 5, 6, 18, 19)

Action $\rightarrow$ Estimated $\rightarrow$ Hg - ^{MSFA}MBFA-01, 03, 05, 06, 19 100646

Estimated $\rightarrow$ TL - MBFA-01, 02, 03, 04, 05, 06, 18, 19

STANDARD OPERATING PROCEDURE

Page 13 of 15

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

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

A.2.1 (continuation)

④ ICP Serial Dilutions

% Differences for Ba, Fe, and V were all greater than 10% but less than 100%. All concentrations equal to or greater than $10 \times \text{MDL}$ are flagged as estimated for the above analytes.

Action

Estimated $\rightarrow$ Ba, V, $\rightarrow$ MBFA-01, 02, 03, 04, 05, 06

Estimated $\rightarrow$ Fe $\rightarrow$ MBFA $\rightarrow$ 01, 18

⑤ Interference

Due to a false positive reading for N₂ in the ICP Interference check sample all associated positive results are flagged as estimated -

Action

Estimated $\rightarrow$ N₂ $\rightarrow$ MBFA-01, 02, 03, 04, 05, 06, 18, 19

⑥ Field Ops

Absolute Difference between Field Ops for Hg was greater than MDL - MBFA-02, 03 - MBFA-03 has been previously qualified due to spike sample recover criteria

Action $\rightarrow$ Estimated $\rightarrow$ MBFA 02

STANDARD OPERATING PROCEDURE

Page 29 of 35

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

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

A.2.1 (continuation)

100648

STANDARD OPERATING PROCEDURE

Page 30 of 35

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

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

A.2.2 Contract-Problems/Non-Compliance

MSB Reviewer: _____ Date: _____

Signature

Contractor Reviewer: _____ Date: 1/30/91

Signature

Verified by: _____ Date: _____

100649

STANDARD OPERATING PROCEDURE

Page 31 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.3: Contract Non-Compliance
(SMD Report)

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

CONTRACT NON-COMPLIANCE
(SMD REPORT)

Regional Review of Uncontrolled Hazardous Waste
Site Contract Laboratory Data Package

CASE NO. _____

The hardcopied (laboratory name) _____
Inorganic data package received at Region II has been reviewed and the quality assurance
performance data summarized. The data reviewed included:
SMD Sample No.: _____

Conc. & Matrix: _____

Contract No. WA87-K025, K026, K027 (SCW787) requires that specific analytical work be done at
that associated reports be provided by the contractor to the Regions, EMSL-LV, and SMD.
general criteria used to determine the performance were based on an examination of:

- | | |
|---------------------------------|------------------------------|
| - Data Completeness | - Duplicate Analysis Results |
| - Matrix Spike Results | - Blank Analysis Results |
| - Calibration Standards Results | - MSA Results |

Items of non-compliance with the above contract are described below.

Comments: _____

Reviewer's Initial _____

Date _____

100650

STANDARD OPERATING PROCEDURE

Page 35 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.7: CLP Data Assessment Checklist
Inorganic Analysis

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

INORGANIC REGIONAL DATA ASSESSMENT

Region 2CASE NO. 15933SITE Vt ChemicalLABORATORY SKinner

NO. OF SAMPLES/

MATRIX 0 AqueousSDG# MOFA-01REVIEWER (IF NOT ESD) NUS-F&TSOW# 2/88REVIEWER'S NAME C. HumeDPO: ACTION FYICOMPLETION DATE 2/90/90

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	0	0	0	
2. CALIBRATIONS	0	0	0	
3. BLANKS	0	0	0	
4. ICS	0			
5. LCS	0	0		
6. DUPLICATE ANALYSIS	0	0	0	NA
7. MATRIX SPIKE	0	0	0	
8. MSA		0		
9. SERIAL DILUTION	0			
10. SAMPLE VERIFICATION	0	0	0	
11. OTHER QC	0	0	0	
12. OVERALL ASSESSMENT	0	0	0	

0 = Data has no problems/or qualified due to minor problems.

M = Data qualified due to major problems.

Z = Data unacceptable.

X = Problems, but do not affect data.

ACTION ITEMS:

AREAS OF CONCERN:

NOTABLE PERFORMANCE:

100651

CLP Data Tracking Form 1 - Revalidation of Case # : 15933
revision 0

Type : Inorganic

CONTRACTOR : FIT REVIEWER : Chris Agnew

TYPE OF ERROR (Crit,Signif,Trans) : No errors

DESCRIPTION : _____

ACTION : _____

TYPE OF ERROR (Crit,Signif,Trans) : _____

DESCRIPTION : _____

ACTION : _____

Critical error= a significant error which effects 2 or more samples
significant error= categories identified on the Functional Guidelines
description error = can also be considered as major or minor

PS - # CRIT : _____ # SIGNIF : _____ # TRANS : _____

Karen Taylor DATE : 8/14/91

STANDARD OPERATING PROCEDURE

Page 25 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.1: Data Assessment - Contract
Compliance (Total Review - Inorganics)

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

YES NO N/A

A.1.9.17 Form X, XI, XII (Verification of Instrumental Parameters).

A.1.9.17.1 Is verification report present for:

Instrument Detection Limits (quarterly)?

[☒] -- --

ICP Interelement Correction Factors (annually)?

[☒] -- --

ICP Linear Ranges (quarterly)?

[☒] -- --

ACTION: If no, contact DPO of the lab.

A.1.9.17.2 Form X (Instrument Detection Limits) - (Note: IDL is not required for Cyanide.)

Are IDLs present for: all the analytes?

[☒] -- --

all the instruments used?

[☒] -- --

For both AA and ICP when both are used for same analyte?

[☒] -- --

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

Is IDL greater than CRIL for any analyte?

-- [☒] --

If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRIL, greater than 5 x IDL?

[☐] -- ☒

ACTION: If no, flag as estimated all values less than five times IDL of the instrument whose IDL exceeds CRIL.

100653

STANDARD OPERATING PROCEDURE

Page 26 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.1: Data Assessment - Contract
Compliance (Total Review - Inorganics)

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

YES	NO	N/A
-----	----	-----

A.1.9.17.3 Form XI (Linear Ranges)

Was any sample result higher than high linear range of ICP.

—	[/]	—
---	-------	---

Was any sample result higher than the highest calibration standard for non-ICP parameters?

—	[/]	—
---	-------	---

If yes for any of the above, was the sample diluted to obtain the result on Form I?

[]	—	[/]
-----	---	-------

ACTION: If no, flag the result reported on Form I as estimated(J).

A.1.9.18 Percent Solids of Sediments

Is soil content in sediment(s) less than 50%?

—	[/]	—
---	-------	---

ACTION: If yes, qualify as estimated all data not previously rejected or flagged due to other QC criteria.

STANDARD OPERATING PROCEDURE

Page 27 of 35

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#	<u>15933</u>	Site	<u>VF Channel</u>	Matrix: Soil	<u>10</u>
SDG#	<u>MBFA-09</u>	Lab	<u>SKWen</u>	Water	<u> </u>
Contractor	<u>NUS-FIT</u>	Reviewer	<u>C. Aron</u>	Other	<u> </u>

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.

CC for first Se run was ~~less~~ less than .995.
Sample MBFA-09 was flagged as estimated. CC for
third Se run was less than .995 - Sample(s)
• MBFA 10, 13, 14, 16 are flagged as estimated.
Active!
Estimated → Se → MBFA- 09, 10, 13, 14, 16

② Interference

Due to 2 false Positive Results of N2 in the
ICP interference check sample, all positive N2 concentrations
are flagged as estimated
Active
Estimated → N2 → MBFA- 09, 10, 11, 12, 13, 14, 15, 16, 17, 22

STANDARD OPERATING PROCEDURE

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

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

A.2.1 (continuation)

③ SSR

SS Recoveries for Sb, As, Se, and Zn were all
between 10 and 74% - All associated data has been
flagged as estimated. C Se - MBFA 09, 10, 13, 14, 16 has
been previously qualified per statement #17.

Action:

Estimated → Sb, As, Zn → MBFA - 09, 10, 11, 12, 13, 14, 15, 16, 17, 22

Estimated → Se → MBFA 14, 15, 17, 22

④ ICP Serial Dilutions

% Difference for Cr, Ni were greater than 10% but
less than 100%. Concentrations greater than 10×10^6 are
flagged as estimated.

Action:

Estimated → Cr, Ni → MBFA - 09, 10, 11, 12, 13, 14, 15, 16, 17, 22

STANDARD OPERATING PROCEDURE

Page 29 of 35

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

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

A.2.1 (continuation)

STANDARD OPERATING PROCEDURE

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

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

A.2.2 Contract-Problems/Non-Compliance

- ① Lab transcribed gross U value for sample MBFA-10 for Se.
correct value should be 1.14 U not 5.70 U. Correction was
made in next report as of 9/18/91.
- ② Lab failed to note Dilution on form IS for PB-MBFA-17
200X - , Se-MBFA-10 -5X.

MB Reviewer: _____

Date: _____

Signature

Contractor Reviewer: _____

Date: 8/3/91

Signature

Verified by: _____

Date: _____

100658

STANDARD OPERATING PROCEDURE

Page 35 of 35

Title: Evaluation of Metals Data for the
Contract Laboratory Program
Appendix A.7: CLP Data Assessment Checklist
Inorganic Analysis

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

INORGANIC REGIONAL DATA ASSESSMENT

Region 2CASE NO. 15933SITE VI ChemicalLABORATORY Skinner & Skinner

NO. OF SAMPLES/

MATRIX 10 SoilSDG# MBFA-09REVIEWER (IF NOT ESD) NUS F7TSON# 7/82REVIEWER'S NAME C. ASNEWDFO: ACTION FYICOMPLETION DATE 2/3/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
2. CALIBRATIONS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
3. BLANKS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
4. ICS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
5. LCS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
6. DUPLICATE ANALYSIS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
7. MATRIX SPIKE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
8. MSA	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
9. SERIAL DILUTION	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
10. SAMPLE VERIFICATION	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
11. OTHER QC	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
12. OVERALL ASSESSMENT	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

0 = Data has no problems/or qualified due to minor problems.

M = Data qualified due to major problems.

Z = Data unacceptable.

X = Problems, but do not affect data.

ACTION ITEMS: _____

AREAS OF CONCERN: _____

NOTABLE PERFORMANCE: _____

100659

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NCEAG

3 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	31.80	B		P
7440-36-0	Antimony	14.00	U		P
7440-38-2	Arsenic	4.60	B		F
7440-39-3	Barium	40.30	B	J	P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	68800.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	5.80	B		P
7439-89-6	Iron	121.00	J		P
7439-92-1	Lead	3.10			F
7439-95-4	Magnesium	43500.00			P
7439-96-5	Manganese	2.20	B		P
7439-97-6	Mercury	2.00	JN*		CV
7440-02-0	Nickel	4.00	U		P
7440-09-7	Potassium	2670.00	B		P
7782-49-2	Selenium	4.60	B	J+	F
7440-22-4	Silver	2.00	U		P
7440-23-5	Sodium	548000.00	J		P
7440-28-0	Thallium	3.00	U	JNW	F
7440-62-2	Vanadium	30.00	B	J	P
7440-66-6	Zinc	13.70	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FACILITY NAME

FACILITY ADDRESS

FACILITY PHONE

FACILITY FAX

FACILITY TYPE

FACILITY OPERATOR

FACILITY LOCATION

FACILITY STATUS

FACILITY ID

0.0

Concentration (Units: $\mu\text{g/L}$ or mg/Kg dry weight): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39.40	B		P
7440-36-0	Antimony	14.00	U		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	45.00	B	J	P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	3.00	U		P
7440-70-2	Calcium	69900.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	4.00	U		P
7440-50-8	Copper	11.80	B		P
7439-89-6	Iron	26.20	B		P
7439-92-1	Lead	4.00			F
7439-95-4	Magnesium	48600.00			P
7439-96-5	Manganese	383.00			P
7439-97-6	Mercury	0.20	U	JN*	CV
7440-02-0	Nickel	4.00	U		P
7440-09-7	Potassium	1520.00	B		P
7782-49-2	Selenium	4.00	U	J	F
7440-22-4	Silver	2.00	U		P
7440-23-5	Sodium	363000.00	J		P
7440-28-0	Thallium	3.00	U	JNW	F
7440-62-2	Vanadium	31.80	B	J	P
7440-66-6	Zinc	9.00	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

100661

INORGANIC ANALYSIS DATA SHEET

11-70247 1 350

[illegible]

1. *Phragmites australis* (Cav.) Trin. ex Steud.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

— *Journal of the American Medical Association*, 1997

• **What is the purpose of the study?**

ה ה

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

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

000004

1

INORGANIC ANALYSIS DATA SHEET

177-178

0-7986-1000-9 \$14.95

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

$$f_{\text{eff}} = \frac{f}{1 + \frac{f}{f_{\text{c}}}} \quad (1)$$
 $\Delta = \gamma_1$

1. *Chlorophyll a* (Chl *a*)

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]

1. 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. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

| Trial | Control (n = 10) | MCI (n = 10) | AD (n = 10) |
|-------|------------------|--------------|-------------|
| 1 | 95 | 85 | 75 |
| 2 | 95 | 85 | 75 |
| 3 | 95 | 80 | 70 |
| 4 | 95 | 75 | 65 |
| 5 | 95 | 75 | 65 |

| | |
|-----------|-----|
| % 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 | 44.60 | B | | P |
| 7440-36-0 | Antimony | 14.00 | U | | P |
| 7440-38-2 | Arsenic | 2.00 | U | W | F |
| 7440-39-3 | Barium | 68.10 | B | J | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-41-7 | Cadmium | 3.00 | U | | P |
| 7440-70-2 | Calcium | 127000.00 | | | P |
| 7440-47-3 | Chromium | 4.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 4.70 | B | | P |
| 7439-89-6 | Iron | 11.20 | B | | P |
| 7439-92-1 | Lead | 3.90 | | | F |
| 7439-95-4 | Magnesium | 71600.00 | | | P |
| 7439-96-5 | Manganese | 17.70 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | N* | CV |
| 7440-02-0 | Nickel | 4.00 | U | | P |
| 7440-09-7 | Potassium | 2760.00 | B | | P |
| 7782-49-2 | Selenium | 4.00 | U | J | F |
| 7440-22-4 | Silver | 2.00 | U | | P |
| 7440-23-5 | Sodium | 590000.00 | J | | P |
| 7440-28-0 | Thallium | 3.00 | U | JNW | F |
| 7440-62-2 | Vanadium | 32.30 | B | J | P |
| 7440-66-6 | Zinc | 6.20 | B | | P |
| | Cyanide | | | | NR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

000003

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MREAO1

EPA No.: MREAO1

Sample Description: WATER

Lab Sample ID: MREAO1

Date: 03/01/94

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 | 19.00 | U | | P |
| 7440-36-0 | Antimony | 14.00 | U | | P |
| 7440-38-2 | Arsenic | 2.30 | B | W | F |
| 7440-39-3 | Barium | 34.70 | B | J | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-41-7 | Cadmium | 3.00 | U | | P |
| 7440-70-2 | Calcium | 61300.00 | | | P |
| 7440-47-3 | Chromium | 4.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 4.00 | B | | P |
| 7439-89-6 | Iron | 13.80 | B | | P |
| 7439-92-1 | Lead | 3.70 | | | F |
| 7439-95-4 | Magnesium | 40100.00 | | | P |
| 7439-96-5 | Manganese | 1.00 | U | | P |
| 7439-97-6 | Mercury | 1.20 | | JN* | CV |
| 7440-02-0 | Nickel | 4.00 | U | | P |
| 7440-09-7 | Potassium | 2880.00 | B | | P |
| 7782-49-2 | Selenium | 4.00 | U | J | F |
| 7440-22-4 | Silver | 2.00 | U | | P |
| 7440-23-5 | Sodium | 57200.00 | | J | P |
| 7440-28-0 | Thallium | 3.00 | U | JNW | F |
| 7440-62-2 | Vanadium | 50.30 | | J | P |
| 7440-66-6 | Zinc | 6.20 | B | | P |
| | Cyanide | | | | NR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

100664

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSFAD1

WINNER & SHERMAN LABS

Contract No. 62-00-0100

Lab Order: WINNER

Case No.: 15933

BAS No.:

SOS No.: MSFAD1

Matrix (incl. Aqueous): WATER

Lab Sample ID: 00017-0-0

Net Sample Weight: 0

Date Received: 07/01/77

% 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 | 45.20 | B | | P |
| 7440-36-0 | Antimony | 14.00 | U | | P |
| 7440-38-2 | Arsenic | 2.00 | U | W | F |
| 7440-39-3 | Barium | 49.20 | B | J | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-41-7 | Cadmium | 3.00 | U | | P |
| 7440-70-2 | Calcium | 75800.00 | | | P |
| 7440-47-3 | Chromium | 4.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 15.80 | B | | P |
| 7439-89-6 | Iron | 50.30 | B | | P |
| 7439-92-1 | Lead | 5.90 | | | F |
| 7439-95-4 | Magnesium | 56000.00 | | | P |
| 7439-96-5 | Manganese | 1.30 | B | | P |
| 7439-97-6 | Mercury | 0.72 | JN* | | CV |
| 7440-02-0 | Nickel | 4.00 | U | | P |
| 7440-09-7 | Potassium | 1200.00 | B | | P |
| 7782-49-2 | Selenium | 4.00 | U | J | F |
| 7440-22-4 | Silver | 2.00 | U | | P |
| 7440-23-5 | Sodium | 237000.00 | J | | P |
| 7440-28-0 | Thallium | 3.00 | U | JNW | F |
| 7440-42-2 | Vanadium | 25.10 | B | J | P |
| 7440-46-6 | Zinc | 36.90 | | | P |
| | Cyanide | | | | NR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

000002

621

Concentration Method: g/l or mg/l dry weight NO/NO

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|----|-----|----|
| 7429-90-5 | Aluminum | 15700.00 | | | P |
| 7440-36-0 | Antimony | 4.60 | U | JN | P |
| 7440-38-2 | Arsenic | 2.00 | B | JN | F |
| 7440-39-3 | Barium | 90.30 | | | P |
| 7440-41-7 | Beryllium | 0.27 | U | | P |
| 7440-41-7 | Cadmium | 0.27 | U | | P |
| 7440-70-2 | Calcium | 45600.00 | | | P |
| 7440-47-3 | Chromium | 18.70 | J | | P |
| 7440-48-4 | Cobalt | 14.70 | | | P |
| 7440-50-8 | Copper | 46.40 | | | P |
| 7439-89-6 | Iron | 25700.00 | | | P |
| 7439-92-1 | Lead | 15.10 | | | F |
| 7439-95-4 | Magnesium | 7660.00 | | | P |
| 7439-96-5 | Manganese | 954.00 | | | P |
| 7439-97-6 | Mercury | 0.12 | U | | CV |
| 7440-02-0 | Nickel | 10.30 | J | | P |
| 7440-09-7 | Potassium | 1300.00 | B | | P |
| 7782-49-2 | Selenium | 0.99 | U | JNW | F |
| 7440-22-4 | Silver | 0.54 | U | | P |
| 7440-23-5 | Sodium | 361.00 | B | J | P |
| 7440-28-0 | Thallium | 0.74 | U | | F |
| 7440-62-2 | Vanadium | 32.40 | | | P |
| 7440-66-6 | Zinc | 53.90 | JN | | P |
| | Cyanide | | | | NR |

Color Before: GREY

Clarity Before:

Texture: MEDIUM

Color After: GREY

Clarity After:

Artifacts: YES

Comments:

STONES, ROOTS

000002

U.S. EPA - CLP

INFORMATIONAL DATA SHEET

EPA SAMPLE NO.

METHOD

LAB No. 100667

Lab Report: 100667

Level (1.0/1000): LOW Date Received: 01/04/97

% Solids: 68.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 32400.00 | | | P |
| 7440-36-0 | Antimony | 4.80 | B | JN | P |
| 7440-38-2 | Arsenic | 3.20 | | JN | F |
| 7440-39-3 | Barium | 115.00 | | | P |
| 7440-41-7 | Beryllium | 0.25 | U | | P |
| 7440-41-7 | Cadmium | 0.25 | U | | P |
| 7440-70-2 | Calcium | 74900.00 | | | P |
| 7440-47-3 | Chromium | 16.30 | | | P |
| 7440-48-4 | Cobalt | 23.70 | | | P |
| 7440-50-8 | Copper | 60.50 | | | P |
| 7439-89-6 | Iron | 35800.00 | | | P |
| 7439-92-1 | Lead | 7.50 | | | F |
| 7439-95-4 | Magnesium | 10900.00 | | | P |
| 7439-96-5 | Manganese | 1320.00 | | | P |
| 7439-97-6 | Mercury | 0.14 | U | | CV |
| 7440-02-0 | Nickel | 13.60 | | | P |
| 7440-09-7 | Potassium | 1490.00 | | | P |
| 7782-49-2 | Selenium | 3.70 | U | JNW | F |
| 7440-22-4 | Silver | 0.51 | U | | P |
| 7440-23-5 | Sodium | 1640.00 | | | P |
| 7440-28-0 | Thallium | 0.80 | U | | F |
| 7440-62-2 | Vanadium | 62.10 | | | P |
| 7440-66-6 | Zinc | 73.50 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: FINE.

Color After: BROWN

Clarity After:

Artifacts:

Comments:

100667

U.S. EPA - CLP

EPA SAMPLE NO.

NET WT.

Lab. Receipt Date: 01/24/91

Date Received: 01/24/91

A Solids

57.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 30400.00 | | | P |
| 7440-36-0 | Antimony | 6.70 | B | JN | P |
| 7440-38-2 | Arsenic | 4.10 | | JN | F |
| 7440-39-3 | Barium | 111.00 | | | P |
| 7440-41-7 | Beryllium | 0.35 | B | | P |
| 7440-41-7 | Cadmium | 0.32 | U | | P |
| 7440-70-2 | Calcium | 79900.00 | | | P |
| 7440-47-3 | Chromium | 17.60 | | J | P |
| 7440-48-4 | Cobalt | 24.80 | | | P |
| 7440-50-3 | Copper | 62.00 | | | P |
| 7439-89-6 | Iron | 39200.00 | | | P |
| 7439-92-1 | Lead | 7.50 | | | F |
| 7439-95-4 | Magnesium | 11800.00 | | | P |
| 7439-96-5 | Manganese | 1400.00 | | | P |
| 7439-97-6 | Mercury | 0.15 | U | | CV |
| 7440-02-0 | Nickel | 14.60 | | J | P |
| 7440-09-7 | Potassium | 1500.00 | B | | P |
| 7782-49-2 | Selenium | 1.30 | U | JNW | F |
| 7440-22-4 | Silver | 0.64 | U | | P |
| 7440-23-5 | Sodium | 1580.00 | B | J | P |
| 7440-28-0 | Thallium | 1.00 | U | | F |
| 7440-62-2 | Vanadium | 63.20 | | | P |
| 7440-66-6 | Zinc | 82.30 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: FINE

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

ROOTS

100668

INORGANIC ANALYSIS REPORT

Date Received: 10/1/79

Date Received: 10/1/79

% Solids: 55.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 33600.00 | | | P |
| 7440-36-0 | Antimony | 5.00 | U | JN | P |
| 7440-38-2 | Arsenic | 3.60 | | JN | F |
| 7440-39-3 | Barium | 122.00 | | | P |
| 7440-41-7 | Beryllium | 0.29 | U | | P |
| 7440-41-7 | Cadmium | 0.29 | U | | P |
| 7440-70-2 | Calcium | 92100.00 | | | P |
| 7440-47-3 | Chromium | 16.80 | | J | P |
| 7440-48-4 | Cobalt | 25.40 | | | P |
| 7440-50-8 | Copper | 64.80 | | | P |
| 7439-89-6 | Iron | 38400.00 | | | P |
| 7439-92-1 | Lead | 7.80 | | | F |
| 7439-95-4 | Magnesium | 11800.00 | | | P |
| 7439-96-5 | Manganese | 1430.00 | | | P |
| 7439-97-6 | Mercury | 0.12 | U | | CV |
| 7440-02-0 | Nickel | 15.20 | | J | P |
| 7440-09-7 | Potassium | 1600.00 | | | P |
| 7782-49-2 | Selenium | 1.20 | U | JNW | F |
| 7440-22-4 | Silver | 0.59 | U | | P |
| 7440-23-5 | Sodium | 1750.00 | | J | P |
| 7440-28-0 | Thallium | 0.87 | U | | F |
| 7440-62-2 | Vanadium | 64.80 | | | P |
| 7440-66-6 | Zinc | 79.90 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: FINE

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

ROOTS

100669

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

78017

3. Solider

31.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 9400.00 | | | P |
| 7440-36-0 | Antimony | 26.60 | | JN | P |
| 7440-38-2 | Arsenic | 8.00 | | JN | F |
| 7440-39-3 | Barium | 48.60 | | | P |
| 7440-41-7 | Beryllium | 0.23 | U | | P |
| 7440-41-7 | Cadmium | 0.23 | U | | P |
| 7440-70-2 | Calcium | 51200.00 | | | P |
| 7440-47-3 | Chromium | 57.60 | | J | P |
| 7440-48-4 | Cobalt | 13.80 | | | P |
| 7440-50-8 | Copper | 367.00 | | | P |
| 7439-89-6 | Iron | 183000.00 | | | P |
| 7439-92-1 | Lead | 466.00 | | | F |
| 7439-95-4 | Magnesium | 4740.00 | | | P |
| 7439-96-5 | Manganese | 925.00 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | 47.80 | | J | P |
| 7440-09-7 | Potassium | 495.00 | B | | P |
| 7782-49-2 | Selenium | 0.87 | U | JN | F |
| 7440-22-4 | Silver | 0.46 | U | | P |
| 7440-23-5 | Sodium | 314.00 | B | J | P |
| 7440-28-0 | Thallium | 0.65 | U | | F |
| 7440-62-2 | Vanadium | 2.20 | B | | P |
| 7440-66-6 | Zinc | 1500.00 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

STONES, ROOTS

000014

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO. 1

DATE OF ANALYSIS

DATE OF SAMPLE

DATE OF ANALYSIS

Solid

64.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 10600.00 | | | P |
| 7440-36-0 | Antimony | 15.50 | B | JN | P |
| 7440-38-2 | Arsenic | 5.50 | | JN | F |
| 7440-39-3 | Barium | 95.60 | | | P |
| 7440-41-7 | Beryllium | 0.30 | U | | P |
| 7440-41-7 | Cadmium | 4.50 | | | P |
| 7440-70-2 | Calcium | 42100.00 | | | P |
| 7440-47-3 | Chromium | 110.00 | | J | P |
| 7440-48-4 | Cobalt | 17.30 | | | P |
| 7440-50-8 | Copper | 109.00 | | | P |
| 7439-89-6 | Iron | 121000.00 | | | P |
| 7439-92-1 | Lead | 187.00 | | S | F |
| 7439-95-4 | Magnesium | 5000.00 | | | P |
| 7439-96-5 | Manganese | 1420.00 | | | P |
| 7439-97-6 | Mercury | 0.15 | U | | CV |
| 7440-02-0 | Nickel | 49.60 | | J | P |
| 7440-09-7 | Potassium | 659.00 | B | | P |
| 7782-49-2 | Selenium | 1.20 | U | JNM | F |
| 7440-22-4 | Silver | 0.60 | U | | P |
| 7440-23-5 | Sodium | 361.00 | B | J | P |
| 7440-28-0 | Thallium | 0.89 | U | W | F |
| 7440-62-2 | Vanadium | 14.30 | B | | P |
| 7440-66-6 | Zinc | 1710.00 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

STONES, ROOTS

100009

100671

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DATE

ANALYST: J. L. HARRIS DATE: 12/13/91 CAS NO.: 100672

LAB. NAME: EPA-CLP-100672

DATE RECEIVED: 12/04/91

% Solids: 54.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 13600.00 | | | P |
| 7440-36-0 | Antimony | 3.90 | U | JN | P |
| 7440-38-2 | Arsenic | 1.10 | B | JNW | F |
| 7440-39-3 | Barium | 108.00 | | | P |
| 7440-41-7 | Beryllium | 0.23 | U | | P |
| 7440-41-7 | Cadmium | 0.23 | U | | P |
| 7440-70-2 | Calcium | 69300.00 | | | P |
| 7440-47-3 | Chromium | 19.60 | | J | P |
| 7440-48-4 | Cobalt | 13.40 | | | P |
| 7440-50-8 | Copper | 58.70 | | | P |
| 7439-89-6 | Iron | 21500.00 | | | P |
| 7439-92-1 | Lead | 9.00 | | | F |
| 7439-95-4 | Magnesium | 7630.00 | | | P |
| 7439-96-5 | Manganese | 735.00 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 10.70 | | J | P |
| 7440-09-7 | Potassium | 2170.00 | | | P |
| 7782-49-2 | Selenium | 0.91 | U | JNW | F |
| 7440-22-4 | Silver | 0.46 | U | | P |
| 7440-23-5 | Sodium | 333.00 | B | J | P |
| 7440-28-0 | Thallium | 0.68 | U | | F |
| 7440-32-2 | Vanadium | 74.70 | | | P |
| 7440-66-6 | Zinc | 142.00 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

STONES, ROOTS

100672

U.S. EPA - OLP

EPA SAMPLE NO.

LABORATORY ANALYSIS DATA SHEET

DATE

Date Received: 01/11/17

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|----|-----|----|
| 7429-90-5 | Aluminum | 21700.00 | | | P |
| 7440-36-0 | Antimony | 4.00 | U | JN | P |
| 7440-38-2 | Arsenic | 7.60 | JN | | P |
| 7440-39-3 | Barium | 135.00 | | | P |
| 7440-41-7 | Beryllium | 0.24 | U | | P |
| 7440-41-7 | Cadmium | 0.24 | U | | P |
| 7440-70-2 | Calcium | 23300.00 | | | P |
| 7440-47-3 | Chromium | 27.90 | J | | P |
| 7440-48-4 | Cobalt | 21.10 | | | P |
| 7440-50-3 | Copper | 99.60 | | | P |
| 7439-89-6 | Iron | 44100.00 | | | P |
| 7439-92-1 | Lead | 35.30 | | W | P |
| 7439-95-4 | Magnesium | 7600.00 | | | P |
| 7439-96-5 | Manganese | 1050.00 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 13.80 | J | | P |
| 7440-09-7 | Potassium | 2990.00 | | | P |
| 7782-49-2 | Selenium | 0.90 | U | JNW | P |
| 7440-22-4 | Silver | 0.47 | U | | P |
| 7440-23-5 | Sodium | 321.00 | BJ | | P |
| 7440-28-0 | Thallium | 0.67 | U | | P |
| 7440-62-2 | Vanadium | 97.20 | | | P |
| 7440-66-6 | Zinc | 387.00 | JN | | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

100673

000007

ROOTS, STONES

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DATE

Date of Analysis: 03/01/01

Acids: 78.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 21000.00 | | | P |
| 7440-36-0 | Antimony | 9.20 | B | JN | P |
| 7440-38-2 | Arsenic | 9.10 | | JN | F |
| 7440-39-3 | Barium | 196.00 | | | P |
| 7440-41-7 | Beryllium | 0.24 | U | | P |
| 7440-41-7 | Cadmium | 0.24 | U | | P |
| 7440-70-2 | Calcium | 43100.00 | | | P |
| 7440-47-3 | Chromium | 49.00 | | J | P |
| 7440-48-4 | Cobalt | 22.30 | | | P |
| 7440-50-8 | Copper | 73.70 | | | P |
| 7439-89-6 | Iron | 31700.00 | | | P |
| 7439-92-1 | Lead | 322.00 | | S | F |
| 7439-95-4 | Magnesium | 7420.00 | | | P |
| 7439-96-5 | Manganese | 987.00 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | 33.50 | | J | P |
| 7440-09-7 | Potassium | 2920.00 | | | P |
| 7782-49-2 | Selenium | 0.97 | U | JNW | F |
| 7440-22-4 | Silver | 0.49 | U | | P |
| 7440-23-5 | Sodium | 639.00 | B | J | P |
| 7440-28-0 | Thallium | 0.73 | U | | F |
| 7440-62-2 | Vanadium | 63.50 | | | P |
| 7440-66-6 | Zinc | 362.00 | | JN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

100674

ROOTS

000008

INORGANIC ANALYSIS DATA SHEET

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum | 19200.00 | | | P |
| 7440-36-0 | Antimony | 3.50 | U | SN | P |
| 7440-38-2 | Arsenic | 1.90 | B | SN | F |
| 7440-39-3 | Barium | 119.00 | | | P |
| 7440-41-7 | Beryllium | 0.21 | U | | P |
| 7440-41-7 | Cadmium | 0.21 | U | | P |
| 7440-70-2 | Calcium | 18000.00 | | | P |
| 7440-47-3 | Chromium | 20.00 | | S | P |
| 7440-48-4 | Cobalt | 19.50 | | | P |
| 7440-50-8 | Copper | 43.70 | | | P |
| 7439-29-6 | Iron | 25300.00 | | | P |
| 7439-92-1 | Lead | 9.90 | | S | F |
| 7439-95-4 | Magnesium | 5160.00 | | | P |
| 7439-96-5 | Manganese | 1070.00 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 10.30 | | S | P |
| 7440-09-7 | Potassium | 2500.00 | | | P |
| 7782-49-2 | Selenium | 0.86 | U | SNW | F |
| 7440-22-4 | Silver | 0.42 | U | | P |
| 7440-23-5 | Sodium | 213.00 | B | S | P |
| 7440-28-0 | Thallium | 0.65 | U | | F |
| 7440-62-2 | Vanadium | 34.90 | | | P |
| 7440-66-6 | Zinc | 44.30 | | SN | P |
| | Cyanide | | | | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

100675

STONES, ROOTS

100011

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 40.00 | B | | P |
| 7440-36-0 | Antimony | 14.00 | 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 | 91.00 | B | | P |
| 7440-47-3 | Chromium | 4.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 2.00 | U | | P |
| 7439-89-6 | Iron | 223.00 | | | P |
| 7439-92-1 | Lead | 3.60 | | | F |
| 7439-95-4 | Magnesium | 123.00 | B | | P |
| 7439-96-5 | Manganese | 1.20 | B | | P |
| 7439-97-6 | Mercury | 0.20 | U | N* | CV |
| 7440-02-0 | Nickel | 4.00 | U | | P |
| 7440-09-7 | Potassium | 222.00 | B | | P |
| 7782-49-2 | Selenium | 4.00 | U | | F |
| 7440-22-4 | Silver | 2.00 | U | | P |
| 7440-23-5 | Sodium | 210.00 | B | | P |
| 7440-28-0 | Thallium | 3.00 | U | | F |
| 7440-62-2 | Vanadium | 2.00 | U | | P |
| 7440-66-6 | Zinc | 5.00 | U | | P |
| | Cyanide | | | | NR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

100676

000000

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CONTAINER: 2 SUPERMAN LABS

LABORATORY: 68100-0109

DATE: 11/1/88

TIME: 10:00

LAB NO: 10000000

EPA NO: 10000000

SUB: 10000000

SUB: 10000000

SUB: 10000000

10000000

0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|-----|----|----|
| 7429-90-5 | Aluminum | 51.20 | B | | P |
| 7440-36-0 | Antimony | 14.00 | 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 | 84.40 | B | | P |
| 7440-47-3 | Chromium | 4.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 2.00 | B | | P |
| 7439-89-6 | Iron | 47.10 | B | | P |
| 7439-92-1 | Lead | 2.30 | B | | F |
| 7439-95-4 | Magnesium | 77.50 | B | | P |
| 7439-96-5 | Manganese | 1.00 | U | | P |
| 7439-97-6 | Mercury | 0.26 | JN* | | CV |
| 7440-02-0 | Nickel | 4.00 | U | | P |
| 7440-09-7 | Potassium | 268.00 | B | | P |
| 7782-49-2 | Selenium | 4.00 | U | J | F |
| 7440-22-4 | Silver | 2.00 | U | | P |
| 7440-23-5 | Sodium | 85.20 | B | J | P |
| 7440-28-0 | Thallium | 3.00 | U | JN | F |
| 7440-62-2 | Vanadium | 2.00 | U | | P |
| 7440-66-6 | Zinc | 19.90 | B | | P |
| | Cyanide | | | | NR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

100677

10000000

TOTAL REVIEW

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organics Analysis

Case No. 15933 SDG No. BGLU1 LABORATORY Compu SITE VI Chemical
BGLU9 Chem

DATA ASSESSMENT:

S.O.W. Document # OLM01.0 (Rev. 12/90)

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:

Joseph M. Brown Date: 6/4/1991

Verified By:

Susan Lenczyk Date: 07/19/1991

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.

- BNH - Extraction holding time was exceeded for BGL 01, 04, 09, 10, 12, 13, 14, 17. Therefore detects and non detects were qualified estimated J (BGL 17 non detects later rejected due to sample age, rec'd).
- Extraction holding time was grossly exceeded for BGL 11, 16, 16 RE, 17 RE, ¹⁵²³ detects were qualified estimated J and non detects were rejected.
- The following samples were also qualified due to extraction ^{holding} time being exceeded since there was a 4-day delivery time (even though they were extracted within time limits from date of receipt): BGL 02, 03, 06, 18, 19

PEST - Due to the 4-day lapse between sampling & receiving of samples the following were qualified estimated (J) due to extraction holding time being outside required criteria: BGL 01, 02, 04, 06, 18, 19, 09, 10, 11, 12, 13, 14, 15, 16, 17, 23, 03

OA - BGL 15, ^{one} was qualified estimated (J).

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

1A - Methylene Chloride was qualified undetected in the following: BGL 01, 02, 03, 04, 05, 06, 09, 10, 11, 12, 13, 14, 15, 16, 17, 23.
Acetone was qualified undetected in BGL 09, 10, 11, 12, 13, 14, 15, 16, 17, 23.
Chloroform was qualified undetected in BGL 15.
PVA - bis(2-ethyl hexyl) Phthalate was qualified undetected in BGL 10, 12, 13, 14, 09, 01, 04. CONTINUED ON ATTACHMENT.

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

61A - bis(2-ethyl hexyl) Phthalate was qualified undetected in BGL 15, 16 RE (then rejected in BGL 16 RE due to holding time)

C) Trip blank contamination

A) Method Blank (contamination (continued))

PEST - Heptachlor was qualified undetected in
BGL 12, 13, 15, 17
- 44DDD was qualified undetected in
BGL 15

- The lab artifacts were rejected in
various samples.

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".

~~BNA - 27.0 RA of m/e 198 was not equal to 100 therefore
all data were rejected in BGL 06, 18, 19~~

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 within 10% of the initial value~~ ^{be within 10% of the initial value} in both the initial and continuing calibrations. A value ~~outside of 10%~~ ^{outside of 10%} 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 ("N")~~ ^{flagged} as estimated "J" or rejected "R".

BNA N-Nitroso Di-n-propylamine was Rejected
in BCL 09, 10, 12, 13, 14 due to RRT outside
of QC criteria in CCC.

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 $< 2.5\%$ 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 dibutylchlorodate must not exceed 10%. Percent D must be within 15% on the quantitation column and 20% on the confirmation column.~~

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.

- BNH - BGL 16 and BGL 17RE had surrogate rec. for both acids & base neutrals less than 10% however no further qualification was necessary (they were already qualified due to holding times).
- BGL 17 had surrogate recovery for acids < 10% ^{base neutrals} non detects were changed from J (holding time qualification) to R.
 - BGL 16RE had surrogate recovery for acids < 10% however no further qualification was necessary since these analytes had previously been qualified due to holding times.

PEST - ~~BGL 04 & BGL 05~~ had more than two surrogates ~~recovered outside QC limits, therefore analytes in these samples were qualified estimates~~

J. JB

TEST - BGL 04 & 16 had poor surrogate recoveries however these analytes were previously qualified due to holding times.

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.

NA - BGL M had the following internal standards outside QC limits (however no qualifications were necessary because the data was previously flagged due to surrogate recovery) ANT, PHN, PRY.

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.

BNA - MS & MSD low level recovery <10
for Pentachlorophenol therefore this
analyte was rejected in BGL13.

DATA ASSESSMENT:

10. OTHER QC DATA OUT OF SPECIFICATION:

~~TEST Samples were run outside specified 24 hr period. JB~~

BGL 05 received broken for extractables - no analysis

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

12. CONTRACT PROBLEMS NON-COMPLIANCE:

RNA - The incorrect value of the min RRT for 2,4,5-Trichlorophenol was listed in the CCR.
- Bis(2-Ethylhexyl)Phthalate was not flagged B by the ~~analyst~~ in BGL 04. *continued, see attached*
TEST Form E used for RSD limits. *PBB*
13. ~~Sample~~ contains re-extraction, re-analysis or ~~other~~ Upon reviewing the QA results, the following form ~~was~~ identified to be used.

RNA - BGL 17RE and BGL 16RE will be used due to the fact that these samples had less problems with surrogate recoveries and internal standards than the original data

DATA ASSESSMENT:

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT (continued):

12. Non Compliance (continued)

BNA

- Form 5B (Instrument Performance check) had some transcription errors in reporting %RA.
incorrectly identified base peak.
Values were corrected & no quality action were necessary.

Type of Review: TotalDate: 6/4/91Case #: 15933Project: VI ChemicalLab Name: Compu ChemReviewer's Initials: JBNumber of Samples: 19 VOA, 17 BWA, 17 PEST/PCIAnalytes Rejected Due to Exceeding Review Criteria:

| | Surrogates | Method | Calibration | Method
(min/max) | MS/MSD
| Other | Total # Samples | Total # Rejected/
Total # in all Samples |
|------------|------------|--------|-------------|---------------------|-------------|-------|-----------------|---|
| Acids (18) | 15/1 | 60/4 | | | 1/1 | | 19 | 76/255 |
| H/N (50) | 50/1 | 200/4 | 5/5 | 71/7 2/2 | | | 17 | 264/850 |
| VOA (33) | | | | 27/14 | | | 19 | 27/665 |
| PEST (20) | | | | 5/4 | | | 17 | 5/298 340 |
| PCI (7) | | | | | | | 17 | 0/119 |
| TCUD (1) | | | | | | | | |

Analytes Estimated Due to Exceeding Review Criteria for:

| | | | | | | | | |
|------------|--|--|--|--|--|--|----|---------|
| Acids (18) | | | | | | | 17 | 194/255 |
| H/N (50) | | | | | | | 17 | 572/850 |
| VOA (33) | | | | | | | 19 | 35/665 |
| PEST (20) | | | | | | | 17 | 296/340 |
| PCI (7) | | | | | | | 17 | 112/119 |
| TCUD (1) | | | | | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL01

Name: COMPUCHET RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402859

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002859A53

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. _____ Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 10 | U |
| 74-83-9----- | Bromomethane | 10 | U |
| 75-01-4----- | Vinyl Chloride | 10 | U |
| 75-00-3----- | Chloroethane | 10 | U |
| 75-09-2----- | Methylene Chloride | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 31 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL01

Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402859

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002859A53

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. _____ Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | 1
2
3 |
|------------|---------------|-------|------------|-------------|
| ===== | ===== | ===== | ===== | ===== |
| | | | | |

100694

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL02

Name: COMPUCHEN, RUP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402866

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002866A53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 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 | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 12 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL02

Name: COMPUCHEM, RTP

Contract: 68D00159

Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

ix: (soil/water) WATER

Lab Sample ID: 402866

ple wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002866A53

l: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

olumn: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

umber TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL03

Name: COMPUCHEM, INC

Contract: 68D00159

b Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402867

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002867A53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Oil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 10 | U |
| 74-83-9----- | Bromomethane | 10 | U |
| 75-01-4----- | Vinyl Chloride | 10 | U |
| 75-00-3----- | Chloroethane | 10 | U |
| 75-09-2----- | Methylene Chloride | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 12 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL03

Name: COMPUCHEM RTP Contract: 68D00159
Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01
Matrix: (soil/water) WATER Lab Sample ID: 402867
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002867A53
Level: (low/med) LOW Date Received: 03/04/91
% Moisture: not dec. _____ Date Analyzed: 03/07/91
C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL04

Name: COMPUCHEM RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402868

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002868C53

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. _____ Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 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 | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 12 | |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

100699

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL04

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402868

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002868C53

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. _____ Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| | | | | |

100700

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL05

Name: COMPUCHEM, RTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402869

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002869C53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 10 | U |
| 74-83-9----- | Bromomethane | 10 | U |
| 75-01-4----- | Vinyl Chloride | 10 | U |
| 75-00-3----- | Chloroethane | 10 | U |
| 75-09-2----- | Methylene Chloride | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 2 | J |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 1 | J |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL05

Name: COMPUCHEM RTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402869

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002869C53

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q1 |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL06

Lab Name: COMPUCHEM, RTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402870

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002870C53

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. _____

Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 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 | 10 | U |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 10 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL06

Lab Name: COMPUCHEM RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402870

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002870C53

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. _____ Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL09

Lab Name: COMPUCHEM, INC. Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402874

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH002874A18

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. 27 Date Analyzed: 03/08/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 14 | U |
| 74-83-9----- | Bromomethane | 14 | U |
| 75-01-4----- | Vinyl Chloride | 14 | U |
| 75-00-3----- | Chloroethane | 14 | U |
| 75-09-2----- | Methylene Chloride | 72 | U |
| 67-64-1----- | Acetone | 58 | U |
| 75-15-0----- | Carbon Disulfide | 14 | U |
| 75-35-4----- | 1,1-Dichloroethene | 14 | U |
| 75-34-3----- | 1,1-Dichloroethane | 14 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 14 | U |
| 67-66-3----- | Chloroform | 14 | U |
| 107-06-2----- | 1,2-Dichloroethane | 14 | U |
| 78-93-3----- | 2-Butanone | 14 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 14 | U |
| 56-23-5----- | Carbon Tetrachloride | 14 | U |
| 75-27-4----- | Bromodichloromethane | 14 | U |
| 78-87-5----- | 1,2-Dichloropropane | 14 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 14 | U |
| 79-01-6----- | Trichloroethene | 14 | U |
| 124-48-1----- | Dibromochloromethane | 14 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 14 | U |
| 71-43-2----- | Benzene | 14 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 14 | U |
| 75-25-2----- | Bromoform | 14 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 14 | U |
| 591-78-6----- | 2-Hexanone | 14 | U |
| 127-18-4----- | Tetrachloroethene | 14 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 14 | U |
| 108-88-3----- | Toluene | 14 | U |
| 108-90-7----- | Chlorobenzene | 14 | U |
| 100-41-4----- | Ethylbenzene | 14 | U |
| 100-42-5----- | Styrene | 14 | U |
| 1330-20-7----- | Xylene (total) | 14 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL09

Name: COMPUCHEN, RFP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402874

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002874A18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 27

Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|----------------|
| 1. | LAB. ARTIFACT | 3.85 | 14 | Q R |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

BGL10

Lab Name: COMPUCHEM Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402881

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH002881A18

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. 33 Date Analyzed: 03/08/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 15 | U |
| 74-83-9----- | Bromomethane | 15 | U |
| 75-01-4----- | Vinyl Chloride | 15 | U |
| 75-00-3----- | Chloroethane | 15 | U |
| 75-09-2----- | Methylene Chloride | 56 | U |
| 67-64-1----- | Acetone | 51 | U |
| 75-15-0----- | Carbon Disulfide | 15 | U |
| 75-35-4----- | 1,1-Dichloroethene | 15 | U |
| 75-34-3----- | 1,1-Dichloroethane | 15 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 15 | U |
| 67-66-3----- | Chloroform | 15 | U |
| 107-06-2----- | 1,2-Dichloroethane | 15 | U |
| 78-93-3----- | 2-Butanone | 15 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 15 | U |
| 56-23-5----- | Carbon Tetrachloride | 15 | U |
| 75-27-4----- | Bromodichloromethane | 15 | U |
| 78-87-5----- | 1,2-Dichloropropane | 15 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 15 | U |
| 79-01-6----- | Trichloroethene | 15 | U |
| 124-48-1----- | Dibromochloromethane | 15 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 15 | U |
| 71-43-2----- | Benzene | 15 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 15 | U |
| 75-25-2----- | Bromoform | 15 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 15 | U |
| 591-78-6----- | 2-Hexanone | 15 | U |
| 127-18-4----- | Tetrachloroethene | 15 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 15 | U |
| 108-88-3----- | Toluene | 15 | U |
| 108-90-7----- | Chlorobenzene | 15 | U |
| 100-41-4----- | Ethylbenzene | 15 | U |
| 100-42-5----- | Styrene | 15 | U |
| 1330-20-7----- | Xylene (total) | 15 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL10

Name: COMPUCHEM, INC. Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402881

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH002881A18

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. 33 Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|----------|
| .. | LAB. ARTIFACT | 3.83 | 19 | <i>R</i> |

100708

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL11

Name: COMPUCHEM, INC. Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402882

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH002882A18

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. 43 Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO. COMPOUND Q

| | | | |
|------------|----------------------------|-----|---|
| 74-87-3 | Chloromethane | 18 | U |
| 74-83-9 | Bromomethane | 18 | U |
| 75-01-4 | Vinyl Chloride | 18 | U |
| 75-00-3 | Chloroethane | 18 | U |
| 75-09-2 | Methylene Chloride | 82 | U |
| 67-64-1 | Acetone | 100 | U |
| 75-15-0 | Carbon Disulfide | 18 | U |
| 75-35-4 | 1,1-Dichloroethene | 18 | U |
| 75-34-3 | 1,1-Dichloroethane | 18 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 18 | U |
| 67-66-3 | Chloroform | 18 | U |
| 107-06-2 | 1,2-Dichloroethane | 18 | U |
| 78-93-3 | 2-Butanone | 18 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 18 | U |
| 56-23-5 | Carbon Tetrachloride | 18 | U |
| 75-27-4 | Bromodichloromethane | 18 | U |
| 78-87-5 | 1,2-Dichloropropane | 18 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 18 | U |
| 79-01-6 | Trichloroethene | 18 | U |
| 124-48-1 | Dibromochloromethane | 18 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 18 | U |
| 71-43-2 | Benzene | 18 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 18 | U |
| 75-25-2 | Bromoform | 18 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 18 | U |
| 591-78-6 | 2-Hexanone | 18 | U |
| 127-18-4 | Tetrachloroethene | 18 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18 | U |
| 108-88-3 | Toluene | 18 | U |
| 108-90-7 | Chlorobenzene | 18 | U |
| 100-41-4 | Ethylbenzene | 18 | U |
| 100-42-5 | Styrene | 18 | U |
| 1330-20-7 | Xylene (total) | 18 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL11

Name: COMPUCHEM RTP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402882

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002882A18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 43

Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|--------------|
| 1. | LAB. ARTIFACT | 3.85 | 25 | Q |

100710

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL12

Name: COMPUCHEM, INC.

Contract: 68D00159

Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402883

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002883A18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 34

Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Extr. Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

| | | | |
|------------|----------------------------|----|---|
| 74-87-3 | Chloromethane | 15 | U |
| 74-83-9 | Bromomethane | 15 | U |
| 75-01-4 | Vinyl Chloride | 15 | U |
| 75-00-3 | Chloroethane | 15 | U |
| 75-09-2 | Methylene Chloride | 68 | U |
| 67-64-1 | Acetone | 55 | U |
| 75-15-0 | Carbon Disulfide | 15 | U |
| 75-35-4 | 1,1-Dichloroethene | 15 | U |
| 75-34-3 | 1,1-Dichloroethane | 15 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U |
| 67-66-3 | Chloroform | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | 15 | U |
| 78-93-3 | 2-Butanone | 15 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | U |
| 56-23-5 | Carbon Tetrachloride | 15 | U |
| 75-27-4 | Bromodichloromethane | 15 | U |
| 78-87-5 | 1,2-Dichloropropane | 15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U |
| 79-01-6 | Trichloroethene | 15 | U |
| 124-48-1 | Dibromochloromethane | 15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U |
| 71-43-2 | Benzene | 15 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | U |
| 75-25-2 | Bromoform | 15 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 15 | U |
| 591-78-6 | 2-Hexanone | 15 | U |
| 127-18-4 | Tetrachloroethene | 15 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U |
| 108-88-3 | Toluene | 15 | U |
| 108-90-7 | Chlorobenzene | 15 | U |
| 100-41-4 | Ethylbenzene | 15 | U |
| 100-42-5 | Styrene | 15 | U |
| 1330-20-7 | Xylene (total) | 15 | U |

100711

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL12

Name: COMPUCHER Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402883

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002883A18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 34

Date Analyzed: 03/08/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|------|------------|--------------|
| .. | LABORATORY ARTIFACT | 3.82 | 15 | R |

100712

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL17

Name: COMPUCHEM, INC.

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402888

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: GR002888C18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 19

Date Analyzed: 03/12/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

1 Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| | | | |
|---------|----------|--|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | Q |
|---------|----------|--|---|

| | | | |
|-----------------|----------------------------|-----|---|
| 74-87-3----- | Chloromethane | 62 | U |
| 74-83-9----- | Bromomethane | 62 | U |
| 75-01-4----- | Vinyl Chloride | 62 | U |
| 75-00-3----- | Chloroethane | 62 | U |
| 75-09-2----- | Methylene Chloride | 240 | U |
| 67-64-1----- | Acetone | 180 | U |
| 75-15-0----- | Carbon Disulfide | 62 | U |
| 75-35-4----- | 1,1-Dichloroethene | 62 | U |
| 75-34-3----- | 1,1-Dichloroethane | 62 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 62 | U |
| 67-66-3----- | Chloroform | 62 | U |
| 107-06-2----- | 1,2-Dichloroethane | 62 | U |
| 78-93-3----- | 2-Butanone | 85 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 62 | U |
| 56-23-5----- | Carbon Tetrachloride | 62 | U |
| 75-27-4----- | Bromodichloromethane | 62 | U |
| 78-87-5----- | 1,2-Dichloropropane | 62 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 62 | U |
| 79-01-6----- | Trichloroethene | 62 | U |
| 124-48-1----- | Dibromochloromethane | 62 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 62 | U |
| 71-43-2----- | Benzene | 62 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 62 | U |
| 75-25-2----- | Bromoform | 62 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 62 | U |
| 591-78-6----- | 2-Hexanone | 62 | U |
| 127-18-4----- | Tetrachloroethene | 62 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 62 | U |
| 108-88-3----- | Toluene | 62 | U |
| 108-90-7----- | Chlorobenzene | 62 | U |
| 100-41-4----- | Ethylbenzene | 9 | U |
| 100-42-5----- | Styrene | 62 | U |
| 1330-20-7----- | Xylene (total) | 86 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL17

Sample Name: COMPUCHERRY

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402888

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: GR002888C18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 19

Date Analyzed: 03/12/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|-------------|----------------------------|-------|------------|----|
| 1. | LAB. ARTIFACT | 3.75 | 140 | J |
| 2. | UNKNOWN HYDROCARBON | 19.09 | 99 | J |
| 3. | UNKNOWN HYDROCARBON | 20.25 | 74 | J |
| 4. | UNKNOWN SUBST. CYCLOHEXANE | 20.45 | 49 | J |
| 5. | UNKNOWN | 21.45 | 140 | J |
| 6. | ETHYLMETHYLBENZENE | 21.97 | 62 | J |
| 7. | UNKNOWN | 22.15 | 120 | J |
| 8. 124-18-5 | DECANE | 22.32 | 990 | JN |
| 9. | ETHYLMETHYLBENZENE | 22.65 | 86 | J |
| 10. | UNKNOWN HYDROCARBON | 23.05 | 740 | J |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL16

Lab Name: COMPUCHER-PP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402887

Sample wt/vol: 1.0 (g/mL) G Lab File ID: GR002887B18

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. 42 Date Analyzed: 03/11/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| | | | |
|-----------------|----------------------------|-----|--------------|
| 74-87-3----- | Chloromethane | 86 | U |
| 74-83-9----- | Bromomethane | 86 | U |
| 75-01-4----- | Vinyl Chloride | 86 | U |
| 75-00-3----- | Chloroethane | 86 | U |
| 75-09-2----- | Methylene Chloride | 370 | U |
| 67-64-1----- | Acetone | 370 | U |
| 75-15-0----- | Carbon Disulfide | 86 | U |
| 75-35-4----- | 1,1-Dichloroethene | 86 | U |
| 75-34-3----- | 1,1-Dichloroethane | 86 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 86 | U |
| 67-66-3----- | Chloroform | 86 | U |
| 107-06-2----- | 1,2-Dichloroethane | 86 | U |
| 78-93-3----- | 2-Butanone | 150 | - |
| 71-55-6----- | 1,1,1-Trichloroethane | 86 | U |
| 56-23-5----- | Carbon Tetrachloride | 86 | U |
| 75-27-4----- | Bromodichloromethane | 86 | U |
| 78-87-5----- | 1,2-Dichloropropane | 86 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 86 | U |
| 79-01-6----- | Trichloroethene | 86 | U |
| 124-48-1----- | Dibromochloromethane | 86 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 86 | U |
| 71-43-2----- | Benzene | 86 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 86 | U |
| 75-25-2----- | Bromoform | 86 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 86 | U |
| 591-78-6----- | 2-Hexanone | 86 | U |
| 127-18-4----- | Tetrachloroethene | 86 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 86 | U |
| 108-88-3----- | Toluene | 86 | U |
| 108-90-7----- | Chlorobenzene | 86 | U |
| 100-41-4----- | Ethylbenzene | 86 | U |
| 100-42-5----- | Styrene | 86 | U |
| 1330-20-7----- | Xylene (total) | 18 | J |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL16

Name: COMPUCHEM, R Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402887

Sample wt/vol: 1.0 (g/mL) G Lab File ID: GR002887B18

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. 42 Date Analyzed: 03/11/91

Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|----------------------------|-------|------------|------------|
| 1. | UNKNOWN HYDROCARBON | 19.09 | 1200 | J <u>N</u> |
| 2. | UNKNOWN HYDROCARBON | 20.25 | 1300 | J |
| 3. | UNKNOWN CYCLIC HYDROCARBON | 20.45 | 770 | J |
| 4. | UNKNOWN HYDROCARBON | 20.57 | 830 | J |
| 5. | UNKNOWN HYDROCARBON | 21.15 | 5200 | J |
| 6. | UNKNOWN HYDROCARBON | 21.45 | 2900 | J |
| 7. | UNKNOWN CYCLIC HYDROCARBON | 22.15 | 2600 | J |
| 8. | UNKNOWN HYDROCARBON | 22.35 | 14000 | J |
| 9. | ETHYLMETHYLBENZENE | 22.65 | 1100 | J |
| 10. | UNKNOWN HYDROCARBON | 23.05 | 12000 | J <u>N</u> |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL13

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402884

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH002884A18

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: not dec. 16 Date Analyzed: 03/08/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO. COMPOUND CONCENTRATION UNITS:
(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 | 66 | U |
| 67-64-1----- | Acetone | 47 | U |
| 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 | 12 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5----- | Carbon Tetrachloride | 12 | U |
| 75-27-4----- | Bromodichloromethane | 12 | U |
| 78-87-5----- | 1,2-Dichloropropane | 12 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 12 | U |
| 79-01-6----- | Trichloroethene | 12 | U |
| 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 | 12 | U |
| 591-78-6----- | 2-Hexanone | 12 | U |
| 127-18-4----- | Tetrachloroethene | 12 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 12 | U |
| 108-88-3----- | Toluene | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL13

Lab Name: COMPUCHET RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402884

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002884A18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 16

Date Analyzed: 03/08/91

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|------|------------|----|
| 1. | LABORATORY ARTIFACT | 3.82 | 11 | 15 |
| 2. | UNKNOWN | 5.65 | 9.5 | J |

100718

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL14

Name: COMPUCHEN, JEFF

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402885

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002885B18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 16

Date Analyzed: 03/09/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|----------------------------|----|---|
| 74-87-3----- | Chloromethane | 12 | U |
| 74-83-9----- | Bromomethane | 12 | U |
| 75-01-4----- | Vinyl Chloride | 12 | U |
| 75-00-3----- | Chloroethane | 12 | U |
| 75-09-2----- | Methylene Chloride | 20 | U |
| 67-64-1----- | Acetone | 26 | U |
| 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 | 12 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 12 | U |
| 56-23-5----- | Carbon Tetrachloride | 12 | U |
| 75-27-4----- | Bromodichloromethane | 12 | U |
| 78-87-5----- | 1,2-Dichloropropane | 12 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 12 | U |
| 79-01-6----- | Trichloroethene | 12 | U |
| 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 | 12 | U |
| 591-78-6----- | 2-Hexanone | 12 | U |
| 127-18-4----- | Tetrachloroethene | 12 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 12 | U |
| 108-88-3----- | Toluene | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL14

Name: COMPUCHEM

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402885

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GH002885B18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 16

Date Analyzed: 03/09/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|------|------------|-------------------------------------|
| 1. | LABORATORY ARTIFACT | 3.83 | 15 | ☒ |

100720

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL15

Name: COMPUCHIE RTV

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402886

Sample wt/vol: 3.0 (g/mL) G

Lab File ID: G3R02886A18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 18

Date Analyzed: 03/14/91

IC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| | |
|-----------------|----------------------------|
| 74-87-3----- | Chloromethane |
| 74-83-9----- | Bromomethane |
| 75-01-4----- | Vinyl Chloride |
| 75-00-3----- | Chloroethane |
| 75-09-2----- | Methylene Chloride |
| 67-64-1----- | Acetone |
| 75-15-0----- | Carbon Disulfide |
| 75-35-4----- | 1,1-Dichloroethene |
| 75-34-3----- | 1,1-Dichloroethane |
| 540-59-0----- | 1,2-Dichloroethene (total) |
| 67-66-3----- | Chloroform |
| 107-06-2----- | 1,2-Dichloroethane |
| 78-93-3----- | 2-Butanone |
| 71-55-6----- | 1,1,1-Trichloroethane |
| 56-23-5----- | Carbon Tetrachloride |
| 75-27-4----- | Bromodichloromethane |
| 78-87-5----- | 1,2-Dichloropropane |
| 10061-01-5----- | cis-1,3-Dichloropropene |
| 79-01-6----- | Trichloroethene |
| 124-48-1----- | Dibromochloromethane |
| 79-00-5----- | 1,1,2-Trichloroethane |
| 71-43-2----- | Benzene |
| 10061-02-6----- | Trans-1,3-Dichloropropene |
| 75-25-2----- | Bromoform |
| 108-10-1----- | 4-Methyl-2-Pentanone |
| 591-78-6----- | 2-Hexanone |
| 127-18-4----- | Tetrachloroethene |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane |
| 108-88-3----- | Toluene |
| 108-90-7----- | Chlorobenzene |
| 100-41-4----- | Ethylbenzene |
| 100-42-5----- | Styrene |
| 1330-20-7----- | Xylene (total) |

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL15

Name: COMPUCHEM, INC. Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402886

Sample wt/vol: 3.0 (g/mL) G

Lab File ID: G3R02886A18

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. 18

Date Analyzed: 03/14/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

1 Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|-------------|---------------------|-------|------------|----|
| 1. 124-18-5 | DECANE | 22.44 | 260 | JN |
| 2. | UNKNOWN HYDROCARBON | 23.17 | 200 | J |
| 3. 629-62-9 | PENTADECANE | 25.46 | 900 | JN |
| | UNKNOWN HYDROCARBON | 26.29 | 200 | J |
| | UNKNOWN HYDROCARBON | 27.02 | 330 | J |
| 6. 112-40-3 | DODECANE | 28.26 | 1200 | JN |
| | DIMETHYL UNDECANE | 28.66 | 570 | J |
| | UNKNOWN HYDROCARBON | 29.71 | 330 | J |
| 9. | UNKNOWN HYDROCARBON | 30.21 | 530 | J |
| 10. | UNKNOWN HYDROCARBON | 30.91 | 1300 | J |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL23

Lab Name: COMPUCHEM Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402889

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GR002889C18

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. 9 Date Analyzed: 03/12/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| | | | |
|------------|----------------------------|-----|---|
| 74-87-3 | Chloromethane | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-09-2 | Methylene Chloride | 51 | U |
| 67-64-1 | Acetone | 32 | U |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 78-93-3 | 2-Butanone | 18 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 79-01-6 | Trichloroethene | 210 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL23

Name: COMPUCHEM

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402889

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: GR002889C18

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: not dec. 9

Date Analyzed: 03/12/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|------|------------|---|
| 1. | LABORATORY ARTIFACT | 3.77 | 15 | 1 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

300(9-17,23)
EPA SAMPLE NO.

BGL18

Lab Name: COMPUCHER RTP Contract: 68D00159
Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01
Matrix: (soil/water) WATER Lab Sample ID: 402871
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002871B53
Level: (low/med) LOW Date Received: 03/04/91
% Moisture: not dec. _____ Date Analyzed: 03/07/91
GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| | | | |
|-----------------|----------------------------|----|----|
| 74-87-3----- | Chloromethane | 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 | 3 | BJ |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 10 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 3 | J |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL18

Name: COMPUCHEM RTP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402871

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002871B53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q _f |
|------------|---------------|-------|------------|----------------|
| ===== | ===== | ===== | ===== | ===== |
| | | | | |

100726

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL19

Name: COMPUCHEM, RTP Contract: 68D00159
 Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01
 Matrix: (soil/water) WATER Lab Sample ID: 402872
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002872B53
 Level: (low/med) LOW Date Received: 03/04/91
 Moisture: not dec. _____ Date Analyzed: 03/07/91
 Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0
 Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| | | | |
|-----------------|----------------------------|----|----|
| 74-87-3----- | Chloromethane | 10 | U |
| 74-83-9----- | Bromomethane | 10 | U |
| 75-01-4----- | Vinyl Chloride | 10 | U |
| 75-00-3----- | Chloroethane | 10 | U |
| 75-09-2----- | Methylene Chloride | 4 | BJ |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 10 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 2 | J |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL19

Name: COMPUCHEM RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402872

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002872B53

Level: (low/med) LOW Date Received: 03/04/91

Moisture: not dec. _____ Date Analyzed: 03/07/91

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q ₄ |
|------------|---------------|-------|------------|----------------|
| ===== | ===== | ===== | ===== | ===== |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL22

Name: COMPUCHEM, RSTP

Contract: 68D00159

b Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402873

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002873B53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|----------------------------|----|----|
| 74-87-3----- | Chloromethane | 10 | U |
| 74-83-9----- | Bromomethane | 10 | U |
| 75-01-4----- | Vinyl Chloride | 10 | U |
| 75-00-3----- | Chloroethane | 10 | U |
| 75-09-2----- | Methylene Chloride | 3 | BJ |
| 67-64-1----- | Acetone | 10 | U |
| 75-15-0----- | Carbon Disulfide | 10 | U |
| 75-35-4----- | 1,1-Dichloroethene | 10 | U |
| 75-34-3----- | 1,1-Dichloroethane | 10 | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3----- | Chloroform | 10 | U |
| 107-06-2----- | 1,2-Dichloroethane | 10 | U |
| 78-93-3----- | 2-Butanone | 10 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | U |
| 75-27-4----- | Bromodichloromethane | 10 | U |
| 78-87-5----- | 1,2-Dichloropropane | 10 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6----- | Trichloroethene | 10 | U |
| 124-48-1----- | Dibromochloromethane | 10 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2----- | Benzene | 10 | U |
| 10061-02-6----- | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2----- | Bromoform | 10 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6----- | 2-Hexanone | 10 | U |
| 127-18-4----- | Tetrachloroethene | 10 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3----- | Toluene | 10 | U |
| 108-90-7----- | Chlorobenzene | 10 | U |
| 100-41-4----- | Ethylbenzene | 10 | U |
| 100-42-5----- | Styrene | 10 | U |
| 1330-20-7----- | Xylene (total) | 10 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL22

Name: COMPUCHEM, RTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402873

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN002873B53

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: not dec. _____

Date Analyzed: 03/07/91

Column: DB-624 ID: 0.530 (mm)

Dilution Factor: 1.0

Oil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |

100730

1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL01

Lab Name: COMPUCE CTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402859

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR002859B05

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/26/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(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 |
| 95-50-1----- | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7----- | 2-Methylphenol | 10 | U |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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----- | Dimethyl Phthalate | 10 | U |
| 208-96-8----- | Acenaphthylene | 10 | U |
| 606-20-2----- | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2----- | 3-Nitroaniline | 50 | U |
| 83-32-9----- | Acenaphthene | 10 | U |

EPA SAMPLE NO.

BGL01

Name: COMPUCHEM, R

Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

ix: (soil/water) WATER Lab Sample ID: 402859

| | | | |
|----------------|------------------------------|--------------|--------------------|
| Sample wt/vol: | <u>1000</u> (g/mL) <u>ML</u> | Lab File ID: | <u>GR002859B05</u> |
|----------------|------------------------------|--------------|--------------------|

Cl: (low/med) LOW Date Received: 03/04/91

1. Disture: _____ decanted: (Y/N) _____ Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/26/91

Reaction Volume: 2.0 (uL) Dilution Factor: 1.0

Cleanup: (Y/N) N pH: _____

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

CAS NO.

COMPOUND

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

Q

| | | |
|----------------|-----------------------------|----|
| 51-28-5----- | 2,4-Dinitrophenol | 50 |
| 100-02-7----- | 4-Nitrophenol | 50 |
| 132-64-9----- | Dibenzofuran | 10 |
| 121-14-2----- | 2,4-Dinitrotoluene | 10 |
| 84-66-2----- | Diethylphthalate | 10 |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 10 |
| 86-73-7----- | Fluorene | 10 |
| 100-01-6----- | 4-Nitroaniline | 50 |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 50 |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 10 |
| 101-55-3----- | 4-Bromophenyl-phenylether | 10 |
| 118-74-1----- | Hexachlorobenzene | 10 |
| 87-86-5----- | Pentachlorophenol | 50 |
| 85-01-8----- | Phenanthrene | 10 |
| 120-12-7----- | Anthracene | 10 |
| 86-74-8----- | Carbazole | 10 |
| 84-74-2----- | Di-n-Butylphthalate | 10 |
| 206-44-0----- | Fluoranthene | 10 |
| 129-00-0----- | Pyrene | 10 |
| 85-68-7----- | Butylbenzylphthalate | 4 |
| 91-94-1----- | 2,3'-Dichlorobenzidine | 10 |
| 56-55-3----- | Benzo(a)Anthracene | 10 |
| 218-01-9----- | Chrysene | 10 |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 10 |
| 117-84-0----- | Di-n-Octyl Phthalate | 10 |
| 205-99-2----- | Benzo(b) Fluoranthene | 10 |
| 207-08-9----- | Benzo(k) Fluoranthene | 10 |
| 50-32-8----- | Benzo(a) Pyrene | 10 |
| 193-39-5----- | Indeno(1,2,3-cd) Pyrene | 10 |
| 53-70-3----- | Dibenz(a,h) Anthracene | 10 |
| 191-24-2----- | Benzo(g,h,i) Perylene | 10 |

(1) - Cannot be separated from Diphenylamine

100732

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL01

Name: COMPUCHEM, RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402859

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GR002859B05

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/26/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: _____

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

Number TICs found: 4

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|---|
| 1. | UNKNOWN | 4.97 | 6.0 | J |
| 2. | UNKNOWN | 6.30 | 10 | J |
| 3. | UNKNOWN | 8.17 | 2.0 | J |
| 4. | D10-PYRENE | 13.62 | 64 | J |

100733

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 3

BGL02

Lab Name: COMPUCHERL RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402866

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002866A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

| | | | |
|---------------|------------------------------|----|---|
| 108-95-2----- | Phenol | 1 | J |
| 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 |
| 95-50-1----- | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7----- | 2-Methylphenol | 10 | U |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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----- | Dimethyl Phthalate | 10 | U |
| 208-96-8----- | Acenaphthylene | 10 | U |
| 606-20-2----- | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2----- | 3-Nitroaniline | 50 | U |
| 83-32-9----- | Acenaphthene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL02

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402866

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002866A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|----|---|
| 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 |
| 86-74-8----- | Carbazole | 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 | 10 | U |
| 56-55-3----- | Benzo(a)Anthracene | 10 | U |
| 218-01-9----- | Chrysene | 10 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 3 | J |
| 117-84-0----- | Di-n-Octyl Phthalate | 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

100735

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL02

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402866

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002866A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|-------------|---------------------|-------|------------|----|
| 1. 624-73-7 | ETHANE, 1,2-DIIODO- | 5.90 | 6.0 | JN |
| 2. | UNKNOWN | 6.18 | 390 | JN |
| 3. | UNKNOWN | 6.45 | 10 | JN |
| 4. | D10 PYRENE | 13.24 | 42 | J |

100736

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL03

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402867

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002867A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

Q

| | | |
|----------|------------------------------|----|
| 108-95-2 | Phenol | 10 |
| 111-44-4 | bis(2-Chloroethyl) Ether | 10 |
| 95-57-8 | 2-Chlorophenol | 10 |
| 541-73-1 | 1,3-Dichlorobenzene | 10 |
| 106-46-7 | 1,4-Dichlorobenzene | 10 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 |
| 95-48-7 | 2-Methylphenol | 10 |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 |
| 106-44-5 | 4-Methylphenol | 10 |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 |
| 67-72-1 | Hexachloroethane | 10 |
| 98-95-3 | Nitrobenzene | 10 |
| 78-59-1 | Isophorone | 10 |
| 88-75-5 | 2-Nitrophenol | 10 |
| 105-67-9 | 2,4-Dimethylphenol | 10 |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 10 |
| 120-83-2 | 2,4-Dichlorophenol | 10 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 |
| 91-20-3 | Naphthalene | 10 |
| 106-47-8 | 4-Chloroaniline | 10 |
| 87-68-3 | Hexachlorobutadiene | 10 |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 |
| 91-57-6 | 2-Methylnaphthalene | 10 |
| 77-47-4 | Hexachlorocyclopentadiene | 10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 |
| 91-58-7 | 2-Chloronaphthalene | 10 |
| 88-74-4 | 2-Nitroaniline | 50 |
| 131-11-3 | Dimethyl Phthalate | 10 |
| 208-96-8 | Acenaphthylene | 10 |
| 606-20-2 | 2,6-Dinitrotoluene | 10 |
| 99-09-2 | 3-Nitroaniline | 50 |
| 83-32-9 | Acenaphthene | 10 |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL03

Lab Name: COMPUCH Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402867

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002867A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

| | |
|----------------|-----------------------------|
| 51-28-5----- | 2,4-Dinitrophenol |
| 100-02-7----- | 4-Nitrophenol |
| 132-64-9----- | Dibenzofuran |
| 121-14-2----- | 2,4-Dinitrotoluene |
| 84-66-2----- | Diethylphthalate |
| 7005-72-3----- | 4-Chlorophenyl-phenylether |
| 86-73-7----- | Fluorene |
| 100-01-6----- | 4-Nitroaniline |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol |
| 86-30-6----- | N-Nitrosodiphenylamine (1) |
| 101-55-3----- | 4-Bromophenyl-phenylether |
| 118-74-1----- | Hexachlorobenzene |
| 87-86-5----- | Pentachlorophenol |
| 85-01-8----- | Phenanthrene |
| 120-12-7----- | Anthracene |
| 86-74-8----- | Carbazole |
| 84-74-2----- | Di-n-Butylphthalate |
| 206-44-0----- | Fluoranthene |
| 129-00-0----- | Pyrene |
| 85-68-7----- | Butylbenzylphthalate |
| 91-94-1----- | 3,3'-Dichlorobenzidine |
| 56-55-3----- | Benzo(a)Anthracene |
| 218-01-9----- | Chrysene |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate |
| 117-84-0----- | Di-n-Octyl Phthalate |
| 205-99-2----- | Benzo(b)Fluoranthene |
| 207-08-9----- | Benzo(k)Fluoranthene |
| 50-32-8----- | Benzo(a)Pyrene |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene |
| 53-70-3----- | Dibenz(a,h)Anthracene |
| 191-24-2----- | Benzo(g,h,i)Perylene |

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(1) - Cannot be separated from Diphenylamine

100738

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL03

Name: COMPUCHEM, RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402867

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002867A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|-------------|---------------------|-------|------------|----|
| 1. 624-73-7 | ETHANE, 1,2-DIIODO- | 5.92 | 8.0 | JN |
| 2. | D10 PYRENE | 13.29 | 42 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL04

Name: COMPUCHEM Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402868

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR002868B05

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/26/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

SPC Cleanup: (Y/N) N pH: _____

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

| | | |
|---------------|------------------------------|----|
| 108-95-2----- | Phenol | 10 |
| 111-44-4----- | bis(2-Chloroethyl) Ether | 10 |
| 95-57-8----- | 2-Chlorophenol | 10 |
| 541-73-1----- | 1,3-Dichlorobenzene | 10 |
| 106-46-7----- | 1,4-Dichlorobenzene | 10 |
| 95-50-1----- | 1,2-Dichlorobenzene | 10 |
| 95-48-7----- | 2-Methylphenol | 10 |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 10 |
| 106-44-5----- | 4-Methylphenol | 10 |
| 621-64-7----- | N-Nitroso-Di-n-Propylamine | 10 |
| 67-72-1----- | Hexachloroethane | 10 |
| 98-95-3----- | Nitrobenzene | 10 |
| 78-59-1----- | Isophorone | 10 |
| 88-75-5----- | 2-Nitrophenol | 10 |
| 105-67-9----- | 2,4-Dimethylphenol | 10 |
| 111-91-1----- | bis(2-Chloroethoxy) Methane | 10 |
| 120-83-2----- | 2,4-Dichlorophenol | 10 |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 10 |
| 91-20-3----- | Naphthalene | 10 |
| 106-47-8----- | 4-Chloroaniline | 10 |
| 87-68-3----- | Hexachlorobutadiene | 10 |
| 59-50-7----- | 2-Chloro-3-Methylphenol | 10 |
| 91-57-6----- | 2-Methylnaphthalene | 10 |
| 77-47-4----- | Hexachlorocyclopentadiene | 10 |
| 88-06-2----- | 2,4,6-Trichlorophenol | 10 |
| 95-95-4----- | 2,4,5-Trichlorophenol | 50 |
| 91-58-7----- | 2-Chloronaphthalene | 10 |
| 88-74-4----- | 2-Nitroaniline | 50 |
| 131-11-3----- | Dimethyl Phthalate | 10 |
| 208-96-8----- | Acenaphthylene | 10 |
| 606-20-2----- | 2,6-Dinitrotoluene | 10 |
| 99-09-2----- | 3-Nitroaniline | 50 |
| 83-32-9----- | Acenaphthene | 10 |

EPA SAMPLE NO.

BGL04

me: COMPUCHEN RTP

Contract: 68D00159

Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402868

sample wt/vol: 1000 (g/mL) ML

Lab File ID: GR002868B05

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/26/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

| | | | |
|----------------|-----------------------------|----|---|
| 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 |
| 86-74-8----- | Carbazole | 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 | 1 | J |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 10 | 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-Octyl Phthalate | 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

100741

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL04

Name: COMPUCHESTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402868

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GR002868B05

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 03/19/91

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/26/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

Number TICs found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|------------|---------------|-------|------------|----|
| 1. | UNKNOWN | 5.00 | 7.0 | JM |
| 2. | UNKNOWN | 6.32 | 6.0 | JN |
| 3. | D10-PYRENE | 13.65 | 61 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL06

Lab Name: COMPUCHEM, INC. Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402870

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002870A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: decanted: (Y/N) Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Q

| CAS NO. | COMPOUND | | |
|----------|------------------------------|----|--|
| 108-95-2 | Phenol | 10 | |
| 111-44-4 | bis(2-Chloroethyl) Ether | 10 | |
| 95-57-8 | 2-Chlorophenol | 10 | |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | |
| 95-48-7 | 2-Methylphenol | 10 | |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | |
| 106-44-5 | 4-Methylphenol | 10 | |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 10 | |
| 67-72-1 | Hexachloroethane | 10 | |
| 98-95-3 | Nitrobenzene | 10 | |
| 78-59-1 | Isophorone | 10 | |
| 88-75-5 | 2-Nitrophenol | 10 | |
| 105-67-9 | 2,4-Dimethylphenol | 10 | |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 10 | |
| 120-83-2 | 2,4-Dichlorophenol | 10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | |
| 91-20-3 | 1-Naphthalene | 10 | |
| 106-47-8 | 2-Chloroaniline | 10 | |
| 87-68-3 | Hexachlorobutadiene | 10 | |
| 59-50-7 | 2-Chloro-3-Methylphenol | 10 | |
| 91-57-6 | 2-Methylnaphthalene | 10 | |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | |
| 91-58-7 | 2-Chloronaphthalene | 10 | |
| 88-74-4 | 2-Nitroaniline | 50 | |
| 131-11-3 | Dimethyl Phthalate | 10 | |
| 208-96-8 | Acenaphthylene | 10 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | |
| 99-09-2 | 3-Nitroaniline | 50 | |
| 83-32-9 | Acenaphthene | 10 | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL06

Name: COMPUCHEM, INC Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402870

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002870A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Reaction Volume: 2.0 (uL) Dilution Factor: 1.0

GC Cleanup: (Y/N) N pH: _____

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

CAS NO. COMPOUND Q

| | | | |
|----------------|-----------------------------|----|---|
| 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 |
| 86-74-8----- | Carbazole | 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----- | 2,3'-Dichlorobenzidine | 10 | U |
| 56-55-3----- | Benzo(a)Anthracene | 10 | U |
| 218-01-9----- | Chrysene | 10 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 6 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 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

100744

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL06

Lab Name: COMPUCHER PTP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402870

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GH002870A08

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|---|
| 1. | D10-PYRENE | 13.44 | 44 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL09

Lab Name: COMPUCHER

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402874

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: GR002874B52

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol | 440 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 440 | U |
| 95-57-8 | 2-Chlorophenol | 440 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 440 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 440 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 440 | U |
| 95-48-7 | 2-Methylphenol | 440 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 440 | U |
| 106-44-5 | 4-Methylphenol | 440 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 440 | U |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 440 | U |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 440 | U |
| 91-20-3 | Naphthalene | 440 | U |
| 106-47-8 | 4-Chloroaniline | 440 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 59-50-7 | 2-Chloro-3-Methylphenol | 440 | U |
| 91-57-6 | 2-Methylnaphthalene | 440 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 440 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2300 | U |
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 2300 | U |
| 131-11-3 | Dimethyl Phthalate | 440 | U |
| 208-96-8 | Acenaphthylene | 440 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 99-09-2 | 3-Nitroaniline | 2300 | U |
| 83-32-9 | Acenaphthene | 440 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL09

Lab Name: COMPUCH ETP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402874

Sample wt/vol: 30.6 (g/mL) G Lab File ID: GR002874B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 27 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2300 | U |
| 100-02-7----- | 4-Nitrophenol | 2300 | U |
| 132-64-9----- | Dibenzofuran | 440 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 440 | U |
| 84-66-2----- | Diethylphthalate | 440 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 440 | U |
| 86-73-7----- | Fluorene | 440 | U |
| 100-01-6----- | 4-Nitroaniline | 2300 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2300 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 440 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 440 | U |
| 118-74-1----- | Hexachlorobenzene | 440 | U |
| 87-86-5----- | Pentachlorophenol | 2300 | U |
| 85-01-8----- | Phenanthrene | 440 | U |
| 120-12-7----- | Anthracene | 440 | U |
| 86-74-8----- | Carbazole | 440 | U |
| 84-74-2----- | Di-n-Butylphthalate | 440 | U |
| 206-44-0----- | Fluoranthene | 440 | U |
| 129-00-0----- | Pyrene | 440 | U |
| 85-68-7----- | Butylbenzylphthalate | 440 | U |
| 91-94-1----- | 2,3'-Dichlorobenzidine | 440 | U |
| 56-55-3----- | Benzo(a)Anthracene | 440 | U |
| 218-01-9----- | Chrysene | 440 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 94 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 440 | U |
| 205-99-2----- | Benzo(b)Fluoranthene | 440 | U |
| 207-08-9----- | Benzo(k)Fluoranthene | 440 | U |
| 50-32-8----- | Benzo(a)Pyrene | 440 | U |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene | 440 | U |
| 53-70-3----- | Dibenz(a,h)Anthracene | 440 | U |
| 191-24-2----- | Benzo(g,h,i)Perylene | 440 | U |

(1) - Cannot be separated from Diphenylamine

100747

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL09

Lab Name: COMPUCHET Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402874

Sample wt/vol: 30.6 (g/mL) G Lab File ID: GR002874B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 27 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 29

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | UNKNOWN | 5.22 | 310 | J |
| 2. | UNKNOWN | 5.42 | 12000 | J |
| 3. | SOLVENT CONTAMINANT | 5.50 | 180 | J |
| 4. | ALDOL | 5.77 | 540 | J |
| 5. | UNKNOWN AMIDE | 5.70 | 450 | J |
| 6. | SOLVENT CONTAMINANT | 5.82 | 450 | J |
| 7. | BLANK CONTAMINANT | 6.73 | 450 | J |
| 8. | ALDOL | 7.02 | 1200 | J |
| 9. | ALDOL | 7.17 | 540 | J |
| 10. | UNKNOWN | 7.55 | 810 | J |
| 11. | BLANK CONTAMINANT | 8.23 | 220 | J |
| 12. | UNKNOWN SILOXANE | 9.62 | 130 | J |
| 13. | UNKNOWN HYDROCARBON | 12.12 | 130 | J |
| 14. | UNKNOWN HYDROCARBON | 1.38 | 270 | J |
| 15. | UNKNOWN HYDROCARBON | 14.75 | 130 | J |
| 16. | UNKNOWN HYDROCARBON | 15.54 | 180 | J |
| 17. | UNKNOWN ACID | 16.59 | 490 | J |
| 18. | UNKNOWN HYCROCARBON | 16.70 | 130 | J |
| 19. | DECA-PYRENE | 17.00 | 1500 | J |
| 20. | UNKNOWN | 18.42 | 810 | J |
| 21. | UNKNOWN | 18.42 | 1400 | J |
| 22. | ALDOL | 7.15 | 540 | J |
| 23. | UNKNOWN | 32.76 | 1300 | J |
| 24. | UNKNOWN | 30.92 | 1400 | J |
| 25. | UNKNOWN | 6.57 | 130 | J |
| 26. | UNKNOWN | 8.49 | 130 | J |
| 27. | UNKNOWN HYDROCARBON | 13.90 | 130 | J |
| 28. | UNKNOWN | 32.37 | 760 | J |
| 29. | UNKNOWN | 31.59 | 900 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGB10

Lab Name: COMPUCHEM Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402881

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: GR002881B52

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: 33 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

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

CAS NO.

COMPOUND

Q

| | | | |
|----------|------------------------------|------|---|
| 108-95-2 | Phenol | 490 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 490 | U |
| 95-57-8 | 2-Chlorophenol | 490 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 490 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 490 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 490 | U |
| 95-48-7 | 2-Methylphenol | 490 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 490 | U |
| 106-44-5 | 4-Methylphenol | 490 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 490 | U |
| 67-72-1 | Hexachloroethane | 490 | U |
| 98-95-3 | Nitrobenzene | 490 | U |
| 78-59-1 | Isophorone | 490 | U |
| 88-75-5 | 2-Nitrophenol | 490 | U |
| 105-67-9 | 2,4-Dimethylphenol | 490 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 490 | U |
| 120-83-2 | 2,4-Dichlorophenol | 490 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 490 | U |
| 91-20-3 | Naphthalene | 490 | U |
| 106-47-8 | 4-Chloroaniline | 490 | U |
| 87-68-3 | Hexachlorobutadiene | 490 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 490 | U |
| 91-57-6 | 2-Methylnaphthalene | 490 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 490 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 490 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2500 | U |
| 91-58-7 | 2-Chloronaphthalene | 490 | U |
| 88-74-4 | 2-Nitroaniline | 2500 | U |
| 131-11-3 | Dimethyl Phthalate | 490 | U |
| 208-96-8 | Acenaphthylene | 490 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 490 | U |
| 99-09-2 | 3-Nitroaniline | 2500 | U |
| 83-32-9 | Acenaphthene | 490 | U |

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL10

Name: COMPUCHEM, INC.

Contract: 68D00159

Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402881

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: GR002881B52

Level: (low/med) LOW

Date Received: 03/04/91

Mixture: 33 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) Y pH: 8.5

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2500 | U |
| 100-02-7----- | 4-Nitrophenol | 2500 | U |
| 132-64-9----- | Dibenzofuran | 490 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 490 | U |
| 84-66-2----- | Diethylphthalate | 490 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 490 | U |
| 86-73-7----- | Fluorene | 490 | U |
| 100-01-6----- | 4-Nitroaniline | 2500 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2500 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 490 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 490 | U |
| 118-74-1----- | Hexachlorobenzene | 490 | U |
| 87-86-5----- | Pentachlorophenol | 2500 | U |
| 85-01-8----- | Phenanthrene | 490 | U |
| 120-12-7----- | Anthracene | 490 | U |
| 86-74-8----- | Carbazole | 490 | U |
| 84-74-2----- | Di-n-Butylphthalate | 490 | U |
| 206-44-0----- | Fluoranthene | 490 | U |
| 129-00-0----- | Pyrene | 490 | U |
| 85-68-7----- | Benzylbenzylphthalate | 490 | U |
| 91-94-1----- | Dichlorobenzidine | 490 | U |
| 56-55-3----- | Benzo(a)Anthracene | 490 | U |
| 218-01-9----- | Chrysene | 490 | U |
| 117-81-7----- | Di-(2-Ethylhexyl) Phthalate | 130 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 490 | U |
| 205-99-2----- | Benzo(b) Fluoranthene | 490 | U |
| 207-08-9----- | Benzo(k) Fluoranthene | 490 | U |
| 50-32-8----- | Benzo(a) Pyrene | 490 | U |
| 193-39-5----- | Indeno(1,2,3-cd) Pyrene | 490 | U |
| 53-70-3----- | Dibenz(a,h) Anthracene | 490 | U |
| 191-24-2----- | Benzo(g,h,i) Perylene | 490 | U |

(1) - Cannot be separated from Diphenylamine

100750

1F
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL10

Sample Name: COMPUCHEM. RPT Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402881

Sample wt/vol: 30.2 (g/mL) G Lab File ID: GR002881B52

Level: (low/med) LOW Date Received: 03/04/91

Moisture: 33 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

Cleanup: (Y/N) Y pH: 8.5

Number TICs found: 28

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | SOLVENT CONTAMINANT | 5.32 | 3700 | B |
| 2. | ALDOL | 5.55 | 740 | J |
| 3. | SOLVENT CONTAMINANT | 5.78 | 590 | J |
| 4. | SOLVENT CONTAMINANT | 5.87 | 440 | J |
| 5. | BLANK CONTAMINANT | 6.68 | 400 | J |
| 6. | UNKNOWN | 6.78 | 690 | J |
| 7. | ALDOL | 7.12 | 590 | J |
| 8. | ALDOL | 7.50 | 350 | J |
| 9. | UNKNOWN | 8.35 | 590 | J |
| 10. | UNKNOWN HYDROCARBON | 12.99 | 150 | J |
| 11. | UNKNOWN | 14.24 | 99 | J |
| 12. | UNKNOWN | 14.69 | 490 | J |
| 13. | UNKNOWN HYDROCARBON | 15.47 | 250 | J |
| 14. | UNKNOWN | 15.54 | 250 | J |
| 15. | UNKNOWN | 16.24 | 200 | J |
| 16. | UNKNOWN HYDROCARBON | 16.52 | 150 | J |
| 17. | UNKNOWN | 16.64 | 690 | J |
| 18. | UNKNOWN | 16.94 | 200 | J |
| 19. | UNKNOWN HYDROCARBON | 17.64 | 99 | J |
| 20. | UNKNOWN | 18.27 | 150 | J |
| 21. | D10-PYRENE | 18.35 | 2400 | J |
| 22. | UNKNOWN | 22.47 | 150 | J |
| 23. | UNKNOWN | 25.69 | 300 | J |
| 24. | UNKNOWN | 30.87 | 590 | J |
| 25. | ALDOL | 6.97 | 2100 | J |
| 26. | UNKNOWN | 8.15 | 200 | J |
| 27. | UNKNOWN | 10.69 | 200 | J |
| 28. | UNKNOWN HYDROCARBON | 13.87 | 200 | J |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL11

Lab Name: COMPUCH Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402882

Sample wt/vol: 30.1 (g/mL) G Lab File ID: GRJ02882B07

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 43 decanted: (Y/N) N Date Extracted: 03/28/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/09/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

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

CAS NO. COMPOUND Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 580 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 580 | U |
| 95-57-8 | 2-Chlorophenol | 580 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 580 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 580 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 580 | U |
| 95-48-7 | 2-Methylphenol | 580 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 580 | U |
| 106-44-5 | 4-Methylphenol | 580 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 580 | U |
| 67-72-1 | Hexachloroethane | 580 | U |
| 98-95-3 | Nitrobenzene | 580 | U |
| 78-59-1 | Isophorone | 580 | U |
| 88-75-5 | 2-Nitrophenol | 580 | U |
| 105-67-9 | 2,4-Dimethylphenol | 580 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 580 | U |
| 120-83-2 | 2,4-Dichlorophenol | 580 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 580 | U |
| 91-20-3 | Naphthalene | 580 | U |
| 106-47-8 | 4-Chloroaniline | 580 | U |
| 87-68-3 | Hexachlorobutadiene | 580 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 580 | U |
| 91-57-6 | 2-Methylnaphthalene | 580 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 580 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 580 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 30000 | U |
| 91-58-7 | 2-Chloronaphthalene | 5800 | U |
| 88-74-4 | 2-Nitroaniline | 30000 | U |
| 131-11-3 | Dimethyl Phthalate | 5800 | U |
| 208-96-8 | Acenaphthylene | 5800 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 5800 | U |
| 99-09-2 | 3-Nitroaniline | 3000 | U |
| 83-32-9 | Acenaphthene | 580 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL11

Name: COMPUCH 2 REP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402882

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: GRJ02882B07

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 03/28/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/09/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 3000 | U |
| 100-02-7----- | 4-Nitrophenol | 3000 | U |
| 132-64-9----- | Dibenzofuran | 580 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 580 | U |
| 84-66-2----- | Diethylphthalate | 580 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 580 | U |
| 86-73-7----- | Fluorene | 580 | U |
| 100-01-6----- | 4-Nitroaniline | 3000 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 3000 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 580 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 580 | U |
| 118-74-1----- | Hexachlorobenzene | 580 | U |
| 87-86-5----- | Pentachlorophenol | 3000 | U |
| 85-01-8----- | Phenanthrene | 580 | U |
| 120-12-7----- | Anthracene | 580 | U |
| 86-74-8----- | Carbazole | 580 | U |
| 84-74-2----- | Di-n-Butylphthalate | 580 | U |
| 206-44-0----- | Fluoranthene | 580 | U |
| 129-00-0----- | Pyrene | 580 | U |
| 85-68-7----- | Butylbenzylphthalate | 580 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 580 | U |
| 56-55-3----- | Benzo(a)Anthracene | 580 | U |
| 218-01-9----- | Chrysene | 580 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 580 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 580 | U |
| 205-99-2----- | Benzo(b)Fluoranthene | 580 | U |
| 207-08-9----- | Benzo(k)Fluoranthene | 580 | U |
| 50-32-8----- | Benzo(a)Pyrene | 580 | U |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene | 580 | U |
| 53-70-3----- | Dibenz(a,h)Anthracene | 580 | U |
| 191-24-2----- | Benzo(g,h,i)Perylene | 580 | U |

(1) - Cannot be separated from Diphenylamine

100753

FORM I SV-2

3/90

1P
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL11

Name: COMPUCHER RTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402882

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: GRJ02882B07

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 03/28/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/09/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.4

Number TICs found: 24

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | |
|------------|---------------------|-------|------------|-----|
| 1. | SOLVENT CONTAMINANT | 4.67 | 350 | JNR |
| 2. | UNKNOWN | 5.13 | 700 | JNR |
| 3. | UNKNOWN | 5.30 | 870 | JNR |
| 4. | ALDOL | 5.40 | 1300 | JNR |
| 5. | UNKNOWN | 5.47 | 1200 | JNR |
| 6. | ALDOL | 5.75 | 700 | JNR |
| 7. | UNKNOWN HYDROCARBON | 8.94 | 870 | JNR |
| 8. | UNKNOWN HYDROCARBON | 9.17 | 760 | J |
| 9. | UNKNOWN HYDROCARBON | 9.52 | 470 | J |
| 10. | UNKNOWN HYDROCARBON | 9.72 | 930 | J |
| 11. | UNKNOWN HYDROCARBON | 9.95 | 1400 | J |
| 12. | UNKNOWN HYDROCARBON | 10.24 | 7000 | J |
| 13. | UNKNOWN HYDROCARBON | 10.44 | 700 | J |
| 14. | UNKNOWN HYDROCARBON | 10.47 | 640 | J |
| 15. | UNKNOWN HYDROCARBON | 10.75 | 6400 | J |
| 16. | UNKNOWN HYDROCARBON | 11.14 | 1300 | J |
| 17. | UNKNOWN HYDROCARBON | 11.19 | 1200 | J |
| 18. | UNKNOWN HYDROCARBON | 11.52 | 1400 | J |
| 19. | UNKNOWN HYDROCARBON | 11.62 | 1500 | J |
| 20. | UNKNOWN HYDROCARBON | 11.92 | 1100 | J |
| 21. | UNKNOWN HYDROCARBON | 12.04 | 820 | J |
| 22. | UNKNOWN HYDROCARBON | 12.45 | 700 | J |
| 23. | D10 PYRENE | 12.57 | 2400 | J |
| 24. | UNKNOWN HYDROCARBON | 12.85 | 700 | J |

100754

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL12

Name: COMPUCHEM, INC

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402883

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: GR002883B52

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: 34 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

SPC Cleanup: (Y/N) Y pH: 8.2

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

CAS NO.

COMPOUND

Q

| | | | |
|---------------|------------------------------|------|---|
| 108-95-2----- | Phenol | 490 | U |
| 111-44-4----- | bis(2-Chloroethyl) Ether | 490 | U |
| 95-57-8----- | 2-Chlorophenol | 490 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 490 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 490 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 490 | U |
| 95-48-7----- | 2-Methylphenol | 490 | U |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 490 | U |
| 106-44-5----- | 4-Methylphenol | 490 | U |
| 621-64-7----- | N-Nitroso-Di-n-Propylamine | 490 | U |
| 67-72-1----- | Hexachloroethane | 490 | U |
| 98-95-3----- | Nitrobenzene | 490 | U |
| 78-59-1----- | Isophorone | 490 | U |
| 88-75-5----- | 2-Nitrophenol | 490 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 490 | U |
| 111-91-1----- | bis(2-Chloroethoxy) Methane | 490 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 490 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 490 | U |
| 91-20-3----- | Naphthalene | 490 | U |
| 106-47-8----- | 4-Chloroaniline | 490 | U |
| 87-68-3----- | Hexachlorobutadiene | 490 | U |
| 59-50-7----- | 4-Chloro-3-Methylphenol | 490 | U |
| 91-57-6----- | 2-Methylnaphthalene | 490 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 490 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 490 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 2500 | U |
| 91-58-7----- | 2-Chloronaphthalene | 490 | U |
| 88-74-4----- | 2-Nitroaniline | 2500 | U |
| 131-11-3----- | Dimethyl Phthalate | 490 | U |
| 208-96-8----- | Acenaphthylene | 490 | U |
| 606-20-2----- | 2,6-Dinitrotoluene | 490 | U |
| 99-09-2----- | 3-Nitroaniline | 2500 | U |
| 83-32-9----- | Acenaphthene | 490 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL12

Lab Name: COMPU L RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402883

Sample wt/vol: 30.6 (g/mL) G Lab File ID: GR002883B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 34 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2500 | U |
| 100-02-7----- | 4-Nitrophenol | 2500 | U |
| 132-64-9----- | Dibenzofuran | 490 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 490 | U |
| 84-66-2----- | Diethylphthalate | 490 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 490 | U |
| 86-73-7----- | Fluorene | 490 | U |
| 100-01-6----- | 4-Nitroaniline | 2500 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2500 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 490 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 490 | U |
| 118-74-1----- | Hexachlorobenzene | 490 | U |
| 87-86-5----- | Pentachlorophenol | 2500 | U |
| 85-01-8----- | Phenanthrene | 490 | U |
| 120-12-7----- | Anthracene | 490 | U |
| 86-74-8----- | Carbazole | 490 | U |
| 84-74-2----- | Di-n-Butylphthalate | 490 | U |
| 206-44-0----- | Fluoranthene | 490 | U |
| 129-00-0----- | Pyrene | 490 | U |
| 85-68-7----- | Diethylbenzylphthalate | 490 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 490 | U |
| 56-55-3----- | Benzo(a)Anthracene | 490 | U |
| 218-01-9----- | Chrysene | 490 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 73 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 490 | U |
| 205-99-2----- | Benzo(b)Fluoranthene | 490 | U |
| 207-08-9----- | Benzo(k)Fluoranthene | 490 | U |
| 50-32-8----- | Benzo(a)Pyrene | 490 | U |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene | 490 | U |
| 53-70-3----- | Dibenz(a,h)Anthracene | 490 | U |
| 191-24-2----- | Benzo(g,h,i)Perylene | 490 | U |

(1) - Cannot be separated from Diphenylamine

100756

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL12

Name: COMPUCHER Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402883

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: GR002883B52

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: 34 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) Y pH: 8.2

Number TICs found: 22

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---------------|
| 1. | SOLVENT CONTAMINANT | 5.32 | 3600 | PS |
| | UNKNOWN | 5.87 | 99 | J |
| | ALDOL | 5.53 | 500 | J |
| 4. | UNKNOWN | 5.63 | 150 | J |
| 5. | SOLVENT CONTAMINANT | 5.77 | 400 | PS |
| 6. | SOLVENT CONTAMINANT | 5.87 | 250 | PS |
| 7. | BLANK CONTAMINANT | 6.68 | 200 | PS |
| 8. | ALDOL | 6.78 | 400 | PS |
| 9. | UNKNOWN | 6.80 | 150 | J |
| 10. | ALDOL | 6.98 | 1900 | PS |
| 11. | ALDOL | 7.10 | 400 | PS |
| | ALDOL | 7.50 | 200 | PS |
| | UNKNOWN | 8.35 | 300 | J |
| 14. | UNKNOWN | 14.69 | 300 | J |
| | UNKNOWN | 15.47 | 150 | J |
| | UNKNOWN | 15.54 | 150 | J |
| 17. | UNKNOWN | 16.25 | 150 | J |
| 18. | UNKNOWN | 16.52 | 150 | J |
| | UNKNOWN | 16.64 | 790 | J |
| 19. | UNKNOWN | 16.94 | 150 | J |
| 1. | UNKNOWN | 17.62 | 99 | J |
| | D10-PYRENE | 18.35 | 2000 | PS |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL17RE

Lab Name: COMPUCHILL RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402888

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G2R02888B08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/03/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/06/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

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

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 95-48-7 | 2-Methylphenol | 400 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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 | 170 | J |
| 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 | 630 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U |
| 91-58-7 | 2-Chloronaphthalene | 400 | U |
| 88-74-4 | 2-Nitroaniline | 2100 | U |
| 131-11-3 | Dimethyl Phthalate | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 99-09-2 | 3-Nitroaniline | 2100 | U |
| 83-32-9 | Acenaphthene | 400 | U |

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL17RE

Name: COMPUCHE RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402888

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G2R02888B08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/03/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/06/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

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

CAS NO.

COMPOUND

Q

| | | | | |
|----------------|----------------------------|------|---|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2100 | U | R |
| 100-02-7----- | 4-Nitrophenol | 2100 | U | |
| 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 | R |
| 86-73-7----- | Fluorene | 200 | J | |
| 100-01-6----- | 4-Nitroaniline | 2100 | U | R |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2100 | 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 | 2100 | U | R |
| 85-01-8----- | Phenanthrene | 350 | J | |
| 120-12-7----- | Anthracene | 400 | U | R |
| 86-74-8----- | Carbazole | 400 | U | R |
| 84-74-2----- | Di-n-Butylphthalate | 63 | J | |
| 206-44-0----- | Fluoranthene | 43 | J | |
| 129-00-0----- | Pyrene | 86 | J | |
| 85-68-7----- | Diethylbenzylphthalate | 150 | J | |
| 91-94-1----- | 1,3-Dichlorobenzidine | 400 | U | R |
| 56-55-3----- | Benzo(a)Anthracene | 400 | U | R |
| 218-01-9----- | Chrysene | 400 | U | R |
| 117-81-7----- | bis(2-Ethylhexyl)Phthalate | 2200 | U | R |
| 117-84-0----- | Di-n-Octyl Phthalate | 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 | R |

(1) - Cannot be separated from Diphenylamine

100759

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL17RE

Name: COMPUCHES RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402888

Sample wt/vol: 30.2 (g/mL) G Lab File ID: G2R02888B08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 19 decanted: (Y/N) N Date Extracted: 04/03/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/06/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|------------------------------|-------|------------|---|
| 1. | UNKNOWN HYDROCARBON | 7.27 | 7400 | J |
| 2. | UNKNOWN ALKYL CYCLOHEXANE | 7.62 | 3500 | J |
| 3. | UNKNOWN HYDROCARBON | 7.73 | 3900 | J |
| 4. | UNKNOWN HYDROCARBON | 7.92 | 11000 | J |
| 5. | 1-METHYLNAPHTHALENE & UNKNOW | 8.22 | 3900 | J |
| 6. | UNKNOWN | 8.27 | 2300 | J |
| 7. | UNKNOWN HYDROCARBON | 8.39 | 5700 | J |
| 8. | UNKNOWN HYDROCARBON | 8.54 | 4900 | J |
| 9. | UNKNOWN HYDROCARBON | 8.87 | 5300 | J |
| 10. | UNKNOWN HYDROCARBON | 9.10 | 6100 | J |
| 11. | UNKNOWN | 9.45 | 2000 | J |
| 12. | UNKNOWN HYDROCARBON | 9.65 | 6500 | J |
| 13. | UNKNOWN HYDROCARBON | 9.89 | 4000 | J |
| 14. | UNKNOWN HYDROCARBON | 10.19 | 8200 | J |
| 15. | UNKNOWN HYDROCARBON | 10.69 | 4900 | J |
| 16. | UNKNOWN HYDROCARBON | 10.72 | 2800 | J |
| 17. | UNKNOWN HYDROCARBON | 11.19 | 4100 | J |
| 18. | UNKNOWN HYDROCARBON | 11.67 | 4500 | J |
| 19. | UNKNOWN HYDROCARBON | 12.17 | 3500 | J |
| 20. | UNKNOWN HYDROCARBON | 13.15 | 4900 | J |

100760

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL17

Name: COMPUCHEM, INC

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402888

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: GRD02888B52

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

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

CAS NO.

COMPOUND

Q

| | | | | |
|---------------|------------------------------|------|---|---|
| 108-95-2----- | Phenol | 400 | U | R |
| 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 | |
| 95-50-1----- | 1,2-Dichlorobenzene | 400 | U | |
| 95-48-7----- | 2-Methylphenol | 400 | U | |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 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 | |
| 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----- | 5-Chloroaniline | 400 | U | |
| 87-68-3----- | Hexachlorobutadiene | 400 | U | |
| 59-50-7----- | 2-Chloro-3-Methylphenol | 400 | U | |
| 91-57-6----- | 2-Methylnaphthalene | 740 | U | |
| 77-47-4----- | Hexachlorocyclopentadiene | 400 | U | |
| 88-06-2----- | 2,4,6-Trichlorophenol | 400 | U | |
| 95-95-4----- | 2,4,5-Trichlorophenol | 2100 | U | |
| 91-58-7----- | 2-Chloronaphthalene | 400 | U | |
| 88-74-4----- | 2-Nitroaniline | 2100 | U | |
| 131-11-3----- | Dimethyl Phthalate | 400 | U | |
| 208-96-8----- | Acenaphthylene | 400 | U | |
| 606-20-2----- | 2,6-Dinitrotoluene | 400 | U | |
| 99-09-2----- | 3-Nitroaniline | 2100 | U | |
| 83-32-9----- | Acenaphthene | 400 | U | |

EPA SAMPLE NO.

BGL17

Contract: 68D00159

Matrix: (soil/water) SOIL

Lab Sample ID: 402888

Lab File ID: GRD02888B52

Date Received: 03/04/91

Date Extracted: 03/15/91

Date Analyzed: 03/24/91

Dilution Factor: 1.0

CONCENTRATION UNITS:

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

Q

(1) - Cannot be separated from Diphenylamine

1P
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL17

Name: COMPUCHEM, INC

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402888

Sample wt/vol: 30.4 (g/mL) G Lab File ID: GRD02888B52

Level: (low/med) LOW Date Received: 03/04/91

Moisture: 19 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/24/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|------------|
| 1. | UNKNOWN HYDROCARBON | 10.19 | 12000 | J <u>N</u> |
| 2. | UNKNOWN HYDROCARBON | 11.24 | 22000 | J |
| 3. | UNKNOWN | 12.20 | 5300 | J |
| 4. | UNKNOWN HYDROCARBON | 12.24 | 11000 | J |
| 5. | UNKNOWN | 12.82 | 7700 | J |
| 6. | UNKNOWN | 13.14 | 13000 | J |
| 7. | UNKNOWN HYDROCARBON | 13.17 | 15000 | J |
| 8. | UNKNOWN | 13.74 | 5700 | J |
| 9. | UNKNOWN | 14.02 | 13000 | J |
| 10. | UNKNOWN HYDROCARBON | 14.44 | 9300 | J |
| 11. | UNKNOWN HYDROCARBON | 14.85 | 30000 | J |
| 12. | UNKNOWN HYDROCARBON | 14.89 | 31000 | J |
| 13. | UNKNOWN | 15.65 | 19000 | J |
| 14. | UNKNOWN HYDROCARBON | 15.67 | 21000 | J |
| 15. | UNKNOWN HYDROCARBON | 15.72 | 11000 | J |
| 16. | UNKNOWN HYDROCARBON | 16.44 | 18000 | J |
| 17. | UNKNOWN | 17.12 | 6100 | J |
| 18. | UNKNOWN HYDROCARBON | 17.15 | 19000 | J |
| 19. | UNKNOWN HYDROCARBON | 18.49 | 26000 | J |
| 20. | UNKNOWN HYDROCARBON | 19.10 | 12000 | J <u>N</u> |

100763

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL16RE

Name: COMPUCHEM

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402887

Sample wt/vol: 1.3 (g/mL) G

Lab File ID: GRD02887A07

Level: (low/med) MED

Date Received: 03/04/91

Moisture: 42 decanted: (Y/N) N

Date Extracted: 04/17/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/26/91

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

PC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO.

COMPOUND

Q

| | | | |
|----------|------------------------------|--------|---|
| 108-95-2 | Phenol | 53000 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 53000 | U |
| 95-57-8 | 2-Chlorophenol | 53000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 53000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 53000 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 53000 | U |
| 95-48-7 | 2-Methylphenol | 53000 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 53000 | U |
| 106-44-5 | 4-Methylphenol | 53000 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 53000 | U |
| 67-72-1 | Hexachloroethane | 53000 | U |
| 98-95-3 | Nitrobenzene | 53000 | U |
| 78-59-1 | Isophorone | 53000 | U |
| 88-75-5 | 2-Nitrophenol | 53000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 53000 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 53000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 53000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 53000 | U |
| 91-20-3 | Naphthalene | 53000 | U |
| 106-47-8 | Chloroaniline | 53000 | U |
| 87-68-3 | 1,2-Dichlorobutadiene | 53000 | U |
| 59-50-7 | 2-Chloro-3-Methylphenol | 53000 | U |
| 91-57-6 | 1-Methylnaphthalene | 53000 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 53000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 53000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 270000 | U |
| 91-58-7 | 2-Chloronaphthalene | 53000 | U |
| 88-74-4 | 2-Nitroaniline | 270000 | U |
| 131-11-3 | Dimethyl Phthalate | 53000 | U |
| 208-96-8 | Acenaphthylene | 53000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 53000 | U |
| 99-09-2 | 3-Nitroaniline | 270000 | U |
| 83-32-9 | Acenaphthene | 53000 | U |

1C
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMPUCH L RTP

Contract: 68D00159

BGL16RE

Code: COMPU Case No.: 15933 SAS No.: SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402887

Sample wt/vol: 1.3 (g/mL) G Lab File ID: GRD02887A07

Level: (low/med) MED Date Received: 03/04/91

% Moisture: 42 decanted: (Y/N) N Date Extracted: 04/17/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/26/91

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.8

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 270000 | U |
| 100-02-7 | 4-Nitrophenol | 270000 | U |
| 132-64-9 | Dibenzofuran | 53000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 53000 | U |
| 84-66-2 | Diethylphthalate | 53000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 53000 | U |
| 86-73-7 | Fluorene | 53000 | U |
| 100-01-6 | 4-Nitroaniline | 270000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 270000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 53000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 53000 | U |
| 118-74-1 | Hexachlorobenzene | 53000 | U |
| 87-86-5 | Pentachlorophenol | 270000 | U |
| 85-01-8 | Phenanthrene | 53000 | U |
| 120-12-7 | Anthracene | 53000 | U |
| 86-74-8 | Carbazole | 53000 | U |
| 84-74-2 | Di-n-Butylphthalate | 53000 | U |
| 206-44-0 | Fluoranthene | 53000 | U |
| 129-00-0 | Pyrene | 5500 | J |
| 85-68-7 | Butylbenzylphthalate | 53000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 53000 | U |
| 56-55-3 | Benzo(a)Anthracene | 53000 | U |
| 218-01-9 | Chrysene | 53000 | U |
| 117-81-7 | bis(2-Ethylhexyl) Phthalate | 6300 | U |
| 117-84-0 | Di-n-Octyl Phthalate | 53000 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 53000 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 53000 | U |
| 50-32-8 | Benzo(a) Pyrene | 53000 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 53000 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 53000 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 53000 | U |

(1) - Cannot be separated from Diphenylamine

100765

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL16RE

Lab Name: COMPUCHEM RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402887

Sample wt/vol: 1.3 (g/mL) G

Lab File ID: GRD02887A07

Level: (low/med) MED

Date Received: 03/04/91

Moisture: 42 decanted: (Y/N) N

Date Extracted: 04/17/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/26/91

Injection Volume: 2.0 (uL)

Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | UNKNOWN HYDROCARBON | 6.85 | 390000 | J |
| 2. | UNKNOWN HYDROCARBON | 7.55 | 420000 | J |
| 3. | UNKNOWN HYDROCARBON | 8.22 | 580000 | J |
| 4. | UNKNOWN | 8.57 | 390000 | J |
| 5. | UNKNOWN HYDROCARBON | 8.69 | 290000 | J |
| 6. | UNKNOWN HYDROCARBON | 8.82 | 690000 | J |
| 7. | UNKNOWN HYDROCARBON | 9.19 | 440000 | J |
| 8. | UNKNOWN HYDROCARBON | 9.40 | 640000 | J |
| 9. | UNKNOWN HYDROCARBON | 9.74 | 320000 | J |
| 10. | UNKNOWN HYDROCARBON | 9.94 | 800000 | J |
| 11. | UNKNOWN HYDROCARBON | 10.19 | 360000 | J |
| 12. | UNKNOWN HYDROCARBON | 10.45 | 1100000 | J |
| 13. | UNKNOWN HYDROCARBON | 10.94 | 580000 | J |
| 14. | UNKNOWN HYDROCARBON | 10.99 | 290000 | J |
| 15. | UNKNOWN HYDROCARBON | 11.40 | 580000 | J |
| 16. | UNKNOWN HYDROCARBON | 11.84 | 470000 | J |
| 17. | UNKNOWN HYDROCARBON | 12.25 | 420000 | J |
| 18. | UNKNOWN HYDROCARBON | 12.67 | 330000 | J |
| 19. | UNKNOWN HYDROCARBON | 13.12 | 230000 | J |
| 20. | UNKNOWN | 13.62 | 340000 | J |

100766

1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL16

Lab Name: COMPUCH Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402887

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH002887B08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 42 decanted: (Y/N) N Date Extracted: 04/02/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/06/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

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

CAS NO. COMPOUND

| | | | |
|----------|------------------------------|------|---|
| 108-95-2 | Phenol | 570 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 570 | U |
| 95-57-8 | 2-Chlorophenol | 570 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 570 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 570 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 570 | U |
| 95-48-7 | 2-Methylphenol | 570 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 570 | U |
| 106-44-5 | 4-Methylphenol | 570 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 570 | U |
| 67-72-1 | Hexachloroethane | 570 | U |
| 98-95-3 | Nitrobenzene | 570 | U |
| 78-59-1 | Isophorone | 570 | U |
| 88-75-5 | 2-Nitrophenol | 570 | U |
| 105-67-9 | 2,4-Dimethylphenol | 570 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 570 | U |
| 120-83-2 | 2,4-Dichlorophenol | 570 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 570 | U |
| 91-20-3 | Naphthalene | 570 | U |
| 106-47-8 | 2-Chloroaniline | 570 | U |
| 87-68-3 | Hexachlorobutadiene | 570 | U |
| 59-50-7 | 2-Chloro-3-Methylphenol | 570 | U |
| 91-57-6 | 2-Methylnaphthalene | 570 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 570 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 570 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2900 | U |
| 91-58-7 | 2-Chloronaphthalene | 570 | U |
| 88-74-4 | 2-Nitroaniline | 2900 | U |
| 131-11-3 | Dimethyl Phthalate | 570 | U |
| 208-96-8 | Acenaphthylene | 570 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 570 | U |
| 99-09-2 | 3-Nitroaniline | 2900 | U |
| 83-32-9 | Acenaphthene | 570 | U |

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL16

Name: COMPUCHER, JTP

Contract: 68D00159

Lab Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402887

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: GH002887B08

Level: (low/med) LOW

Date Received: 03/04/91

% Moisture: 42 decanted: (Y/N) N

Date Extracted: 04/02/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/06/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

| | | | | |
|----------------|-----------------------------|------|---|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2900 | U | R |
| 100-02-7----- | 4-Nitrophenol | 2900 | U | |
| 132-64-9----- | Dibenzofuran | 570 | U | |
| 121-14-2----- | 2,4-Dinitrotoluene | 570 | U | |
| 84-66-2----- | Diethylphthalate | 570 | U | |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 570 | U | |
| 86-73-7----- | Fluorene | 570 | U | |
| 100-01-6----- | 4-Nitroaniline | 2900 | U | |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 2900 | U | |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 570 | U | |
| 101-55-3----- | 4-Bromophenyl-phenylether | 570 | U | |
| 118-74-1----- | Hexachlorobenzene | 570 | U | |
| 87-86-5----- | Pentachlorophenol | 2900 | U | |
| 85-01-8----- | Phenanthrene | 570 | U | |
| 120-12-7----- | Anthracene | 570 | U | |
| 86-74-8----- | Carbazole | 570 | U | |
| 84-74-2----- | Di-n-Butylphthalate | 570 | U | |
| 206-44-0----- | Fluoranthene | 570 | U | |
| 129-00-0----- | Pyrene | 570 | U | |
| 85-68-7----- | Di-n-butylbenzylphthalate | 570 | U | |
| 91-94-1----- | 1,2-Dichlorobenzidine | 570 | U | |
| 56-55-3----- | Benzo(a)Anthracene | 570 | U | R |
| 218-01-9----- | Chrysene | 440 | J | |
| 117-81-7----- | Bis(2-Ethylhexyl) Phthalate | 400 | J | |
| 117-84-0----- | Di-n-Octyl Phthalate | 570 | U | R |
| 205-99-2----- | Benzo(b) Fluoranthene | 570 | U | |
| 207-08-9----- | Benzo(k) Fluoranthene | 570 | U | |
| 50-32-8----- | Benzo(a) Pyrene | 570 | U | |
| 193-39-5----- | Indeno(1,2,3-cd) Pyrene | 570 | U | |
| 53-70-3----- | Dibenz(a,h) Anthracene | 570 | U | |
| 191-24-2----- | Benzo(g,h,i) Perylene | 570 | U | R |

(1) - Cannot be separated from Diphenylamine

100768

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL16

Lab Name: COMPUCH L RTP Contract: 68D00159
 Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09
 Matrix: (soil/water) SOIL Lab Sample ID: 402887
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH002887B08
 Level: (low/med) LOW Date Received: 03/04/91
 % Moisture: 42 decanted: (Y/N) N Date Extracted: 04/02/91
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/06/91
 Injection Volume: 2.0 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | UNKNOWN HYDROCARBON | 5.80 | 28000 | J |
| 2. | UNKNOWN HYDROCARBON | 6.35 | 30000 | J |
| 3. | UNKNOWN | 7.05 | 100000 | J |
| 4. | UNKNOWN | 7.38 | 80000 | J |
| 5. | UNKNOWN HYDROCARBON | 8.03 | 57000 | J |
| 6. | UNKNOWN HYDROCARBON | 8.67 | 100000 | J |
| 7. | UNKNOWN | 9.02 | 120000 | J |
| 8. | UNKNOWN HYDROCARBON | 9.25 | 150000 | J |
| 9. | UNKNOWN | 9.54 | 33000 | J |
| 10. | UNKNOWN HYDROCARBON | 9.80 | 150000 | J |
| 11. | UNKNOWN HYDROCARBON | 10.04 | 110000 | J |
| 12. | UNKNOWN HYDROCARBON | 10.35 | 180000 | J |
| 13. | UNKNOWN HYDROCARBON | 10.55 | 48000 | J |
| 14. | UNKNOWN HYDROCARBON | 10.87 | 150000 | J |
| 15. | UNKNOWN HYDROCARBON | 11.37 | 130000 | J |
| 16. | UNKNOWN HYDROCARBON | 11.85 | 98000 | J |
| 17. | UNKNOWN HYDROCARBON | 12.34 | 69000 | J |
| 18. | UNKNOWN HYDROCARBON | 12.82 | 46000 | J |
| 19. | UNKNOWN HYDROCARBON | 13.29 | 32000 | J |
| 20. | UNKNOWN HYDROCARBON | 13.77 | 40000 | J |

100769

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL13

Lab Name: COMPUCHER, INC. Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402884

Sample wt/vol: 30.7 (g/mL) G Lab File ID: GR002884B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

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

CAS NO.

COMPOUND

Q

| | | |
|----------|------------------------------|------|
| 108-95-2 | Phenol | 380 |
| 111-44-4 | bis(2-Chloroethyl) Ether | 380 |
| 95-57-8 | 2-Chlorophenol | 380 |
| 541-73-1 | 1,3-Dichlorobenzene | 380 |
| 106-46-7 | 1,4-Dichlorobenzene | 380 |
| 95-50-1 | 1,2-Dichlorobenzene | 380 |
| 95-48-7 | 2-Methylphenol | 380 |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 380 |
| 106-44-5 | 4-Methylphenol | 380 |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 380 |
| 67-72-1 | Hexachloroethane | 380 |
| 98-95-3 | Nitrobenzene | 380 |
| 78-59-1 | Isophorone | 380 |
| 88-75-5 | 2-Nitrophenol | 380 |
| 105-67-9 | 2,4-Dimethylphenol | 380 |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 380 |
| 120-83-2 | 2,4-Dichlorophenol | 380 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 380 |
| 91-20-3 | Naphthalene | 380 |
| 106-47-8 | 4-Chloroaniline | 380 |
| 87-68-3 | Hexachlorobutadiene | 380 |
| 59-50-7 | 4-Chloro-3-Methylphenol | 380 |
| 91-57-6 | 2-Methylnaphthalene | 380 |
| 77-47-4 | Hexachlorocyclopentadiene | 380 |
| 88-06-2 | 2,4,6-Trichlorophenol | 380 |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 |
| 91-58-7 | 2-Chloronaphthalene | 380 |
| 88-74-4 | 2-Nitroaniline | 2000 |
| 131-11-3 | Dimethyl Phthalate | 380 |
| 208-96-8 | Acenaphthylene | 380 |
| 606-20-2 | 2,6-Dinitrotoluene | 380 |
| 99-09-2 | 3-Nitroaniline | 2000 |
| 83-32-9 | Acenaphthene | 380 |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL13

Name: COMPUCHL RTP

Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402884

Sample wt/vol: 30.7 (g/mL) G Lab File ID: GR002884B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7----- | 4-Nitrophenol | 2000 | 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 | 2000 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2000 | 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 | 2000 | U |
| 85-01-8----- | Phenanthrene | 380 | U |
| 120-12-7----- | Anthracene | 380 | U |
| 86-74-8----- | Carbazole | 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 | 380 | U |
| 56-55-3----- | Benzo(a)Anthracene | 380 | U |
| 218-01-9----- | Chrysene | 380 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 67 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 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

100771

1F

EPA SAMPLE NO.

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET POSITIVELY IDENTIFIED COMPOUNDS

BGL13

Name: COMPUTER RTPContract: 68D00159Lab Code: COMPUCase No.: 15933

SAS No.: _____

SDG No.: BGL09Matrix: (soil/water) SOILLab Sample ID: 402884Sample wt/vol: 30.7 (g/mL) GLab File ID: GR002884B52Level: (low/med) LOWDate Received: 03/04/91% Moisture: 16 decanted: (Y/N) NDate Extracted: 03/15/91Concentrated Extract Volume: 500.0 (uL)Date Analyzed: 03/19/91Injection Volume: 2.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) YpH: 6.9Number TICs found: 27
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | UNKNOWN | 5.22 | 500 | J |
| 2. | SOLVENT CONTAMINANT | 5.43 | 14000 | J |
| 3. | SOLVENT CONTAMINANT | 5.52 | 120 | J |
| 4. | SOLVENT CONTAMINANT | 5.62 | 540 | J |
| 5. | UNKNOWN | 5.72 | 540 | J |
| 6. | UNKNOWN | 6.53 | 890 | J |
| 7. | BLANK CONTAMINANT | 6.75 | 620 | J |
| 8. | ALDOL | 6.98 | 540 | J |
| 9. | ALDOL | 7.17 | 620 | J |
| 10. | ALDOL | 7.53 | 660 | J |
| 11. | UNKNOWN | 8.40 | 390 | J |
| 12. | UNKNOWN | 16.69 | 230 | J |
| 13. | D10-PYRENE | 18.39 | 1100 | J |
| 14. | UNKNOWN | 18.62 | 700 | J |
| 15. | UNKNOWN HYDROCARBON | 19.75 | 470 | J |
| 16. | UNKNOWN HYDROCARBON | 20.14 | 230 | J |
| 17. | UNKNOWN | 20.37 | 190 | J |
| 18. | UNKNOWN | 21.64 | 120 | J |
| 19. | UNKNOWN | 27.14 | 970 | J |
| 20. | UNKNOWN | 29.56 | 2300 | J |
| 21. | UNKNOWN | 30.92 | 1300 | J |
| 22. | UNKNOWN | 33.77 | 1200 | J |
| 23. | UNKNOWN | 8.22 | 350 | J |
| 24. | UNKNOWN | 9.62 | 230 | J |
| 25. | UNKNOWN | 15.14 | 120 | J |
| 26. | UNKNOWN HYDROCARBON | 25.81 | 470 | J |
| 27. | UNKNOWN | 29.07 | 660 | J |

100772

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL14

Lab Name: COMPUCHEN, JEP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402885

Sample wt/vol: 30.4 (g/mL) G Lab File ID: GR002885B52

Level: (low/med) LOW Date Received: 03/04/91

Moisture: 16 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) Y pH: 8.1

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol | 390 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 390 | U |
| 95-57-8 | 2-Chlorophenol | 390 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 390 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 390 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 390 | U |
| 95-48-7 | 2-Methylphenol | 390 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 390 | U |
| 106-44-5 | 4-Methylphenol | 390 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 390 | U |
| 67-72-1 | Hexachloroethane | 390 | U |
| 98-95-3 | Nitrobenzene | 390 | U |
| 78-59-1 | Isophorone | 390 | U |
| 88-75-5 | 2-Nitrophenol | 390 | U |
| 105-67-9 | 2,4-Dimethylphenol | 390 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 390 | U |
| 120-83-2 | 2,4-Dichlorophenol | 390 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 390 | U |
| 91-20-3 | Phthalene | 390 | U |
| 106-47-8 | Chloroaniline | 390 | U |
| 87-68-3 | Chlorobutadiene | 390 | U |
| 59-50-7 | Chloro-3-Methylphenol | 390 | U |
| 91-57-6 | 2-Methylnaphthalene | 390 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 390 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 390 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethyl Phthalate | 390 | U |
| 208-96-8 | Acenaphthylene | 390 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 390 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 390 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL14

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402885

Sample wt/vol: 30.4 (g/mL) G Lab File ID: GR002885B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7----- | 4-Nitrophenol | 2000 | U |
| 132-64-9----- | Dibenzofuran | 390 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 390 | U |
| 84-66-2----- | Diethylphthalate | 390 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 390 | U |
| 86-73-7----- | Fluorene | 390 | U |
| 100-01-6----- | 4-Nitroaniline | 2000 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 2000 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 390 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 390 | U |
| 118-74-1----- | Hexachlorobenzene | 390 | U |
| 87-86-5----- | Pentachlorophenol | 2000 | U |
| 85-01-8----- | Phenanthrene | 390 | U |
| 120-12-7----- | Anthracene | 390 | U |
| 86-74-8----- | Carbazole | 390 | U |
| 84-74-2----- | Di-n-Butylphthalate | 390 | U |
| 206-44-0----- | Fluoranthene | 390 | U |
| 129-00-0----- | Pyrene | 390 | U |
| 85-68-7----- | Di-n-Butylbenzylphthalate | 390 | U |
| 91-94-1----- | 2,3'-Dichlorobenzidine | 390 | U |
| 56-55-3----- | Benzo(a)Anthracene | 390 | U |
| 218-01-9----- | Chrysene | 390 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 470 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 390 | U |
| 205-99-2----- | Benzo(b)Fluoranthene | 390 | U |
| 207-08-9----- | Benzo(k)Fluoranthene | 390 | U |
| 50-32-8----- | Benzo(a)Pyrene | 390 | U |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene | 390 | U |
| 53-70-3----- | Dibenz(a,h)Anthracene | 390 | U |
| 191-24-2----- | Benzo(g,h,i)Perylene | 390 | U |

(1) - Cannot be separated from Diphenylamine

100774

1P
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL14

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402885

Sample wt/vol: 30.4 (g/mL) G Lab File ID: GR002885B52

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/15/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 25

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------------|-------|------------|---|
| 1. | SOLVENT CONTAMINANT | 5.30 | 2000 | J |
| 2. | ALDOL | 5.53 | 510 | J |
| 3. | UNKNOWN OXYGENATED ALKANE | 5.63 | 160 | J |
| 4. | SOLVENT CONTAMINANT | 5.77 | 240 | J |
| 5. | BLANK CONTAMINANT | 6.70 | 120 | J |
| 6. | UNKNOWN | 6.78 | 390 | J |
| 7. | ALDOL | 6.97 | 630 | J |
| 8. | UNKNOWN | 8.39 | 240 | J |
| 9. | UNKNOWN | 11.10 | 160 | J |
| 10. | UNKNOWN | 11.14 | 120 | J |
| 11. | UNKNOWN | 12.09 | 200 | J |
| 12. | UNKNOWN | 13.02 | 240 | J |
| 13. | UNKNOWN | 14.27 | 78 | J |
| 14. | UNKNOWN | 14.72 | 390 | J |
| 15. | UNKNOWN | 15.50 | 240 | J |
| 16. | UNKNOWN | 15.57 | 120 | J |
| 17. | UNKNOWN | 16.67 | 160 | J |
| 18. | UNKNOWN | 16.97 | 160 | J |
| 19. | UNKNOWN | 17.65 | 120 | J |
| 20. | UNKNOWN | 18.32 | 120 | J |
| 21. | D10-PYRENE | 18.39 | 1400 | J |
| 22. | UNKNOWN | 24.97 | 5500 | J |
| 23. | UNKNOWN | 25.16 | 37000 | J |
| 24. | UNKNOWN HYDROCARBONS | 13.87 | 240 | J |
| 25. | UNKNOWN HYDROCARBONS | 16.24 | 200 | J |

100775

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL15

Sample Name: COMPUCHER-RT Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402886

Sample wt/vol: 1.1 (g/mL) G Lab File ID: G2R02886A21

Level: (low/med) MED Date Received: 03/04/91

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/18/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/25/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

SPC Cleanup: (Y/N) Y pH: 8.1

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

CAS NO.

COMPOUND

Q

| | | | |
|----------|------------------------------|-------|---|
| 108-95-2 | Phenol | 11000 | U |
| 111-44-4 | bis(2-Chloroethyl) Ether | 11000 | U |
| 95-57-8 | 2-Chlorophenol | 11000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 11000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 11000 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 11000 | U |
| 95-48-7 | 2-Methylphenol | 11000 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 11000 | U |
| 106-44-5 | 4-Methylphenol | 11000 | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine | 11000 | U |
| 67-72-1 | Hexachloroethane | 11000 | U |
| 98-95-3 | Nitrobenzene | 11000 | U |
| 78-59-1 | Isophorone | 11000 | U |
| 88-75-5 | 2-Nitrophenol | 11000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 11000 | U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 11000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 11000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 11000 | U |
| 91-20-3 | Naphthalene | 11000 | U |
| 106-47-8 | Chloroaniline | 11000 | U |
| 87-68-3 | Hexachlorobutadiene | 11000 | U |
| 59-50-7 | 2-Chloro-3-Methylphenol | 11000 | U |
| 91-57-6 | 2-Methylnaphthalene | 11000 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 11000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 11000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 55000 | U |
| 91-58-7 | 2-Chloronaphthalene | 11000 | U |
| 88-74-4 | 2-Nitroaniline | 55000 | U |
| 131-11-3 | Dimethyl Phthalate | 11000 | U |
| 208-96-8 | Acenaphthylene | 11000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 11000 | U |
| 99-09-2 | 3-Nitroaniline | 55000 | U |
| 83-32-9 | Acenaphthene | 11000 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL15

Lab Name: COMPUTER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402886

Sample wt/vol: 1.1 (g/mL) G Lab File ID: G2R02886A21

Level: (low/med) MED Date Received: 03/04/91

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/18/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/25/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|-------|---|
| 51-28-5----- | 2,4-Dinitrophenol | 55000 | U |
| 100-02-7----- | 4-Nitrophenol | 55000 | U |
| 132-64-9----- | Dibenzofuran | 11000 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 11000 | U |
| 84-66-2----- | Diethylphthalate | 11000 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 11000 | U |
| 86-73-7----- | Fluorene | 11000 | U |
| 100-01-6----- | 4-Nitroaniline | 55000 | U |
| 534-52-1----- | 4,6-Dinitro-2-Methylphenol | 55000 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 11000 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 11000 | U |
| 118-74-1----- | Hexachlorobenzene | 11000 | U |
| 87-86-5----- | Pentachlorophenol | 55000 | U |
| 85-01-8----- | Phenanthrene | 11000 | U |
| 120-12-7----- | Anthracene | 11000 | U |
| 86-74-8----- | Carbazole | 11000 | U |
| 84-74-2----- | Di-n-Butylphthalate | 11000 | U |
| 206-44-0----- | Fluoranthene | 11000 | U |
| 129-00-0----- | Pyrene | 11000 | U |
| 85-68-7----- | Di-n-Butylbenzylphthalate | 11000 | U |
| 91-94-1----- | 2,3'-Dichlorobenzidine | 11000 | U |
| 56-55-3----- | Benzo(a) Anthracene | 11000 | U |
| 218-01-9----- | Chrysene | 11000 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 1100 | U |
| 117-84-0----- | Di-n-Octyl Phthalate | 11000 | U |
| 205-99-2----- | Benzo(b) Fluoranthene | 11000 | U |
| 207-08-9----- | Benzo(k) Fluoranthene | 11000 | U |
| 50-32-8----- | Benzo(a) Pyrene | 11000 | U |
| 193-39-5----- | Indeno(1,2,3-cd) Pyrene | 11000 | U |
| 53-70-3----- | Dibenz(a,h) Anthracene | 11000 | U |
| 191-24-2----- | Benzo(g,h,i) Perylene | 11000 | U |

(1) - Cannot be separated from Diphenylamine

100777

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL15

Lab Name: COMPUCHER Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402886

Sample wt/vol: 1.1 (g/mL) G Lab File ID: G2R02886A21

Level: (low/med) MED Date Received: 03/04/91

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/18/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/25/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | UNKNOWN HYDROCARBON | 7.12 | 100000 | J |
| 2. | UNKNOWN HYDROCARBON | 7.98 | 130000 | J |
| 3. | UNKNOWN HYDROCARBON | 8.55 | 72000 | J |
| 4. | UNKNOWN HYDROCARBON | 8.79 | 170000 | J |
| 5. | UNKNOWN HYDROCARBON | 9.35 | 91000 | J |
| 6. | UNKNOWN HYDROCARBON | 9.54 | 180000 | J |
| 7. | UNKNOWN HYDROCARBON | 9.95 | 120000 | J |
| 8. | UNKNOWN HYDROCARBON | 10.24 | 200000 | J |
| 9. | UNKNOWN HYDROCARBON | 10.67 | 58000 | J |
| 10. | UNKNOWN HYDROCARBON | 10.92 | 210000 | J |
| 11. | UNKNOWN HYDROCARBON | 11.20 | 110000 | J |
| 12. | UNKNOWN HYDROCARBON | 11.55 | 310000 | J |
| 13. | UNKNOWN HYDROCARBON | 12.15 | 190000 | J |
| 14. | UNKNOWN HYDROCARBON | 12.19 | 120000 | J |
| 15. | UNKNOWN HYDROCARBON | 12.65 | 47000 | J |
| 16. | UNKNOWN HYDROCARBON | 12.72 | 170000 | J |
| 17. | UNKNOWN HYDROCARBON | 13.27 | 400000 | J |
| 18. | UNKNOWN HYDROCARBON | 13.80 | 350000 | J |
| 19. | UNKNOWN HYDROCARBON | 14.32 | 270000 | J |
| 20. | UNKNOWN HYDROCARBON | 14.80 | 140000 | J |

100778

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL23

Lab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL09

Matrix: (soil/water) SOIL Lab Sample ID: 402889

Sample wt/vol: 30.3 (g/mL) G Lab File ID: GRJ02889B07

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: 9 decanted: (Y/N) N Date Extracted: 03/28/91

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/08/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|------------------------------|----------------------|---|
| 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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 | Dimethyl Phthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 360 | U |

1F
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL23

Lab: COMPUCHEM RTP

Contract: 68D00159

Code: COMPU

Case No.: 15933

SAS No.: _____

SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402889

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: GRJ02889B07

Level: (low/med) LOW

Date Received: 03/04/91

Moisture: 9 decanted: (Y/N) N

Date Extracted: 03/28/91

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/08/91

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) Y

pH: 7.5

Number TICs found: 26

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------------|-------|------------|---|
| 1. | SOLVENT CONTAMINANT | 4.67 | 510 | J |
| 2. | UNKNOWN | 5.22 | 510 | J |
| 3. | UNKNOWN | 5.28 | 760 | J |
| 4. | ALDOL | 5.38 | 290 | J |
| 5. | ALDOL | 5.48 | 760 | J |
| 6. | UNKNOWN | 5.53 | 330 | J |
| 7. | ALDOL | 5.75 | 760 | J |
| 8. | ALDOL | 5.88 | 440 | J |
| 9. | UNKNOWN | 5.95 | 400 | J |
| 10. | UNKNOWN | 6.98 | 330 | J |
| 11. | UNKNOWN | 7.88 | 290 | J |
| 12. | UNKNOWN | 7.95 | 180 | J |
| 13. | UNKNOWN | 8.62 | 150 | J |
| 14. | UNKNOWN | 9.42 | 290 | J |
| 15. | UNKNOWN | 9.45 | 330 | J |
| 16. | UNKNOWN | 9.57 | 730 | J |
| 17. | UNKNOWN | 10.12 | 400 | J |
| 18. | UNKNOWN | 11.19 | 110 | J |
| 19. | D10 PYRENE | 12.57 | 1500 | J |
| 20. | UNKNOWN | 14.95 | 800 | J |
| 21. | UNKNOWN HYDROCARBON | 16.82 | 250 | J |
| 22. | UNKNOWN | 19.42 | 730 | J |
| 23. | UNKNOWN | 23.12 | 870 | J |
| 24. | UNKNOWN | 26.32 | 1000 | J |
| | UNKNOWN | 26.42 | 360 | J |
| | UNKNOWN | 27.41 | 870 | J |

100781

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL18

Lab Name: COMPUCHEM, JTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402871

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002871A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| | | | |
|---------------|------------------------------|----|---|
| 108-95-2----- | Phenol | 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 |
| 95-50-1----- | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7----- | 2-Methylphenol | 10 | U |
| 108-60-1----- | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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----- | Dimethyl Phthalate | 10 | U |
| 208-96-8----- | Acenaphthylene | 10 | U |
| 606-20-2----- | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2----- | 3-Nitroaniline | 50 | U |
| 83-32-9----- | Acenaphthene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL18

Lab Name: COMPUCHEN, JTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402871

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002871A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|----|---|
| 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 |
| 86-74-8----- | Carbazole | 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 | 10 | U |
| 56-55-3----- | Benzo(a)Anthracene | 10 | U |
| 218-01-9----- | Chrysene | 10 | U |
| 117-81-7----- | bis(2-Ethylhexyl) Phthalate | 1 | J |
| 117-84-0----- | Di-n-Octyl Phthalate | 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

100783

1P
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL18

Lab Name: COMPUCHEM, INC. Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402871

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002871A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

EPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|---|
| 1. | D10-PYRENE | 13.39 | 48 | J |

100784

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL19

Name: COMPUCHEM. REF Contract: 68D00159

Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402872

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002872A08

Level: (low/med) LOW Date Received: 03/04/91

Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: _____

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/L</u> | 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 |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 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 |
| 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 | 2-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 | Dimethyl Phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL19

Ab Name: COMPUCHER RTP Contract: 68D00159

Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01

Matrix: (soil/water) WATER Lab Sample ID: 402872

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002872A08

Level: (low/med) LOW Date Received: 03/04/91

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| | | | |
|----------------|-----------------------------|----|---|
| 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 |
| 86-74-8----- | Carbazole | 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 | 10 | 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-Octyl Phthalate | 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

100786

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BGL19

Lab Name: COMPUCHEM, INC. Contract: 68D00159
Lab Code: COMPU Case No.: 15933 SAS No.: _____ SDG No.: BGL01
Matrix: (soil/water) WATER Lab Sample ID: 402872
Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH002872A08
Level: (low/med) LOW Date Received: 03/04/91
Moisture: _____ decanted: (Y/N) _____ Date Extracted: 03/08/91
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/12/91
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|---|
| 1. | D10-PYRENE | 13.30 | 52 | J |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL01

Lab Name: COMPUCE LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402938

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

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

| | | | |
|------------|---------------------|-------|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-36-3 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 2.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL02

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402939

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

PC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

Q

| | | | |
|-----------------|---------------------|-------|---|
| 319-84-6----- | alpha-BHC | 0.050 | U |
| 319-85-7----- | beta-BHC | 0.050 | U |
| 319-86-8----- | delta-BHC | 0.050 | U |
| 58-89-9----- | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8----- | Heptachlor | 0.050 | U |
| 309-00-2----- | Aldrin | 0.050 | U |
| 1024-57-3----- | Heptachlor epoxide | 0.050 | U |
| 959-98-8----- | Endosulfan I | 0.050 | U |
| 60-57-1----- | Dieldrin | 0.10 | U |
| 72-55-9----- | 4,4'-DDE | 0.10 | U |
| 72-20-8----- | Endrin | 0.10 | U |
| 33213-65-9----- | Endosulfan II | 0.10 | U |
| 72-54-8----- | 4,4'-DDD | 0.10 | U |
| 1031-07-8----- | Endosulfan sulfate | 0.10 | U |
| 50-29-3----- | 4,4'-DDT | 0.10 | U |
| 72-43-5----- | Methoxychlor | 0.50 | U |
| 53494-70-5----- | Endrin ketone | 0.10 | U |
| 7421-36-3----- | Endrin aldehyde | 0.10 | U |
| 5103-71-9----- | alpha-Chlordane | 0.050 | U |
| 5103-74-2----- | gamma-Chlordane | 0.050 | U |
| 8001-35-2----- | Toxaphene | 5.0 | U |
| 12674-11-2----- | Aroclor-1016 | 1.0 | U |
| 11104-28-2----- | Aroclor-1221 | 1.0 | U |
| 11141-16-5----- | Aroclor-1232 | 2.0 | U |
| 53469-21-9----- | Aroclor-1242 | 1.0 | U |
| 12672-29-6----- | Aroclor-1248 | 1.0 | U |
| 11097-69-1----- | Aroclor-1254 | 1.0 | U |
| 11096-82-5----- | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL03

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402940

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

PC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

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

Q

| | | | |
|-----------------|---------------------|-------|---|
| 319-84-6----- | alpha-BHC | 0.050 | U |
| 319-85-7----- | beta-BHC | 0.050 | U |
| 319-86-8----- | delta-BHC | 0.050 | U |
| 58-89-9----- | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8----- | Heptachlor | 0.050 | U |
| 309-00-2----- | Aldrin | 0.050 | U |
| 1024-57-3----- | Heptachlor epoxide | 0.050 | U |
| 959-98-8----- | Endosulfan I | 0.050 | U |
| 60-57-1----- | Dieldrin | 0.10 | U |
| 72-55-9----- | 4,4'-DDE | 0.10 | U |
| 72-20-8----- | Endrin | 0.10 | U |
| 33213-65-9----- | Endosulfan II | 0.10 | U |
| 72-54-8----- | 4,4'-DDD | 0.10 | U |
| 1031-07-8----- | Endosulfan sulfate | 0.10 | U |
| 50-29-3----- | 4,4'-DDT | 0.10 | U |
| 72-43-5----- | Methoxychlor | 0.50 | U |
| 53494-70-5----- | Endrin ketone | 0.10 | U |
| 7421-36-3----- | Endrin aldehyde | 0.10 | U |
| 5103-71-9----- | alpha-Chlordane | 0.050 | U |
| 5103-74-2----- | gamma-Chlordane | 0.050 | U |
| 8001-35-2----- | Toxaphene | 5.0 | U |
| 12674-11-2----- | Aroclor-1016 | 1.0 | U |
| 11104-28-2----- | Aroclor-1221 | 1.0 | U |
| 11141-16-5----- | Aroclor-1232 | 2.0 | U |
| 53469-21-9----- | Aroclor-1242 | 1.0 | U |
| 12672-29-6----- | Aroclor-1248 | 1.0 | U |
| 11097-69-1----- | Aroclor-1254 | 1.0 | U |
| 11096-82-5----- | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL04

Lab Name: COMPUCHERRY LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402941

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/12/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

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

| | | | |
|------------|---------------------|--------|----|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.0023 | JP |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.0036 | JP |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.0043 | JP |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.036 | JP |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.014 | JP |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.014 | J |
| 7421-36-3 | Endrin aldehyde | 0.045 | J |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.0033 | JP |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 2.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL06

Lab Name: COMPUCHEN LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402942

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/L</u> | Q |
|------------|---------------------|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-36-3 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 2.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL09

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402945

Sample wt/vol: 30.50(g/ml)G

Lab File ID:

% Moisture: 27 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 7.3

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|------------|---------------------|------|-----|
| 319-84-6 | alpha-BHC | 2.3 | U J |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 2.3 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.3 | U |
| 76-44-8 | Heptachlor | 2.3 | U |
| 309-00-2 | Aldrin | 2.3 | U |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U |
| 959-98-8 | Endosulfan I | 2.3 | U J |
| 60-57-1 | Dieldrin | 0.90 | JP |
| 72-55-9 | 4,4'-DDE | 4.4 | U J |
| 72-20-8 | Endrin | 0.71 | J |
| 33213-65-9 | Endosulfan II | 4.4 | U J |
| 72-54-8 | 4,4'-DDD | 4.4 | U J |
| 1031-07-8 | Endosulfan sulfate | 4.4 | U J |
| 50-29-3 | 4,4'-DDT | 0.61 | JP |
| 72-43-5 | Methoxychlor | 23 | U J |
| 53494-70 | Endrin ketone | 4.4 | U |
| 7421-36 | Endrin aldehyde | 4.4 | U |
| 5103-71-9 | alpha-Chlordane | 2.3 | U |
| 5103-74-2 | gamma-Chlordane | 2.3 | U |
| 8001-35-2 | Toxaphene | 230 | U |
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 90 | U |
| 11141-21-9 | Aroclor-1242 | 44 | U |
| | Aroclor-1248 | 44 | U |
| | Aroclor-1254 | 44 | U |
| | Aroclor-1260 | 44 | U J |

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL10

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402946

Sample wt/vol: 30.70(g/ml)G

Lab File ID:

% Moisture: 33 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 8.5

Sulfur Cleanup: (Y/N) N

| | | | |
|---------|----------|--|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | Q |
|---------|----------|--|---|

| | | | |
|------------|---------------------|-----|---|
| 319-84-6 | alpha-BHC | 2.5 | U |
| 319-85-7 | beta-BHC | 2.5 | U |
| 319-86-8 | delta-BHC | 2.5 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.5 | U |
| 76-44-8 | Heptachlor | 2.5 | U |
| 309-00-2 | Aldrin | 2.5 | U |
| 1024-57-3 | Heptachlor epoxide | 2.5 | U |
| 959-98-8 | Endosulfan I | 2.5 | U |
| 60-57-1 | Dieldrin | 4.8 | U |
| 72-55-9 | 4,4'-DDE | 4.8 | U |
| 72-20-8 | Endrin | 4.8 | U |
| 33213-65-9 | Endosulfan II | 4.8 | U |
| 72-54-8 | 4,4'-DDD | 4.8 | U |
| 1031-07-8 | Endosulfan sulfate | 4.8 | U |
| 50-29-3 | 4,4'-DDT | 4.8 | U |
| 72-43-5 | Methoxychlor | 25 | U |
| 53494-70-5 | Endrin ketone | 4.8 | U |
| 7421-36-3 | Endrin aldehyde | 4.8 | U |
| 5103-71-9 | alpha-Chlordane | 2.5 | U |
| 5103-74-2 | gamma-Chlordane | 2.5 | U |
| 8001-35-2 | Toxaphene | 250 | U |
| 12674-11-2 | Aroclor-1016 | 48 | U |
| 11104-28-2 | Aroclor-1221 | 48 | U |
| 11141-16-5 | Aroclor-1232 | 98 | U |
| 53469-21-9 | Aroclor-1242 | 48 | U |
| 12672-29-6 | Aroclor-1248 | 48 | U |
| 11097-69-1 | Aroclor-1254 | 48 | U |
| 11096-82-5 | Aroclor-1260 | 48 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL11

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402947

Sample wt/vol: 30.30(g/ml)G

Lab File ID:

% Moisture: 43 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 7.4

Sulfur Cleanup: (Y/N) N

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

Q

| | | | |
|-----------------|---------------------|-----|---|
| 319-84-6----- | alpha-BHC | 3.0 | U |
| 319-85-7----- | beta-BHC | 3.0 | U |
| 319-86-8----- | delta-BHC | 3.0 | U |
| 58-89-9----- | gamma-BHC (Lindane) | 3.0 | U |
| 76-44-8----- | Heptachlor | 3.0 | U |
| 309-00-2----- | Aldrin | 3.0 | U |
| 1024-57-3----- | Heptachlor epoxide | 3.0 | U |
| 959-98-8----- | Endosulfan I | 3.0 | U |
| 60-57-1----- | Dieldrin | 5.7 | U |
| 72-55-9----- | 4,4'-DDE | 5.7 | U |
| 72-20-8----- | Endrin | 5.7 | U |
| 33213-65-9----- | Endosulfan II | 5.7 | U |
| 72-54-8----- | 4,4'-DDD | 5.7 | U |
| 1031-07-8----- | Endosulfan sulfate | 5.7 | U |
| 50-29-3----- | 4,4'-DDT | 5.7 | U |
| 72-43-5----- | Methoxychlor | 30 | U |
| 53494-70-5----- | Endrin ketone | 5.7 | U |
| 7421-36-3----- | Endrin aldehyde | 5.7 | U |
| 5103-71-9----- | alpha-Chlordane | 3.0 | U |
| 5103-74-2----- | gamma-Chlordane | 3.0 | U |
| 8001-35-2----- | Toxaphene | 300 | U |
| 12674-11-2----- | Aroclor-1016 | 57 | U |
| 11104-28-2----- | Aroclor-1221 | 57 | U |
| 11141-16-5----- | Aroclor-1232 | 120 | U |
| 53469-21-9----- | Aroclor-1242 | 57 | U |
| 12672-29-6----- | Aroclor-1248 | 57 | U |
| 11097-69-1----- | Aroclor-1254 | 57 | U |
| 11096-82-5----- | Aroclor-1260 | 57 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL12

Lab Name: COMPUCHER LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402948

Sample wt/vol: 30.40(g/ml)G

Lab File ID:

% Moisture: 34 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 8.2

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG | Q ³ |
|------------|---------------------|---|----------------|
| 319-84-6 | alpha-BHC | 2.5 | U |
| 319-85-7 | beta-BHC | 2.5 | U |
| 319-86-8 | delta-BHC | 2.5 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.5 | U |
| 76-44-8 | Heptachlor | 2.5 | U |
| 309-00-2 | Aldrin | 2.5 | U |
| 1024-57-3 | Heptachlor epoxide | 2.5 | U |
| 959-98-8 | Endosulfan I | 2.5 | U |
| 60-57-1 | Dieldrin | 4.9 | U |
| 72-55-9 | 4,4'-DDE | 4.9 | U |
| 72-20-8 | Endrin | 4.9 | U |
| 33213-65-9 | Endosulfan II | 4.9 | U |
| 72-54-8 | 4,4'-DDD | 4.9 | U |
| 1031-07-8 | Endosulfan sulfate | 4.9 | U |
| 50-29-3 | 4,4'-DDT | 4.9 | U |
| 72-43-5 | Methoxychlor | 25 | U |
| 53494-70 | Endrin ketone | 4.9 | U |
| 7421-36-3 | Endrin aldehyde | 4.9 | U |
| 5103-71-9 | alpha-Chlordane | 2.5 | U |
| 5103-74-2 | gamma-Chlordane | 2.5 | U |
| 8001-35-2 | Toxaphene | 250 | U |
| 12674-11-2 | Aroclor-1016 | 49 | U |
| 11104-28-2 | Aroclor-1221 | 49 | U |
| 11141-16-5 | Aroclor-1232 | 100 | U |
| 53469-21-9 | Aroclor-1242 | 49 | U |
| 12672-29-6 | Aroclor-1248 | 49 | U |
| 11097-69-1 | Aroclor-1254 | 49 | U |
| 11096-82-5 | Aroclor-1260 | 49 | U |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL17

Lab Name: COMPUCHER LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402956

Sample wt/vol: 30.50(g/ml)G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 8.0

Sulfur Cleanup: (Y/N) N

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

| | | | | |
|------------|---------------------|-----|----|----|
| 319-84-6 | alpha-BHC | 2.1 | U | 3 |
| 319-85-7 | beta-BHC | 2.1 | U | 3 |
| 319-86-8 | delta-BHC | 2.1 | U | 3 |
| 58-89-9 | gamma-BHC (Lindane) | 1.2 | JP | |
| 76-44-8 | Heptachlor | 0.1 | JP | 45 |
| 309-00-2 | Aldrin | 12 | P | 3 |
| 1024-57-3 | Heptachlor epoxide | 4.8 | P | |
| 959-98-8 | Endosulfan I | 4.0 | P | |
| 60-57-1 | Dieldrin | 4.1 | P | |
| 72-55-9 | 4,4'-DDE | 4.0 | U | |
| 72-20-8 | Endrin | 4.0 | U | |
| 33213-65-9 | Endosulfan II | 4.0 | U | |
| 72-54-8 | 4,4'-DDD | 4.0 | U | |
| 1031-07-8 | Endosulfan sulfate | 4.0 | U | 3 |
| 50-29-3 | 4,4'-DDT | 2.0 | JP | |
| 72-43-5 | Methoxychlor | 8.5 | JP | |
| 53494-70-5 | Endrin ketone | 4.0 | U | 3 |
| 7421-36-3 | Endrin aldehyde | 4.0 | U | |
| 5103-71-9 | alpha-Chlordane | 3.5 | P | |
| 5103-74-2 | gamma-Chlordane | 6.1 | | |
| 8001-35-2 | Toxaphene | 210 | U | |
| 12674-11-2 | Aroclor-1016 | 40 | U | |
| 11104-28-2 | Aroclor-1221 | 40 | U | |
| 11141-16-5 | Aroclor-1232 | 81 | U | |
| 53469-21-9 | Aroclor-1242 | 40 | U | |
| 12672-29-6 | Aroclor-1248 | 40 | U | |
| 11097-69-1 | Aroclor-1254 | 40 | U | |
| 11096-82-5 | Aroclor-1260 | 40 | U | 3 |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL16

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402955

Sample wt/vol: 30.60(g/ml)G

Lab File ID:

% Moisture: 42 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 7.8

Sulfur Cleanup: (Y/N) N

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

Q :

| | | | | |
|-----------------|---------------------|-----|----|---|
| 319-84-6----- | alpha-BHC | 2.9 | U | 5 |
| 319-85-7----- | beta-BHC | 2.9 | U | |
| 319-86-8----- | delta-BHC | 7.7 | | |
| 58-89-9----- | gamma-BHC (Lindane) | 2.9 | U | |
| 76-44-8----- | Heptachlor | 2.9 | U | |
| 309-00-2----- | Aldrin | 20 | P | |
| 1024-57-3----- | Heptachlor epoxide | 2.9 | U | |
| 959-98-8----- | Endosulfan I | 2.9 | U | |
| 60-57-1----- | Dieldrin | 10 | P | |
| 72-55-9----- | 4,4'-DDE | 24 | P | |
| 72-20-8----- | Endrin | 5.6 | U | |
| 33213-65-9----- | Endosulfan II | 9.5 | P | |
| 72-54-8----- | 4,4'-DDD | 5.6 | U | |
| 1031-07-8----- | Endosulfan sulfate | 5.6 | U | |
| 50-29-3----- | 4,4'-DDT | 5.6 | U | 5 |
| 72-43-5----- | Methoxychlor | 15 | JP | |
| 53494-70-5----- | Endrin ketone | 5.6 | U | 8 |
| 7421-36-3----- | Endrin aldehyde | 5.6 | U | |
| 5103-71-9----- | alpha-Chlordane | 2.9 | U | |
| 5103-74-2----- | gamma-Chlordane | 16 | P | |
| 8001-35-2----- | Toxaphene | 290 | U | |
| 12674-11-2----- | Aroclor-1016 | 56 | U | |
| 11104-28-2----- | Aroclor-1221 | 56 | U | |
| 11141-16-5----- | Aroclor-1232 | 110 | U | |
| 53469-21-9----- | Aroclor-1242 | 56 | U | |
| 12672-29-6----- | Aroclor-1248 | 56 | U | |
| 11097-69-1----- | Aroclor-1254 | 56 | U | |
| 11096-82-5----- | Aroclor-1260 | 56 | U | 5 |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL13

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402952

Sample wt/vol: 30.50(g/ml)G

Lab File ID:

% Moisture: 16 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 6.9

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | Q |
|------------|---------------------|--|---|
| 319-84-6 | alpha-BHC | 2.0 | U |
| 319-85-7 | beta-BHC | 2.0 | U |
| 319-86-8 | delta-BHC | 2.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U |
| 76-44-8 | Heptachlor | 20 0.17 | U |
| 309-00-2 | Aldrin | 2.0 | U |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U |
| 959-98-8 | Endosulfan I | 2.0 | U |
| 60-57-1 | Dieldrin | 3.9 | U |
| 72-55-9 | 4,4'-DDE | 3.9 | U |
| 72-20-8 | Endrin | 3.9 | U |
| 33213-65-9 | Endosulfan II | 3.9 | U |
| 72-54-8 | 4,4'-DDD | 3.9 | U |
| 1031-07-8 | Endosulfan sulfate | 3.9 | U |
| 50-29-3 | 4,4'-DDT | 3.9 | U |
| 72-43-5 | Methoxychlor | 20 | U |
| 53494-70-5 | Endrin ketone | 3.9 | U |
| 7421-36-3 | Endrin aldehyde | 3.9 | U |
| 5103-71-9 | alpha-Chlordane | 4.0 | U |
| 5103-74-2 | gamma-Chlordane | 4.9 | U |
| 8001-35-2 | Toxaphene | 200 | U |
| 12674-11-2 | Aroclor-1016 | 39 | U |
| 11104-28-2 | Aroclor-1221 | 39 | U |
| 11141-16-5 | Aroclor-1232 | 78 | U |
| 53469-21-9 | Aroclor-1242 | 39 | U |
| 12672-29-6 | Aroclor-1248 | 39 | U |
| 11097-69-1 | Aroclor-1254 | 39 | U |
| 11096-82-5 | Aroclor-1260 | 39 | U |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL14

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402953

Sample wt/vol: 30.60(g/ml)G

Lab File ID:

% Moisture: 16 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 8.1

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u> | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | | |
|-----------------|---------------------|------|----|---|
| 319-84-6----- | alpha-BHC | 2.0 | U | J |
| 319-85-7----- | beta-BHC | 2.0 | U | |
| 319-86-8----- | delta-BHC | 2.0 | U | |
| 58-89-9----- | gamma-BHC (Lindane) | 2.0 | U | |
| 76-44-8----- | Heptachlor | 2.0 | U | J |
| 309-00-2----- | Aldrin | 2.0 | U | J |
| 1024-57-3----- | Heptachlor epoxide | 0.35 | JP | |
| 959-98-8----- | Endosulfan I | 2.0 | U | J |
| 60-57-1----- | Dieldrin | 0.48 | J | |
| 72-55-9----- | 4,4'-DDE | 3.9 | U | J |
| 72-20-8----- | Endrin | 3.9 | U | |
| 33213-65-9----- | Endosulfan II | 3.9 | U | |
| 72-54-8----- | 4,4'-DDD | 3.9 | U | |
| 1031-07-8----- | Endosulfan sulfate | 3.9 | U | |
| 50-29-3----- | 4,4'-DDT | 3.9 | U | |
| 72-43-5----- | Methoxychlor | 20 | U | |
| 53494-70-5----- | Endrin ketone | 3.9 | U | |
| 7421-36-3----- | Endrin aldehyde | 3.9 | U | |
| 5103-71-9----- | alpha-Chlordane | 2.0 | U | J |
| 5103-74-2----- | gamma-Chlordane | 0.36 | JP | |
| 8001-35-2----- | Toxaphene | 200 | U | J |
| 12674-11-2----- | Aroclor-1016 | 39 | U | |
| 11104-28-2----- | Aroclor-1221 | 39 | U | |
| 11141-16-5----- | Aroclor-1232 | 78 | U | |
| 53469-21-9----- | Aroclor-1242 | 39 | U | |
| 12672-29-6----- | Aroclor-1248 | 39 | U | |
| 11097-69-1----- | Aroclor-1254 | 39 | U | |
| 11096-82-5----- | Aroclor-1260 | 39 | U | J |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL15

Lab Name: COMPUCHEM LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402954

Sample wt/vol: 30.40(g/ml)G

Lab File ID:

% Moisture: 18 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 8.1

Sulfur Cleanup: (Y/N) N

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

| | | | | |
|-----------------|---------------------|------|----|---|
| 319-84-6----- | alpha-BHC | 2.0 | U | 5 |
| 319-85-7----- | beta-BHC | 2.0 | U | |
| 319-86-8----- | delta-BHC | 2.0 | U | |
| 58-89-9----- | gamma-BHC (Lindane) | 2.0 | U | |
| 76-44-8----- | Heptachlor | 2.0 | U | |
| 309-00-2----- | Aldrin | 30 | P | |
| 1024-57-3----- | Heptachlor epoxide | 10 | P | |
| 959-98-8----- | Endosulfan I | 2.0 | U | 5 |
| 60-57-1----- | Dieldrin | 3.3 | JP | |
| 72-55-9----- | 4,4'-DDE | 5.8 | | 5 |
| 72-20-8----- | Endrin | 3.0 | JP | |
| 33213-65-9----- | Endosulfan II | 4.0 | U | 5 |
| 72-54-8----- | 4,4'-DDD | 4.0 | U | 5 |
| 1031-07-8----- | Endosulfan sulfate | 0.33 | JP | |
| 50-29-3----- | 4,4'-DDT | 2.7 | JP | |
| 72-43-5----- | Methoxychlor | 20 | U | 5 |
| 53494-70-5----- | Endrin ketone | 1.6 | JP | |
| 7421-36-3----- | Endrin aldehyde | 4.0 | U | 5 |
| 5103-71-9----- | alpha-Chlordane | 2.0 | U | 5 |
| 5103-74-2----- | gamma-Chlordane | 7.5 | P | 5 |
| 8001-35-2----- | Toxaphene | 200 | U | |
| 12674-11-2----- | Aroclor-1016 | 40 | U | |
| 11104-28-2----- | Aroclor-1221 | 40 | U | |
| 11141-16-5----- | Aroclor-1232 | 81 | U | |
| 53469-21-9----- | Aroclor-1242 | 40 | U | |
| 12672-29-6----- | Aroclor-1248 | 40 | U | |
| 11097-69-1----- | Aroclor-1254 | 40 | U | |
| 11096-82-5----- | Aroclor-1260 | 40 | U | 5 |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL23

Lab Name: COMPUCHEN LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL09

Matrix: (soil/water) SOIL

Lab Sample ID: 402957

Sample wt/vol: 30.60(g/ml)G

Lab File ID:

* Moisture: 2 decanted: (Y/N) N

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/11/91

Concentrated Extract Volume: 2000(uL)

Date Analyzed: 03/14/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) Y

pH: 7.5

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

Q ?

| | | | | |
|-----------------|---------------------|-----|---|---|
| 319-84-6----- | alpha-BHC | 1.8 | U | J |
| 319-85-7----- | beta-BHC | 1.8 | U | |
| 319-86-8----- | delta-BHC | 1.8 | U | |
| 58-89-9----- | gamma-BHC (Lindane) | 1.8 | U | |
| 76-44-8----- | Heptachlor | 1.8 | U | |
| 309-00-2----- | Aldrin | 1.8 | U | |
| 1024-57-3----- | Heptachlor epoxide | 1.8 | U | |
| 959-98-8----- | Endosulfan I | 1.8 | U | |
| 60-57-1----- | Dieldrin | 3.6 | U | |
| 72-55-9----- | 4,4'-DDE | 3.6 | U | |
| 72-20-8----- | Endrin | 3.6 | U | |
| 33213-65-9----- | Endosulfan II | 3.6 | U | |
| 72-54-8----- | 4,4'-DDD | 3.6 | U | |
| 1031-07-8----- | Endosulfan sulfate | 3.6 | U | |
| 50-29-3----- | 4,4'-DDT | 3.6 | U | |
| 72-43-5----- | Methoxychlor | 18 | U | |
| 53494-70-5----- | Endrin ketone | 3.6 | U | |
| 7421-36-3----- | Endrin aldehyde | 3.6 | U | |
| 5103-71-9----- | alpha-Chlordane | 1.8 | U | |
| 5103-74-2----- | gamma-Chlordane | 1.8 | U | |
| 8001-35-2----- | Toxaphene | 180 | U | |
| 12674-11-2----- | Aroclor-1016 | 36 | U | |
| 11104-28-2----- | Aroclor-1221 | 36 | U | |
| 11141-16-5----- | Aroclor-1232 | 72 | U | |
| 53469-21-9----- | Aroclor-1242 | 36 | U | |
| 12672-29-6----- | Aroclor-1248 | 36 | U | |
| 11097-69-1----- | Aroclor-1254 | 36 | U | |
| 11096-82-5----- | Aroclor-1260 | 36 | U | J |

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL18

Lab Name: COMPUCHER LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402943

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/L</u> | Q |
|------------|---------------------|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70 | Endrin ketone | 0.10 | U |
| 7421-36-3 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 2.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BGL19

Lab Name: COMPUCH LABORATORIES

Contract: SAS5849HQ

Lab Code: COMPU Case No.: 15933 SAS No.: 5849HQ SDG No.: BGL01

Matrix: (soil/water) WATER

Lab Sample ID: 402944

Sample wt/vol: 1000(g/ml)ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/04/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/06/91

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 03/11/91

Injection Volume: 1.0(uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

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

| | | | |
|------------|---------------------|-------|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70 | Endrin ketone | 0.10 | U |
| 7421-36 | Endrin aldehyde | 0.10 | U |
| 5103-71 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 2.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

REFERENCE NO. 17

100805

TO: VI Chemical Fill DATE: 5/23/91
FROM: R. S. S. COPIES: _____
SUBJECT: Population Estimates for 4-mile radius of VI Chemical Site
REFERENCE: _____

Exact population data for a 4-mile radius of the VI Chemical site was not available. To estimate the population for each distance ring from the site a report prepared by C2M Hill Southeast, Inc. in July 1983 entitled "Water Management Plan for the Public Water System" was used. This report contained data including the populations of all water service districts on the Island of St. Croix. A copy of this data, along with a map showing the service areas, is included in this reference. To obtain the population estimate required, the site was located and the appropriate distance rings were added to an enlarged copy of the map. A planimeter was used to determine the total size* of each service district and then the portion of that district located within each of the distance rings. These values are recorded on the attached page. The values were applied to the formula indicated and a total population estimated value was obtained.

* -- since it was unnecessary to know the real size of the service area (in feet, yds, acres, etc.) -- the use of PLANIMETER UNITS was adopted to avoid confusion.

** NOTE: The following report also contains annual average rainfall data for the island of St. Croix which is also included in this reference.

NUS CORPORATION AND SUBSIDIARIES

STANDARD CALCULATION SHEET

| | | | |
|--|--------------------------------|--------------------------|-------------------------|
| CLIENT:
VI CHEMICAL | FILE NO.:
02-9101-04 | BY:
R. SETTING | PAGE 1 OF 1 |
| SUBJECT:
ESTIMATED POPULATION DATA | | CHECKED BY: | DATE:
5/23/91 |

| DISTRICT | TOTAL | |
|----------|------------|----------------|
| | POPULATION | PLANNING UNITS |
| 1 | 375 | 132 |
| 3 | 11,170 | 164 |
| 4 | 637 | 342 |
| 5 | 573 | 169 |
| 7 | 4,964 | 180 |
| 8 | 2,260 | 144 |
| 9 | 8,012 | 230 |
| 10 | 2,085 | 154 |

* FORMULA USED TO CALCULATE ESTIMATED POPULATION:

$$\frac{PU_D}{PU_T} \times P_T = P_P$$

WHERE:

PU_D = PLANNING UNIT OF DISTRICT PORTION

PU_T = PLANNING UNIT OF TOTAL DISTRICT

P_T = TOTAL DISTRICT POPULATION

P_P = POPULATION OF DISTRICT PORTION (PLANNING UNITS)

| DISTRICT | PORTION OF DISTRICT IN DISTANCE RING | | | | | |
|----------|--------------------------------------|-------|-----|-----|-----|-----|
| | 1/4 m | 1/2 m | 1 m | 2 m | 3 m | 4 m |
| 1 | 0 | 0 | 0 | 5 | 27 | 8 |
| 3 | 0 | 0 | 0 | 0 | 40 | 47 |
| 4 | 0 | 0 | 0 | 0 | 29 | 98 |
| 5 | 0 | 0 | 0 | 0 | 15 | 60 |
| 7 | 0 | 0 | 0 | 49 | 67 | 35 |
| 8 | 10 | 16 | 44 | 54 | 11 | 0 |
| 9 | 0 | 0 | 24 | 58 | 73 | 74 |
| 10 | 0 | 0 | 0 | 0 | 15 | 29 |

| DISTRICT | ESTIMATED POPULATION OF DISTRICT PORTION* (PEOPLE) | | | | | |
|------------------------------|--|-------|------|------|------|------|
| | 1/4 m | 1/2 m | 1 m | 2 m | 3 m | 4 m |
| 1 | 0 | 0 | 0 | 14 | 77 | 23 |
| 3 | 0 | 0 | 0 | 0 | 2724 | 3201 |
| 4 | 0 | 0 | 0 | 0 | 54 | 183 |
| 5 | 0 | 0 | 0 | 0 | 51 | 203 |
| 7 | 0 | 0 | 0 | 1351 | 1848 | 965 |
| 8 | 157 | 251 | 690 | 848 | 173 | 0 |
| 9 | 0 | 0 | 836 | 2020 | 2543 | 2578 |
| 10 | 0 | 0 | 0 | 0 | 203 | 393 |
| TOTAL POPULATION (ESTIMATED) | 157 | 251 | 1526 | 4219 | 7673 | 7546 |

100807

fu
FINAL REPORT-FINAL

Femby

WATER MANAGEMENT PLAN FOR THE PUBLIC WATER SYSTEM

**Prepared for
THE DEPARTMENT OF
CONSERVATION AND CULTURAL AFFAIRS
GOVERNMENT OF THE VIRGIN ISLANDS**



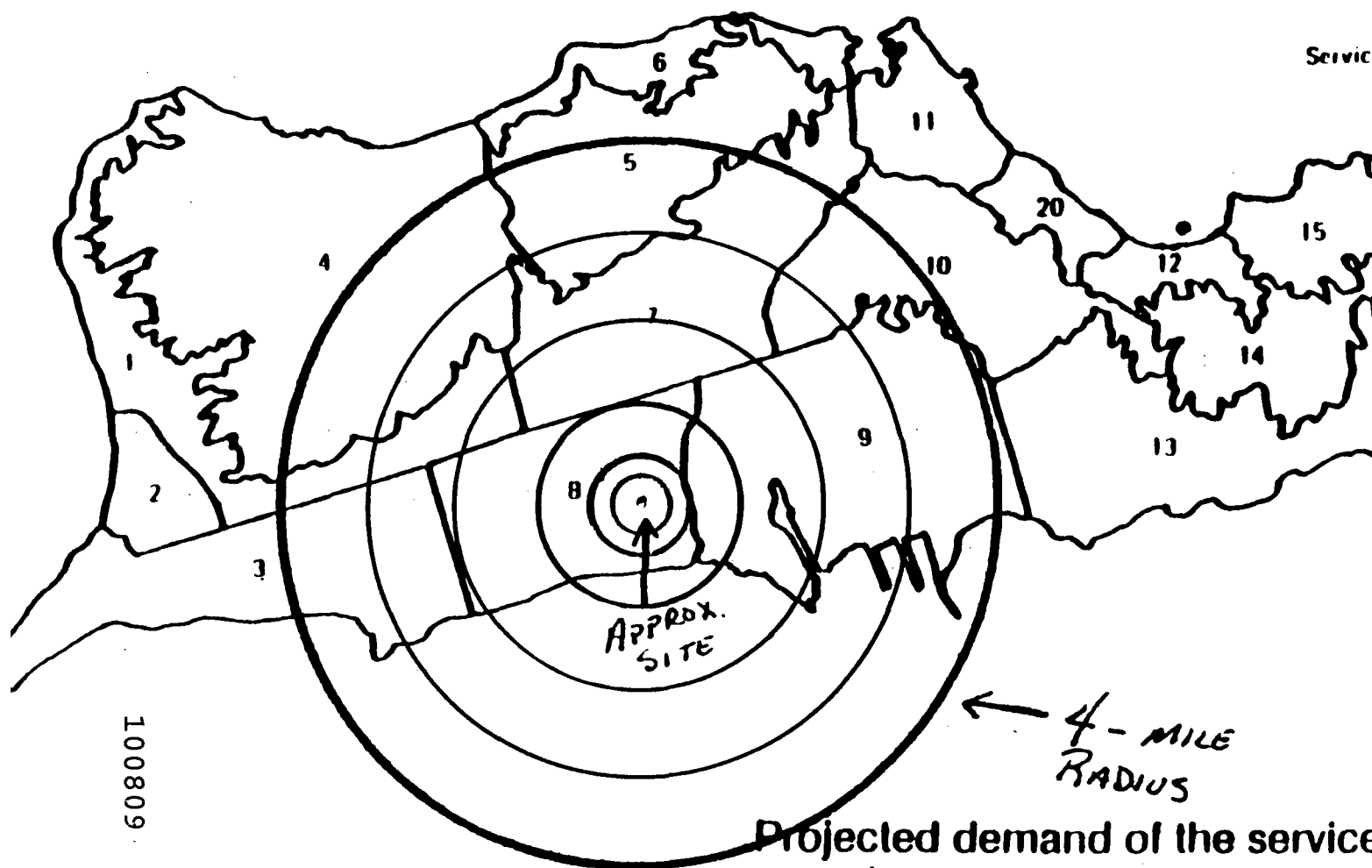
**Prepared by
CH2M HILL SOUTHEAST, INC.**

**Project No. GN14325.AO
July, 1983.**



0 5,000 10,000 Feet
0 1,500 3,000 Meters

Service Districts are Numbered



100809

FIGURE 3-4.
districts on St. Croix for the year 1980.

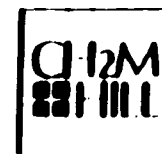


Table 3-3
DEMOGRAPHIC DATA FOR THE U.S. VIRGIN ISLANDS

| Island District
Category | | 1980 Data | | | | | 1990 Projected Data | | | | | 2000 Projected Data | | | | |
|-----------------------------|----|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|
| | | Population
(persons)
RES | Work Force
(persons)
WKF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR | Population
(persons)
RES | Work Force
(persons)
WKF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR | Population
(persons)
RES | Work Force
(persons)
WKF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR |
| | | | | | | | | | | | | | | | | |
| St. John | 1 | 1,033 | 470 | 429 | 41 | 60 | 1,245 | 510 | 429 | 84 | 100 | 1,454 | 554 | 429 | 96 | 120 |
| | 2 | 897 | 7 | -- | 10 | -- | 1,072 | 50 | 100 | 10 | -- | 1,220 | 60 | 118 | 10 | -- |
| | 3 | 351 | 436 | -- | 320 | 25 | 382 | 450 | -- | 358 | 25 | 398 | 450 | -- | 358 | 25 |
| | 4 | 164 | 11 | 83 | -- | -- | 226 | 11 | 83 | -- | -- | 257 | 30 | 83 | 60 | -- |
| | 5 | 35 | -- | -- | -- | -- | 40 | -- | -- | -- | -- | 46 | -- | -- | -- | -- |
| STJ TOTALS | | 2,480 | 924 | 512 | 371 | 85 | 2,965 | 1,021 | 612 | 452 | 125 | 3,375 | 1,084 | 650 | 574 | 185 |
| St. Thomas | 1 | 135 | -- | -- | -- | -- | 142 | -- | -- | -- | -- | 148 | -- | -- | -- | -- |
| | 2 | 376 | 11 | 48 | -- | -- | 395 | 11 | 48 | -- | -- | 410 | 12 | 48 | -- | -- |
| | 3 | 555 | 8 | -- | -- | -- | 635 | 8 | -- | -- | -- | 715 | 9 | -- | 50 | 25 |
| | 4 | 1,523 | 45 | 260 | -- | 40 | 1,742 | 50 | 260 | 70 | 50 | 1,961 | 53 | 260 | 70 | 70 |
| | 5 | 2,456 | 30 | -- | 82 | 30 | 2,810 | 33 | -- | 82 | 30 | 3,164 | 35 | -- | 82 | 65 |
| | 6 | 4,599 | 6,619 | 3,061 | 433 | 90 | 4,828 | 7,120 | 3,237 | 433 | 115 | 5,010 | 7,547 | 3,514 | 433 | 115 |
| | 7 | 1,348 | 11 | 334 | 160 | 25 | 1,887 | 15 | 334 | 310 | 45 | 2,358 | 16 | 334 | 317 | 65 |
| | 8 | 1,622 | 58 | -- | -- | -- | 2,757 | 600 | 794 | -- | -- | 3,926 | 636 | 1,294 | -- | 10 |
| | 9 | 8,785 | 440 | 2,608 | -- | 25 | 9,035 | 453 | 2,608 | -- | 25 | 9,292 | 480 | 2,608 | -- | 25 |
| | 10 | 740 | 130 | 158 | 321 | 100 | 1,274 | 519 | 858 | 647 | 125 | 1,825 | 550 | 858 | 671 | 125 |
| | 11 | 564 | 2 | -- | -- | -- | 656 | 3 | -- | -- | -- | 962 | 3 | -- | -- | -- |
| | 12 | 2,133 | 114 | 996 | 234 | 70 | 2,986 | 117 | 996 | 234 | 70 | 3,732 | 124 | 1,699 | 344 | 70 |
| | 13 | 3,753 | 258 | 1,067 | 661 | 110 | 4,293 | 264 | 1,067 | 661 | 110 | 4,834 | 350 | 1,067 | 785 | 160 |
| | 14 | 697 | 22 | 364 | -- | -- | 797 | 23 | 364 | -- | -- | 897 | 24 | 364 | -- | -- |
| | 15 | 3,158 | 400 | 32 | 267 | -- | 3,316 | 422 | 32 | 267 | 20 | 3,449 | 469 | 32 | 267 | 20 |
| | 16 | 6,926 | 6,605 | 4,235 | 194 | 110 | 7,923 | 7,105 | 4,235 | 194 | 135 | 8,921 | 7,531 | 4,235 | 234 | 160 |
| | 17 | 4,649 | 6,077 | 3,565 | 213 | 155 | 4,881 | 6,259 | 3,575 | 254 | 190 | 5,076 | 6,735 | 3,575 | 294 | 215 |
| | 18 | 11 | -- | -- | -- | -- | 13 | -- | -- | -- | -- | 15 | 46 | -- | 100 | 25 |
| | 19 | 140 | 75 | -- | 117 | -- | 160 | 77 | -- | 117 | -- | 180 | 120 | -- | 117 | 25 |
| STT TOTALS | | 44,178 | 20,965 | 16,738 | 2,692 | 755 | 50,520 | 23,100 | 18,408 | 3,277 | 915 | 56,875 | 24,740 | 19,888 | 3,790 | 1,175 |
| St. Croix | 1 | 315 | 121 | 23 | 60 | 30 | 473 | 390 | 23 | 160 | 55 | 565 | 443 | 723 | 160 | 55 |
| | 2 | 3,887 | 831 | 2,095 | 65 | 55 | 4,562 | 914 | 2,095 | 65 | 55 | 5,198 | 1,040 | 2,095 | 115 | 65 |
| | 3 | 11,170 | 739 | 2,812 | 110 | 10 | 14,425 | 199 | 2,812 | 110 | 10 | 17,491 | 957 | 2,812 | 110 | 10 |
| | 4 | 637 | 175 | -- | -- | 10 | 700 | 199 | -- | -- | 10 | 836 | 226 | -- | -- | 10 |
| | 5 | 573 | 25 | -- | -- | -- | 630 | 28 | -- | -- | -- | 753 | 32 | -- | -- | -- |
| | 6 | 404 | 78 | 9 | 91 | 25 | 509 | 89 | 9 | 91 | 25 | 608 | 101 | 9 | 154 | 50 |
| | 7 | 4,964 | 1,093 | 1,939 | -- | -- | 6,674 | 1,262 | 2,739 | -- | -- | 7,975 | 1,433 | 3,450 | -- | -- |
| | 8 | 2,260 | 1,479 | 2,200 | 25 | 20 | 4,278 | 1,683 | 3,149 | 56 | 20 | 5,112 | 1,915 | 3,117 | 56 | 20 |
| | 9 | 8,012 | 4,013 | 3,369 | -- | 10 | 8,940 | 4,093 | 3,369 | -- | 10 | 10,663 | 4,658 | 3,369 | -- | 10 |
| | 10 | 2,085 | 306 | 440 | 82 | 25 | 2,679 | 348 | 440 | 82 | 25 | 3,142 | 396 | 440 | 62 | 25 |
| | 11 | 2,497 | 596 | 65 | 100 | 25 | 3,148 | 607 | 65 | 200 | 45 | 3,762 | 691 | 65 | 200 | 50 |
| | 12 | 3,528 | 8,196 | 1,369 | 383 | 190 | 3,880 | 9,106 | 1,369 | 383 | 190 | 4,637 | 10,364 | 1,369 | 383 | 190 |
| | 13 | 2,551 | 473 | -- | -- | -- | 3,430 | 538 | 800 | 100 | -- | 4,099 | 612 | 800 | 100 | -- |
| | 14 | 504 | -- | -- | -- | -- | 555 | 10 | -- | -- | -- | 663 | 11 | -- | -- | -- |
| | 15 | 418 | 252 | 799 | 162 | 75 | 527 | 287 | 799 | 162 | 75 | 630 | 327 | 799 | 162 | 75 |
| | 16 | 546 | 110 | 40 | 100 | 25 | 688 | 125 | 40 | 100 | 25 | 822 | 142 | 40 | 282 | 25 |
| | 17 | 303 | 280 | -- | 154 | 85 | 407 | 374 | -- | 154 | 85 | 486 | 426 | -- | 154 | 85 |
| | 18 | 48 | 10 | -- | -- | -- | 53 | 11 | -- | -- | -- | 63 | 13 | -- | -- | -- |
| | 19 | 377 | -- | -- | -- | -- | 415 | 10 | -- | -- | -- | 495 | 11 | -- | -- | -- |
| | 20 | 4,141 | 1,761 | 3,168 | 180 | 10 | 5,222 | 1,775 | 3,168 | 180 | 10 | 6,260 | 2,070 | 3,168 | 180 | 10 |
| STX TOTALS | | 49,280 | 20,516 | 18,328 | 1,512 | 595 | 62,145 | 22,670 | 20,877 | 1,843 | 640 | 74,240 | 25,798 | 22,456 | 2,138 | 680 |
| TOTALS | | 95,930 | 42,345 | 35,278 | 4,575 | 1,435 | 115,630 | 46,791 | 39,891 | 5,522 | 1,680 | 134,490 | 51,622 | 42,944 | 6,452 | 2,000 |

Note: RES = residential; WKF = work force; SCH = school; TUR = tourist oriented.

AVERAGE ANNUAL RAINFALL TABLE

ABBREVIATIONS USED

| DISTRICT NO. | ST.
TIMMAS | ST.
CROIX | ST.
JOHN | ISLANDS ISL. | CATEGORY CAT | OTHERS |
|--------------|---------------|--------------|-------------|---|-------------------|-------------------------------|
| 1 | 35 | 45 | 40 | J - ST. JOHN | LKG - LEAKAGE | UT - UNIT |
| 2 | 35 | 40 | 45 | T - ST. TIMMAS | MED - MEDICAL | DIST - DISTRICT |
| 3 | 30 | 30 | 50 | X - ST. CROIX | OTH - OTHER | SUBDIST - SUBDISTRICT |
| 4 | 45 | 45 | 45 | | RES - RESIDENTIAL | GPD - GALLONS PER DAY |
| 5 | 45 | 40 | 30 | | SCL - SCHOOL | KGAL/D - 1000 GALLONS PER DAY |
| 6 | 40 | 40 | 00 | | TUR - TUNIST | TDS - TOTAL DISSOLVED SOLIDS |
| 7 | 40 | 40 | 00 | | WKF - WORKFORCE | FT2 - SQUARE FEET |
| 8 | 40 | 35 | 00 | | | |
| 9 | 40 | 35 | 00 | | | |
| 10 | 35 | 40 | 00 | NON-POTABLE WATER SOURCES | | |
| 11 | 40 | 40 | 00 | ----- | | |
| 12 | 35 | 40 | 00 | BKW - BRACKISH WELL WATER | | |
| 13 | 35 | 40 | 00 | DRN - RAINWATER COLLECTED FROM A DRIVEWAY OR OTHER SURFACES | | |
| 14 | 40 | 40 | 00 | FWW - FILTERED SECONDARY WASTEWATER | | |
| 15 | 40 | 35 | 00 | OTH - OTHER | | |
| 16 | 45 | 30 | 00 | PWW - PRIMARY TREATED WASTEWATER | | |
| 17 | 45 | 30 | 00 | SEA - SEAWATER -- DIRECT INTAKE | | |
| 18 | 40 | 25 | 00 | SEW - SEAWATER -- WELL | | |
| 19 | 40 | 30 | 00 | SUR - SURFACE WATER SUCH AS A POND | | |
| 20 | 00 | 35 | 00 | SWW - SECONDARY TREATED WASTEWATER | | |

00 SALT WATER IS CONSIDERED TO BE ALL WATER WITH A TOTAL DISSOLVED SOLIDS TDS OF 10,000 MG/L OR GREATER.

DESALINATION UNITS

DESCRIPTION OF TYPE

FEEDWATER

MANUFACTURER

DI - DISTILLATION
ED - ELECTRODIALYSIS
RO - REVERSE OSMOSIS
SS - SOLAR STILL

BKW - BRACKISH WELL WATER
OTH - OTHER
SWI - SEAWATER -- INTAKE
SWW - SEAWATER -- WELL

AUC - AQUA CHEM
BAT - BASIC TECHNOLOGIES
CUL - CULLIGAN
ENV - ENVIRONTECH
HYD - HYDRANAUTICS
IDE - ISRAELI DESALINATION ENGINEERS
ION - IONICS
MEC - MECHANICAL EQUIPMENT SUPPLY
NEP - NEPTUNE MICROLOC
OTH - OTHER
PER - PERMUTIT
PLY - POLYMETRICS
RCC - RESOURCE CONSERVATION COMPANY
SHS - STEARNS HOGENS
UMP - FLUID SYSTEMS
WES - WESTINGHOUSE
WSA - WATER SERVICE OF AMERICA

REFERENCE NO. 18

100812

LEVEL: REG J2
SELECTION:
SEQUENCE: REGION, STATE, SITE NAME
EVENTS: ALL

U.S. EPA SUPERFUND PROGRAM

** C E R C L I S **

LIST-8: SITE/EVENT LISTING

PAGE: 457
RUN DATE: 05/01/91
RUN TIME: 15:33:40

VERSION: 1

| EPA ID 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 |
|--------------|---|-------------------------|--------------|----------------|------------|-------------------------|-------------------------|--------------------------|
| VID988266177 | CRUZ BAY TEXACO
CENTERLINE ROAD
ST. JOHN
020 ST. JOHN | VI 00830 | NFA | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID988266185 | DOMINO OIL SERVICE STATION
CENTERLINE ROAD
ST. JOHN
020 ST. JOHN | VI 00830 | NFA | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID980530984 | ESSO FREDERIKSTED PLANT
RD TO SANDY POINT
FREDERIKSTED
010 ST CROIX | VI 00840 | NFA | 00 | DS1
PA1 | | 06/01/81
04/17/86 | EPA (FUND)
EPA (FUND) |
| VID988266144 | FISH HAWK MARINA
ROUTE 32 AT BENNER BAY
ST. THOMAS
030 ST. THOMAS | VI 00801 | NFA | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID118157866 | FOUR STAR AIR CARGO
CYRIL E. KING AIRPORT, HARWOOD
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID988266193 | GASSETT MOTORS
ROUTE 384 TUTU DISTRICT
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID988266151 | INDEPENDENT BOATYARD
ROUTE 32 AT BENNER BAY
ST. THOMAS
030 ST. THOMAS | VI 00801 | NFA | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID980651095 | ISLAND CHEMICAL CORP
MELVIN-EVANS HWY (RT 66)
CHRISTIANSTED
010 ST. CROIX | VI 00820 | | 01 | RV1 | 09/13/89 | | EPA (FUND) |

100813

LEVEL: REG 02
SELECTION:
SEQUENCE: REGION, STATE, SITE NAME
EVENTS: ALL

U.S. EPA SUPERFUND PROGRAM
** C E R C L I S **
LIST-8: SITE/EVENT LISTING

PAGE: 459
RUN DATE: 05/01/91
RUN TIME: 15:33:40
VERSION: 1

| EPA ID 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 |
|--------------|--|-------------------------|--------------|----------------|--------------------------|--|-------------------------|---|
| VID982272569 | TU TU WELLFIELD
ANN'S RET REDT
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | RV1
RV2
RV3
CO1 | 09/02/87
03/22/90
09/24/90
10/02/87 | 03/22/90
05/31/90 | EPA (FUND)
RESP. PARTY
RESP. PARTY
RESP. PARTY |
| VID090544958 | TUTU ESSO
ROUTE 384 TUTU DISTRICT
ST. THOMAS
030 ST. THOMAS | VI 00801 | NFA | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID980780589 | TUTU TEXACO
ROUTE 38 AND ROUTE 384
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID988267431 | UNIVERSITY OF VI
CHRISTINSTEN
ST. CROIX
010 ST. CROIX | VI 00820 | | 00 | RV1 | 03/08/90 | | EPA (FUND) |
| VID988266268 | VI CHEMICAL
ROUTE 66
ST. CROIX
010 CHRISTIANSTED | VI 00820 | | 00 | DS1
PA1 | | 02/05/87
02/10/89 | EPA (FUND)
EPA (FUND) |
| VID988267449 | VI DEPT OF AGRICULTURE
FREDERICKSTED
ST. CROIX
010 ST. CROIX | VI 00820 | | 00 | RV1 | 03/08/90 | 07/17/90 | EPA (FUND) |
| VID988266102 | VI GOVERNMENT MOTOR POOL
ROUTE 304
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | DS1
PA1 | 02/28/89 | 03/31/89
03/31/89 | EPA (FUND)
EPA (FUND) |
| VID988266235 | VIRGIN AIR
CYRIL E. KING AIRPORT, HARWOOD
ST. THOMAS
030 ST. THOMAS | VI 00801 | | 00 | DS1
PA1 | 02/28/89 | 03/03/89
03/31/89 | EPA (FUND)
EPA (FUND) |

100814

LEVEL: REGION 02
SELECTION: INTEGRATED
SEQUENCE: REG, ST, SITE NAME

U.S. EPA SUPERFUND PROGRAM

** C E R C L I S **

PAGE: 536
RUN DATE: 04/01/91
RUN TIME: 09:01:45

LIST-4: SITE ALIAS LOCATION LISTING

VERSION: 1

REGION: 02

| EPA ID | SITE/ALIAS NAME
STREET
CITY
COUNTY NAME | STATE
COUNTY | ZIP
CODE | ALIAS
SEQ.
| NAME
SOURCE | FED
FAC |
|--------------|---|-----------------|-------------|--------------------|----------------|------------|
| VID988266144 | FISH HAWK MARINA
ROUTE 32 AT BENNER BAY
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| VID118157866 | FOUR STAR AIR CARGO
CYRIL E. KING AIRPORT, HARWOOD
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| | FOUR STAR AIR CARGO
ST. THOMAS | VI | | 01 | | |
| VID988266193 | GASSETT MOTORS
ROUTE 384 TUTU DISTRICT
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| VID988266151 | INDEPENDENT BOATYARD
ROUTE 32 AT BENNER BAY
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| VID980651095 | ISLAND CHEMICAL CORP
MELVIN-EVANS HWY (RT 66)
CHRISTIANSTED
ST. CROIX | VI
010 | 00820 | | | N |
| | MCKESSON ENVIRO-SYSTEMS | | | 01 | | |
| | SAFETY CLEAN | | | 02 | | |
| | ISLAND CHEMICAL CORP | | | 03 | | |
| | ST. CROIX | VI | | | | |
| VID988266219 | LAGA BUILDING
ROUTE 38 TUTU DISTRICT
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |

100815

LEVEL: REGION 02
SELECTION: INTEGRATED
SEQUENCE: REG, ST, SITE NAME

U.S. EPA SUPERFUND PROGRAM

** C E R C L I S **

PAGE: 539
RUN DATE: 04/01/91
RUN TIME: 09:01:45

LIST-4: SITE ALI: LOCATION LISTING

VERSION: 1

REGION: 02

| EPA ID | SITE/ALIAS NAME
STREET
CITY
COUNTY NAME | STATE
COUNTY | ZIP
CODE | ALIAS
SEQ.
| NAME
SOURCE | FED
FAC |
|--------------|--|-----------------|-------------|--------------------|----------------|------------|
| VID988266268 | VI CHEMICAL
ROUTE 66
ST. CROIX
CHRISTIANSTED | VI
010 | 00820 | | | D |
| | VI CHEMICAL | | | 01 | | |
| | | VI | | | | |
| VID988267449 | VI DEPT OF AGRICULTURE
FREDERICKSTED
ST. CROIX
ST. CROIX | VI
010 | 00820 | | | N |
| | VI DEPT OF AGRICULTURE | | | 01 | | |
| | | VI | | | | |
| VID988266102 | VI GOVERNMENT MOTOR POOL
ROUTE 304
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| | VI GOVERNMENT MOTOR POOL | | | 01 | | |
| | ST. THOMAS | VI | | | | |
| VID988266235 | VIRGIN AIR
CYRIL E. KING AIRPORT, HARWOOD
ST. THOMAS
ST. THOMAS | VI
030 | 00801 | | | D |
| | VIRGIN AIR | | | 01 | | |
| | ST. THOMAS | VI | | | | |
| VID988266250 | VIRGIN ISLAND CHEMICAL ESTATE
130 ESTATE
BETHLEHEM
ST CROIX | VI
010 | 00820 | | | D |

100816

REFERENCE NO. 19

100817

CONTROL NO.:

02-9101-04

DATE:

2/1/91

TIME:

0920

DISTRIBUTION:

- VI Chemical File

BETWEEN:

Mr. Hanley

OF:

VI PA
(VI Port Auton.)

PHONE:

(809) 778-2400

AND:

Richard Settino

(NUS)

DISCUSSION:

I asked Mr. Hanley about water use from VI PA wells #1 and #2. He told me that those 2 wells supply almost all of the public water used by airport tenants (these wells only supply the airport tenants). He told me that there are currently 9 tenants at the airport. I asked if we could sample these wells if necessary & he said that would be fine. I told him I would call back to let him know if we would sample or not.

ACTION ITEMS:

100818

REFERENCE NO. 20

100819

CONTROL NO.:

02-9101-04

DATE:

2/7/91

TIME:

1345

DISTRIBUTION:

- VI Chemical File

BETWEEN:

ELTON CHONGASING

OF:

VI WAPA

PHONE:

(809) 775-5873

AND:

RICHARD SETTINO

(NUS)

DISCUSSION:

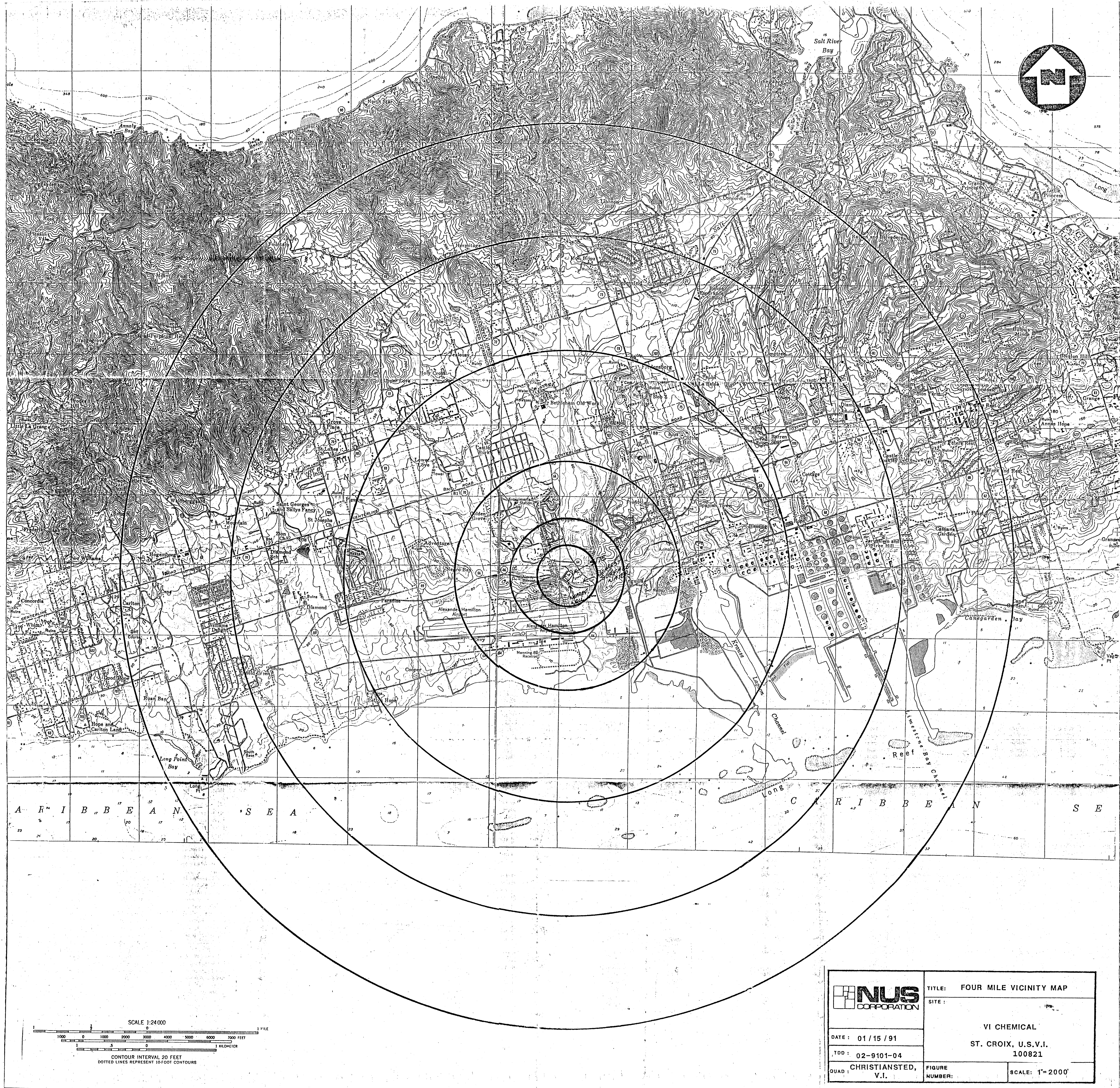
I asked EC about the public water supply on St. Croix. He said he didn't know specifics about St. Croix since he was at St. Thomas but he could help with general information. I asked how many people the wells supply and he said he could not answer exactly since all the water from wells in use is mixed and supplies the whole western portion of the island (The eastern portion uses desalinization). I asked if it would be possible for us to sample these wells and he said it should be no problem. He told me to call Andres Morales (Acting Supt. on St Croix) for specifics about St. Croix wells and to coordinate for sampling.

(809) 773-3775

ACTION ITEMS:

2/7/91

100820



SCALE 1:24,000
1 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 2 3 4 5 KILOMETER
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS

| | | |
|---|-------------------------------|-----------------|
|  | TITLE: FOUR MILE VICINITY MAP | |
| | SITE: VI CHEMICAL | |
| DATE: 01/15/91 | ST. CROIX, U.S.V.I. | |
| TOD: 02-9101-04 | 100821 | |
| QUAD: CHRISTIANSTED, V.I. | FIGURE NUMBER: | SCALE: 1"=2000' |

REFERENCE NO. 22

100822

TO: VI Chemical File

DATE:

5/28/91

FROM: B. Semmo

COPIES:

SUBJECT: Population supplied by groundwater

REFERENCE: Telcon note: Editors Chongasing and R. Setters 2/7/91

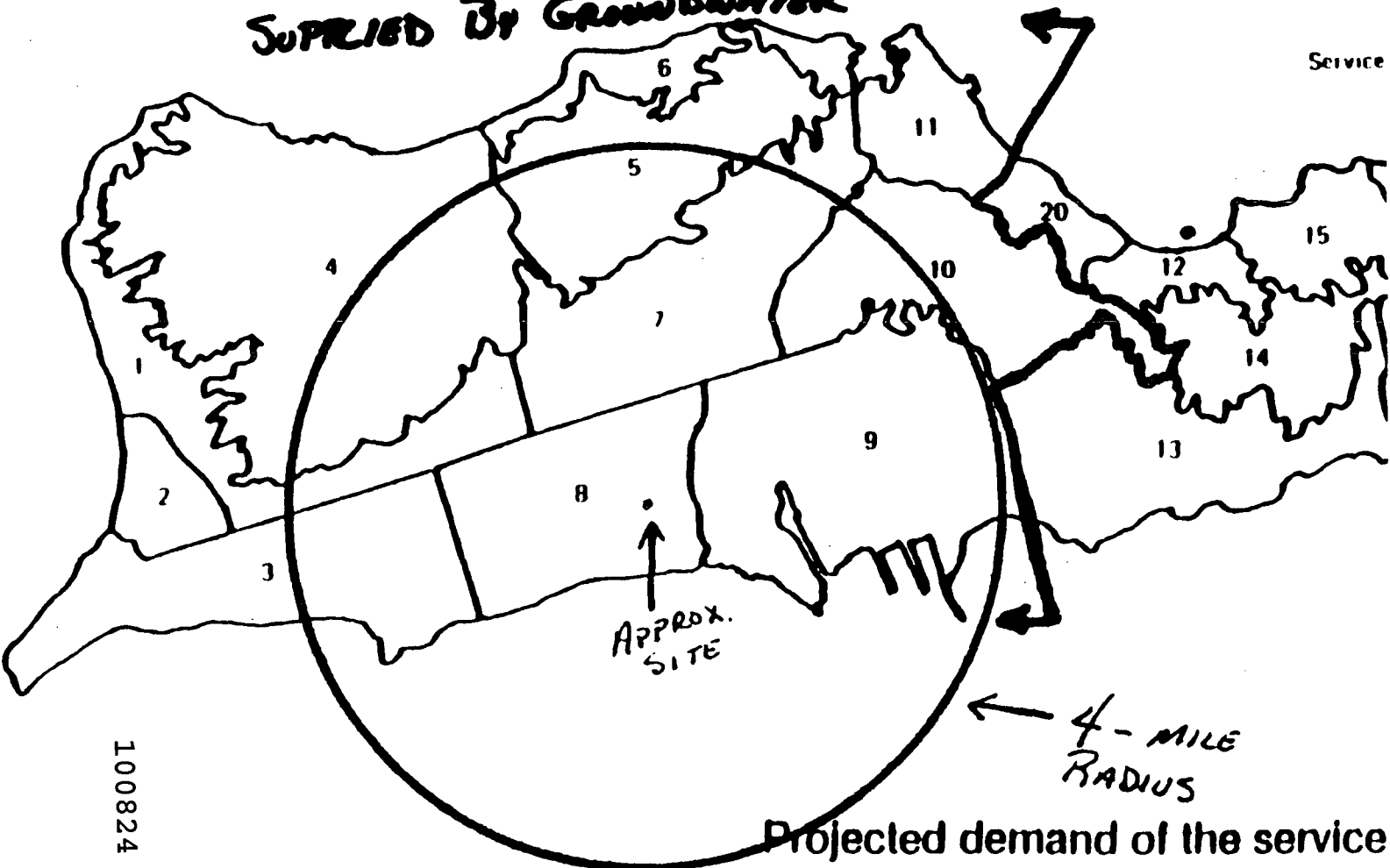
Exact data for population supplied by groundwater on St. Croix was not available. According to a VI Water and Power Authority official all wells on the western end of the island used for public supply are mixed and are used to supply the entire population on the western portion of the island. Figure 3-4 (attached) shows the area assumed to be supplied by groundwater. The total population supplied is approximately 37,000 people. This was calculated using the population data also supplied by CH2M Hill. Figure 7 is from a report by Enviro-Services Inc. dated 4/16/87. This shows the location of all public supply wells on the island. The Gerghty and Miller report (Ref. No. 6) indicates how many wells operated in each of the well fields shown. Since all water is mixed prior to distribution, it can be assumed that each well supplies the same number of people, except for the VIPA wells, which only supply the airport (see Ref. No. 10). It is assumed that these VIPA wells supply approximately 100 people. In order to determine population supplied by each of the other wells the total population was divided by the total number of wells, indicating that approximately 1273 are supplied by one well. This number was then multiplied by the number of wells per distance ring to show the number of people supplied by wells located in that distance ring.



0 5,000 10,000 Feet
0 1,500 3,000 Meters

Area Assumed to Be
Supplied by Groundwater

Service Districts are Numbered



100824

Projected demand of the service

FIGURE 3-4.
districts on St. Croix for the year 1980.



Table 3-3
DEMOGRAPHIC DATA FOR THE U.S. VIRGIN ISLANDS

| Island District
Category | 1980 Data | | | | | 1990 Projected Data | | | | | 2000 Projected Data | | | | |
|-----------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|
| | Population
(persons)
RES | Work Force
(persons)
MWF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR | Population
(persons)
RES | Work Force
(persons)
MWF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR | Population
(persons)
RES | Work Force
(persons)
MWF | Schools
(pupils)
SCH | Hotels
(rooms)
TUR | Restaurant
(tables)
TUR |
| St. John | 1,033 | 470 | 429 | 41 | 60 | 1,245 | 510 | 429 | 84 | 100 | 1,454 | 554 | 429 | 94 | 120 |
| 1 | 897 | 7 | -- | 10 | -- | 1,072 | 50 | 100 | 10 | -- | 1,220 | 60 | 130 | 10 | -- |
| 2 | 351 | 436 | -- | 300 | 25 | 302 | 450 | -- | 350 | 25 | 390 | 450 | -- | 300 | 25 |
| 3 | 164 | 11 | 83 | -- | -- | 226 | 11 | 83 | -- | -- | 257 | 30 | 83 | 60 | -- |
| 4 | 35 | -- | -- | -- | -- | 40 | -- | -- | -- | -- | 46 | -- | -- | -- | -- |
| STJ TOTALS | 1,480 | 924 | 512 | 371 | 85 | 1,945 | 1,021 | 612 | 432 | 125 | 1,375 | 1,094 | 650 | 574 | 145 |
| St. Thomas | 135 | -- | -- | -- | -- | 142 | -- | -- | -- | -- | 148 | -- | -- | -- | -- |
| 1 | 376 | 11 | 40 | -- | -- | 395 | 11 | 40 | -- | -- | 410 | 12 | 40 | -- | -- |
| 2 | 555 | 0 | -- | -- | -- | 635 | 0 | -- | -- | -- | 715 | 9 | -- | 50 | 25 |
| 3 | 1,523 | 45 | 260 | -- | 40 | 1,742 | 50 | 260 | 70 | 50 | 1,961 | 53 | 260 | 70 | 30 |
| 4 | 2,456 | 30 | -- | 82 | 30 | 2,810 | 33 | -- | 82 | 30 | 3,164 | 35 | -- | 82 | 65 |
| 5 | 4,599 | 6,619 | 3,061 | 433 | 90 | 4,819 | 7,120 | 3,237 | 433 | 115 | 5,010 | 7,547 | 3,514 | 433 | 115 |
| 6 | 1,340 | 11 | 334 | 160 | 25 | 1,807 | 15 | 334 | 310 | 45 | 2,350 | 16 | 334 | 317 | 65 |
| 7 | 1,672 | 50 | -- | -- | -- | 2,757 | 600 | 794 | -- | -- | 3,926 | 636 | 1,294 | -- | 10 |
| 8 | 0,705 | 440 | 2,600 | -- | 25 | 9,035 | 453 | 2,600 | -- | 25 | 9,297 | 400 | 2,600 | -- | 25 |
| 9 | 740 | 130 | 150 | 321 | 100 | 1,274 | 519 | 858 | 647 | 125 | 1,825 | 550 | 850 | 671 | 125 |
| 10 | 564 | 2 | -- | -- | -- | 656 | 3 | -- | -- | -- | 962 | 3 | -- | -- | -- |
| 11 | 2,133 | 114 | 996 | 234 | 70 | 2,906 | 117 | 996 | 234 | 70 | 3,732 | 124 | 1,699 | 344 | 70 |
| 12 | 3,753 | 250 | 1,067 | 661 | 110 | 4,293 | 266 | 1,067 | 661 | 110 | 4,834 | 350 | 1,067 | 705 | 160 |
| 13 | 697 | 22 | 364 | -- | -- | 797 | 23 | 364 | -- | -- | 927 | 24 | 364 | -- | -- |
| 14 | 3,150 | 400 | 32 | 267 | -- | 3,316 | 422 | 32 | 267 | 20 | 3,449 | 469 | 32 | 267 | 20 |
| 15 | 4,926 | 4,605 | 4,235 | 194 | 110 | 7,923 | 7,105 | 4,235 | 194 | 135 | 8,921 | 7,531 | 4,235 | 234 | 160 |
| 16 | 4,649 | 6,077 | 3,565 | 213 | 155 | 4,801 | 6,250 | 3,575 | 254 | 190 | 5,016 | 6,735 | 3,575 | 294 | 215 |
| 17 | 11 | -- | -- | -- | -- | 33 | -- | -- | -- | -- | 15 | 46 | -- | 100 | 25 |
| 18 | 160 | 75 | -- | 317 | -- | 160 | 77 | -- | 317 | -- | 180 | 120 | -- | 317 | 25 |
| STT TOTALS | 44,178 | 20,965 | 16,730 | 2,651 | 735 | 50,520 | 23,100 | 18,408 | 3,277 | 915 | 56,875 | 24,740 | 19,888 | 3,760 | 1,175 |
| St. Croix | 375 | 121 | 23 | 60 | 30 | 473 | 390 | 23 | 160 | 55 | 565 | 443 | 223 | 160 | 55 |
| 1 | 3,887 | 831 | 2,095 | 65 | 55 | 4,562 | 914 | 2,095 | 65 | 55 | 5,190 | 1,040 | 2,095 | 115 | 65 |
| 2 | 11,170 | 739 | 2,812 | 110 | 10 | 14,425 | 199 | 2,812 | 110 | 10 | 17,691 | 957 | 2,812 | 110 | 10 |
| 3 | 637 | 175 | -- | -- | 10 | 700 | 199 | -- | -- | 10 | 836 | 226 | -- | -- | 10 |
| 4 | 573 | 25 | -- | -- | -- | 630 | 20 | -- | -- | -- | 753 | 32 | -- | -- | -- |
| 5 | 404 | 10 | 9 | 91 | 25 | 509 | 89 | 9 | 91 | 25 | 608 | 101 | 9 | 154 | 50 |
| 6 | 4,964 | 1,091 | 1,939 | -- | -- | 6,674 | 1,262 | 2,739 | -- | -- | 7,975 | 1,413 | 3,450 | -- | -- |
| 7 | 2,260 | 1,479 | 2,200 | 25 | 20 | 4,270 | 1,683 | 3,149 | 56 | 20 | 5,112 | 1,915 | 3,317 | 56 | 20 |
| 8 | 0,012 | 4,013 | 3,369 | -- | 10 | 0,940 | 4,093 | 3,369 | -- | 10 | 10,663 | 4,650 | 3,369 | -- | 10 |
| 9 | 2,005 | 306 | 440 | 82 | 25 | 2,629 | 360 | 440 | 82 | 25 | 3,142 | 396 | 440 | 62 | 25 |
| 10 | 2,497 | 596 | 65 | 100 | 25 | 3,140 | 607 | 65 | 200 | 45 | 3,762 | 691 | 65 | 200 | 50 |
| 11 | 3,520 | 0,194 | 1,349 | 303 | 190 | 3,800 | 9,104 | 1,349 | 303 | 190 | 4,637 | 10,364 | 1,349 | 303 | 190 |
| 12 | 2,551 | 473 | -- | -- | -- | 3,430 | 530 | 800 | 100 | -- | 4,099 | 612 | 800 | 100 | -- |
| 13 | 504 | -- | -- | -- | -- | 555 | 10 | -- | -- | -- | 663 | 11 | -- | -- | -- |
| 14 | 410 | 252 | 799 | 162 | 75 | 527 | 287 | 799 | 162 | 75 | 630 | 327 | 799 | 162 | 75 |
| 15 | 546 | 110 | 40 | 100 | 25 | 680 | 125 | 40 | 100 | 25 | 822 | 142 | 40 | 282 | 25 |
| 16 | 303 | 700 | -- | 154 | 85 | 407 | 374 | -- | 154 | 85 | 486 | 426 | -- | 154 | 85 |
| 17 | 40 | 10 | -- | -- | -- | 51 | 11 | -- | -- | -- | 63 | 13 | -- | -- | -- |
| 18 | 377 | -- | -- | -- | -- | 415 | 10 | -- | -- | -- | 495 | 11 | -- | -- | -- |
| 19 | 4,151 | 1,761 | 3,160 | 180 | 10 | 5,222 | 1,775 | 3,160 | 180 | 10 | 6,240 | 2,020 | 3,160 | 180 | 10 |
| STX TOTALS | 49,200 | 20,516 | 18,328 | 1,512 | 595 | 62,145 | 22,670 | 20,877 | 1,843 | 640 | 74,240 | 25,798 | 22,456 | 2,138 | 680 |
| TOTALS | 95,930 | 42,345 | 35,278 | 6,512 | 1,435 | 115,630 | 46,791 | 39,891 | 5,322 | 1,680 | 134,590 | 51,622 | 42,944 | 6,452 | 2,000 |

Note: RES - residential; MWF - work force; SCH - school; TUR - tourist oriented.

GMB:SA

100825

Figure 7

WELL FIELD LOCATIONS

0 2,000 FEET



| | MILES FROM SITE | | | | | |
|---------------------|-----------------|------|--------|-------|-------|-------|
| | 1/4 | 1/2 | 1 | 2 | 3 | 4 |
| WELLS | 2(2)* | 7 | 10 | 3 | 4 | 3 |
| POPULATION SUPPLIED | (100)*
2546 | 8911 | 12,730 | 3,819 | 5,092 | 3,819 |

* VIPA WELLS

PROSPERITY WELL FIELD



La GRANGE WELL FIELD

Fredericksted

3 wells
ADVENTURE WELL FIELD



3 wells
GOLDEN GROVE WELL FIELD



7 wells
NEGRO BAY WELL FIELD



9 wells
FAIR PLAINS WELL FIELD



CONCORDIA WELL FIELD



7 wells
BARREN SPOT WELL FIELD



FACILITY LOCATION



SOURCE: COMPREHENSIVE WATER RESOURCES MANAGEMENT
PLAN FOR THE U.S. VIRGIN ISLANDS, 1983.

REFERENCE NO. 23

100827

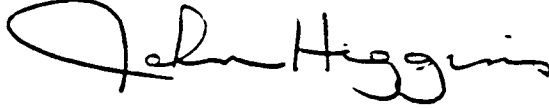
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

OCT 18 1990

DATE:

SUBJECT: Virgin Island Chemical Co. (VIChem) - Well Water Data

FROM: John Higgins, P.E., On-Scene Coordinator
Response & Prevention Branch



TO: Sherrel Henry, Remedial Project Manager
Eastern New York/Caribbean Remedial Action Branch

Please find attached the, "Compendium of Well Water Data Collected at the Virgin Island Chemical Co. by the USEPA (1986-1990)." Thank you for reviewing the draft version. As we agreed, I am sending this report to Ms. Yvette Canegatta of the Virgin Island Department of Natural Resources. This report will also be appended to the VIChem OSC Report.

I can be contacted at (FTS) 340-6194, should you have any questions regarding the removal action at VIChem.

Attachment

cc: Yvette Canegatta, VIDPNR

100828

COMPENDIUM OF WELL WATER DATA
COLLECTED AT THE VIRGIN ISLAND CHEMICAL CO. BY THE USEPA
(1986-1990)

FOREWORD

The purpose of this report is to summarize pertinent sampling data and information regarding the volatile organic, well water data collected by the United States Environmental Protection Agency (EPA) during various sampling events at, and in the vicinity of the Virgin Island Chemical Co. (VIChem) Hazardous Waste Site in St. Croix during and prior to the 1990 Superfund Removal Action. Summary reports of each of these sampling events are included in the VIChem Removal Action Site Files.

A review of the data indicates that Chloroform was consistently the dominant contaminant during each of the sampling events. For this reason, Chloroform results are included herein and are plotted in the attached graph, "Chloroform Contamination in Well Water - Virgin Island Chemical Co. Site, St. Croix". Since the purpose of this report is to merely assemble pertinent data, and not to interpret the data or make recommendations based on the data, all analyzed data, including qualified and rejected data, are included in this report.

It should be pointed out that the Drinking Water Maximum Contaminant Level for total trihalomethanes is 100 ug/l (See 40 CFR §141.12) and the 1980 Federal Water Quality Criteria for Chloroform (as revised), based on a carcinogenicity of 10^{-6} , is 5.70 ug/l for human exposure from contaminated water and fish.

COMPENDIUM

1. RCRA Enforcement (3/13/86) The Environmental Services Division (ESD) of Region 2 conducted a RCRA Enforcement Inspection of the VIChem facility, then known as Berlex Laboratories, on March 13, 1986. The inspection included 3 soil samples taken from the intermittent stream, or "gut", on the site perimeter, 2 soil samples obtained from the laboratory water drainage pit, and one sample taken from the production well in the northwest corner of the property. The results of the organic analysis from the production well indicated Chloroform contamination at a level of 130 ug/l.

2. St. Croix Well Survey Phase I (3/7/88-3/10/88) The Response and Prevention Branch (RPB) conducted well sampling for volatile organic constituents at 21 locations in St. Croix, including four wells in the vicinity of the VIChem Site. The data was rejected by the Monitoring Management Branch (MMB) due to excessive holding times. Chloroform contamination was indicated in the October 25, 1988 report, "St. Croix Well Survey", prepared by Weston - TAT, as shown below:

| Well Name | Fairplains #6 | Fairplains #9 | VIPA #1 | VIPA #2 |
|-------------------|---------------|---------------|---------|---------|
| Chloroform (ug/l) | 24 | 75 & 70 | 11.5 | 11.3 |

3. St. Croix Well Survey Phase I (10/31/88-11/2/88) RPB resampled wells at eight locations, including four wells in the vicinity of the VIChem Site. Chloroform contamination was indicated as shown below:

| Well Name | Fairplains #6 | Fairplains #9 | Fairplains #8 | VIPA #2 |
|-------------------|---------------|---------------|---------------|---------|
| Chloroform (ug/l) | 35.9 | 10.4 & 9.7 | 12.4 | 1.6U* |

* Chloroform was not detected at the detection level of 1.6 ug/l.

4. VIChem Removal Action Phase I (1/17/90) During Phase I removal action activities at VIChem, three off-site wells and the on-site water tank were sampled for volatile organic contamination. Analytical services were provided by a private laboratory procured by the TAT. In addition to the routine QA/QC required for Level 2 Removal Program sampling, two performance evaluation samples and one blind duplicate sample were analyzed. TAT validated the data and, although QA/QC discrepancies were slight and few, the data was qualified as estimated. Once again, Chloroform was the most dominant compound in each sample; the data for this contaminant are shown below:

| Well Name | Fairplains #6 | Fairplains #9 | Fairplains #8 | Water Tank |
|-------------------|---------------|---------------|---------------|------------|
| Chloroform (ug/l) | 39.0 | 25.0 | 5.0 | 23.9* |

* This is an average of Chloroform contamination in the three tank samples (Water tank sample = 23.9 ug/l, Water tank drain sample = 22.7 ug/l, Water tank pump sample = 25.0 ug/l).

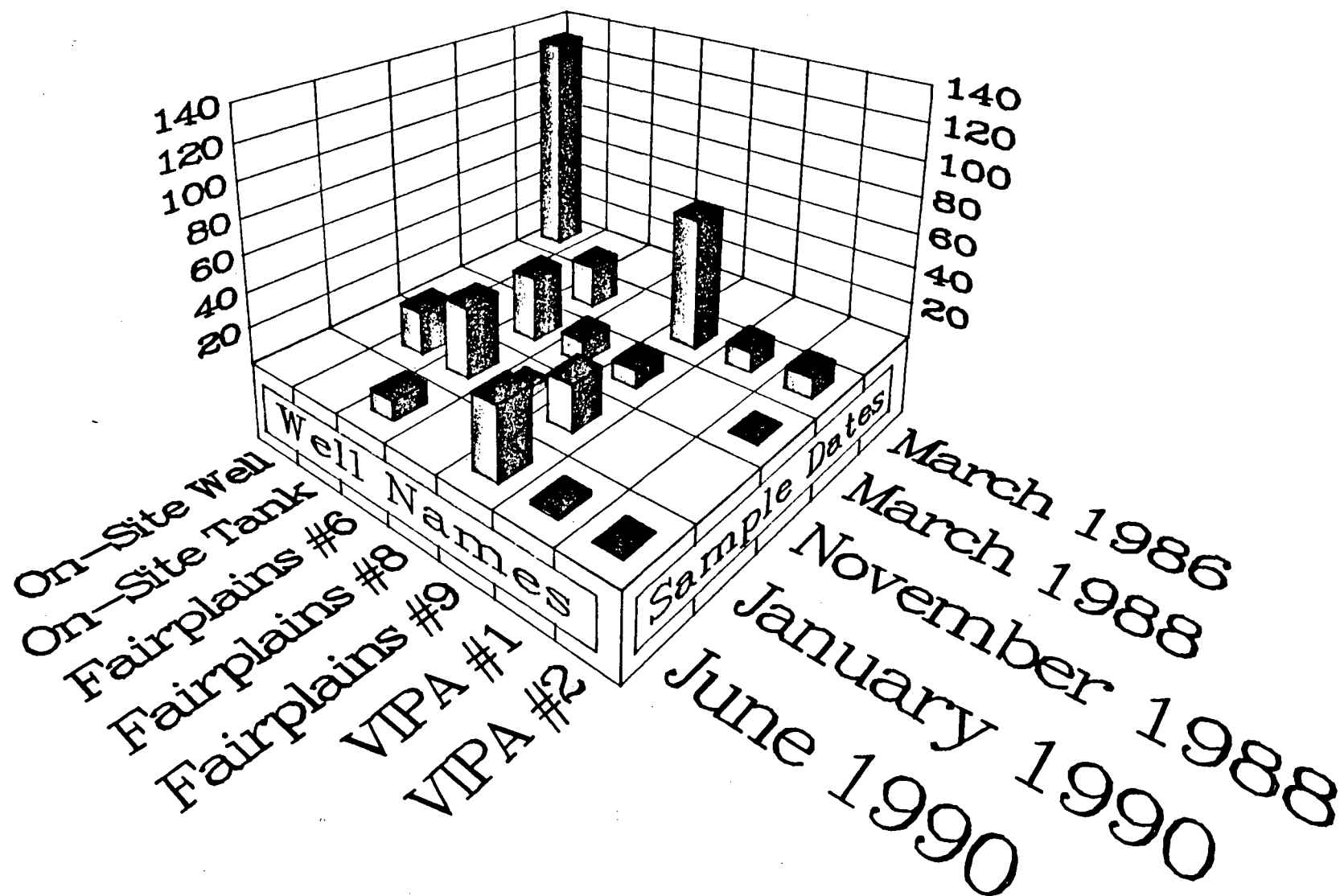
5. VIChem Removal Action Phase I (6/25/90) During Phase II removal action activities at VIChem, four off-site wells were sampled and analyzed for volatile organic contaminants. When detected, Chloroform was the most dominant compound in each sample and in 3 out of 4 samples the only VOC detected. Analytical services were provided by the Contract Laboratory Program and the data was validated by MMB. The only data qualified was for a QA/QC sample for a single compound. The Chloroform data for this sampling event are shown below:

| Well Name | Fairplains #6 | Fairplains #9 | VIPA #1 | VIPA #2 |
|-------------------|---------------|---------------|---------|---------|
| Chloroform (ug/l) | 11 | 39 | 2J* | 5U** |

* An estimated value of 2 ug/l was reported.

** Chloroform was not detected at the detection level of 5 ug/l.

Chloroform Contamination (ug/l) in Well Water



Virgin Island Chemical Site, St. Croix

that exceed 10 mg/l; and
(4) No adverse health effects shall result.

[40 FR 59570, Dec. 24, 1975, as amended at 45 FR 57342, Aug. 27, 1980; 47 FR 10998, Mar. 12, 1982; 51 FR 11410, Apr. 2, 1986]

§ 141.12 Maximum contaminant levels for organic chemicals.

The following are the maximum contaminant levels for organic chemicals. The maximum contaminant levels for organic chemicals in paragraphs (a) and (b) of this section apply to all community water systems. Compliance with the maximum contaminant levels in paragraphs (a) and (b) of this section, is calculated pursuant to § 141.24. The maximum contaminant level for total trihalomethanes in paragraph (c) of this section applies only to community water systems which serve a population of 10,000 or more individuals and which add a disinfectant (oxidant) to the water in any part of the drinking water treatment process. Compliance with the maximum contaminant level for total trihalomethanes is calculated pursuant to § 141.30.

| | Level,
milligrams
per liter |
|--|-----------------------------------|
| (a) Chlorinated hydrocarbons: | |
| Endrin (1,2,3,4,10, 10-hexachloro-6, 7-epoxy-1,4, 4a,5,6,7,8,81-octahydro-1,4-endo, endo-5,8-dimethano naphthalene)..... | 0.0002 |
| Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)..... | 0.004 |
| Methoxychlor (1,1,1-Trichloro-2, 2-bis [p-methoxyphenyl] ethane)..... | 0.1 |
| Toxaphene (C ₁₂ H ₈ Cl ₆ -Technical chlorinated camphene, 67-69 percent chlorine)..... | 0.005 |
| (b) Chlorophenoxys: | |
| 2,4-D, (2,4-Dichlorophenoxyacetic acid)..... | 0.1 |
| 2,4,5-TP Silvex (2,4,5-Trichlorophenoxypropionic acid)..... | 0.01 |
| (c) Total trihalomethanes (the sum of the concentrations of bromodichloromethane, dibromochloromethane, tribromomethane (bromform) and trichloromethane (chloroform))..... | 0.10 mg/l. |

[40 FR 59570, Dec. 24, 1975, as amended at 44 FR 68641, Nov. 29, 1979]

§ 141.13 Maximum contaminant levels for turbidity.

The maximum contaminant levels for turbidity are applicable to both community water systems and non-

The maximum contaminant levels for turbidity in drinking water, measured at a representative entry point(s) to the distribution system, are:

(a) One turbidity unit (TU), as determined by a monthly average pursuant to § 141.22, except that five or fewer turbidity units may be allowed if the supplier of water can demonstrate to the State that the higher turbidity does not do any of the following:

- (1) Interfere with disinfection;
- (2) Prevent maintenance of an effective disinfectant agent throughout the distribution system; or
- (3) Interfere with microbiological determinations.

(b) Five turbidity units based on an average for two consecutive days pursuant to § 141.22.

[40 FR 59570, Dec. 24, 1975]

EFFECTIVE DATE NOTE: At 54 FR 27527, June 29, 1988, § 141.13 was amended, adding introductory text, effective December 31, 1990. This section already contains an introductory text. EPA will publish a document at a later date clarifying the status of the current introductory text. For the convenience of the user, the added material follows.

§ 141.13 Maximum contaminant levels for turbidity.

The requirements in this section apply to unfiltered systems until December 30, 1991, unless the State has determined prior to that date, in writing pursuant to § 141.2(b)(7)(C)(iii), that filtration is required. The requirements in this section apply to filtered systems until June 29, 1993. The requirements in this section apply to unfiltered systems that the State has determined, in writing pursuant to § 141.2(b)(7)(C)(iii), must install filtration, until June 29, 1993, or until filtration is installed, whichever is later.

§ 141.14 Maximum microbiological contaminant levels.

The maximum contaminant levels for coliform bacteria, applicable to community water systems and non-community water systems, are as follows:

(a) When the membrane filter technique pursuant to § 141.21(a) is used.

(1) One per 100 milliliters as the arithmetic mean of all samples examined per compliance period pursuant to § 141.21(b) or (c), except that, at the primacy Agency's discretion systems required to take 10 or fewer samples per month may be authorized to exclude one positive routine sample per month from the monthly calculation if:

(i) As approved on a case-by-case basis the State determines and indicates in writing to the public water system that no unreasonable risk to health existed under the conditions of this modification. This determination should be based upon a number of factors not limited to the following:

(A) The system provided and had maintained an active disinfectant residual in the distribution system, (B) the potential for contamination as indicated by a sanitary survey, and (C) the history of the water quality at the public water system (e.g. MCL or monitoring violations); (ii) the supplier initiates a check sample on each of two consecutive days from the same sampling point within 24 hours after notification that the routine sample is positive, and each of these check samples is negative; and (iii) the original positive routine sample is reported and recorded by the supplier pursuant to §§ 141.31(a) and 141.33(a). The supplier shall report to the State its compliance with the conditions specified in this paragraph and a summary of the corrective action taken to resolve the prior positive sample result. If a positive routine sample is not used for the monthly calculation, another routine sample must be analyzed for compliance purposes. This provision may be used only once during two consecutive compliance periods.

(2) Four per 100 milliliters in more than one sample when less than 20 are examined per month; or

(3) Four per 100 milliliters in more than five percent of the samples when 20 or more are examined per month.

(b) (1) When the fermentation tube method and 10 milliliter standard portions pursuant to § 141.21(a) are used, coliform bacteria shall not be present in any of the following:

ant to § 141.21 (b) or (c) except that, at the State's discretion, systems required to take 10 or fewer samples per month may be authorized to exclude one positive routine sample resulting in one or more positive tubes per month from the monthly calculation if:

(A) As approved on a case-by-case basis the State determines and indicates in writing to the public water system that no unreasonable risk to health existed under the conditions of this modification. This determination should be based upon a number of factors not limited to the following: (1) The system provided and had maintained an active disinfectant residual in the distribution system, (2) the potential for contamination as indicated by a sanitary survey, and (3) the history of the water quality at the public water system (e.g. MCL or monitoring violations);

(B) The supplier initiates a check sample on each of two consecutive days from the sampling point within 24 hours after notification that the routine sample is positive, and each of these check samples is negative; and

(C) The original positive routine sample is reported and recorded by the supplier pursuant to § 141.31(a) and § 141.33(a). The supplier shall report to the State its compliance with the conditions specified in this paragraph and report the action taken to resolve the prior positive sample result. If a positive routine sample is not used for the monthly calculation, another routine sample must be analyzed for compliance purposes. This provision may be used only once during two consecutive compliance periods.

(ii) Three or more portions in more than one sample when less than 20 samples are examined per month; or

(iii) Three or more portions in more than five percent of the samples when 20 or more samples are examined per month.

(2) When the fermentation tube method and 100 milliliter standard portions pursuant to § 141.21(a) are used, coliform bacteria shall not be present in any of the following:

REFERENCE NO. 24

100833

CONTROL NO.:

02-9101-04

DATE:

7/10/91

TIME:

0910

DISTRIBUTION:

- VI Chemical File

BETWEEN:

VI
WATER & POWER AUTHORITY

OF:

ST.
CROIX

PHONE:

(809)773-3775

AND:

RICHARD SETTINO

(NUS)

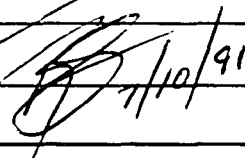
DISCUSSION:

I asked about surface water intakes on St. Croix:

-- There are two (2) intakes located on St. Croix which pump water from the Caribbean Sea to desalination plants for public supply.

-- The intakes are located in Richmond -- which is on the North side of the island.

-- Did not know exact population served.


7/10/91

ACTION ITEMS:

100834